DEPARTMENT OF THE ARMY

U. S. Army Corps of Engineers Washington, D. C. 20314-1000

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Army Programs CORPS OF ENGINEERS CIVIL WORKS DIRECT PROGRAM PROGRAM DEVELOPMENT GUIDANCE FISCAL YEAR 2009

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EXPIRES 31 MARCH 2008 Army Programs CORPS OF ENGINEERS CIVIL WORKS DIRECT PROGRAM PROGRAM DEVELOPMENT GUIDANCE FISCAL YEAR 2009

1. **Purpose.** This Engineer Circular (EC) provides guidance for development and submission of the Corps of Engineers direct Civil Works Program for Fiscal Year 2009(FY09).

This guidance is consistent with FY08 guidance in that we will continue developing our program by eight business lines:

Emergency Management (EM);

Environnent (EN);

Flood and Coastal Storm Damage Reduction (F&CSDR);

Hydropower (H);

Navigation (N);

Recreation (RC);

Regulatory (RG); and

Water Supply (WS),

and three functions

Expenses (E);

Revolving Fund (RF) (Plant Replacement and Improvement Program (PRIP)); and Automation Program (AP).

Specifically excluded from coverage are mandatory program activities, such as those funded by Permanent Appropriations (PA) and the Coastal Wetlands Restoration Trust Fund (CWRTF).

Appendices I - VIII provide guidance for program development by each of the eight business lines within the Civil Works Program. Annexes A - C provide generic guidance on I (Investigations); C (Construction); and O&M Program matters, cutting across all business lines, as applicable. Annexes D - G provide guidance for program development for each of the three functional programs.

This EC supersedes draft EC 11-2-187 31 Mar 04, draft EC 11-2-187 29 Apr 05 and draft EC 11-2-187 10 May 06.

2. **Applicability.** This EC applies to all headquarters elements, major subordinate commands (MSCs), districts, and field support activities having Civil Works Program responsibilities.

3. References.

a. Public Laws:

b. Executive Orders:

(1)	EO 11514	Protection and Enhancement of Environmental Quality
(2)	EO 12088	Federal Compliance with Pollution Control Standards, 1978
(3)	EO 12512	Federal Real Property Management, 1985
(4)	EO 12893	Principles for Federal Infrastructure Investment
(5)	EO 12906	Coordinating Geographic Data Acquisition and Access: The
		National Spatial Data Infrastructure
(6)	EO 13148	Greening the Government through Leadership in Environmental
		Management

c. Office of Management and Budget (OMB) documents:

- (1) Budget of the United States Government, Fiscal Year 2007, Analytical Perspectives
- (2) Budget of the United States Government, Fiscal Year 2007, Appendix
- (3) OMB Circular A-11 Preparation and Submission of Budget Estimates
- d. Department of the Army regulations:
- (1) AR 11-2 Management Control(2) AR 385-10 Army Safety Program
- e. Corps of Engineers Engineer Circulars, Manuals, Pamphlets, Regulations, and policy announcements and letters

(1) EC 11-1-4	USACE Manpower - Corps of Engineers - Manpower
	Requirements Systems
(2) EC 11-2-180	Army Programs - Availability, Obligation and Use of General
	Expenses and Other Civil Funds in Fiscal Year 2001
(3) EC 200-1-2	FUSRAP Policy
(4) EM 1110-1-2909	Geospatial Data and Systems
(5) EP 1130-2-500	Partners and Support (Work Management Guidance and
	Procedures)
(6) ER 5-1-11	Program and Project Management
(7) ER 11-1-320	Civil Works Emergency Management Programs
(8) ER 11-2-220	Civil Works Activities General Investigation
(9) ER 11-2-240	Civil Works Activities - Construction & Design
(10) ER 11-2-290	Civil Works Activities, General Expenses
(11) ER 37-2-10	Accounting and Reporting Civil Works Activities
(12) ER 200-2-3	Environmental Compliance Policies
(13) ER 1105-2-100	Guidance for Conducting Civil Works Planning Studies
(14) ER 1110-1-8156	Policies, Guidance, and Requirements for Geospatial Data and
	Systems
(15) ER 1110-2-100	Guidance for Conducting Civil Works Planning Studies
(16) ER 1110-2-1302	Civil Works Cost Engineering
(17) ER 1130-2-500	Partners and Support (Work Management Policies)
(18) ER 1130-2-510	Hydroelectric Power Operations and Maintenance Policies
(19) ER 1130-2-540	Environmental Stewardship Operations and Maintenance Policies
(20) ER 1165-2-119	Modifications to Completed Projects
(21) ER 1165-2-131	Local Cooperation Agreements for New Start Construction
	Projects
(22) ER 1165-2-400	Recreational Planning, Development, and Management Policies
(23) Policy Announcement	ent - Chief of Engineers announcement, 26 Mar 02, subject: USACE
	Environmental Operating Principles

(24) Policy Letter - Policy Guidance Letter 61, 27 Jan 99, subject: "Application of Watershed Perspective to the Corps of Engineers Civil Works

Program and Activities"

- f. Other. 2002 Federal Personnel Guide, Key Communications Group, Inc.
- 4. **Distribution.** This information is approved for public release. Distribution is unlimited.
- 5. Conventions. The following designations are used for selected one-year periods:

CCY = current calendar year

CFY = current fiscal year (extending from 1 October CCY to 30 September CCY+1 before 1 January, latest, and 1 October CCY-1 to 30 September CCY thereafter)

PY = program year (CFY+2 before 1 October, next, and CFY+1 thereafter) = FY09

PY - 1 = one year before PY = FY08

PY - 2 = two years before PY (CFY before 1 October, next, and CFY-1 thereafter) = FY07

PY - 3 = three years before PY (CFY-1 before 1 October, next, and CFY-2 thereafter) = FY06

PY + N = program year plus N fiscal years.

Note that 1 October of PY-1 is 1 October of CCY, until 1 January, next, when it becomes 1 October of CCY-1.

6. Program Development.

- a. Government Performance and Results Act Guidance.
- (1) **Guidance Development Status**. The "Government Performance and Results Act of 1993" (GPRA), PL 103-62 is the foundation for present-day program development within the federal government. GPRA requires that agencies develop strategic plans and annual performance plans for serving the nation, and reports on how effective and efficient performance actually was for any period just completed. This has led to establishment of results-oriented performance planning, measurement, and reporting throughout the Federal government. The current Civil Works Strategic Plan was released in Mar 04, with the understanding that Army and OMB would continue to work on performance measures and targets tied to the strategic goals and objectives. A summary of the Civil Works strategic goals are as follows:
- (a) Provide sustainable development and integrated management of the Nation's water resources.
 - (b) Repair past environmental degradation and prevent future environmental issues.
 - (c) Ensure that projects meet authorized purposes and evolving conditions.
- (d) Reduce vulnerabilities and losses to the Nation and the Army from natural and manmade disasters, including terrorism.

- (e) Be a world-class public engineering organization.

 Meanwhile, Army is developing its program based on projected merit of program investment increments. Guiding principles of its performance-based program development are presented below, under "Army Policy."
- (2) **Initial Guidance.** The Operation and Maintenance, Program successfully established results-oriented business program development procedures for six business programs in 1996 as a Pilot GPRA Project for OMB. The business programs include EM, EN, F&CSDR, H, N, and RC. The development procedures were further evolved into today's procedures models and served as examples for development of models for the two other business lines RG and WS. The program development procedures are presented in Appendices I VIII.

b. Presidential Policy.

- (1) **Presentation of Programming Results.** Congress established its appropriation accounts by program function, such as investigations, construction, and operation and maintenance. Consistently, OMB programs by program function. To this end, it maintains 5 to 10-year planning estimates, or ceiling, for each appropriation account of the Civil Works Program. The ceilings reflect long-term effects of the President's policies for the various programs, projects, and activities (PPAs) funded by each account, and serve as benchmarks for use in evaluating Congressional actions. The 5 to 10-year period accommodates adequate definition of long-term resource requirements. These ceilings are presented, for all accounts, in OMB's MAX database.
- (2) **Economic Assumptions.** Economic assumptions underlying Presidential policy of reference 3.c.(1), <u>Budget of the United States Government</u>, <u>Fiscal Year 2008</u>, <u>Analytical Perspectives</u>, are reflected in Table 1. These assumptions, along with related factors presented in the <u>Federal Personnel Guide</u> of Key Communications Group (KCG), Inc., and Civil Service Retirement System (CSRS) to Federal Employees Retirement System (FERS) workforce conversion data of HQUSACE Human Resources Office, are shown for PY-3 through PY+19. The assumptions and related data cover base rates for federal civilian permanent workers, reflecting pay and burden factors; pay raises for these workers applicable to both changing and fixed base rates; and inflation for "goods and services" of federal civilian temporary and nonfederal workers, and nonpay items.
- (a) Pay and Burden Rates. Base rates (against which pay raises apply) reflect assumed pre-raise pay and burden rates. Pre-raise pay rates are 1.000, by definition, for regular pay, and assumed to be 0.02 for awards. Assumed burden rates reflect assumed government contributions for worker benefits. The rates comprise two parts one part for government contributions under the CSRS; the other, under the FERS. The first part (including contributions for retirement, health insurance, Medicare, and life insurance) is shrinking, while the second part (including contributions for regular, "Thrift Savings," and Old Age Survivors Disability Insurance (OASDI) retirement; health insurance; Medicare; and life insurance) is growing. This

results from permanent force "attrition" and subsequent "turnover" through the hiring of more workers under FERS. With an annual permanent force attrition of 7 % and associated turnover initially representing a considerable share of that, the CSRS part is expected to become negligible by FY21. Class 1 "updating factors" reflect the year-over-year change in base (resulting from change in burden), the associated year-over-year raises, and whatever raise absorption may pertain.

- (b) Pay Raise Assumptions. Pay raise assumptions for federal civilian permanent workers are shown in reference 3.c.(1), Table 11-1, "Economic Assumptions." Assumed pay raise rates include base and locality components. (The base component is different from the base rate, discussed above, against which the base component applies.) Base components, reflecting the Employment Cost Index (ECI), apply nationally. Locality components, reflecting conditions of local markets, apply locally. Allocation of pay raise rates to base and locality components is based on the number and distribution of workers eligible for locality pay. For PY-2, the national allocation to these components was 0.017 and 0.018, or 49 % and 51 % of the 35% total raise rate. The national allocation for PY-1 has yet to be determined, therefore, the composite raise rate is used without refinement. Class 1 rates in Table 1 are based on composite raises for all years.
- (c) **Inflation Rates.** Inflation rates reflect assumed price increases for "goods and services" of temporary federal and nonfederal workers, and for nonpay items. The "Balanced Budget Act of 1997," PL 105-33, requires that the Gross Domestic Product (GDP) percent change, year-over-year chained price index (1996 = 100) rates be used to develop "baseline estimates" reflecting, instead of Presidential policy, continued operations under current law and current year appropriations. The baseline program based on these estimates is discussed in OMB's Circular A-11, "Preparation and Submission of Budget Estimates." At the recommendation of OMB, these rates were used as Class 2 rates of Table 1. Class 2 "updating factors" reflect the year-over-year inflation and whatever inflation absorption may pertain.
- (3) **President's Management Agenda (PMA).** The President's Management Agenda addresses six initiatives, specifically:
 - (a) strategic management of human capital
 - (b) competitive sourcing
 - (c) improved financial management
 - (d) expanded e-government
 - (e) real property, and
 - (f) budget and performance integration

The last of these six initiatives deals with program development. It entails using performance information to improve program management and investment decisions. To evaluate the effectiveness and efficiency of agency programs, OMB has developed the Program Assessment Rating Tool (PART) - an objective, easily understood questionnaire which facilitates reaching findings that are credible and useful in improving performance and decision-making. The PART includes performance measures.

Agency status and progress in addressing the PMA are monitored by OMB in a "scorecard" format. Status and progress each may be summarized by one of three possible overall ratings - green, yellow, and red, from best to worst. On its latest quarterly scorecard, the Corps' received two red, three yellow, and one green rating for status, include a yellow for budget and performance integration, yellow for competitive sourcing, yellow for real property, and green for strategic management of human capital. Our goal is to receive green ratings for status in accomplishment of all initiatives.

c. Army Policy.

- (1) **Performance-based Program Development.** Performance-based program development is development of only those programs, and only those parts of those programs, that can be justified by the results produced, or to be produced. Results may be in the form of outputs or outcomes. Performance-based program development is designed not only to ensure prosecution of only clearly justified programs, but also, to ensure that business lines increments are added such that the first-added increment provides the best results or returns, the second-added increment provides the second-best results or returns, etc. The increments are added in order of priority, both within and across business lines, to build total programs of whatever size, depending on available funding.
- (2) **Business Lines Programming.** In response to GPRA, the Corps established its business lines by program purpose, such as navigation, environment, and flood and coastal storm damage reduction, rather than by function (e. g. investigations, construction, operation and maintenance, etc.). Consistently, the Corps programs by program purpose, and, once Army finishes program development, assists Army in cross-walking results to appropriation accounts, set up by function, for use by OMB in developing the President's program. Business lines include navigation, environment, flood control and coastal storm damages, hydropower, recreation, regulatory, emergency management, and water supply. Each of these business lines is fully addressed in its own appendix.

(3) Performance.

(a) **Measures.** Performance measures are written criteria by which to gauge progress in accomplishment of any particular performance objectives, goals, and missions. For the Civil Works Program, the Corps has eight sets of performance measures - one for each business line.

They are used, not only as standards by which to judge performance based on project or program results, but also, to project performance contributions of investment increments, discussed later, for consideration in prioritization of increments to be added in program development.

- (b) **Results.** Performance results are products of operation of the PPAs. They are determined through collection of data, by performance measure, describing the extent to which performance objectives, goals, or missions, were met through operation of the PPA. They are used, not only to evaluate program performance and judge program worthiness after the fact, but also, to evaluate the reasonableness of performance measures.
- (4) **FC,MR&T Project.** Programs for the FC,MR&T Project will be developed in accordance with guidance provided for comparable functions of other programs.
- (5) Specifically Authorized Studies and Projects. For specifically authorized studies and projects the emphasis is on maintaining continuity in the workflow once a new start decision has been made. In general, there are only two new start decision points for all Army proposed cost-shared projects initiation of the reconnaissance phase study and project construction. Likewise, Preconstruction Engineering and Design (PED) studies may be budgeted before release of the Division Engineer's (DE's) Transmittal Letter provided the DE's Letter will be released. However, if any feasibility study (other than for inland waterways) was not subject to efficiencies and controls of cost-sharing, a new start review and approval would be needed for PED. Likewise, a new start decision would be needed for a feasibility study being initiated after, say, an O&M-funded appraisal without an intervening reconnaissance new start decision.

d. Corps Policy.

- (1) **General.** In response to GPRA, the Corps established its business lines by program purpose, such as emergency management, environment, flood and coastal storm damage reduction, rather than by function. Consistently, the Corps programs by program purpose, and, once Army finishes program development, assists Army in translating results to program function for use by OMB in developing the President' program.
- (2) **Local Sponsor.** Districts should collaborate with Local Sponsors on the budget development. Please follow the guidance for Disclosure of Budgetary information. The President's Budget, after presentation to Congress contains the only releasable budgetary information. This budgetary or process information must be kept confidential until officially released to the public. Such information includes funding account, study, project, and state. Instructions on policies and procedures for disclosing budgetary information are contained in OMB guidance circular and are issued annually by CECW-ID.
- (3) **Environmental Operating Principles.** By reference 3.e. (23), 26 Mar 02, the Chief of Engineers announced the USACE Environmental Operating Principles. These principles apply across all business programs and accounts. They are:

- (a) strive to achieve environmental accountability, in order to maintain the environment in a healthy, diverse, and sustainable condition necessary to support life;
- (b) recognize the interdependence of life and the physical environment, proactively considering environmental consequences of Corps programs and acting accordingly in all appropriate circumstances;
- (c) seek balance and synergy among human development activities and natural systems by designing economic and environmental solutions that support and reinforce one another;
- (d) continue to accept responsibility and accountability under the law for activities and decisions under our control that impact human health and welfare and the continued viability of natural systems;
- (e) seek ways and means to assess and mitigate cumulative impacts to the environment, bringing systems approaches to the full life cycle of our processes and work;
- (f) build and share an integrated scientific, economic, and social knowledge base that supports a greater understanding of the environment and impacts of our work; and
- (g) respect the views of individuals and groups interested in Corps activities, listen to them actively, and learn from their perspective in the search to find innovative win-win solutions o the nation's problems that also protect and enhance the environment.
- (4) Geospatial Data and Systems. Key to successful implementation of the Watershed Perspective will be the sharing of data internally and with others. To ensure that data and information technology are consistent and compatible throughout the Corps, each District shall develop an Enterprise Geospatial Information System (eGIS) initiative that fits into the Division's Enterprise GIS Program Management Plan and the Corp's Geospatial Enterprise Architecture (CeA), as outlined in Engineer Manual 1110-1-2909, Geospatial Data and Systems. As part of the eGIS initiative, each MSC shall establish, and maintain for easy access, its own geospatial database repository into which its districts shall input their project data and other data essential to multi-purpose water and related land resources management within their watersheds. Such other data might include data on water and land use regulation, water control, and environmental and emergency management. Furthermore, to the fullest extent practicable, all districts will prioritize historical program and project data and input it into the E-GIS databases.
- (5) Watershed Principles. Watershed studies are planning initiatives that have a multipurpose and multi-objective scope and accommodate flexibility and collaboration in the planning process. Possible areas of investigation include flood damage reduction activities, ecosystem restoration, navigations, water supply and recreations. The watershed principles require team thinking about water resources development and management in the context of multiple purposes

rather than single purposes, and thus, facilitates the search for comprehensive and integrated solutions; improve opportunities for public and private groups to identify and achieve common goals by unifying on-going efforts and leveraging resources; identify a combination of recommended actions (a Watershed Management Plan) to be undertaken by various partners and stakeholders in order to achieve local, tribal, regional, and national water resources management goals identified in the study and may or may not identify further budgetable Corps studies or implementation projects; leverage resources, including cost shared collaboration, and integrates programs and activities within and among Civil Works programs, and with other Federal, tribal state and non-governmental organizations, to improve consistency and cost effectiveness.

- (6) Plant Replacement and Improvement Program. Submission of documents to support new Plant Replace and Improvement Program (PRIP) projects are contained in Annex E along with referenced materials. Both large and small projects are reviewed by the HQ Prioritization Group which makes recommendations to the Senior Program Budget Advisory Committee on the disposition with respect to inclusion in the program. Good planning dictates that justification, economic analysis, estimates, and other submission materials are prepared well in advance of this budget review, since it is only one year away from project execution. Submissions of projects outside of the normal budget cycle are discouraged except for situations dictated by extraordinary circumstances.
- (7) Construction Contracts guidance is referenced in Annex B and in EC 11-2-191, Execution of the Annual Civil Works Program.
- (8) **Initial Program.** The initial program is the first business line increment for each business line. Criteria for initial levels are presented, as applicable, in Appendices I VIII. For each business line and account program, HQUSACE must develop a realistic, multiyear initial program reflecting PY-2 work allowances and projected current year appropriations and meeting further requirements for program formulation presented in the appendices and/or annexes covering the programs. (Note that this is not the same program represented by "baseline estimates" required by reference 3.a.(8), PL 101-508, and discussed in reference 3.c.(3) OMB's Circular A-11).
- (9) Capability Program. When developing capabilities, District should fully fund all contracts \$20 million or less; for contracts greater than \$20 million, treat them as incrementally funded (i.e. continuing contract, base bid + option, multiple year contract); when stating capabilities, in addition to the optimally funded capabilities, provide one or two logical increments less that the optimal capability with a brief explanation of what can be accomplished at each funding increment. The recommended program to OMB, the President's FY 2009 budget, and the associated 5 to 10 year budget plan will be derived in part from the Capability Program. Future or known work should be identified in the capability program.

7. Systems

- a. The National Academy of Public Administration (Prioritizing America's Water Resources Investments) recently released their February 2007 report which was chartered by the House Appropriations Energy and Water Subcommittee. The report validates the direction the Corps has been heading under the leadership of OMB and Congress in the implementation of performance based budgets, system/watershed perspectives, long range asset planning reflected on the near term through the Five Year Funding Streams and the Five Year Infrastructure Management Plans providing a near term horizon. This evolution will continue with the development of the FY2009 budget using regional system budgeting and empowerment of the Regional Business Center under the Corps of Engineers 2012 Reorganization. Regional system and/or watershed budget development will provide better representation of unique regional characteristics that are difficult if not impossible to capture using national performance based criteria. The Business Line Managers will provide national direction and guidelines to ensure that regional criteria are aligned with primary objectives to ensure public safety, value to the nation, and excellence in stewardship by seeking to maximize project life at the lowest sustainable cost in an environmentally responsible and sustainable manner.
- (1) Infrastructure Management Plan. The Infrastructure Management Plan will be consistent with the 5 year funding stream and represent the O&M component of the 5 year funding stream. The Infrastructure Management Plan will be based on sub-plans developed by Business Line Managers for six primary missions (Flood & Coastal Storm Damage Reduction, Navigation, Environmental Stewardship, Water Supply, Hydropower, and Recreation). The Infrastructure Management Plan should be jointly developed and improved within the Operation & Maintenance Community of Practice. The Infrastructure Management Plan must reflect sound engineering, construction, operation and maintenance state of practice (reliability centered maintenance, condition assessments, equipment mortality studies, predictive maintenance, etc.) and continually honed to achieve the lowest sustainable O&M investment level. Accelerated replacement cycles within the 5 year funding stream may affect O&M needs within the Infrastructure Management Plan (i.e. replacement versus continuing high outage and repairs on failing equipment). The O&M budget submission should be consistent with the 5 year funding stream and the Infrastructure Management Plan. The 5 year funding stream and Infrastructure Management Plan both reflect planned investments for a long range five year period.
- (2) Systems and Basins. A systems approach or watershed approach is needed to ensure that investments are integrated into a whole that preserves or enhances performance and sustainability at the system level. A system approach requires consideration of the investment needs and priorities of all the business programs within the watershed. All PY (FY 09 budget items requests (studies, construction, and O&M) will include the USGS Hydrologic Unit Code (HUC) sub-region (4 digits) codes. These codes can be found at http://water.usgs.gov/GIS/huc name.html. A list of 54 Systems has been developed for O&M (see Table C-5.1). MSCs had the opportunity to recommend modifications to the systems, by either adding or subtracting based on a rational logical fashion that supports the system concept. Accordingly, MSCs will use the systems within their respective regions of the US and develop budget priorities that are consistent with investing in one or more of the following aspects of the

system: in the highest risk portions of the system; that will result in the most improvement in performance; that contribute to increased navigation reliability and safety; that contribute to increased flood damages prevented; that identified as a watershed, and may include multiple individual projects and components. Some large watersheds are comprised of more than on system (e.g. the Mississippi River watershed has the Upper Mississippi River system, the MR&T system, and certain tributaries as separate systems). Analytical perspectives should be developed to help determine the mix in PY of investments in maintenance, operations improvements, reallocation, rehabilitation or replacement, new construction, planning, and design that will maximize system efficiency, safety, reliability and sustainability over time.

- (3) Operations and Maintenance Systems. PY O&M budget will be formulated on a regional/system basis and, if Congress concurs on the benefit of planning and carrying out the O&M program in accordance with system-wide priorities, the O&M program would be managed by system and business line, rather than project-project. Operation and maintenance work funded in this manner will allow managers in the field more flexibility to address uncertainties and change conditions throughout the fiscal year, consistent with budget and appropriations decisions.
- (a) Proposed PY funding will be consolidated according to Civil Works program areas, such as commercial navigation and flood damage reduction, for each of the identified systems in the United States, as established by the US Geological Survey. Specific projects that would receive funding in each basin also are identified by name.

8. Multiyear Programs.

a. **Introduction.** OMB ceilings reflect intent of the President's 5 to 10 year program from a national perspective. However, Army may recommend the distribution of funding within the ceiling for Civil Works and may elect to recommend alternative funding levels. To this end, it can select alternative work mixes and associated funding levels, by functional account, that best meet scheduled commitments, program priorities, and capabilities. Emphasis or de-emphasis of programs, projects, and activities should always provide for the most efficient and productive use of funds.

b. Civil Works Five Year Development Plan.

- (1) The Civil Works Five Year Development Plan purpose is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. The five-year plan focus is to undertake projects and activities that provide the highest net economic and environmental returns on the Nation's investment as well as reducing risks to life.
- (2) To help in preparing the 2009-2013 five-year plans, each MSC/Division will develop five-year funding streams for each project. The funding streams will be the basis for the PY

budget and the 2009-2013 Five-Year Development Plan (FYDP) which will be submitted to Congress and Office of Management and Budget (OMB) along with the budget submission. Divisions' five-year programs must be included in the **29 June 2007** submission. After the Divisions submit their five-year funding streams, a CW five-year plan will be prepared.

The Final PY budget amounts will be provided after OMB Passback and the Divisions' five-year program will be updated. A final five-year plan is prepared for final submission to Congress and OMB in February 2008. The two scenarios are the final budget scenario and the high (enacted) scenario. The five-year program is referenced in the Appendices and Annexes of this document. The five-year glide path is a projection of future funding requirements to meet performance standards.

- (c) **Programs Developed by Corps.** In the interest of developing an optimum Civil Works Program within funding constraints (as yet undefined), headquarters, U. S. Army Corps of Engineers (HQUSACE) must develop two alternative multiyear programs an "initial program," based on Army policy and a "capability program," based on capability-level production by project.
- (1) **Business Line Increments.** Business line increments are defined in each applicable business line. They are prioritized by MSCs for each of their business lines, then, reviewed and modified or approved by HQUSACE and, ultimately, ASA(CW). They are added to the "initial" program in order of priority within each business line. Their priorities are based on their relative efficiencies and effectiveness in accomplishing approved performance objectives, goals, and missions. The objectives, goals, and missions include serving specific water and related land resource management purposes, meeting statutory requirements, and promoting national heath and safety. Justification statements present the relationships between investment increments, incremental contributions to achieving objectives, goals, and missions, and incremental funding. Making these relationships clear to all parties within the Corps, OMB, Congress, and the public is important to gaining support for recommended programs.
- (d) **Programs Developed by Army**. Based on HQUSACE recommendations, OASA(CW) will develop a "ceiling program," based on Presidential policy, by adding the highest-return business line increments nationwide to HQUSACE's initial program. Additional increments will be added to develop an above-ceiling "recommended" program.

9. Cost Estimates.

a. **Economic Assumptions.** As explained above, the Administration's economic assumptions address inflation and adjustments through PY-1. Table 1 provides cost estimate updating rates based on these assumptions, extrapolated through PY+19. These rates may be extended beyond PY+19 using the procedures described in Footnote 16 of the table. They are used, as explained below, to update all study and project cost estimates.

- b. **Updating.** As shown in Table 1, all costs of Corps work are grouped into just two "classes" Class 1 and Class 2. Class 1 includes only costs of Corps civilian permanent workers. Class 2 includes all other costs, including costs of Corps civilian temporary workers. Each class has its own set of rates for cost estimate updating. Nevertheless, each set is used in the very same way through execution of the "algorithm" described in the table. The two cost classes and their rates are discussed next.
- (1) **Corps Civilian Permanent Worker Cost.** The Class 1 rates in Table 1 are applicable to the PY-1 pay raise base. They derive from "updating factors" incorporating effects of then-year pay raises and a changing pay raise base. The pay raises reflect standard nationwide pay raises and locality pay increments. The breakdown between the two is based on local pay gaps and must be determined each year. Use these rates to update Corps civilian permanent worker cost estimates for all programmed work of all studies, projects, and activities.
- (2) Corps Civilian Temporary and NonCorps Worker and Nonpay Cost. The Class 2 rates of Table 1 are applicable to the PY-1 base of all costs other than those for Corps civilian permanent workers, ranging from costs of Corps civilian temporary workers, and consultants and Architect Engineers used in the various preconstruction planning and construction stages of work, to real estate costs. They derive from "updating factors" reflecting standard nationwide inflation. Use these rates to update Corps civilian temporary and nonCorps worker and nonpay cost estimates for all programmed work of all studies, projects, and activities.
- (c) Micro-computer Assisted Cost Estimating System (M-CACES). A complete and reliable Micro-computer Assisted Cost Estimating System (M-CACES) baseline cost estimate and realistic workflow and funding schedule are essential to preparing a 5 to 10-year program. Projections of work and funding requirements will be consistent with the President's PY-1 budget, as modified by any Congressional action in the meantime. However, the funding schedules should be reviewed and adjusted continuously to reflect the sponsor's financial capability and project progress.

10. Project Economics.

a. **Discount Rates.** A discount rate of 4 7/8% will be used to determine the "current" economics of any project. For projects funded for construction, the "applicable" rate is the one in effect when construction funds were first appropriated. For projects never funded for construction, the applicable rate is the "current" rate, unless the project qualifies for the 3 1/4% rate under the "grandfather" clause in Section 80 of the Water Resource Development Act of 1974, PL 93-251. Even if "grandfathered" for budgetary purposes the actual current rate should be also used and results shown. In addition, as noted in paragraph 9 below, costs and benefits, and remaining costs and benefits should be computed and displayed at a 7 percent discount rate.

b. Evaluation.

- (1) **Benefit/Cost Ratios.** As required, in support of funding requests, benefit-cost ratios will be evaluated based on the benefits in the latest approved official document, such as Feasibility Report, Chief of Engineers Report, Limited or General Reevaluation Report (LRR or GRR), Engineering Documentation Report (EDR), or other report. In computing BCRs, deflate the current project costs to the price levels of such benefits. Exceptions to this "deflation of cost method" may be granted when a new economic update is performed and approved at the appropriate level (usually MSC level). If date of last approved report is more than 3 years old, then will required economic update and approved by MSCs'.
- (2) New Construction Projects. For any project or element proposed as a new construction, the fiscal year of the approval date of the latest economic analysis must not precede the fiscal year of the MSC program submission by more than 3 years. For example, for any new construction project or element in your initial submission, the approval date of the document containing the most recent economic analysis can be no earlier than 1 October CCY-4 the first day of PY-5. This point in time precedes the start of the fiscal year in which you are making your submission by 3 years. If the fiscal year of the approval date is more than 3 years ago, you must perform a reevaluation to show that the project remains justified. Such reevaluation will be the first item of work upon receipt of funds and will be documented in an LRR to be submitted in support of any request for follow-on funding. The reevaluation will involve no major new analysis. It will be limited to reviewing and updating previous assumptions and limited surveying, sampling, and application of other techniques to develop a reasonable estimate of project benefits. If the limited reevaluation uncovers major changes that could affect project formulation or sizing, then additional PED rather than construction funds must be requested to undertake a complete GRR.
- (3) Continuing Construction Projects. This data will be used in formulation of the President's PY Budget. For continuing construction projects, the fiscal year of the approval date of the latest economic analysis must not precede the fiscal year of the MSC program submission by more than 3 years. For example, for any continuing construction project recommended in your July submission, the approval date of the document containing the most recent economic analysis can be no earlier than 1 October CCY-4 - the first day of PY-5. This point in time precedes the start of the fiscal year in which you are making your submission by 3 years. If the fiscal year of the approval date is more than 3 years ago, you must perform an economic update to show that BCR and RBRCR criteria used for performance based budgeting is current. The economic update will involve no major new analysis. It will be limited to reviewing and updating previous assumptions and limited surveying, sampling, and application of other techniques to develop a reasonable estimate of project benefits. For any continuing construction project, in order to assure currency of economic analysis, the fiscal year of the date of the latest approved economic analysis, or update, must not precede the fiscal year of the MSC submission by more than 3 years. Economic updates should be performed in accordance with the update plan in the feasibility report and/or the Project Management Plan, MSCs may approve them.

- (4) **Approval of Post-authorization Documents.** MSCs have approval authority for post-authorization documents that are certified as being in accordance with law and policy for projects not requiring a Washington-level decision or additional congressional authorization. Decision documents for projects not in accordance with policy or those requiring action by the Chief or ASA(CW), or requiring additional congressional authorization, must be submitted to headquarters, U. S. Army Corps of Engineers (HQUSACE).
- 11. **Report to Congress of Benefit/Cost Ratios.** Executive Order 12893, "Principles for Federal Infrastructure Investment," requires that benefits, costs, and benefit-cost ratios for new infrastructure investments of all federal agencies be evaluated at a discount rate of 7% to facilitate comparison and decisionmaking. This rate approximates the average real pretax return to capital in the private sector. The total benefit/cost ratios (BCR) and remaining benefit / remaining cost ratios (RBRCs) for all continuing and new construction projects, each based on a 7% discount rate, will be input into P2. A list of these projects and ratios will be reported to Congress as part of the PY budget request. More specifics on computing RBRCs are included in Annex B, Construction.
- 12. **Manpower.** No manpower data is required by this EC. CERM-M will use current resourcing standards of reference 3.e.(2), "USACE Manpower Corps of Engineers Manpower Requirements Systems," and PY-2 through PY+3 workload to develop PY manpower requirements by appropriation account for the OMB program submission. In early CCY+1, once the President's Program has been resolved for PY, then manpower data compatible with the program will be input in accordance with the then current EC (to be published in January of CCY+1).

13. Submissions.

- a. **Summary.** MSC's role is for quality assurance, to verify consistency and adhere to guidance in this document. Required MSC submissions, recipients, means of input, numbers of copies, and due dates are discussed at length in the appendices and summarized in Table 2. Due dates are designed to manage the budget development workload. They must be met.
- b. **Input Instructions.** Input instructions are provided by various means, including, in addition to this EC, User's Manuals, system websites, and e-mail messages.
- c. **Databases.** Data is input to databases of up to four automated information systems. These include P2, Information Technology Investment Portfolio System (ITIPS), Recreation Budget Evaluation System (Rec-BEST) and Environmental-Stewardship Budget Evaluation System (E-S BEST). These databases are open; they will close on the various dates shown in Table 2.

(1) **P2.**

- (a) Instructions. In addition to the guidance below, detailed documentation and instructions concerning use of P2 for submission of the FY09 program can be found in a document named "CW Program Budget Submission (PBS) Functional Design". This document can be obtained from a link on the P2 OFA-CW opening screen or directly from https://p2ofa.usace.army.mil/oew-install/doc/PBS%20Functional%20Design.doc. Note that the dates shown in the "Data Sources and Process Flow" section of the PBS Functional Design document are notional dates. Refer to Table 2 in this EC for a summary of official due dates. Additional instructions concerning use of all P2 tools are available on the PMBP Portal at https://pmbp.usace.army.mil. In particular, refer to the document named "Using Primavera Project Manager to Develop O&M Project Budget Estimates for the Corps of Engineers FY2009 Civil Works Program" which is available on the PMBP portal.
- (b) General Provisions. P2 will be used by all MSC/Districts for I, C, O&M, MR&T, FUSRAP, and RG program submissions. "Remaining Items" in these accounts will be handled separately by HQUSACE. Refer to the "Data Sources and Process Flow" section of the PBS Functional Design document for a detailed discussion of the process flow. In summary, the concept is as follows: MSC/Districts will use P2 Primavera Project Manager (PM) to schedule their projects and identify unconstrained (capability level) resource requirements. Every night during the budget submission timeframe, selected data fields in PM will be automatically loaded into the PBS module of P2 Oracle Financial Analyzer (OFA) at a defined level of detail. The MSC/District will then use OFA to enter performance indicators, budget request amounts, and District and MSC rankings within each business line for all budget items across appropriation accounts. Upon completion of the submission by MSC/Districts, the P2 data in OFA will be utilized by each HQUSACE business line manager for development of the nationwide program. HQUSACE business line managers may work directly in OFA or may use Excel extracts of OFA data. Excel extracts revised by HQUSACE business line managers will be periodically uploaded back into OFA by HQUSACE.
- (c) **P2 Primavera Project Manager (PM).** The current unconstrained (capability-level) project schedule, activities, and resource requirements identified in PM for the PY should provide the starting point upon which the budget submission is built in OFA. The PM data will also be used to provide additional details to a business line, account, or program manager who wants to see what specifically is included in an aggregated OFA budget item. After the President's Budget is finalized, HQUSACE will provide additional guidance requesting that PM be updated to reflect the President's Budget. That updated PM data will then provide the basis for extraction of manpower and workload requirements into the Corps of Engineers Manpower Requirements System (CEMRS) OFA adjustment cube. Outyear schedule and resource data in PM on projects in the Construction phase will be queried as needed to provide information formerly obtained from the PB2a report. Thus it is necessary to schedule and resource budgeted Construction projects in PM through project completion. For instructions concerning PM data entry, refer to the PBS Functional Design document sections entitled "Data Quality Considerations/User Action

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Checklist" and "PBS Business Process Procedures (Update PY Schedules in Project Management)".

- (d) Recreation and Environmental Stewardship. Budget packages and performance measure data for Recreation and the Environmental Stewardship part of the EN program will be updated and submitted through use of Rec-BEST and E-S BEST, respectively. The performance measure information must be updated in the BEST programs by 1 June. This performance data will be extracted from Rec-BEST and E-S BEST and then merged into OFA along with budget data extracted from PM. In the case where budget information has not been entered into PM, both budget and performance information will be extracted from the BEST programs and uploaded into OFA. When entering budget information into PM, make sure the corresponding BEST ID's are entered for all resourced activities to ensure that the proper performance measures can be matched in OFA. In OFA the Budget Item ID data field will contain the BEST ID. For most projects, the preliminary budget information and the matching BEST ID's can be carried over from last year's data entry in PM or can be taken from the existing Rec-BEST and E-S BEST database. The information needed for P2 data entry is available on the P2 summary page in the BEST programs. Extracts of Rec-BEST and E-S BEST will be loaded into OFA by June 4th, to allow districts and MSCs to review and evaluate their budgets comprehensively, across business lines. Additional and earlier OFA uploads from the BEST programs will be done on district or MSC request to the BEST technical team at ERDC. As the budget review continues, necessary changes to budget data and performance measures will be coordinated and made in Rec-BEST and E-S BEST, with subsequent uploads to OFA as necessary.
- (e) **Business Line.** P2 provides a project level code to identify the project's primary business line. This code may be over-ridden in PM at the activity level for specific activities which differ from the project's overall primary business line. Several Business Line choices available in P2's list of values are not applicable for this budget submission, including "OTH" Other, "SOTH" Support for Others, "EM" Emergency Management, and "RE" Real Estate. The business line choice "ENV" Environment should not be used. Instead, use "ENV-Ecosystem", ENV-Steward", or "ENV-FUSRAP". The "JOINT" business line should not be used for a project's primary business line classification, but may be used as the business line over-ride activity code on applicable activities in PM.
- (f) Increments. An activity code named "CW FY09 Funding Increment" will be used in PM to categorize a discrete amount of work identified by an activity or a set of activities. The valid values for this data element are defined in the Definitions/Glossary section of this EC. If the activity code is blank, the corresponding data will be placed in a CW Funding Increment called "Unassigned" in OFA. Budget items with an "Unassigned" increment will not be considered for funding in FY09.
- (g) **Phase Code**. An activity code named "CW FY09 Phase" will be used in PM to categorize each resourced activity. The valid values for this data element are identified in Table 3 of the EC. If the activity code is blank, the corresponding data will be placed in a CW Phase

called "Unassigned" in OFA. Budget items with an "Unassigned" CW Phase will not be considered for funding in FY09. O&M multipurpose hydropower projects (CW Type of Funds 96 3123 300) which are assigned a Phase code of "OJ" (Operation Joint Activities) or "MJ" (Maintenance Joint Activities) will appear in OFA under the Hydropower business line.

- (h) **CW Type of Funds.** Every resourced activity in PM needs to have a valid Type of Funds (Approp Dept / Approp Symbol / Category-Class-Subclass (CCS)) code assigned at either the WBS or activity (override) levels for interfacing to CEFMS and proper OFA functionality and reporting. Do not assign a CW Type of Funds value which only identifies the Appropriation Dept and Symbol, but only choose values which include the CCS as well.
- (i) **OFA Performance Measure Data Entry Forms.** The PBS module of OFA provides Performance Measure data entry forms which allow for submission of budget data. There is a separate data entry form for each business line. The data requirements for each business line are detailed in the business line appendices. For each budget item (row) in OFA, the PY Federal Corps (and PY Inland Waterway Trust Fund, if applicable) funding request amount will need to be entered, along with performance indicators applicable to the business line, as well as the MSC rank for the budget item. MSC ranking is required only within each business line, and not across business lines. Each budget item within the business line should receive a unique rank. For detailed documentation and instructions on the use of these forms, refer to the "Update PY Budget and Enter Performance Measures in OFA" and "OFA Nightly Update Process" sections in the PBS Functional Design document. Note that budget items brought into OFA from PM may be revised as needed, including deletion and insertion of budget items. These revisions may be accomplished directly within OFA or by pasting from Excel into the OFA data entry forms. Data entered in OFA will not be overwritten by the nightly PM-to-OFA nightly load process.
- (j) Level of Detail and Budget-Item-ID. Each record (or row) of budget and performance measure data in the OFA data entry forms will be detailed by seven key fields Business Line, EROC, Type of Funds, P2 Project, Funding Increment, Phase, and Budget Item ID. The Budget Item ID field is used to break-out budget items to an appropriate level of detail. Refer to the business line appendices to determine at what level of detail to enter the individual budget items for each project and study. By default, the PM-to-OFA nightly load process derives Budget Item ID's based on the following business rules:
 - For all resourced activities that represent Construction Service contracts (CONSTSVCS), that are not related to the Recreation and Environmental Stewardship business lines, the Budget Item ID will represent the Activity Number.
 - For all resourced activities related to the Hydropower, Regulatory and Water Supply business lines, the Budget Item ID will represent the Activity Number.

- For all resourced activities related to the Recreation and Environmental Stewardship business lines, the Budget Item Id will represent the BEST ID activity code value concatenated with the Work Category Code (WCC).
- In all other cases, the Budget Item ID will be named "NCS" (Non-Construction Services). In OFA, these budget items should be manually adjusted to ensure that E&D and S&A costs are included on the applicable contract budget items rather than on the consolidated "NCS" budget item.
- (k) The sum of all PY requested amounts in OFA for all budget items within a project should represent the project's obligation capability.
- (l) Activity Rankings. Each activity in PM may have a rank number assigned to it, and duplicate ranks are allowed. Activity rankings will be used to determine the relative priority of activities within a project, district, and MSC. However, the MSC rank that is added in OFA will be the primary ordering rank used within the budget. Therefore, the activity ranks in PM are optional and will not transfer into OFA.
- (m) **Joint Activities.** Refer to paragraph C-2.3.b in Annex C for instructions concerning "JOINT" activities.
- (n) Program Codes. The Program Code identifies the AMSCO/CWIS/PWI associated with a P2 project. A Program Code should be assigned to every CW P2 project for which funds are requested. This is especially important in the case where multiple P2 projects have been created which are all associated with a single CWIS in the Corps budget submission to OMB and Congress. A P2 Program Code will need to be entered on each of those P2 projects so that they can be linked together for budget submission purposes. Separable elements are an example of this situation. Normally, the AMSCO number will be used as the Program Code value. The Program Code is a project level code which is entered in Oracle Projects (OP). By default, the Program Budget Submission (PBS) portion of OFA will auto-populate the field (if it's blank) with the Program Code classification that is assigned to the P2 Project in OP. Users have the ability to override that field with a valid Program Code if there's not one assigned in OP. It is strongly recommended, though, that users assign the code in OP so it can be utilized for other OFA reporting purposes (2101's, CWAS, etc).
- (o) **Outyear Funding Streams**. OFA also provides a data entry form named "PBS Grunt Sheet/5YDP DEF" which is used to enter outyear funding streams by Project, Business Line, Type of Funds, Work/Financial Category (Federal, Inland Waterway Trust Fund (IWTF), Non-Fed Cash, Non-Fed In-kind, etc.), and Funding Level for all I, C, O&M, MR&T, and FUSRAP studies and projects. Initially, the following Funding Levels are required: Initial, Recommended-1, Recommended-2, and Capability.

Refer to the "Prepare Grunt Sheets/5 Year Development Plan in OFA" section of the PBS Functional Design document for detailed instructions on using the data entry form. Until HQ or Army Ranks are established the PY and outyear funding requirements will be manually entered in the PBS Grunt Sheet/5YDP data entry form. Later on in the cycle, the PY amounts may be auto-populated based on HQ Rank or Army Rank. The focus of the outyear data submission is to obtain the PY through PY+4 funding stream, but the project's total funding requirement through Balance-to-Complete should be filled in so that the sum of all amounts equals the current fully-funded total project cost estimate. The data entry form also provides data fields for entering specified milestone dates. Further guidance will be provided by HQUSACE in the future concerning use of these milestone data fields.

- (2) **ITIPS.** Instructions for input to the ITIPS database were provided by CECI-TR in the latest ITIPS User's Manual, accessible at http://www.usace.army.mil/itips. These instructions cover input of automation requirements, discussed in Annex F. This database remains open; but input is required by the date shown under "Automation Program" in Table 2.
- (3) **Rec-BEST.** A web-based tool has been developed for field use in calculating Recreation performance measures for O&M activities. Rec-BEST **MUST** be used to develop performance measures for recreation O&M budget packages for FY 09. Rec-BEST may be accessed at http://corpslakes.usace.army.mil/employees/recbest/recbest.html along with directions for its use. See Appendix VI for further information concerning Rec-BEST.
- (4) **E-S BEST.** A web-based tool has been developed for field use in calculating Environmental Stewardship performance measures for O&M activities. E-S BEST MUST be used to rank FY 09 Environmental Stewardship O&M and MR&T budget packages. E-S BEST may be accessed at http://corpslakes.usace.army.mil/employees/esbest.html. See Appendix II for further information concerning E-S BEST.
 - d. E-mail and FTP Data.
- (1) The Enacted Fact Sheets will be used to provide a detailed analysis of activities and projects funded in the current year but for which no funds are requested in the budget. Refer to Table 2 for schedule.
- (a) **General**. Complete your updates of illustrations 1 (Enacted Fact Sheets), A-2.1 through A-2.4, B-2.4, C-2.1, C-2.5a through C-2.5c, C-3.1, C-3.2 by dates specified in Table 2.
- (b) Use 10-point regular Arial font, automatic line height, line spacing of 1, and margins of 1" top and bottom, and 0.5" both sides. (In "File," "Page Setup," "Margins," set bottom margin at 1.5" and footer margin at 1.0" from bottom edge of page. This provides a 0.5" footer height for printing the footer and page number.) Do not number pages.
 - (c) Develop project completion schedules consistent with the President's budget funding

amounts. The PM data will be queried to obtain schedules for the report formerly provided by the PB-2As. These schedules will be provided to the Appropriations Committees for the record. Do not show future advanced appropriations in the summarized financial data on your justification sheets. Prepare the summarized financial data in accordance with the examples in Illustration B-2.4 of Annex B.

- (d) Submit justification statements, as completed, via e-mail to your RIT, as appropriate, for review. Coordinate e-mailing logistics with your RIT, beforehand.
- (e) Justification Materials for Studies, PED, and Construction Projects Submission. <u>Draft justification materials are to be provided for all studies, PEDs, projects that were not in PY-1 (FY 08) budget and are proposed for inclusion in the Army's recommendations to OMB.</u> See Table 2 for the due date for these draft materials. Justification materials for new work are due earlier than justification material for other work.
- (f) **Revised Submission.** Between the times of the initial and Congressional submissions, revised submissions may be required for various reasons, including changes in funding for PY-1 effected by appropriations. Submit these as specifically requested.
- (g) Congressional Submission. The ultimate products of the justification development process are two volumes of justification books for Congress one volume of justification material for each business line and one volume for enacted projects. Each division is responsible for developing its own data using whatever software it chooses, such as computer-aided design (CAD), and Microsoft Word and Excel software. However, ultimately, each division must convert its book to an Adobe Acrobat 7.0 file for efficient electronic transmission and publication. In order to ensure that your book will "present" in the Adobe Acrobat file as it does in the development software file, you must select the Adobe Acrobat printer in the development software before finalizing your product in that software. For example, to ensure that what you see in Word is what you get in Adobe Acrobat, you must select "File," "Print," "Printer," "Acrobat PDFWriter" in Word before finalizing in Word. Doing this first of all will spare you untold lost time and frustration. Of course, if you want to print your finalized file at a local printer, simply select the printer and print, but do not modify the file while the local printer is selected.
- (h) Prepare a table of contents list studies and projects alphabetically by Business Line by Account. Do not include page numbers. Page numbers will be included at Headquarters during book assembly. On each page of the document and maps, show the date of Army's press conference (to be provided later) centered in the bottom margin, 1" from its bottom edge.

 Preparation of status maps format and instructions are referenced in ER -11-2-240, Appendix C (Project Status Maps). Maps format must be in accordance with the regulation.
- (i) Justification documents for Replacement projects are required for C projects, including justification statements and status maps. Justification documents for Rehabilitation are required

for O&M. For rehabilitation of inland waterways locks and dams and associated structures, show half of funding from the Inland Waterway Trust Fund.

(j) For other O&M projects, show funding for "operations" and "maintenance" work separately. Copy PY funding for these parts from guidance to be provided later, ensuring that the total of amounts copied matches your division's total. Update individual project amounts to reflect your latest projection of PY-1 obligations. Round all funding amounts to the nearest \$K. Add the following statement (less quotation marks) after the introductory paragraph for each category, as applicable:

"For recreation areas, part of the requested amount will be offset by a transfer from the Special Recreation Use Fees Special Fund (SRUF)"

(k) Include rehabilitation requirements for projects as part of single line item entries on the justification of estimate statements with the following remark (less quotation marks) under "Reason for Change and Major Maintenance Items:"

"Includes Rehabilitation at \$XXX. See justification following this table."

- (l) Identify States for each of the following items: Scheduling Reservoir Operations, Inspection of Completed Works, Project Condition Surveys, and Surveillance of Northern Boundary Waters. Refer to Annex C.
- (m) Submit these as specifically requested later. Submit final versions, printed front to back and collated into a single book (with a cover like last year's, including the disclosure statement, and paginated and dated table of contents, budget summary, and status maps, as applicable) in a single Adobe Acrobat 7.0 file.
- (2) **Other.** The Continuing Authority Program is now assigned to Annex G. The Homeland Security/ Emergency Management Business Line Manager (BLM) will provide instructions to cover FC&CE activities of former Annex D, requiring input by e-mail or FTP directly to that office by dates specified in Table 2.
- e. **Hardcopy Data.** Provide hardcopy items required (e. g., certifications, etc.) by dates specified in Table 2.
- f. **Document Marking.** All submissions required by this EC are not to be released outside the Department of the Army. See reference 3.e.(10), ER 11-2-240, "Civil Works Activities Construction & Design,", for instructions regarding the marking of documents for restricted distribution.
- 14. **Balance-to-Complete Report.** Districts will utilize the OFA "PBS Grunt Sheet/5YDP DEF" data entry form to ensure that the funding required beyond the PY to complete all active,

inactive, and deferred PED and construction projects is accurately entered by the date shown under "Main Part" in Table 2. Records for active status PED and construction projects must include total estimated federal costs. (PED balances-to-complete must include the federal costs of PED plus construction.) Give special attention to active status PED and construction projects, as they are the subject of periodic Congressional questions on project balances-to-complete.

- 15. Certifications of Compliance. You must submit, to CECW-ID, at least two, and possibly four, certifications that your program submission complies with laws and an Executive Order. The two certifications always required include one by district commanders regarding compliance with an Executive Order on data sharing, and one by the MSC directors of programs management regarding compliance with law on use of management controls. The other two possibly required are both by district commanders both regarding compliance with coastal barrier laws. Each certification is discussed below.
- a. Executive Order on Geospatial Data. Reference 3.e.(10), ER 1110-1-8156, "Policies, Guidance, and Requirements for Geospatial Data and Systems," and EM 1110-1-2909, "Geospatial Data and Systems," assist USACE in protecting its investment in geospatial data and systems and in complying with Executive Order 12906, "Coordinating Geographic Data Acquisition and Access The National Spatial Data Infrastructure." USACE collects a variety of geospatial data to produce products such as river and harbor maps, charts, and drawings; real estate maps; environmental and economic studies; and engineering studies and drawings. Paragraph 7.g(4) of the ER explains that, beginning with the FY97 Civil Works program cycle, each district commander will submit a certification, modeled after Illustration 2, certifying that his command has documented new geospatial data that it has created and made this documentation (metadata) available via the National Geospatial Data Clearinghouse on the Internet. The certification is due by the date shown under "Main Part" in Table 2.
- b. Coastal Barrier Laws. OMB's Circular A-11, Section 12.5(s) states that estimates must not include any new federal expenditures or financial assistance prohibited by the "Coastal Barrier Resources Act" (CBRA), PL 97-348. In addition, the "Coastal Barrier Improvement Act of 1990," PL 101-591, amending CBRA, requires that the Corps certify annually to Congress and the Secretary of Interior that it was in compliance with the provisions of CBRA, as amended, during the previous fiscal year. Therefore, each District Commander whose district includes areas covered by the Coastal Barrier Resources System will submit two certifications one modeled after each Illustration 3A and 3B certifying, respectively, that his program request is in compliance with these laws and that no funds were obligated in the past fiscal year (PY-2) for purposes prohibited by them. Note that PL 101-591 added new units to the Coastal Barrier Resources System. The certifications are due by dates shown under Main Part in Table 2.
- c. Management Control Law. Federal agencies are required by law to establish "management controls" for the activities they manage, and to provide assessments of their effectiveness to the President and Congress, annually. To this end, functional proponents identify requirements for compliance with law, including safeguarding assets, ensuring adequate

records, and promoting efficiency and effectiveness of program accomplishment, and reflect them in checklists. Army's management control effort, implemented by AR 11-2, "Management Control," specifically includes the Civil Works Program. The new management control checklist for Civil Works Program Development is provided as Illustration 4. This is for use by programs management organizations in MSCs and districts, as explained below:

- (1) Use the checklist during development of your program submission. District commands will use it first; then MSCs, when reviewing and modifying district submissions.
- (2) A "no" response to a checklist question suggests a potential management weakness. However, if it is the result of a special case or specific exception, then probably there is no management weakness. You are the judge. If you determine that a weakness exists, you must correct it as quickly as resources and essential mission priorities permit. No upward reporting is required.
- (3) If a management weakness requires the attention or awareness of the next higher level of management, it is a "material weakness." This is a judgment call on the relative seriousness of the problem. It is made at each progressive echelon, based on each manager's professional judgment. Material weaknesses discovered by districts are reported to the MSCs, which determine whether to report them to CECW-BD. The reports must specify corrective actions taken or planned. The highest echelon receiving the report will evaluate the corrective actions, provide assistance, if needed, and track progress. Consult AR 11-2 for help in determining whether a weakness is "material."
- (4) Do not send checklists to HQUSACE. Each MSC director of programs management will submit a certification, modeled after Illustration 5, certifying that the checklist was used by the districts, as applicable, and MSC. The certification is due by the date shown in Table 2, and should be submitted to CECW-IN.
- 16. Coordination. The CECW staff will work closely with MSC office staffs throughout the program development process to assure that the CECW recommended program, as well as alternative programs, are thoroughly coordinated. Coordination will continue after receipt of OMB's passback and during development of Army's proposed appeal. The 5 to 10-year program will be revised, as necessary, to reflect resolution of the passback appeal and final President's Program.

FOR THE COMMANDER:

8 Appendices (See Table of Contents)

7 Annexes (See Table of Contents)

Major General U.S. Army Directorate of Civil Works

DEFINITIONS/GLOSSARY SECTION

INCREMENTS:

Work Increment: A work increment is a discrete amount of work identified by an activity or a set of activities with specific resource requirements and a schedule.

Activity: A component of work performed during the course of a project. An activity could be a process (e.g. collection of data) or lead to a deliverable (write a report). Activities are the building blocks of the P2 system – they have assigned durations, resources, and relationships.

<u>Investigation Increments (for studies, and pre-construction engineering and design of specifically authorized and MR&T investigations):</u>

Increment 1: This increment will include only the minimum continuing and new study activities and the total request is limited to the budget amount for PY-1, by study. Do not include new PED or study phases. If a study is ready for changing phases or is no longer likely to produce a high performing project, then the Increment 1 level for that study will be zero. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: New phases of studies previously budgeted may be initiated in this increment. Studies that do not have an Increment 1 may reflect the study activities in Increment 2. Studies that have a high probability of recommending a project with high value output may include additional activities in this increment that will provide improvement to the study completion compared to the items submitted in increment 1. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment will include the activities needed to sustain (not fall behind/not accelerate) the study schedule included in the PMP. New starts and resumptions may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 4: This increment includes additional capability activities that can be supported by cost sharing sponsor and Corps resources. This increment can be viewed as enhancing (or advancing) the study schedule at a faster pace than shown in the PMP. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increments 5-8: Not used.

Increment 9: Place unbudgetable studies.

Construction Increments. All contracts will be fully funded if the estimated contract total (total of both federal and non-federal shares) is \$20M or less. For all contracts that are proposed for full funding, the total estimated amount for EDC and S&A will be included with the contract. Each contract included in any increment must be shown separately to allow individual funding decisions based on the performance metrics and must be shown in priority order by District and MSC Rank. This section includes: specifically authorized projects, MR&T construction, dam safety projects, deficiency corrections projects and dam safety, seepage, static instability studies.

Increment 1: This increment will include only the minimum project activities budgeted in, and continuing from, PY-1. Only true continuing contract needs, and the Engineering and Design during Construction (EDC) and Supervision and Administration (S&A) of contracts fully funded in PY-1 and before may be included in this increment. Do not include any continuing incrementally funded contract requirements. Do not include new contracts, options, or funding for the engineering and design activities for new contracts. Only mandatory real estate activities for required project lands, easements and right-of-ways may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: This increment will include continuing incrementally funded contract requirements for ongoing projects, new contracts, engineering and design for future contracts or other activities (show each separately), and EDC and S&A for new contracts awarded in PY. Real estate activities for required project lands, easements and right-of-ways may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment will include activities and contracts needed to sustain (not fall behind but not accelerate) the efficient project schedule based on the PMP. This increment may include projects that do not qualify for increment 2, and may include continuing incrementally funded contract requirements, new contracts, engineering and design for future contracts or other activities (show each significant activity separately), and EDC and S&A for new contracts awarded in PY. Real estate activities for required project lands, easements and right-of-ways may be included. New starts and resumptions may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 4: This increment will include additional capability activities that can be supported by the cost sharing sponsor and Corps resources and will advance the project schedule at a faster pace than shown in the PMP. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increments 5-6: Not used.

Increment 7: This increment will identify nine projects which have ecosystem restoration outputs but may be budgeted in Operations and Maintenance with costs assigned to other

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business lines or as joint project costs. Only the ecosystem restoration portions of Assateague, Lower Cape May and Houston-Galveston are included in this category.

(NAD - Assateague, Popular Island, Lower Cape May; NWD - Columbia River Fish Mitigation Temperature Control, Chief Joseph Gas Abatement, Howard Hanson Dam Ecosystem Restoration, Willamette Temperature Control, Missouri River Fish and Wildlife Recovery; SWD – Houston-Galveston Navigation Channels).

Increment 8: This increment will include projects that are consistent with Administration policy but are unbudgetable due to the decision document not yet being cleared by the Administration.

Increment 9: This increment will include unbudgetable projects that are inconsistent with Administration policy, such as environmental infrastructure. Also, the Federal funds for shore protection projects that require beach renourishment (not associated with Federal navigation projects) should be identified and included in this increment.

Continuing Authority Program Increments:

Increment 1: This increment includes: continuing or new items for phases that were budgeted in PY-1; Excluded are: new phases and items requiring initiation of new phases; items for projects that have been terminated, completed, funded for completion, or which are no longer likely to produce an eligible project; and unbudgetable activities. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: This increment includes: items for previously funded phases; Excluded are: new phases and items requiring initiation of new phases and unbudgetable items. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment include item for continuing or new phases to sustain the efficient PMP project schedule. Excluded are items which advance the efficient project schedule and unbudgetable activities. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increments 4-8: This increment includes additional capability for continuing or new phases to enhance or advance the PMP project schedule. Excluded are unbudgetable activities. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 9: This increment includes unbudgetable activities. Excluded are budgetable activities. Remarks should provide a clear explanation of why the item is not budgetable. Operation and Maintenance Increments (includes O&M General and MR&T O&M):

The philosophy is to use increment 1 as the minimum level to account for critical routine operation and maintenance activities and to use increment 2 to account for critical non-routine activities on projects. The total of Increment 1 plus Increment 2 represents the minimal program and is limited to 75% of the amount in **Table C 2.2** by MSC.

New starts are not applicable to the O&M Program.

Increment 1: Only <u>critical routine</u> activities can be included in this increment. Cyclical routine activities may be included in Increment 1. Routine activities are those that have been conducted every year for at least the last five years, for example the operation of a powerhouse or are required to meet legal mandates, environmental (ESA/Biological Opinion) requirements, authorized mitigation requirements, and historic preservation. Cyclic activities are those that are required on a regular basis, but not each year. An example of a cyclic routine activity would be projects where dredging is needed on a regular recurring basis, but not every year, e.g. dredging is needed only every two years. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: Only <u>critical non-routine</u> activities may be included in this increment. Critical non-routine activities are those that must be accomplished to insure project safety, and critical maintenance actions that are required to keep the project operating and delivering benefits. Non-routine activities are actions that are "project like" in that they are a unique action with a specific beginning and end. Examples of non-routine actions would be the replacement of a potable water well, or paving a project access road. This increment includes major maintenance and rehabilitation. Each non-routine activity must be shown separately to allow individual funding decisions based on the performance metrics and must be shown in priority order by District and MSC Rank. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment includes operation and maintenance activities, both routine and non-routine, above the minimal, that are defined by the state of the practice and are needed to sustain the expected future benefits of the project. In most cases, activities in this increment will support continuing the level of service that customers, stakeholders, and others have come to expect and depend-on for sustaining public safety and economic, environmental and social benefits. Preparation of reports for Major maintenance (MM) and rehabilitation (MR), should be included in this increment. MM and MR activities must have approved reports before they can be included for implementation. Multiple Increment 3 activities should be submitted that reflect the logical pieces of routine or non-routine activities beyond the 5 year average limit. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 4: Activities that have a high expected return on investment that enable greater levels of performance in future years should be included in this enhanced or capability Increment. Increment must be performance based and integral with a study/project with high

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outputs and consistent with ranking.

FUSRAP Increments:

Investigations/Study Increments:

Increment 1: This increment will include only the minimum continuing study activities, which include all CERCLA study processes. The total request is limited to the budget amount for PY-1, by study. Do not include new studies. Increment must be performance based with high outputs and consistent with ranking. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: This increment will include the activities needed to sustain (not fall behind/not accelerate) the study schedule included in the PMP. The total of the activities included in this level is not limited by the PY-1 budget. New starts may not be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment includes additional capability activities that can be supported by Corps resources. This increment can be viewed as enhancing the project schedule. Increment must be performance based with high outputs and consistent with ranking. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 4: Place new start studies in Increment 4, for example a new Site Inspection at a new site. Increment must be performance based with high outputs and consistent with ranking. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increments 5 - 8: Not used.

Increment 9: Place unbudgetable studies for potential sites in Increment 9.

Implementation (Construction) phase Increments

Increment 1: This increment will include only the minimum implementation processes continuing from PY-1 and is limited to no more than the budget amount for PY-1, by project. Engineering and Design during Construction (EDC) and Supervision and Administration (S&A), of contracts fully funded in PY-1 and before may be included in this increment. Real estate activities for required project lands, easements and right-of-ways may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 2: This increment will include the activities needed to sustain (not fall behind/not accelerate) the efficient project schedule based on the PMP. The total of the activities included in this level is not limited by the PY-1 budget. Multiple contracts should be submitted as separate increment requests and shown in priority order by District and MSC Rank. New starts may not be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 3: This increment includes additional capability activities that can be supported by Corps resources. This increment can be viewed as enhancing the project schedule. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increment 4: Place new start projects with decision documents (such as, a signed ROD) cleared by the HQUSACE in Increment 4. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

Increments 5-9: Not used.

CONTRACTS

Continuing Contracts: The Corps cannot plan to use true continuing contracts (EFARS Part 52.232-5001). When conditions warrant, the Corps' use of the special continuing contracts clause (AFARS Part 5152.232-9000) must be done carefully and judiciously to ensure that there is a studied, deliberate, and credible plan to limit the contractor to the amount available for the project or activity in FY2007, and to pay for the future year(s) continuing contract obligations. Contracts funded under the C Account of less than \$10 million should be fully funded. Contracts over \$10 million should use the special continuing contract clause only if there is a sound business case for use of the special continuing contract requires advanced approval of the ASA(CW). Use of the special continuing contract clause for contracts funded under the O&M Account requires advanced approval of the MSC Commander only if there is a sound business case for use of the special continuing contract clause.

Incremental Contracts: The use of incremental contracts (i.e., contracts using the incrementally funded clause (AFARS Part 5152.232-9001), fully funded base bid plus options, etc.) must be done carefully and judiciously. The incremental funding clause shall be used for projects that do not have funding in the budget for the out years. The incremental contract scope of work to be funded with FY2007 funds must be a useful increment of work (increment of work that produces benefits or outputs, and will remain in a safe condition) or navigation reach that will not rely upon additional out year funding to implement. If an incremental contract does not set an expectation of continued federal funding beyond the current fiscal year, the contract can be approved by the District Commander. However, the use of all incremental contracts that set an expectation of continued federal funding beyond the current fiscal year requires the advance approval of the ASA(CW).

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Major Maintenance: Any Operation and Maintenance work item costing \$3M or more that is not an element of rehabilitation.

Programmed: Any part of project that is not unprogrammed.

Ranking: Activity rankings will be used to determine the relative priority of activities within a project, district, and MSC.

Rounding: All cost estimates shall be rounded to the nearest one thousand dollar (\$1000).

FUNDING LEVELS:

Investigations and Construction Appropriations:

Initial = Increment 1 Definition
Recommended-1 = Increment 2 Definition
Recommended-2 = Increment 3 Definition
Capability = Increment 4 Definition

Operation and Maintenance Appropriation:

<u>Initial</u> = Increment 1 & 2 Definition (Note increments 1 & 2 are limited to 75%)

<u>Recommended 1</u> = a share or percentage of Increment 3. It could be 50% or 75% or any percentage.

<u>Recommended 2</u> = the remaining share or percentage of Increment 3

Capability = Increment 4

Continuing Authorities Program: Follow guidance outlined in the CAP

COMMON DATA FIELD IN ALL Business Lines

- 1. BUSINESS LINE = Abbreviation for Business Line, such as ENR.
- 2. EROC = Two character code for district, such as B1 for Memphis District.
- 3. MSC = Three letter abbreviation for the MSC, such as MVD. This is a display-only field which is auto-populated based on the EROC. Data entry is not required.
- 4. DISTRICT = Three letter abbreviation for district, such as NWK. This is a display-only field which is auto-populated based on the EROC. Data entry is not required.
- 5. APPROP ABBREV = An abbreviation for the Appropriation Account. The abbreviations are: I (Investigations), C (Construction), OM (O&M), MRT-I (MR&T Investigations), MRT-C (MR&T Construction), MRT-OM (MR&T O&M), and FUSRAP. This is a display-only field which is auto-populated based on the CW TYPE OF FUNDS. Data entry is not required.
- 6 CW TYPE OF FUNDS = An 11 character code that combines the numeric Appropriation Account

codes with the numeric Category-Class-Subclass (CCS) codes. Appropriation Account codes (characters 1-7) are Investigations (96 3121), Construction (96 3122), Operations and Maintenance (96 3123), Mississippi River and Tributaries (96 3112), and FUSRAP (96 3130). These are followed by a space (character 8) and then the three digit CCS code (characters 9-11) which can be found in the Definitions/Glossary section in the main EC.

- 7. PROGRAM CODE = A code which identifies the AMSCO/CWIS/PWI associated with a P2 project. A Program Code should be assigned to every CW P2 project for which funds are requested. This is especially important in the case where multiple P2 projects have been created which are all associated with a single CWIS in the Corps budget submission to OMB and Congress. A P2 Program Code will need to be entered on each of those P2 projects so that they can be linked together for budget submission purposes. Separable elements are an example of this situation. Normally, the AMSCO number will be used as the Program Code value. The Program Code is a project level code which is entered in Oracle Projects (OP). By default, the Program Budget Submission (PBS) portion of OFA will auto-populate the field (if it's blank) with the Program Code classification that is assigned to the P2 Project in OP. Users have the ability to override that field with a valid Program Code if there's not one assigned in OP. It is strongly recommended, though, that users assign the code in OP so it can be utilized for other OFA reporting purposes (2101's, CWAS, etc).
- 8. P2 PROJECT NUMBER = A six digit numeric code which identifies a project in P2. This code is system-generated when a project is initiated in Oracle Projects. In OFA it is a display-only data field.
- 9. BUDGET ITEM ID = A code to uniquely identify multiple entries within the same EROC, P2 Project, CW Type of Funds (Approp/CCS), Business Line, Increment, and Phase. See paragraph 13c.(1)(j) in the main EC for more information concerning Budget Item ID.
- 10. INCREMENT = Enter the appropriate number in accordance with the guidance in the Definitions/Glossary section in the main EC. Enter a "1" if the budget item meets the requirements for inclusion in the Initial increment as defined. Enter a "2" if the budgetable item should be considered for the second Increment, etc. Every project may not have a budget item in the first two Increments. A project may have multiple budget items in an increment.
- 11. DIST RANK = The budget item's rank in the district's request.
- 12. MSC RANK = The budget item's rank in the MSC request.
- 13. HQ RANK = The budget item's rank in the HQ request. HQ will complete this item. It is not available for District or MSC entry.
- 14. ARMY RANK = The budget item's rank in the Army request. HQ will complete this item. It is not available for District or MSC entry.
- 15. PHASE = A letter code will be used to indicate phase. See the Definitions/Glossary section in the main EC for a list of valid values. Note that Joint activities on multi-purpose hydropower projects (Cat-Class 300) will have a phase code of OJ or MJ as appropriate.
- 16. PHASE STATUS = Status of the Phase listed in column 15 will be indicated with a letter code. NP = New Phase; CN=Continuing; LY= Last year of phase. Only use LY if FY2009 is the last year for which funding will be requested for the phase (not for a contract). For Reconnaissance and Construction initiation, a new start should be coded as a New Phase in this column. If a study or a project is completing one phase and starting a new one in the PY (e.g. finish Feasibility and start PED), each should be a separate entry (one LY and one NP). If there are multiple budget items for one phase of a

project (especially construction) this code may vary. Perhaps the first entry would be NP and the second one CN and the last one if funded would complete the phase and be LY.

- 17. PHASE COMPL = Required for all items in all accounts. Enter the fiscal year the phase for which funds are being requested is scheduled to complete. This is a 4-digit numeric field. The Reconnaissance phase ends with execution of a Feasibility Cost Sharing Agreement, or a report recommending no Federal action. For FY 2009 budget development, use the date of the Division Engineer's Transmittal of the report to HQ as the end of the Feasibility phase. The PED phase ends with completion of the first set of plans and specifications and execution of the PCA. Construction completion is defined as physical completion with the project turned over to the non-Federal sponsor to operate and maintain. For items in the O&M account, enter the PY unless the requested funds are scheduled to be carried over.
- 18. PROGRAM NAME = Name associated with the Program Code which is entered in Oracle Projects. In OFA it is a display-only data field.
- 19. P2 PROJECT NAME = Name of the P2 project. The project name is entered in Oracle Projects. In OFA it is a display-only data field.
- 20. SYSTEMS CODE = The System Code is used to identify the system in which the project or study is located. See Table C-5.1 for a list of valid system codes. Required entry for all items.
- 21. BASIN CODE = The USGS Hydrologic Unit Codes (HUC) will be used to identify systems/watersheds. The four-digit code for the appropriate sub-region as defined by USGS will be entered for every budget item. These codes may be found at http://water.usgs.gov/GIS/huc name.html. Some programmatic elements may cover more than one sub-region. If there are separable elements enter the code that is appropriate for the separable element. If there are no separable elements enter the code applicable to most of the project or area where funding will be applied. Required entry for all items.
- 22. STATE = Enter the two letter abbreviation for the primary state in which the study, project, or separable element is located.
- 23. CONTRACT TYPE = Required for all contract items in Construction and any contract with a remaining amount over \$20,000,000 in any phase. Enter one of the following: CC for continuing contract; CF for fully funded contract; CB for base contract with options; or CI for incrementally funded contract.
- 24. CURRENT BUD FED = This is a display-only field which is auto-populated from the project's current schedule in Primavera / Oracle Projects. It displays the PY 'At Completion Cost' Federal (Corps) amount for the budget item.
- 25. CURRENT INFLATION ADJUSTED BUD FED = This is a display-only field which is auto-populated from the project's current schedule in Primavera / Oracle Projects. It displays the PY 'At Completion Cost' Federal (Corps) amount for the budget item, adjusted by the inflation rates contained in this EC.
- 26. BUDGET REQUEST FED = The Federal (Corps) amount requested for the work proposed to be accomplished with this budget item in FY 2009.

ILLUSTRATION 1 FACT SHEET

(Identify INVESTIGATIONS, CONSTRUCTION, OR FC, MISSISSIPPI RIVER AND TRIBUTARIES, OPERATION & MAINTENANCE account)

Enacted Studies and Projects

<u>BUSINESS LINE</u>: (Identify Navigation, Flood and Coastal Storm Damage Reduction, Environment, Recreation, Hydropower, or Environmental Infrastructure)

PROJECT/STUDY NAME:

AUTHORIZATION:

LOCATION:

DESCRIPTION:

FY 2009 (\$000)

SUMMARIZED FINANCIAL DATA (\$00	<u>(0</u>)		Study/PED/Construction (Identify one)
Estimated Federal Cost	\$	x,xxx	
Estimated Non-Federal Cost		x,xxx	
Cash		x,xxx	
Other		x,xxx	
Total Estimated Cost	\$	x,xxx	
Allocation thru 2006	\$	x,xxx	
Allocation for FY 2007		x,xxx	
Allocation for FY 2008		x,xxx	
Conference Amount for FY 2009		x,xxx	
Allocation for FY 2009		x,xxx	
Balance to Complete after FY 2009		x,xxx	
Benefit to Cost Ratio Applicable rate (%))	
Remaining Benefits Remaining Costs Ratio	(7	%)	

<u>FY 2009 ACTIVITIES</u>: (Describe Recon/Feas/PED/ Construction activities, draft reports, agreements, contract award dates (mm/yy), etc.)

<u>EARLIEST ATTAINABLE COMPLETION FY FOR PHASE</u>: (Indicate earliest attainable completion FY for feasibility study, PED, or construction phase, as applicable.)

<u>OTHER INFORMATION</u>: (Address changes in study/PED/project cost, authorization issues (e.g. 902 limit), status of agreement, any difference from work specified in budget documents or appropriations committee reports.)

ILLUSTRATION 1 (Continued) FACT SHEET

CONGRESSIONAL	INTEREST:	(Name,	district)

DISTRICT:

Date:

ILLUSTRATION 2

DATE:			
CERTIFICATION OF COMPLIANCE WITH SECTION 3(D) OF EXECUTIVE ORDER			
12906			
and SECTION 8.j of ER 1110-1-8156			
·			
I hereby certify that the PY program for the (district,			
division, or laboratory name) Civil Works Program does not include an implicit or explicit			
request for funds to collect, produce, or acquire Geospacial data that is available through the			
National Geospacial Data Clearinghouse and that all possible data collection partnerships			
identified through the Clearinghouse were investigated. The			
(district, division, or laboratory name) has also contributed			
metadata to the National Geospatial Data Clearinghouse in accordance with ER 1110-1-8156.			

Colonel, Corps of Engineers

Commanding

FOR ILLUSTRATION PURPOSES ONLY

(TO BE TYPED AS NECESSARY)

ILLUSTRATION 3A

	DATE:
CERTIFICATION OF COMPLIANCE WIT	H COASTAL BARRIER RESOURCES ACT
I hereby certify that the PY program for the	(district name)
District Civil Works Program does not include a	request for funds which would result in any new
federal expenditures or financial assistance proh	ibited by the Coastal Barrier Resources
Act (PL 97-348), as amended by the Coastal Bar	rrier Improvement Act of 1990 (PL 101-591).
	Colonel, Corps of Engineers
	Commanding

FOR ILLUSTRATION PURPOSES ONLY (TO BE TYPED AS NECESSARY)

ILLUSTRATION 3B

DATE:
CERTIFICATION OF COMPLIANCE WITH COASTAL BARRIER RESOURCES ACT
I hereby certify that no Civil Works Program funds were obligated in PY-2 by the
(district name) District for any new federal expenditures or
financial assistance prohibited by the Coastal Barrier Resources Act (PL 97-348), as amended by
the Coastal Barrier Improvement Act of 1990 (PL 101-591).
Colonel, Corps of Engineers

Commanding

FOR ILLUSTRATION PURPOSES ONLY (TO BE TYPED AS NECESSARY)

ILLUSTRATION 4 MANAGEMENT CONTROL EVALUATION CHECKLIST

FUNCTION. The function covered by this checklist is Civil Works Program Development.

PURPOSE. The purpose of this checklist is to assist programs management organizations in USACE major subordinate commands (MSC) and districts in evaluating key management controls in development of their annual program requests. It is not intended to cover all controls.

INSTRUCTIONS. Become thoroughly familiar with the contents of the Program EC and read paragraph 13 before completing the checklist. Answers must be based on the **actual testing** of key management controls (such as **document analysis**, **direct observation**, **sampling**, **simulation**, **other**). Answers which indicate deficiencies must be explained and corrective actions indicated in support documentation.

TEST QUESTIONS:

1. Are funding schedules continuously reviewed and adjusted to reflect Congressio the local sponsors' financial capability, and project progress? Tested by:				
•	YES	NO	NA	
Remarks:				
appendices of Tested by:	elopment of the Sthe Program E	C?	grams follow the guidance included in the applicable NA	
Remarks:				
3. Are altern Tested by:	ative multi-yea	r program prop	osals fully documented?	
	YES	NO	NA	
Remarks:				

ILLUSTRATION 4 (Continued) MANAGEMENT CONTROL EVALUATION CHECKLIST

	-		~	er programs, yet consistent with	
	and approve	ed project coop	eration agreements?		
Tested by:					
Response:	YES	NO	_ NA		
Remarks:					
		tes of Table 1, Civilian emplo		imate Updating," been applied to	0
	YES	NO	NA		
Remarks:					
update costs construction Tested by:	for consultar stages of wo	nts and AEs us ork?	"PY Program, Cost Est ed in the various precon	imate Updating," been used to struction planning and	
Remarks:					
been used for Tested by:	r the period	PY-1 through I	es of Table 1, "PY Prog Y+19 for all activities? NA	gram, Cost Estimate Updating,"	
Remarks:					
кешагку:					
used to deter			Table 1, "PY Program, Congram,	Cost Estimate Updating," been ad PY+19?	
Tested by: Response:	YES	NO	NA		
- Remarks:					

ILLUSTRATION 4 (Continued) MANAGEMENT CONTROL EVALUATION CHECKLIST

9. Are the a Tested by:	ppropriate dis	scount rates be	ing used to compute the benefit-cost ratios of projects?
•	YES	NO	NA
Remarks:			
10. Is the fis	cal year of th	e approval date	e of the current economic analysis?
		_	more than three years older than the fiscal year of the o HQUSACE?
	YES	NO	NA
Remarks:			
assumed prog Tested by:	gram decision	date by the A	ore than three years older than the fiscal year of the dministration and Congress? NA
Remarks:	-		
analyses and Tested by:	current proje	ct costs deflate	s based on benefits in the latest approved economic d to the price levels of such benefits? NA
Remarks:			
and protectio coastal wetla: Tested by:	n of environn nds, other aqu	nental resource natic and ripari	
Response:	YES	NO	NA
Remarks:			

ILLUSTRATION 4 (Continued) MANAGEMENT CONTROL EVALUATION CHECKLIST

13. Do recommended new construction starts have firm M-CACES baseline cost estimates?						
Tested by: Response:	YES	NO	NA			
Remarks:						
Program EC?	· ·					
Tested by: Response:	YES	NO	NA			
Remarks:						
15. Are data i	n the Construc	tion and Invest	igations illustrations compatible, showing that:			
	a. Construction capability is shown for the fiscal year following PED completion?					
Tested by: Response:	YES	NO	NA			
Remarks:						
	cost estimates	are identical?				
Tested by: Response:	YES	NO	NA			
Remarks:						
[NOTE: Help	make this a be	etter tool for eva	aluating management controls. Submit suggestions			

for improvement to HQUSACE (CECW-ID), Washington, D. C. 20314-1000.]

ILLUSTRATION 5

	DATE:
CERTIFICATION OF USE OF MANAGEMENT CONTRO	L EVALUATION CHECKLIST
I hereby certify that the PY	(major subordinate command ull use of the Management
Director of Pro	ograms Management

FOR ILLUSTRATION PURPOSES ONLY (TO BE TYPED AS NECESSARY)



FY 09 Cost Estimate Update Rate Table-Fi



Table 2 Summary of Submission Requirema

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Table 3 Codes final.doc

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APPENDIX I HOMELAND SECURITY/EMERGENCY MANAGEMENT

- **I-1. Background.** The Flood Control and Coastal Emergencies (FCCE) program was established in 1955 by Public Law 84-99, as amended (33 USC 701n).
- **I-2. Purpose.** The Corps FCCE Program purpose is to provide for Disaster Preparedness to include preparedness activities under Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5121 et seq.), Homeland Security/Emergency Operations, Rehabilitation of Flood Control Works damaged or destroyed by floods and the rehabilitation of Federally authorized and constructed Hurricane/Shore Protection Projects (HSPP) damaged or destroyed by wind, wave or water action of an other than ordinary nature, provision of Emergency Water, Advance Measures to prevent or reduce flood damage when there is an imminent threat of unusual flooding and participation in the Hazard Mitigation program.
- **I-3. Civil Works 5-Year Plan.** The Civil Works Five Year Development Plan purpose is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to the achievement of strategic goals and objectives in the Civil Works Strategic Plan. For the Homeland Security/Emergency Management program the proposed increments included in this EC were developed to provide the Homeland Security/Emergency Management 5-Year Plan. The five-year plan focus is to undertake projects and activities that provide the highest net economic and environmental returns on the Nation's investment. See paragraph 8 (b) of the main part of the EC.
- **I-4. Program Objectives.** Table I-1 immediately below displays the FCCE Program Objectives and Performance Measures published in the March 2004 Civil Works Strategic Plan. The CW Strategic Plan was developed with an explicit assumption of an unconstrained resource environment to encourage an unconstrained assessment of the nation's water resources needs and potential Corps response. Preparation of the PY (FY 09) Budget Request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures. Table I-2 displays the program performance measures and performance ranking and rating criteria which support and/or supplement Table I-1 program objectives and performance measures to reflect the near term realities of a constrained PY budget environment.

TABLE I-1 Strategic Plan Objectives and Performance Measures					
Program Objectives	Performance Measures				
Attain and maintain a high, consistent state of preparedness.	 Planning Response Team Readiness index 				
	 PL84-99 Response Team Readiness index 				
	 Percent of scheduled inspections performed for all non-Federal Flood Control Works in Rehabilitation and Inspection Program (RIP), as required by ER 500-1-1 				
Provide a rapid, effective, efficient all-hazards response.	 Percent of time solutions are developed and implemented (either repaired to pre- 				

	flood conditions or possible non-structural alternative) prior to next flood season
Ensure effective and efficient long-term recovery operations.	 Percentage of Federal and non-Federal flood control works in the Rehabilitation and Inspection Program with a satisfactory condition rating

I-5. FCCE Performance Measures. The FCCE program is a well-established, multi-facetted program that encompasses disaster preparedness, response and recovery activities in support of federal, state and local stakeholders. Due to the emergency nature of this program, funding must be available for preparedness and response requirements. To achieve the FCCE goals, the following program budget objectives and rating criteria are established for PY program. We have also established a system of ranking criteria that are more detailed than those in the Strategic Plan and will permit objective evaluation of expenditure of funds.

TABLE I-2 Measures Rating Criteria		
Program Measures	Measure Rating Criteria	
Planning Response Team Readiness index.	This measure tracks the percent of the time that Planning Response Teams for a given mission area are in the Green state of readiness (trained, staffed, ready to deploy).	
2. PL84-99 Response Team Readiness index.	This measure tracks the percent of the time that PL84-99 Response Teams are in the Green state of readiness at the beginning of flood/hurricane season (trained, fully staffed, ready to deploy).	
3. FCW (Levees, floodwalls, etc.) inspections performed.	Percent of scheduled inspections performed for all non-Federal Flood Control Works in RIP, as required by ER 500-1-1.	
Deployable Tactical Operations System (DTOS) Readiness Index	Measures the readiness status of the national deployable support equipment and teams.	
5. Develop/maintain/exercise preparedness plans	Measures development/maintenance/exercising of contingency plans, SOPs, Guides, etc. IAW 1yr/5yr. MSC/District workplans (Flood/Hurricane/NRP (natural disasters), etc.)	
6. Execution of the National Training, Exercise and Evaluation and Corrective Action	Measures the effective execution of the national (USACE-wide) readiness life cycle	
7. Conditional rating of Federal and non-Federal flood control works	Tracks the condition of Federal and non- Federal FCW (approximately 3000) in the RIP. Provides an opportunity to judge program and expected project performance as the projects age and potentially deteriorate. Measurement reflects cumulative percent of projects with satisfactory rating (national database).	
8. PRT Performance	Measures the performance of PRT mission/functional during response in support of FEMA/DHS under the NRP.	

9. ESF #3 Cadre Performance	Measures the performance of ESF #3 TL/ATL during response in support of FEMA under the NRP.
10. Restoration of damaged FCW.	Percent of time solutions are developed and implemented (either repaired to pre-flood conditions or possible non-structural alternative) prior to the next flood season.
11. Homeland Security/Emergency Management Readiness Index	MSC/District maintained in an operations readiness status for all hazards contingency requirement. Operational readiness includes staffed, trained, equipped cadres for both supported and supporting MSC/District roles.
12. Career Management and Credentialing	HQ/MSC/District has effective career management and training program for senior staff and progression of responsibilities for other positions.
13. Homeland Security/Emergency Management business process	MSC/District develop and maintain 5-year plan forecasting organizational structure and purpose while indicating resources (dollars & hours) required as part of the budget process utilizing standardized budget guidance. Meet all mission essential tasks for overall MSC/District goals and objectives relative to Homeland Security/Emergency Management.

- **I-6. Budget Screening Criteria.** The following criteria will be utilized to address deficiencies and prioritize the expenditure of available funds. (The following criteria is not intended to imply that all funding will necessarily be eliminated in a given category before moving to the next priority):
 - -Limit or eliminate training and exercises for response personnel
 - -Postpone the rehabilitation of damaged FCW
 - Limit or eliminate advance measures activities
 - -Reduce or eliminate funding for equipment purchases for operational needs
 - -Limited emergency operations capability
 - -Reduce or eliminate funding for EM staff at all levels

I-7. Program Rating and Ranking Criteria for PY Budget Development.

a. **Ceiling and Recommended Programs**. This activity consists of functions required to ensure that USACE activities are ready to respond to a broad range of disasters and emergencies. It includes coordination, planning, training, and the conduct of response exercises with key local, state and federal stakeholders/partners under our own statutory authorities and in support of the Federal Emergency Management Agency, Department of Homeland Security. It also provides the vehicle for the purchase and stockpiling of critical supplies and equipment and support facilities (Emergency Operations Centers) to include the purchase additional and upgrade existing deployable tactical operations systems (DTOS). The Deployable Tactical Operations System, (DTOS), provides USACE with the necessary equipment to begin providing emergency aid to a disaster stricken community immediately. This requirement for DTOS is budgeted over a 3 yr period. These activities ensure USACE personnel assigned emergency assistance responsibilities are trained and equipped to accomplish their missions. This includes, but not limited to, personnel assigned to Emergency Operations Centers, Crisis Management Teams, Crisis

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Action Teams, Regional Operations Centers, Planning and Response Teams, Special Cadres, Levee Inspection Teams and general response personnel.

b. Major preparedness efforts include the review and updating of response plans based on lessons learned from recent disasters; training of personnel and teams to develop critical skills which enhance the capability to respond under adverse conditions; procurement and prepositioning of critical supplies and equipment (i.e., sandbags, pumps) which likely would be otherwise unavailable during the initial response stages; periodic exercises to test and evaluate plans, personnel, and training; inspection of non-Federal flood control projects to ensure their viability to provide flood protection and assess their eligibility for post-flood rehabilitation; laboratory support for field operations; liaison with state and local governments and agencies; and effective management to ensure workable, coordinated efforts that will meet the needs of disaster victims. The funding identified under All-Natural Hazards Preparedness Activities reflects expanded national and regional planning, training and coordination to support response to all natural disasters that includes disasters under the umbrella of the National Response Plan.

I-8. Special Considerations or Special Rating Criteria.

- a. USACE plans for all natural disasters, but response and recovery under its own authority (FCCE) are limited to-- fights floods (direct and technical assistance), provision of emergency water, advance measures, and restoration of federal/non-federal flood control works. All other responses are funded by external authorities (i.e. Stafford Act).
- b. Due to the uncertainty of the number and severity of disasters, it is difficult to determine the program funding requirements for activities other than the baseline operational and preparedness costs.

I-9. Work Plan (Spreadsheets) Guidance.

- a. **Level 1** is your baseline, bare-boned budget request. It includes only existing staff and current approved FTEs (no new staff requirements), existing leases not funded through revolving fund, and required ancillary costs to support baseline requirements. The request must also identify those outcomes and outputs that can be achieved at this level.
- b. **Level 2** is your recommended request which reflects Level 1 funding plus. It would provide for positive contributions to the applicable business line performance measures. The request must identify those outcomes and outputs that can be achieved at this level. Justification for specific new items from the previous fiscal year must be provided.
 - c. When completing the Work Plan spreadsheets the following additional guidance should be used:
- 1. No response is needed in areas of effort where no work is planned. However, in those areas where a single major item, a group of like items, or several items will be accomplished which require significant resources each will be identified with an appropriate estimate.
- 2. Under the Rehabilitation and Inspection Program, please provide a supplemental document that identifies those projects to be inspected with associated costs. The Work Plan (Spreadsheet) should only have a roll up of the cost. However, Districts are requested to supplement the Work Plan with a separate sheet that indicates the projects and schedule for inspection. Refer to Sub-Annex C-2.2.h Inspection of Completed Works for guidance to develop the program year budget activities for inspections of non-Federal projects. Refer to Appendix III-5.b(3)(f) for guidance on initial increments of inspection activities and Appendix III-5.c(3)(e) for additional increments guidance.

- 3. Justification for specific new items or cost increases exceeding 5% from the previous fiscal year must be provided separately.
- 4. Additional remarks can be submitted on separate sheets of paper to assist in justifying your resource needs.
- 5. The column L heading on the worksheet; FYXX should be changed to indicate FY08 or FY09 as appropriate. Data in the column should populate itself.
- d. All work resources identified will be linked to the existing Performance Measures and should tie into current Mission Essential Task Lists (METLs) identified by each organization.
 - e. See attached sample work plan. (Scan in as Adobe or attach Excel spreadsheet.)



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SUB-APPENDIX II-1 OVERVIEW

- II-1.1. **Introduction.** Numerous Federal laws and executive orders establish National policy for and Federal interest in the protection, restoration, conservation, and management of environmental resources. These provisions include compliance requirements and emphasize protecting environmental quality. They also endorse Federal efforts to advance environmental goals, and a number of these general statements declare it national policy that full consideration is to be given to the opportunities that projects afford to ecological resources. Recent water resources authorizations have enhanced opportunities for Corps involvement in studies and projects to specifically address objectives related to the restoration of ecological resources and ecosystem management. Specific authorities for new individual studies and projects to restore ecological resources have also been provided in legislation. Examples of legislation that broadly supports Federal involvement in the restoration and protection of ecological resources include:
 - Federal Water Project Recreation Act of 1965, as amended
 - The National Environmental Policy Act of 1969, as amended
 - Water Resource Development Acts of 1986, 1988, 1990, 1992, 1996, 1999, and 2000
 - Coastal Wetlands Planning, Protection and Restoration Act of 1990 (Title III of P.L. 101-646)

II-1.2. Components of the Environment Business Line.

- a. The Environment Business Line includes the Corps Ecosystem Restoration studies and projects, Stewardship and the Formerly Utilized Sites Remedial Action Program. A portion of the funding for Research and Development and corporate data collection activities will also be charged to the Environment Business Line but these items will be budgeted similar to previous years. Although the Environmental CAP (sections 1135, 204, and 206) is part of the Environment Business Line, it will be budgeted in accordance with guidance in **Annex G**.
- b. Ecosystem Restoration is funded primarily from the Investigations, Construction, and Mississippi River and Tributaries accounts. One item, Inspection of Completed Works, Ecosystem Restoration, is funded from the Operation and Maintenance account. Related budget development guidance is found in Annexes A, B, and C. The goal of ecosystem restoration is to restore degraded ecosystem structure, function, and dynamic processes to a less degraded, more natural condition in a cost effective manner.
- c. Stewardship is funded from the Operations and Maintenance and Mississippi River and Tributaries, Maintenance accounts and related budget development guidance is found in Annex C. As a matter of law and good environmental practice, the Corps provides stewardship of its projects lands and waters to sustain healthy natural resources and cultural resources that occur on this federal estate and takes action to minimize adverse environmental impacts.
- d. The Formerly Utilized Sites Remedial Action Program has its own account and information required to develop the initial and capability level funding programs is found in Sub-Appendix 4 of this Appendix. The purpose of the program is to clean up contaminated sites throughout the United States where work was performed as part of the Nation's early atomic energy program.
- II-1.3. **Increments**. Increments identifying similar levels of effort towards completion of a study or project or contribute to various level of project operation have been identified for each funding account. Only the first increments for investigation, construction, and Formerly Utilized Sites Remedial Action Program and the first two increments for Operation and Maintenance are constrained by monetary criteria. Otherwise the increments for Investigation, Construction, and Formerly Utilized Sites Remedial Action Program

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relate primarily to progress against the schedules in Performance Management Plans. Increments are not funding levels nor are they ranking criteria.

- II-1.4. **Additional Information**. More detailed information on the budget development, including minimum eligibility requirements and terms are found in the main section and budget account Annexes A, B, and C. The following sections describe the three components included in the Environment Business Line in more detail, including performance measures, ranking criteria and data requirements for development of the PY budget.
- II-1.5. **Ranking.** Each of the three components in the Environment Business Line will be ranked individually. Ranking will be within the individual component only and not across the Environment Business line.

Sub-Appendix II-2 ECOSYSTEM RESTORATION

- II-2.1. **Background**. In response to the increasing National emphasis on environmental restoration and preservation, and project and programmatic authorities contained in various Water Resources Development Acts, the Corps recognizes ecosystem restoration as one of its primary mission areas within the Civil Works Program. This Sub-Appendix provides guidance for preparing the FY 2009 budget request. It is consistent with and does not alter the plan formulation and project justification guidance contained in ER 1105-2-100.
- II-2.2. **Purpose**. The goal of ecosystem restoration is to restore degraded ecosystem structure, function, and dynamic processes to a less degraded, more natural condition. Restored ecosystems should mimic, as closely as possible, conditions which would occur in the area in the absence of human changes to the landscape and hydrology with a minimum of continuing human intervention. This includes an emphasis on species native to the project location. Those restoration opportunities that are associated with wetlands, riparian and other floodplain, and aquatic systems are most appropriate for Corps involvement. The focus of projects/activities implemented under this section of the guidance is the restoration of ecosystems and ecological resources and not restoration of cultural and historic resources, aesthetic resources, clean up of hazardous and toxic wastes or recreation.

II-2.3. Civil Works Program Objectives/FYDP.

- a. Table II-2-1 immediately below displays the Ecosystem Restoration Objectives and Performance Measures published in the March 2004 Civil Works Strategic Plan. Preparation of the FY 2009 Budget Request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures. Table II-2-2 displays the Ecosystem Restoration objectives, performance measures, and/or performance ranking and rating criteria which support and/or supplement Table II-2-1 objectives and performance measures to reflect the near term realities of a constrained FY 09 budget environment. Additionally, the strategic plan emphasizes the development of projects within a watershed framework and collaboration with other agencies and organizations. This is reflected in the data requirements.
- b. The purpose of the Civil Works Five Year Development Plan (FYDP) is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. See paragraph 8 (b) "Civil Works Five Year Development Plan". The FYDP for the Ecosystem Restoration Program focuses on cost effective restoration of nationally and regionally significant resources while providing a multi-year budgetary framework that facilitates achievement of program goals.

TABLE II-2-1 Goals, Objectives and Performance Measures in the Civil Works Strategic Plan

Goal 2: Repair past environmental degradation and prevent future environmental losses.

Objective 2.1. Restore degraded, significant ecosystems structure, function, and process to a more natural condition.

Objective Performance Measures

Ecosystem Restoration

Acres of habitat restoration completed.

River miles of habitat restoration completed.

River miles of habitat restoration completed.

Acres/river miles of nationally significant habitat

restoration completed per dollar invested.

II-2.4. Ecosystem Restoration Performance Measures.

effective manner.

- a. Since 1986, the Corps has received increased authority to implement ecosystem restoration projects and the number of implemented projects has increased dramatically in the last decade. These projects range in size from a few acres to several thousand acres, such as the Everglades. A wide variety of ecosystems and habitat types are involved and the techniques used are as varied as the problems addressed. In order to support continued investment in ecosystem restoration activities the results need to be documented. The purpose of this budget guidance is to establish performance measures and ranking criteria, that when used to evaluate each study and project, will result in the formulation of a justified and supportable budget.
- b. A nationwide perspective must be maintained to assure that available funding is used to provide the most cost effective restoration of nationally and regionally significant resources. It is also important to support timely completion of high performance studies and projects so that the expected benefits may be achieved as soon as possible. As our knowledge of ecosystem benefits and feasible restoration techniques increases, it is also important to have the capability to initiate new studies. The ranking criteria to be used in development of the PY budget are designed to assure that the available funding provides the greatest public benefit for the investment while continuing to investigate restoration opportunities and completing projects in a timely manner so that benefits may be achieved as soon as possible. To achieve the Ecosystem Restoration goal, the budget objectives and ranking criteria contained in Table II-2-2 are established for the FY 2009 budget. Each of the objectives and criteria are designed to demonstrate that each budget item makes sense and contributes to the Civil Works objectives and the Ecosystem Restoration goal.
- c. The data requested will also contribute to our ability to predict our performance regarding acres restored, the quantity of nationally significant acres restored, the cost to restore a nationally significant acre, and the percentage of the acres that are restored that are nationally significant. Quality of the restoration is a concern and seven of the criteria are designed to address this aspect of the ecosystem restoration program. A subset of the quality criteria is used to identify projects that restore nationally or

regionally significant habitat. Additional information about the ranking criteria is found in paragraph II-2.9 and in Table II-2-3.

TABLE II-2-2
Ecosystem Restoration Budget Ranking Criteria

CW Program Objective	Budget Objective	Ranking Criteria
Invest in restoration projects or features that make a positive contribution to the Nation's environmental resources in a costeffective manner	Keep ongoing studies or PEDs proceeding at an efficient rate if likely to produce recommendation for project (I)	Watershed for studies Significance - scarcity - connectivity - special status species - self-sustaining - plan recognition Acres for PED Years to complete Other purpose outputs
	Start new phase of studies or PED (I)	Watershed for studies Significance Acres for PED Other purpose outputs
Same	Complete on-going studies and PEDs (I)	Significance Acres for PED Other purpose outputs
Same	Complete ongoing construction phases to start getting benefits (C)	Significance Acres Other purpose outputs
Same	Keep on-going construction proceeding at an efficient rate. (C)	Significance Acres Years to complete Other purpose outputs
Same	Initiate new construction (C)	Significance Acres Other purpose outputs Years to complete

d. In order to achieve the above objectives, an Initial increment has been defined to assure uniformity across the country in building annual budgets from the same point. A system of ranking criteria has been established that is more detailed than the criteria in the Strategic Plan and will permit objective evaluation of incremental investment choices to assure that budget requests above the initial increment provide the greatest benefit for that investment. The initial increment and the system of ranking criteria will facilitate making informed and wise budgetary decisions.

II-2.5. Performance Based Budgeting

a. Performance should be a primary factor in ranking budget items. Additional budget items above the initial increment should consist of logical, needed items of work that contribute to the Civil

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Works program goals. The basis for adding items of work will be demonstrable beneficial impact resulting from accelerating project completion and/or improved performance, such as cost savings achieved by combining work items. Budget items should be added in priority order based on the performance components and ranking criteria shown in Table II-2-3. Rationale for any exceptions to this rule must be documented in the Narrative Justification column. Each contract in the Construction Account or for similar activities in the MR&T and Operations and Maintenance Accounts must be a separate line item. All contracts of \$20 million or less will be fully funded.

b. Inspections of ecosystem restoration projects/separable elements may be included in the either Operations account increments one or two if they are determined to be critical based on complexity and age of the features and if the criteria in Annex C regarding the Operations and Maintenance account increment definitions are met. Non-critical inspections should be placed as appropriate in increments 3 and 4. Each District will have an entry for every state in which an inspection is proposed in accordance with the guidance in Annex C.

II-2.6. Systems Approach.

- a. Consistent with the Civil Works Strategic Plan a systems approach or watershed approach is needed to ensure that investments are integrated into a whole that preserves or enhances performance and sustainability at the system level. A systems approach requires consideration of the investment needs and priorities of all the business lines within the watershed. All FY 2009 budget item requests (studies, construction, and O&M) will include the USGS HUC sub-region (4 digits) codes. These codes may be found at http://water.usgs.gov/GIS/huc name.html. Additionally, for the PY (FY 09) an O&M Systems Code will be assigned to identify the System that O&M projects will be grouped by. This is the initial step toward a comprehensive O&M systems based approach for making investment decisions. See the O&M Annex for the list of designated O&M Systems and codes.
- b. MSCs will identify all systems within their respective regions of the US and develop budget priorities that are consistent with investing in one or more of the following aspects of the system: in the highest risk portions of the system; that will result in the most improvement in performance; that contribute to increased navigation reliability and safety; that contribute to increased flood damages prevented; that contribute to addressing significant regional or national ecological problems. A system will generally be identified as a watershed, and may include multiple individual projects and components. Some large watersheds could be comprised of more than one system (e.g. the Mississippi River watershed has the Upper Mississippi River system, the MR&T system, and tributaries as separate systems). Analytical perspectives should be developed to help determine the mix in FY 2009 of investments in maintenance, operations improvements, reallocation, major rehabilitation, new construction, planning, and design that will maximize system efficiency, safety, reliability, and sustainability over time.
- c. Studies (reconnaissance and feasibility) and PED that have multiple outputs (watershed or multi-purpose) will be budgeted in the primary business line. When the project moves into construction the construction requests will be by appropriate business line.
- II-2.7. **Watershed Studies**. Watershed studies are multipurpose and encompass a relatively large geographic area. The key attributes are as follows.
- a. The study results in the identification of a combination of recommended actions (a Watershed Management Plan) to be undertaken by various partners and stakeholders in order to achieve local, tribal, regional, and national water resources management goals identified in the study and may or may not identify further budgetable Corps studies or implementation projects.

- b. Require team thinking about water resources development and management in the context of multiple purposes rather than single purposes is required. This facilitates the search for comprehensive and integrated solutions.
- c. The study provides a means for improving opportunities for public and private groups to identify and achieve common goals by unifying on-going efforts and leveraging resources.
- d. Leverage resources, including cost shared collaboration, and integrates programs and activities within and among Civil Works programs, and with other Federal, tribal state and non-governmental organizations, is a critical factor. This will facilitate improved consistency and cost effectiveness.

II-2.8. Budget Screening Definitions.

- a. New Start Definition.
- (1) A New start is defined as an active authorized study or project which has not received an initial work allowance and that fits into at least one of the following business lines: commercial navigation; inland navigation; flood and storm damage reduction; ecosystem restoration; water supply, hydropower; or recreation.
- (2) The New Start definition will apply to Reconnaissance studies and Construction Projects, as well as any new efforts under the Remaining Items category. Any PED, which has not been funded in the Conference Report for the past three years, will also be considered a New Start. For Feasibilities, see New Phase definition. Except a new start decision would be needed for a feasibility study being initiated after, say, an O&M-funded appraisal without an intervening reconnaissance new start decision. Basic eligibility criteria for construction new starts are found in Annex B.
- b. New Phase Definition. A study or project is considered to be in a NEW PHASE once it has completed the current phase that is funded and ready for budgeting in the follow-on phase, e.g. from Reconnaissance to Feasibility or Feasibility to PED, e.g. Seamless PEDs are a new phase.
- II-2.9. **Increments.** The following paragraphs apply to Investigation, Construction and comparable items in MR&T Account. For information about the increments to use for Inspection of Completed projects and Everglades Operation and Maintenance refer to the Definitions/Glossary section of the Main EC and to Annex C.
- a. The following increments are primarily process/schedule driven. Only the first Investigation increment has a funding constraint. The increments are not funding levels. The first funding line for any continuing study/project/separable element will probably fit the criteria for either the first or the second increment. The first funding line item for a new start or resumption will be labeled Increment 3. There may be more than one funding line for a study/project/separable element that meets the criteria for an increment. For example if a contract and significant staff time were required to meet the optimal schedule in the PMP, Increment 3, there might be two funding lines for that project with an increment 3 designation. Every contract in the Construction account and for construction in the MR&T account is a unique funding line. For an individual study/project/separable element an item may not be ranked before other items for that study/project/separable element that meet the definition for preceding increments. For example for project X an increment 3 item may not precede a project X increment 2 item in the rankings. The rankings are to be based on performance. This means that higher increments for other

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studies/projects/separable elements. For example Increment 3 of project X may precede Increments 1 and/or 2 for project Y in the ranking

b. **Definition**

- (1) Work Increment. A work increment is a discrete amount of work identified by an activity or a set of activities with specific resource requirements and a schedule.
- (2) Activity: A component of work performed during the course of a project. An activity could be a process (e.g. collection of data) or lead to a deliverable (write a report). Activities are the building blocks of the P2 system they have assigned durations, resources, and relationships.
- c. Investigation Increments (for studies, and pre-construction engineering and design of specifically authorized and MR&T investigations):
- (1) Increment 1: This increment will include only the minimum continuing and new study activities and the total request is limited to the budget amount for PY-1, by study. *Do not include new PED or study phases*. If a study is ready for changing phases or is no longer likely to produce a high performing project, then the Increment 1 level for that study will be zero. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (2) Increment 2 New phases of studies previously budgeted may be initiated in this increment. Studies that do not have an Increment 1 may reflect the study activities in Increment 2. Studies that have a high probability of recommending a project with high value output may include additional activities in this increment that will provide improvement to the study completion compared to the items submitted in increment 1. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (3) Increment 3: This increment will include the activities needed to sustain (not fall behind/not accelerate) the study schedule included in the PMP. New starts and resumptions may be included. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (4) Increment 4: This increment includes additional capability activities that can be supported by cost sharing sponsor and Corps resources. This increment can be viewed as enhancing (or advancing) the study schedule at a faster pace than shown in the PMP. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
 - (5) Increments 5-8: Not used.
 - (6) Increment 9: Place unbudgetable studies in Increment 9.
- d. Construction Increments. All contracts will be fully funded if the estimated contract total (total of both federal and non-federal shares) is \$20M or less. For all contracts that are proposed for full funding, the total estimated amount for EDC and S&A will be included with the contract. Each contract included in any increment must be shown separately to allow individual funding decisions based on the performance metrics and must be shown in priority order by District and MSC Rank. This section includes specifically authorized projects, MR&T construction, dam safety projects, deficiency corrections projects and dam safety, seepage, static instability studies.

- (1) Increment 1: This increment will include only the minimum project activities budgeted in, and continuing from, PY-1. Only true continuing contract needs, and the Engineering and Design during Construction (EDC) and Supervision and Administration (S&A) of contracts fully funded in PY-1 and before may be included in this increment. Do not include any continuing incrementally funded contract requirements. Do not include new contracts, options, or funding for the engineering and design activities for new contracts. Only mandatory real estate activities for required project lands, easements, and right-of-ways may be included. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (2) Increment 2. This increment will include continuing incrementally funded contract requirements for ongoing projects, new contracts, engineering and design for future contracts or other activities (show each separately), and EDC and S&A for new contracts awarded in PY. Real estate activities for required project lands, easements, and right-of-ways may be included. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (3) Increment 3: This increment will include activities and contracts needed to sustain (not fall behind but not accelerate) the efficient project schedule based on the PMP. This increment may include projects that do not qualify for increment 2, and may include continuing incrementally funded contract requirements, new contracts, engineering and design for future contracts or other activities (show each significant activity separately), and EDC and S&A for new contracts awarded in PY. Real estate activities for required project lands, easements, and right-of-ways may be included. New starts and resumptions may be included. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
- (4) Increment 4: This increment will include additional capability activities that can be supported by the cost sharing sponsor and Corps resources and will advance the project schedule at a faster pace than shown in the PMP. Increment must be performance based and integral with a study or project high outputs and consistent with ranking.
 - (5) Increments 5-6: Not used.
- (6) Increment 7: This increment will identify nine projects which have ecosystem restoration outputs but may be budgeted in Operations and Maintenance with costs assigned to other business lines or as joint project costs. Only the ecosystem restoration portions of Assateague, Lower Cape May and Houston-Galveston are included in this category.
 - (NAD Assateague, Poplar Island, Lower Cape May; NWD Columbia River Fish Mitigation Temperature Control, Chief Joseph Gas Abatement, Howard Hanson Dam Ecosystem Restoration, Willamette Temperature Control, Missouri River Fish and Wildlife Recovery; SWD Houston-Galveston Navigation Channels).
- (7) Increment 8 This increment will include projects that are consistent with Administration policy but are unbudgetable due to the decision document not yet being cleared by the Administration.
- (8) Increment 9 This increment will include unbudgetable projects that are inconsistent with Administration policy, such as environmental infrastructure. Also, the Federal funds for shore protection projects that require beach renourishment (not associated with Federal navigation projects) should be identified and included in this increment.

II-2.10. Ecosystem Ranking Criteria.

The ranking criteria developed evaluate studies and projects against the parameters of readiness, timeliness, cost effectiveness, and performance. Seven performance components provide an indication of the significance of the resources being restored and will have a substantial bearing on how projects are ranked. The seven performance components and maximum scores are as follows:

Habitat Scarcity	25 points
Connectivity	25 points
Special Status Species	10 points
Hydrologic Character	15 points
Geomorphic Condition	15 points
Self-Sustaining	20 points
Plan Recognition	10 points

National Significance is defined as studies and projects receiving the top scores in Scarcity (25 points), Connectivity (25 points) and Special Status Species (10 points) and at least the second score (5 points) for Plan Recognition. Regional Significance is defined as studies and projects receiving at least the second highest score in each of these four criteria. Information about the physical scale of the restoration, cost, phase, relation to other purposes for multipurpose projects, watershed status for studies, and status of cost-share agreements will also be used to arrive at a balanced budget recommendation that insures continued positive contributions to the Nation's resources. The criteria apply to individual line item-funded studies, projects, and separable elements.

II-2.11. **Separable Elements.** Separable elements that upon completion provide ecosystem restoration benefits even if the remainder of the project is not completed should have unique subproject names and may have unique CWIS/PWI numbers. Separable elements are to be entered as separate line items in the budget request. Existing sub-project names should be reviewed to ensure that the items identified as subprojects are in fact separable elements. In rare instances separating a large project not previously divided into separable elements may be warranted to more accurately report performance. If a separable element will be constructed in phases or stages, phase and stage designations should not be part of the subproject name. Instead the phase/stage indicator should be included in the project description column and the output column should be used to indicate status such as initiate stage 1 or complete stage 2 as appropriate.

II-2.12. Data Requirements

- a. The data elements to be included in P2 or derived from data in P2 are described in Table II-2-3 and an example of the excel sheet that we will use to analyze the data provided is shown in Illustration II-2-1. A limited number of items will be required for the "Studies, Surveys and Inspection of Completed Works- Ecosystem Restoration" work category code in the Operation and Maintenance account. The CCS is 640 and the PWI is 081816.
- b. Many of the data elements in P2 will be the same for all entries related to a single project or separable element. Items which may vary for each contract include Approp Abbrev, CW type of funds, increment, phase, phase status, phase completion, dates of agreements, and narrative justification. Phase completion refers to the completion of the phase for the project or separable element not for the contract. In construction, LY should ONLY be used to describe the last year of the final contract or other budget item for a project or separable element that will result in physical outputs. It should NOT be used to describe the completion of any other contract or budget item for the project of separable element. Federal budget request, Budget Item ID, Output of Budget item and Dist, MSC ranks must be unique for

each entry. The remaining entries will be the same but unique for each project or separable element. However, the program code and name should be the same for each separable element.

- c. CEQ Annual Wetlands Report. The last five data elements are required to provide data for the Council on Environmental Quality's annual wetlands report. This information will help to determine the amount of the FY 2009 budget that will contribute to the five actions: establishment, re-establishment, rehabilitation, enhancement, and protection. Definitions of these five terms are included in Table II-2-4.
- d. Investigations account, Construction account and Operations and Maintenance account items will be ranked separately. Watershed and multipurpose Reconnaissance, Feasibility and PED phases will only be entered in the business line that is expected to be the primary purpose and not split among multiple business lines.

II-2.13. Projects Previously Budgeted in Ecosystem Restoration Construction Account.

a. Nine projects in part or in whole previously budgeted in the Construction Account, Ecosystem Restoration Business Line were moved to the Operations and Maintenance Account in the FY 2008 budget submission. An additional project (Houston-Galveston) will move into O&M in 2009. However, since specific ecosystem restoration information is required, the projects and ecosystem restoration features must also be entered following the rules for ecosystem restoration construction. Use the O&M appropriation code and CCS, retain the existing P2 project or program number, the ENR Business line code and an increment code of 7. However for Columbia River Fish Mitigation and Missouri River Fish and Wildlife Recovery increments 1-3 will be used as described in c. below. As the budget development progresses the appropriate funding amount will be distributed to the appropriate business line or distributed as joint costs to the various operating projects. The projects included in this category are:

NAD Assateague (ecosystem restoration portion)

NAD Poplar Island

NAD Lower Cape May (ecosystem restoration portion)

NWD Columbia River Fish Mitigation NWD Chief Joseph Gas Abatement

NWD Howard Hanson Dam Ecosystem Restoration

NWD Willamette Temperature Control

NWD Missouri River Fish and Wildlife Recovery

NWD Lower Snake River Fish and Wildlife Comprehensive Plan, WA

SWD Houston-Galveston Navigation Channels (ecosystem restoration portion)

- b. These projects will not be split in P2/OFA and allocated to the operating project and business lines (as was done in FY07&08). This allows the activities at a project to be entered and managed as a single budget activity. The total budgeted amount can later be "displayed" across specific Business Lines in accordance with the statutory O&M joint cost allocation formula. This "display" of joint costs will not result in a single budget activity being split into multiple activities across multiple business lines. However, this "display" of programmed costs allows the Corps to identify the costs allocated to other business lines.
- c. Columbia River Fish Mitigation and Missouri River Fish and Wildlife Recovery consist of multiple projects. The individual projects will be shown as separate line items in the budget submission to headquarters. The programs will have at least three increments in O&M.

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Increment 7.1 – Activities required to maintain the necessary minimum progress toward compliance with the BiOp to avoid jeopardy in FY 09.

Increment 7.2 - Activities required to maintain progress toward compliance with the BiOp in accordance with the established schedule.

Increment 7.3 – Capability level to advance progress on the highest priority activities.

TABLE II-2-3 Ecosystem Restoration Study and Project Information

The data provided in this table will allow for ranking the ecosystem restoration projects to develop a budget consisting of cost effective projects that efficiently provide significant ecosystem restoration benefits. The data in this table will be pulled from P2 at the MSC and HQ levels. If the item required for this table is not applicable, do not leave it blank (the exception is the ranking columns for higher organizational levels). Enter NA so that it is clear the absence of information is not an oversight. This information will be available for incorporation into a spreadsheet similar to the one in Illustration II-2-1. Every column must have an entry. For columns where data is not required as indicated by the code at the bottom of the spreadsheet in Illustration II-2-1, if the data is entered directly into P2 then the cells should auto fill with NA. Otherwise enter NA as necessary. Additionally, for a P2 Project Number with more that one budget item, many fields will auto fill for subsequent budget items.

If the spreadsheet is used and items are entered in the order listed below and the P2 data entry rules are followed, it may be uploaded directly into P2. Dates should be entered in **YYYY-MM-DD format (2007-05 02)**, fiscal year should be entered as 4 digits (2006), all dollar and other numeric entries should be in thousands unless the data field definition specifically instructs otherwise.

Items funded in the MR&T account should follow the rules for the I, C, and O&M accounts as appropriate. The first 24 items are required for all budget items in all accounts.

Every contract in the Construction account including comparable MR&T items is a separate line item. For continuing contracts there may be multiple entries. New contracts for \$20,000,000 or less are to be fully funded.

- 1. BUSINESS LINE = ENR for Ecosystem Restoration
- 2. EROC = Two character code for District, such as B1 for Memphis District.
- 3. MSC = Three letter abbreviation for MSC, such as SAD. This is a display-only field which is auto-populated based on the EROC. Data entry is not required.
- 4. DISTRICT = Three letter abbreviation for District, such as NWK. This is a display-only field which is auto-populated based on the EROC. Data entry is not required.
- 5. APPROP ABBREV = An abbreviation for the Appropriation Account. The abbreviations are: I (Investigations), C (Construction), OM (O&M), MRT-I (MR&T Investigations), MRT-C (MR&T Construction), MRT-OM (MR&T O&M), and FUSRAP. This is a display-only field which is autopopulated based on the CW TYPE OF FUNDS. Data entry is not required.
- 6. CW TYPE OF FUNDS = CW Account and Category/Class/Subclass (CCS) code This is an 11 character numeric code that combines the numeric appropriation account codes with the numeric CCS codes. Appropriation Account codes are Investigation (96 3121), Construction (96 3122), Operations and Maintenance (96 3123), and Mississippi River and Tributaries (96 3112). These are followed by a space and then the three digit CCS code which can be found in the Definitions/Glossary section in the Main EC.

- 7. PROGRAM CODE = The Program Code identifies the AMSCO/CWIS/PWI associated with a P2 project. A Program Code should be assigned to every CW P2 project for which funds are requested. This is especially important in the case where multiple P2 projects have been created which are all associated with a single CWIS in the Corps budget submission to OMB and Congress. A P2 Program Code will need to be entered on each of those P2 projects so that they can be linked together for budget submission purposes. Separable elements are an example of this situation. Normally, the AMSCO number will be used as the Program Code value. The Program Code is a project level code which is entered in Oracle Projects (OP). By default, the Program Budget Submission (PBS) portion of OFA will auto-populate the field (if it's blank) with the Program Code classification that is assigned to the P2 Project in OP. Users have the ability to override that field with a valid Program Code if there's not one assigned in OP. It is strongly recommended, though, that users assign the code in OP so it can be utilized for other OFA reporting purposes (2101's, CWAS, etc).
- 8. P2 PROJECT NUMBER = A six digit numeric code that identifies a project in P2. Separable elements should have unique codes. Usually individual contracts and phases and stages of projects are not separable elements. (see paragraph II-2.10 for additional information regarding separable elements.)
- 9. BUDGET ITEM ID = A code to uniquely identify multiple entries within the same EROC, P2 Project, CW Type of Funds (Approp/CCS), Business Line, Increment, and Phase. System generated, no entry required.
- 10. INCREMENT = Enter the appropriate number in accordance with the guidance in Paragraph II-2.6. Enter a "1" if the budget item meets the requirements for inclusion in the Initial increment as defined. Enter a "2" if the budgetable item should be considered for the second Increment, etc. Every project may not have a budget item in the first two Increments. A project may have multiple budget items in an increment. For (O&M) Inspection of Completed Environmental Works and Everglades related O&M assign an increment number 1-4 in accordance with the guidance in the Definitions/Glossary section in the main EC (or Annex C).
- 11. DIST RANK = The budget item's rank in the district's request.
- 12. MSC RANK = The budget item's rank in the MSC request.
- 13. HQ RANK = The budget item's rank in the HQ request. HQ will complete this item. It is not available for District or MSC entry.
- 14. ARMY RANK = The budget item's rank in the Army request. HQ will complete this item. It is not available for District or MSC entry.
- 15. PHASE = A letter code will be used to indicate phase. The codes that are applicable to ecosystem restoration studies and projects are: R = Reconnaissance; F = Feasibility; P = Preconstruction Engineering and Design Phase; C = Construction; O = Operations and would apply to Inspections of Completed Projects. For projects moved from the Ecosystem Business line, C account to another business line O&M account in FY 2007 one of the following should apply: DS = Federal sand + section 111; BO = Biological Opinion (RPA); or BD = Beneficial use of dredged material. Joint activities on multi-purpose hydropower project (Cat-Class 300) will have a phase code of OJ or MJ as appropriate.

- 16. PHASE STATUS = Status of the Phase listed in column 15 will be indicated with a letter code. NP = New Phase; CN=Continuing; LY= Last year of phase. Only use LY if FY2009 is the last year for which funding will be requested for the phase (not for a contract). For Reconnaissance and Construction initiation, a new start should be coded as a New Phase in this column. If a study or a project is completing one phase and starting a new one in the PY (e.g. finish Feasibility and start PED), each should be a separate entry (one LY and one NP). If there are multiple funding lines for one phase of a project (especially construction) this code may vary. Perhaps the first entry would be NP and the second one CN and the last one if funded would complete the phase and be LY.
- 17. PHASE COMPL = Required for all items in all accounts. The fiscal year the phase for which funds are being requested is scheduled to complete. This is a numeric. The Reconnaissance phase ends with execution of a Feasibility Cost Sharing Agreement, or a report recommending no Federal action. For FY 2009 budget development, use the date of the Division Engineer's Transmittal of the report to HQ as the end of the Feasibility phase. The PED phase ends with completion of first set of plans and specifications and execution of the PCA. Construction completion is defined as physical completion with the project turned over to the non-Federal sponsor to operate and maintain. The construction phase completion date is the date that will be used for various ecosystem restoration reports including development of the Five Year Development Plan performance estimates. For items in the O&M account, enter the PY unless the requested funds are scheduled to be carried over.
- 18. PROGRAM NAME = Name associated with the Program Code which is entered in Oracle Projects. This will be auto filled. In OFA it is a display-only data field.
- 19. P2 PROJECT NAME = Name of the P2 project. The project name is entered in Oracle Projects. In OFA it is a display-only data field.
- 20. SYSTEM CODE = Required for entries in the O&M account and comparable MR&T account. This is a three letter code. See the O&M Annex for the list of designated O&M Systems and codes.
- 21. BASIN CODE = Required for all items in all accounts. The USGS Hydrologic Unit Codes (HUC) will be used to identify watersheds. The four-digit code for the appropriate sub-region as defined by USGS will be entered for every budget item. These codes may be found at http://water.usgs.gov/GIS/huc_name.html. Some programmatic elements may cover more than one sub-region. If there are separable elements enter the code that is appropriate for the separable element. If there are no separable elements enter the code applicable to most of the project or area where funding will be applied.
- 22. STATE = Enter the two letter abbreviation for the primary state in which the study, project, or separable element is located.
- 23. CONTRACT TYPE = Required for all items in Construction, projects listed in paragraph II-2.13, and any contract with a remaining amount over \$20,000,000 in any phase. Enter one of the following: CC for continuing contract; CF for fully funded contract; CB for base contract with options; or CI for incrementally funded contract. Enter NA if this line item is not a contract or if in I or O and remaining amount less than or equal to \$20,000,000.
- 24. CURRENT BUD FED = This is a display-only field which is auto-populated from the project's current schedule in Primavera / Oracle Projects. It displays the PY 'At Completion Cost' Federal (Corps) amount for the budget item.

- 25. CURRENT INFLATION ADJUSTED BUD FED = This is a display-only field which is auto-populated from the project's current schedule in Primavera / Oracle Projects. It displays the PY 'At Completion Cost' Federal (Corps) amount for the budget item, adjusted by the inflation rates contained in this EC.
- 26. BUDGET REQUEST FED = The amount requested in FY 2009 for the work proposed to be accomplished with this budget item. This may or may not be the total FY 2009 budget request for the study, project, or O&M item. The sum of all entries for this P2 Project Number will be its Capability. Additional budget items are not additive and each must provide measurable contributions to performance. Each construction contract of \$20 Million of less must be a separate budget item.
- 27. AMOUNT NEXT CONTRACT = Required for all items in Construction and projects listed in paragraph II-2.13. Provide the total amount of the next new contract. Enter NA if this line item is the last contract for project/separable element.
- 28. CONTINUING CONTRACT EARNINGS = Required for all continuing contracts in Construction and projects listed in paragraph II-2.13 including both "true" and "special" continuing contracts. Provide the PY earnings for all continuing contracts continuing from the previous year. This number will change as additional items are included in the budget request for an individual continuing contract. Enter NA if this line item is not a Continuing Contract.
- 29. CONTINUING CONTRACT VALUE = Required for all continuing contracts in Construction and projects listed in paragraph II-2.13 including both "true" and "special" continuing contracts. Enter the total value of the contract in thousands.
- 30. CONTINUING CONTRACT AMOUNT APPLIED THROUGH PY-1 = Required for all continuing contracts in Construction and projects listed in paragraph II-2.13 including both "true" and "special" continuing contracts. Enter the amount in thousands. This should be zero for a continuing contract initiating in FY 2009. Enter NA if this line item is not a Continuing Contract.
- 31. FY PROJECT or SEPARABLE ELEMENT COMPLETE = The fiscal year that the entire project or separable element is scheduled to be complete (the last year that funds other than O&M, will be requested). This includes authorized monitoring/adaptive management funded in the construction account. If the budget line item accelerates the phase this date may change from date in a previous budget item. The date entered for each of multiple entries for a project/separable element should be determined based on the assumption that no subsequent items for the project/separable element will be funded.
- 32. LAST YEAR BUDGETED = Required for items in the Investigation and Construction accounts and projects listed in paragraph II-2.13. Enter the most recent Fiscal Year this study or project was included in the President's Budget (any phase).
- 33. LAST YEAR FUNDS APPROPRIATED = Required for items in the Investigation and Construction accounts and projects listed in paragraph II-2.13. Enter the most recent Fiscal Year this study or project received an appropriation (any phase).
- 34. LAST AMOUNT APPROPRIATED = Enter the amount of funds (conference report amount) contained in the appropriation indicated in item 33 above for this study or project
- 35. BALANCE TO COMPLETE = The PY+1 uninflated balance in \$1000s to complete study (if in reconnaissance or feasibility) or project or separable element. This should be consistent with the

Total Project Cost for items in PED, Construction and projects listed in paragraph II-2.13. This number should vary in each budget item for a project or separable element.

- 36. FCSA DATE = Required for items in the Investigation and Construction accounts. The actual or scheduled date of the FCSA. Enter the date **YYYY-MM-DD e.g.2005-03-30.** If the budget request is to accelerate the reconnaissance phase, this date may change from the initial entry.
- 37. PED DATE = Required only for items in the Investigation and Construction accounts and projects listed in paragraph II-2.13. The actual or scheduled date of the PED Agreement. Enter the date YYYY-MM-DD e.g. 2007-09-30. If the budget request is to accelerate phase, this date should change from the initial entry. For a new Reconnaissance NA may be appropriate.
- 38 PCA DATE = Required only for items in the Investigation and Construction accounts and projects listed in paragraph II-2.13. The actual or scheduled date of the PCA. Enter the date YYYY-MM-DD e.g. 2009-11-01. If the budget request is to accelerate phase, this date should change from the initial entry. For Reconnaissance and new Feasibility studies NA may be appropriate.
- 39. MONITORING/ADAPTIVE MANAGEMENT = Required for PED and Construction phases and projects listed in paragraph II-2.13. and is to be based on either the Chief's Report or project authorization. Enter the number of years subsequent to physical completion of the project. Enter 0 if no monitoring or adaptive management is recommended or authorized and NA for other phases.
- 40. WATERSHED STUDY = Required only for Reconnaissance phase and Feasibility studies. Watershed studies do not fall neatly into anyone business line but generally overlap two or more and often include flood damage reduction and ecosystem restoration. The study may produce a watershed or regional needs analysis that identifies opportunities and impediments; a range of alternatives; or a regional or basin-wide strategy that identifies implementable actions for the future for some or all of the stakeholders within the watershed or region; or result in a feasibility report for authorization. This element will be evaluated on the basis of its analytical and relationship components. Any budget request for a study that is in accord with these principles should be scored using the following criteria. These criteria have been developed to help identify potentially high performing watershed studies for ranking purposes. This score is in addition to the other scores or ranking criteria for the primary business line but will not be added to those scores. Instead it is intended to be a unique evaluation tool for watershed studies. A maximum of 5 points for Relationships and 7 points for Analysis is possible.

a. Relationships:

- (1) 2 points = Currently has an established local watershed structure (usually 501 c 3) that is capable of accepting funds. The organizational structure is typically a multi-party organization with the resources to make a meaningful contribution to or to sponsor the watershed study.
- (2) 1 point = Aligns the Corps, and/or builds upon existing relationships, with state, tribal, or local governments or other federal agencies.
- (3) 2 points = Contributes to the goals of the state, tribal or local jurisdictions and their water resources agencies for improved multi-jurisdictional and integrated water resources management.

b. Analysis:

- (1) 2 points = Encompasses a complete watershed (HUC level 4 or cataloging unit the eight digit HUC code. This is the smallest element in the hierarchy of hydrologic units. A cataloging unit is a geographic area representing part of all of a surface drainage basin, a combination of drainage basins, or a distinct hydrologic feature. There are 2264 Cataloging Units in the Nation.
- (2) 2 points = Encompasses integrated problem solving, not just water resources but also transportation, recreation, economic development, regional and other social effects, or other challenges that state, tribal or local governments are facing in today's real world
- (3) 2 points = A combination of recommended actions addressing multiple challenges to be undertaken by various partners and stakeholders is identified and may result in a Watershed Management Plan.
- (4) 1 points = Integrates and/ or supports the regulatory function within the context of regional or watershed planning.
 - 41. Document the basis for scores in column 39 (200 characters). For each factor state the score and the basis for the score. For example, a.(1) 2pts –Great basin watershed coalition a 501.c.3, a.(2) 1pt. EPA/NRCS/TNC focus area; a.(3) 0pts., b.(1) 2 pts area covers HUC #, etc.
 - 42. FUNDING OF OTHER PURPOSES = Required for Construction phase. Displays the budget request amounts entered in other business lines for this project. System generated, no entry required.
 - 43. PROJECT DESCRIPTION = Entry is required for all phases of the study/project. Entry needs to clearly and succinctly describe the project features and the intended outputs. Entries will be 125 words (625 characters) or less in total. Include information on type of project, list ecosystem features, and other pertinent information. Briefly describe phase or stage if a multi-stage implementation. If using dredged material, mention the navigation project source. Note the habitat type(s) using the codes (don't spell them out use the abbreviations) in Illustration II-2-2. Complete sentences are not required. The project description and work to be performed should be consistent with the J-sheets.
 - 44. PROJECT DESCRIPTION cont. = Because P2 has a field limit of about 489 characters, if the project description (43. above) requires additional space use this field. (150 characters) other wise enter NA.
 - 45. RELATED PROJECT = Required for PED and Construction phases. If there is a link to a constructed Corps project enter the project name. Otherwise enter NA. (50 characters)
 - 46. TOTAL PROJECT COST = Required for PED and Construction phases and projects listed in paragraph II-2.13. The total project cost (\$1000s) includes the Federal and non-Federal costs of PED and Construction. It also includes cost shared monitoring and adaptive management costs. The figure will be derived from P2 and is to include all Federal and non-Federal costs for PED and Construction. The cost should be the uninflated cost but consistent with the fully funded cost in the J sheet.
 - 47. TOTAL ECOSYSTEM RESTORATION COST = Required for PED and Construction phases and projects listed in paragraph II-2.13. This is the figure that will be used when asked the cost of the ecosystem restoration outputs. This entry is for the cost of ecosystem restoration elements only. Be

sure to exclude the costs of recreation or environmental education features in this column. For a multipurpose project, this column would include the separable and joint costs of the ecosystem restoration features only. For a single purpose ecosystem restoration project without recreation features the entries in columns 45 and 46 should be identical. Cost in \$1000s.

- 48. ACRES = Required for PED and Construction phases and projects listed in paragraph II-2.13. The area used for the Cost Effectiveness/Incremental Cost analysis (CE/ICA) analyses is the quantity to enter. This does not change the need for a quality component in the CE/ICA analyses. For budgeting purposes the quality of the aquatic habitat restored should be reflected in the subsequent significance criteria and in the project description and narrative justification. The actual number of acres should be entered in whole numbers. Stream miles used as the based for benefits analyzed in CE/ICA will be converted to acres using the following formulas. Each mile of restored stream less than 100 feet wide be equivalent to 1 acre of habitat restored. Each mile of river greater than 100 feet wide will be equivalent to 5 acres of habitat restored. Each mile of river and stream habitat opened up to fish passage, as through dam removal, will be equal to 0.25 acres of habitat restored. If a project includes a combination of actions the acres may be added but avoid double counting. For example if in association with a dam removal one mile of river bank or channel bottom grading up stream of the dam location was undertaken the actual acres of that work (either 1 or 5 depending on the stream width) would be added to the miles above that stretch opened to spawning and associated riparian acres (not linear along the stream and counted otherwise) could also be added.
- 49. COST PER ACRE RESTORED = Required for PED and Construction phases and projects listed in paragraph II-2.13. The total ecosystem restoration cost in column 47 divided by the number of acres in column 48 expressed in \$100s per acre. This will be a calculated field and entered by the system.
- 50. NARRATIVE JUSTIFICATION. In approximately 100 words (489 characters) or less provide additional support for the ranking of the study/project. Items a-c must be provided in this order or enter NA as appropriate. Use a., b, and c, to refer to the individual items. Do not repeat the project description or text used to justify significance criteria scores.
- a. Legal requirements [specify, court orders or lawsuits, reasonable and prudent alternatives to avoid jeopardy, settlement agreements, etc.].
 - b. If mitigation included type of habitat being mitigated and number of acres.
 - c. For Inspection of Completed Works, list the projects to be inspected.

The following may be provided. Use the letters to denote which items have been included.

- d. Unresolved policy issues
- e. Other significant descriptors.
- f. Any other special factors that should be considered in ranking the project, such as urban area.

Significance. Items 51 – 63 are required for all items funded in the Investigations and Construction accounts and projects listed in paragraph II-2.13. Blank entries will equal zero. The scores for items 51, 53, 55, 57, 59, 61 and 63 (for projects in PED or Construction) will be totaled and serve as an indication of the significance of the proposed restoration. Only one option may be selected in each of these items. For example if the proposed project contributes to a national plan (10 points) as well as a state plan (2) points only 10 points may be entered. The first score is the maximum points available for each item. The basis for the ranking assigned for Habitat Scarcity, Connectivity, Special Status Species, Hydrologic Character, Geomorphic Condition, and Plan Recognition must be documented. The term "regional" is defined as involving two or more states; a state and comparable entity in Canada or Mexico; a state and a Tribe; two Tribes, an area of a size comparable to the previous items, or an area covered by an activity that has significant Federal legal and multi-agency support even though entirely within one state such as a Joint Venture area identified under the North American Waterfowl Management Plan, rather than a smaller geographic area. Justification for the scores should relate to the project outputs in the project description or narrative justification.

- 51. HABITAT SCARCITY AND STATUS = The scarcity of the habitat to be restored. This criterion is based on trend information and relative abundance of the habitat. All special aquatic sites as defined in the 404(b)(1) guidelines are nationally important and relatively scarce. This criterion is designed to identify habitats with exceptional regional or national scarcity. Restoration of a scarce habitat that was always scarce in the project area or one at the limits of its range, and is relatively stable at near historic abundance would rate zero. Scoring is as follows:
 - 25 = Nationally scarce habitat and becoming scarcer (declining trend) as demonstrated by a Federal, regional, or state/Tribal report, or general scientific agreement as documented by peer-reviewed professional publications/societies. The report must refer to the specific habitat type and preferably would also mention the region in which the project is located. This score may not be based on broad classifications of aquatic habitats such as wetlands that are recognized under programs such as the National Wetlands Inventory as declining
 - 18 = Regionally scarce and becoming scarcer as demonstrated by a Federal, regional, or state/Tribal report, or general scientific agreement as documented by professional publications/societies.
 - 10 = Nationally scarce and important habitat as demonstrated by a Federal, regional, or state/Tribal report, or general scientific agreement as documented by professional publications/societies. This score may be applied to broad classifications of aquatic habitats such as wetlands that are recognized under programs such as the National Wetlands Inventory as declining.
 - 5 = Other declining or scarce aquatic habitats.
 - 0 = A habitat type that is stable at natural levels or improving beyond natural levels.
- 52. Document the basis for the score in column 51 in 200 characters. Examples: 90% of (type of habitat) lost in x (size of or name of region) area since yyyy (year) as documented in... Examples of reports might be North American Waterfowl Mgt Plan documents and NOAA's Essential Fish Habitat documents. Additional potential sources may be found in "Significance in Environmental Project Planning: Resource Document" IWR Report 96-R-7 at

http://www.iwr.usace.army.mil/inside/products/pub/iwrreports/96r07.pdf. If species are cited as the

justification the score will be changed to zero. If no specific citation is provided the score will be changed to zero.

- 53. CONNECTIVITY = This criterion addresses the extent to which a project facilitates the movement of native species by contributing to the connection of other important habitat pockets within the ecosystem, region, watershed or migration corridor, or adds a critical component to an ecosystem or contributes to increased biodiversity. Scoring is as follows:
 - 25 = Project makes a critical direct physical connection between existing habitat areas within a corridor or larger landscape reducing population isolation, expanding home ranges, or providing access to areas supporting life requisites as recognized by or demonstrated by community or species models. An example would be restoring the connection between two pockets of what was once a larger wetland, or two patches of bottomland hardwood forest separated by drained agricultural land, or removal of a dam to open up additional habitat. For specific species, action provides critical life requisites (sites or habitats providing foraging, breeding or cover) that complete or expand the functionality of the system contributing to the stability of the species or population.
 - 18 = Project creates a nodal connection between existing habitat areas within a corridor (as in a waterfowl flyway) or larger landscape facilitating animal migration or flow of genetic material for a nationally or internationally recognized species. The project would not be physical adjacent to other habitat areas in the corridor but would be spaced such that it provides a critical resting/feeding or other link between two other habitat areas. Examples would be restoring a marsh resting area along a defined migration corridor for a specific species or group of species such as the sand hill and whooping cranes or the creation of horseshoe crab spawning habitat to provide foraging habitat supporting internationally migratory Redknots.
 - 10 = Project improves suitability of an existing connection or corridor; or expands functional area(s) within a splintered migratory corridor or home range; or provides an important scarce habitat type that complements adjacent exiting habitat types by providing one or more missing life cycle requisites for a number of species. For example, expanding or adding resting or foraging areas that improve the functionality or carrying capacity of the system.
 - 5 = Project provides a large expansion to an existing habitat increasing the carrying capacity of the system without substantially increasing the habitat or species diversity.
 - 0 = The project is an isolated unit or adds a relatively small increment to a much larger habitat. . For example, a project that takes advantage of an opportunity to restore a portion of a drained field or adds five acres to a 500-acre wetland.
- 54. Document the basis for the score in column 53 in 200 characters; such as: connect x National and y state wildlife areas, connect 5 tracts totaling x acres. Include a list of the primary species used to justify score. Failure to include documentation of the areas and species will lower the score five points.

- 55. SPECIAL STATUS SPECIES = The project must provide a significant contribution to some key life requisite within the potential range of a species to receive points in this category. The demonstrated presence or potential presence of a species of concern in the project area is not sufficient to justify a score above zero. Scoring is as follows:
 - 10 = Project provides habitat for life requisites that complete or add to existing life requisites within the project's area of influence or footprint for Federally listed or candidate threatened or endangered species as documented in FWCA/NMFS correspondence and/or Biological Assessment/Opinion as appropriate. In the reconnaissance or early Feasibility phase documentation may be an e-mail or MFR of a conversation, documentation of the results of a scoping meeting.
 - 5 = Project provides habitat for life requisites that complete or add to existing life requisites within the project's area of influence or footprint for species covered by international treaty, such as International Migratory Birds, that are of special concern or have special significance (typically would not include common or abundant species).
 - 3 = Project provides habitat for life requisites that complete or add to existing life requisites within the project's area of influence or footprint for State listed or candidate species.
 - 0 = None.
- 56. Document the basis for the score in column 55 in 200 characters by listing species and life requisite met (e.g. e.g. bald eagles/nesting habitat). Cite discussion with resource agencies responsible for managing the special status species in the project area. The discussion should be documented in an mfr or email. Cite a federal recovery plan if applicable. The species must have a demonstrated presence in the area or a strongly probability of a potential presence. Failure to include the species and life requisite provided will lower the score five points but to no less than zero.

Regarding Hydrologic Character and Geomorphic Condition since the goal of Corps ecosystem restoration projects is "to restore degraded ecosystem structure, function, and dynamic processes to a less degraded, more natural condition"; the project has in all probability been formulated with an implicit if not explicit target of achieving a more "natural" condition. Reference sites, historic stream gage data, the physical parameters required to restore and sustain the desired native habitat may be a means to define "natural" for each project.

- 57. HYDROLOGIC CHARACTER: This criterion recognizes the importance of appropriate hydrology in maintaining the ecological functions of aquatic, wetland, and riparian systems. The hydrologic character refers to the timing, magnitude, duration, frequency, and rates of change of the flows, water levels, and surface/subsurface exchange processes. Projects that restore and sustain the natural hydrologic "signature" of a system are more likely to provide sustainable environmental services. Scoring is as follows:
 - 15= Project fully restores the natural hydrology to the system or site, as demonstrated by appropriate analyses and/or data.
 - 10 = Project partially restores the natural hydrology to the system or site, and the restored hydrologic variables are demonstrated through appropriate analyses to overcome the factors causing impacts. This level of credit also applies to projects where measures have been identified and justified to address critical and unavoidable needs. Examples include pulsed

flooding that triggers critical life history behavior or flows of materials and nutrients between channel and floodplain but that doesn't replicate fully normative magnitude, duration, frequency, etc. and full ecosystem benefits obtaining thereof.

- 5 = Some elements of the system or site hydrology are restored but most conditions necessary for a more natural hydrology are not attained.
- 0 = The project does not address hydrologic restoration
- 58. Document the basis for the score in column 57 in 200 characters discussing which aspects restored and basis for the target condition.
- 59. GEOMORPHIC CONDITION: This criterion relates to the establishment of suitable structure and physical processes for successful restoration. The scale, form, and landscape position of the system, along with key processes such as erosion, sediment transport and deposition play a critical role in defining ecosystem health and resilience and must be considered in project development. System in the following criteria would only apply to large-scale projects such as Everglades or projects with a substantial impact on a smaller watershed (possibly Duwamish River). Most projects will be evaluated at the site level. Scoring is as follows:
 - 15= Project fully restores the natural or attainable geomorphic processes and form to the system or site, including the appropriate diversity and dynamics, as demonstrated by suitable analyses and/or data.
 - 10 = Project restores the key geomorphic processes to the system or site, and the system is expected to recover full ecological function within an appropriate timeframe. This level of credit also applies to projects where measures have been identified and justified to address critical and unavoidable needs. Examples include sediment amendments or large woody debris insertion below dams.
 - 5 = The form of the project location or system is restored, but some key system processes remain degraded or non-functional. (An example might be restoration of an oxbow on a stream that is not allowed to meander naturally.)
 - 0 = The project does not address geomorphic restoration.
- 60 Document the basis for the score in column 59 in 200 characters discussing which aspects restored and basis for the target condition.
- 61. PLAN RECOGNITION = This criterion recognizes Corp ecosystem restoration projects that contribute to watershed or basin plans as emphasized in the "Civil Works Strategic Plan". This criterion ranks the importance of the plan that the Corps project supports. Recovery plans may not be used as a basis for a score. Scoring is as follows:
 - 10 = A Corps study or project that contributes to a multi-agency comprehensive watershed or basin plan developed in support of Federal priorities as demonstrated in laws or specifically authorized programs such as; Everglades, CALFED, Chesapeake Bay plan, etc.

- 5 = A Corps study or project that contributes to a multi-agency regional watershed or basin plan. Examples of this would include plans developed by groups such as the Delaware Basin Commission, or plans pertaining to Joint Venture Areas under the National Waterfowl Management Plan.
- 2 = A Corps study or project that contributes to a State/Tribal or local watershed or basin plan.
- 0 = A Corps project that does not contribute to any collaborative comprehensive or watershed or basin plan.
- 62. Document the basis for the score in 60 in 200 characters. Include the name and date of plan used as the basis of the score.
- 63. SELF-SUSTAINING = This requirement applies to only the PED and Construction phases. Enter NA for Reconnaissance and Feasibility phases. The ideal goal of most restoration is a self-sustaining ecosystem consisting of natural processes. The cost of the average annual O&M per acre (using the number of acres in column40) will be used as an indicator of the level of human intervention needed to maintain the restoration outcome. The most recent cost estimates or the actual costs of O&M (if greater than the latest estimate) will be used in this calculation. Scoring is as follows:
 - 20 = Low relative O&M costs. The average annual O&M cost per acre must be \$15.00 or less.
 - 10 = Medium relative O&M costs. The average annual O&M cost per acre is greater than \$15.00 but less than \$100.00.
 - 0 = High relative O&M costs. The average annual O&M cost per acre equals or exceeds \$100.00.
- 64. TOTAL SCORE = The sum of the scores entered in columns 51, 53, 55, 57, 59, 61, and 63. P2 will auto fill.
- 65. NATIONALLY SIGNIFICANT = If the study/project received the highest score possible in the Scarcity, Connectivity, and Special Status Species columns, and at least a 5 in Plan Recognition then P2 will enter a "Y" for yes in this column. If this criterion is not met an "N" for no will be entered.
- 66. REGIONALLY SIGNIFICANT If the study/project received at least the second highest score in Scarcity, Connectivity, Special Status Species and Plan recognition columns, then P2 will enter a "Y" for yes in this column. If this criterion is not met an "N" for no will be entered.
- 67. NUMBER OF INSPECTIONS = This item is to provide for funds to inspect completed ecosystem restoration projects and ecosystem restoration features of multi-purpose projects. These funds will be in the O&M account. The work category code is 60422. See subannex C-4 "Work Category Codes and Definitions O&M Operations Accounts" in Annex C, for the full definition of "Inspections of Completed Work, Ecosystem Restoration. This was a new funding category for FY 2007. Districts will enter amounts in P2 in the same manner used for Inspection of Completed Works for Flood Damage Reduction. Enter the number of ecosystem restoration projects or features that will be inspected with the amount requested. This category is not for inspection of features completed as mitigation. The CCS is 640. The P2 Program Number is 081816.

- 68. OUTPUT OF BUDGET ITEM. In 60 words (300 characters) or less indicate what the FY 2009 budget amount accomplishes. For example: initiate or complete a study, contract, or project; reduce the study time x months; or contract work more efficiently, or link to other work in watershed more efficiently. This is where the phase or stage of a project or separable element should be mentioned; such as initiate stage 2 of 3 of phase 3 of 3.
- 69-73. These five columns are required for PED and Construction and projects listed in paragraph II-2.13. This data is required so that we will have a basis for stating how our budget relates to the President's wetland goals. The Council on Environmental Quality definitions of the terms in the column headings will be used. These definitions are found in Table II-2-4. The acres should be wetland acres as identified from the habitat types (Table II-2-3) entered in the project description. A project or separable element may report acres in more than one of these columns. Acres should be entered in whole numbers.
- 69. Acres Established.
- 70. Acres Restored.
- 71. Acres Rehabilitated
- 72. Acres Enhanced
- 73. Acres Protected

Table II-2-4
Council on Environmental Quality Wetlands Accomplishment Definitions

Accomplishment	Results	Definition
Restore or create	Results in a gain of wetland acres	Creation of wetlands that did not previously exist on an upland or deepwater site. These actions are referred to as "establishment" by the White House Wetlands Working Group (WHWWG). Restoration of a former wetland to its natural/historic function and resulting value. Typically, such a former wetland had been drained for some purpose. These actions are known as "reestablishment" by the WHWWG.
Improve	Results in a gain of wetland functions or quality, rather than additional acreage	Repair of the natural/historic functions and associated values of a degraded wetland. The WHWWG refers to these actions as "rehabilitation" of wetlands. Rehabilitation results in a gain in wetland quality. Heightening, intensification, or improvement of one or more selected functions and associated values. The WHWWG called these types of actions "enhancement." Enhancement is undertaken for a purpose such as water quality improvement, floodwater retention, or wildlife habitat. Enhancement results in the gain of selected wetland functions and associated values but may also lead to a decline in other wetland functions and values.
Protect	Preserves acreage but does not result in an addition of acres.	Acquisition of land or easement of at least 30 years duration.

Illustration II-2-1 Sample Spread Sheet Ecosystem Ranking Criteria and Additional Data

Revised spreadsheet for FY 09



Illustration II-2-2 Habitat Types and Codes to be Used for Ecosystem Restoration



Apr 07 Habitat.xls

Sub-Appendix II-3 ENVIRONMENT-STEWARDSHIP

- II-3.1. **Introduction.** The Corps is responsible for the management of 515 existing water resources projects located in 43 states. Each project's construction and operation is authorized under unique authorities for single or multiple-purposes such as navigation, flood control, hydropower, fish and wildlife, recreation and water supply. Included in those authorized projects and entrusted to Corps stewardship are streams, rivers, lakes, and their adjacent lands totaling nearly 12 million acres and nearly 56,000 shoreline miles. In operating and maintaining its multi-purpose projects, the Corps integrates the management of the existing diverse natural resources (such as fish, wildlife, forests, grasslands, wetlands, soil, air, water) and cultural resources, with the provision of recreation opportunities. Guidance for accomplishing stewardship activities may be found in ER 1130-2-540. As a matter of law and good environmental practice, the Corps provides stewardship of its projects lands and waters to sustain healthy natural resources and cultural resources that occur on this federal estate and takes action to minimize adverse environmental impacts. The Environment-Stewardship vision is to provide healthy project lands and waters for future generations.
- II-3.2. **Purpose.** The Corps Environment-Stewardship (E-S) mission is to manage, conserve and/or protect the natural and cultural resources at Corps operating water resources projects, consistent with project authorities and ecosystem sustainability approaches; consistent with the USACE Environmental Operating Principles; to meet environmental standards; and to serve the needs of present and future generations. Environment-Stewardship provides management of natural and cultural resources to achieve healthy, sustainable conditions, and fosters healthy lands and waters by balancing public uses and needs.

II-3.3. Goals, Objectives, and Performance Measures.

a. Environment-Stewardship seeks to fulfill the Civil Works (CW) goal to ensure that projects perform to meet authorized purposes and evolving conditions. Table II-3-1 displays the Environmental Stewardship Objectives and Performance Measures described in the Civil Works Strategic Plan for FY 2004 – FY 2009, dated March 2004. Preparation of the FY 09 budget request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures. Table II-3-2 displays the FY 09 Stewardship objectives and performance measures which support and/or supplement the Civil Works Strategic objectives (Table II-3-1) and performance measures, to reflect the near term realities of a constrained FY 09 budget environment.

TABLE II-3-1					
Civil Works Strategic Plan Objectives and Performance Measures*					
Environmental Stewardship Objectives	Performance Measure				
Ensure healthy and sustainable lands and waters associated with natural resources on Corps lands held in public trust, to support multiple purposes.	Percent of acres with completed natural resources inventories.				
Protect, preserve, and restore significant ecological resources in accordance with Master Plans.	Percent of projects requiring Master Plans in accord with current regulations.				
Ensure that the operation of all Civil Works facilities and management of associated lands complies with the environmental requirements of all relevant Federal, State, and local laws and regulations.	Percent of all significant findings corrected annually. Percent of all identified major findings corrected annually.				
Meet the mitigation requirements of authorizing legislation or applicable Corps decision document.	Percent of Corps administered mitigation lands (acres) that meet the requirements in the authorizing legislation or relevant Corps of Engineers decision document Percent of completed projects that have successfully met mitigation goals.				

^{*} From the FY 04-09 Civil Works Strategic Plan, dated March 2004. See Table II-3-2 for the adjusted FY 09 budget-linked objectives and performance measures to be used in development of the FY 09 E-S budget.

b. Our ability to accomplish the Environment-Stewardship objectives depends heavily on certain key factors that are the focus of the FY 09 budget-linked objectives and performance measure outputs as presented in Table II-3-2. The key factors associated with accomplishing E-S objectives include that basic information must be available about the natural resources that exist on Corps operating projects. Further, there must be some evaluation of the condition and significance of those resources, at the project and within the watershed ecosystem -- to manage them effectively and efficiently, and to comply with the law and other resource protection mandates, such as legislatively authorized mitigation and Endangered Species Act mandates. Additionally, significant cultural resources that occur on project lands must be managed in accord with several federal protection mandates. Also, project Master Plans, which guide the manager in making informed and wise decisions on project land use proposals, must be up-to-date and in accord with regulation (ER and EP) 1130-2-550. (This regulation and guidance requires that Master Plans include a land classification that designates environmentally sensitive areas and include meaningful natural resources management objectives. The Master Plan promotes the identification, protection, conservation and sustainability of natural resources.) To build a highly effective and efficient budget, performance measures are utilized to attribute priority to that work which contributes to accomplishing the E-S objectives and results.

TABLE II-3-2						
FY 09 Environment-Stewardship Budget-Linked Objectives and Performance Measures						
Budget-Linked Objectives	Performance Measure					
Assure compliance with natural resources	Mitigation Compliance - Percent of total Corps					
environmental mandates and legal requirements	administered mitigation acres, or percent of total required pounds/or individuals of mitigation fish produced, that meet the requirements in the authorizing legislation or applicable Corps authorization decision documents.					
	Endangered Species Protection - Percent of Corps operating projects with federally listed species for which the Corps is meeting Endangered Species Act requirements or responsibilities.					
Protect and preserve cultural resources	Cultural Resources Management - Percent of Corps operating projects that meet federally mandated cultural resources management responsibilities.					
Ensure healthy and sustainable natural resources conditions.	Healthy and Sustainable Lands and Waters – Percent of total Corps fee-owned acres that are classified as in healthy and sustainable condition.					
	Level One Natural Resources Inventory Completion - Percent of total acres requiring Level One Natural Resources Inventory for which the Level One Natural Resources Inventory is complete.					
Balancing public uses of natural resources	Master Plan Completion - Percent of total projects requiring Master Plans for which the Master Plans are completed in accord with ER 1130-2-550.					

c. Full descriptions of the FY 09 Environment-Stewardship budget-linked performance measures are provided in Illustrations II-3-1 to II-3-6.

II-3.4. Environment-Stewardship Program Development – General Instructions.

a. The Environment-Stewardship budget will be performance-based. It will be built by the development of incrementally justified budget packages for prudent work, categorized by work category code (See Annex C of this EC, sub-annex C-4 "Work Category Codes and Definitions – O&M Operations Accounts" for current codes) that realistically may be accomplished during the budget year and that provides quantifiable, efficient, and increased outputs toward the current E-S performance measures. Each included budget package will provide quantified outputs toward a single primary performance measure that reflects the primary reason why the budget package is justified and the category of outputs

anticipated from the work. So that stand-alone decisions may be made, each proposed budget package will consider and include all the costs (i.e. of the primary, as well as supporting, activities) that are necessary to accomplish the proposed work and result in performance output.

- b. Joint Activities Joint Costs. See guidance provided in Sub-Annex C-2, paragraph C-2.3.b.
- c. Environment-Stewardship Budget Evaluation System (E-S BEST) and P2.
- (1) E-S BEST is a web-based tool developed for field use in calculating Environment-Stewardship performance measure outputs for stewardship O&M activities and budget packages. E-S BEST must be used in developing the FY 09 E-S budget. E-S BEST will use data extracted from OFA and supplemental information provided by the project to calculate a value for each budget package's performance measure output. Using these measures, E-S BEST will facilitate ranking of all E-S budget packages at the District, Division, and HQ levels. For the FY 09 budget development, all budget and performance information entered in E-S BEST for FY 08 can be pre-populated into the FY 09 process unless the users choose not to. A 3% inflation rate will also be applied to all budget packages that are pre-populated from the FY 08 development to compensate for increase in O&M costs. Most projects should take the advantage of retrieving data from the previous year in E-S BEST and review/update the existing budget packages in E-S BEST instead of creating new ones. Work category codes used in budget packages should also be confirmed to assure work is accurately characterized. See Sub-annex C-4 of this EC for current codes.
- (2) The performance measure information must be updated in E-S BEST by 1st June, 2007. These performance data will be extracted from E-S BEST and then merged with budget data extracted from P2 Primavera Project Manager in OFA. In the case where budget information has not been entered into P2 Primavera Project Manager, both budget and performance information will be extracted from E-S BEST and uploaded into P2 OFA. When entering budget information into P2 Primavera Project Manager, make sure the corresponding BEST ID's are entered for all budget packages to ensure the proper performance measures can be matched in OFA. For most projects, the preliminary budget information and the matching BEST_ID's can be carried over from previous year's data entry in P2 or should be taken from the existing E-S BEST database. For projects that start FY 09 budget development in E-S BEST first, you should provide the budget information to your P2 correspondent for data entry in P2 before the deadlines set by the district/division (must do this to get the BEST_ID if this is a new package for FY 09), to allow districts and MSC to review and evaluate their budgets comprehensively, across business lines. For projects that enter the budget directly into P2 based on FY 08 E-S BEST budget package information. make sure to revise your E-S BEST budget information accordingly. For either option, you must enter the matching BEST ID when entering budget information in P2. The information needed to provide your P2 correspondents for data entry is available on the P2 summary page in E-S BEST. See Illustration II-3-7 of this Appendix for the FY 09 Environment-Stewardship Budget Development Work Flow diagram.
- (3) Additional OFA uploads will be done on district or MSC request to the E-S BEST technical team at ERDC. As the budget review continues, necessary changes to E-S budget data will be coordinated and made in E-S BEST, with subsequent uploads to OFA as necessary. E-S BEST, along with directions for its use, may be accessed through the NRM Gateway at http://corpslakes.usace.army.mil/employees/esbest/esbest.html.
- (4) To maintain the integrity of the E-S budget development process, the structure of stewardship increments in E-S BEST is fundamentally the same as the FY 08 process. However, to achieve consistency with the overall O&M program structure and to meet the requirement for entering budget information into P2, the E-S BEST budget increments should be matched in P2 according to Table II-3-3. That is, the E-S BEST Minimal program increment will be entered in P2 as increment 1; all E-S BEST "Critical" Sustaining program Increment budget packages (for remaining-critical and must-dos), along with

budget packages in *E-S BEST* 'Non-Critical" *Sustaining* program that will sustain performance for future benefits and support meeting performance targets (these packages will be given a special identifier in E-S BEST) will be entered into P2 as increment 3; and all the other *Capability* or enhanced packages in *E-S BEST* will be entered in P2 as increment 4. There is no change on the BEST_ID's. The BEST_ID numbers should still be entered into P2 as the way they are in E-S BEST.

TABLE II-3-3 Budget Increments Reference Table between E-S BEST and P2					
E-S BEST Increment	P2 Increment				
Minimal Increment - critical, time-sensitive, least-cost activities to meet the minimum legal mandates, environmental requirements, to prevent the loss of significant natural and cultural resources, and to meet minimum project operating and safety requirements of the budget year (within the MSC minimal program dollar limit of 75% of the 5-year average of O&M President's budget by MSC)	Increment 1 (critical routine activities)				
"Critical" Sustaining Increment – remaining critical, time-sensitive, least cost type work that exceeds the Minimal increment dollar limit	Increment 3 (sustain expected future benefits of project and support the target level output/service)				
"Non-Critical" Sustaining Increment – sustain expected future benefits and recommended to meet targeted performance levels					
Capability Increment – enable greater levels of performance in future years, expected high return on investment	Increment 4 (capability or enhanced) enable greater levels of performance in future years)				

- d. Well-Written Budget Package Descriptions and Funding Arguments. In this performance based budget, every E-S budget package must relate to an increase in program performance or results. These linkages must be clear to all levels of reviews, both internal and external (e.g., OMB or Congress) to the Corps. Care should be taken to write all budget package descriptions clearly and concisely so that the reader can understand and appreciate the work for which funds are being requested. Well-written justifications are essential to convince reviewers who are not familiar with the work to fund your needs.
- e. Each budget package will be assigned to one of the E-S incremental funding categories based on the performance measure output criteria and ranking factors specified for each increment. These criteria and ranking factors are described in the paragraphs that follow. Budget packages assigned in the described increments will be used to develop the HQ proposed Civil Works Initial, Recommended and Capability programs.
- II-3.5. **Budget Increments for Environment-Stewardship.** Please reference the definitions and guidance concerning O&M program Increments in the Project Operations and Maintenance Sub-Annex C-2 of this EC. The Environment-Stewardship budget increments are generally aligned with the overall O&M increment structure. However, the utility of Increment 2 as described in the O&M structure is not very meaningful for the E-S program. Therefore, a separate Increment 2 for E-S (that corresponds with the O&M increment descriptions) will not be built. Those critical, time-sensitive, minimal program level

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budget packages (for both routine and non-routine activities) will be combined into one increment for consideration in building the minimal E-S program. The minimal E-S program is defined as the E-S portion of the MSC minimal program. The total amount of the minimal E-S program must be assigned to Increment 1 in P2 and must be within the MSC minimal program limit (75% of the amount in Table C-2.2 by MSC). The E-S increments are defined by the type of work proposed in each, by outputs toward the current E-S performance measures (Table II-3-2) as assessed by performance measure output criteria, and by the priority work contained in each increment, as assessed through ranking factors. Each increment will include budget packages that must provide justified and quantifiable outputs toward one or more of the current performance measures. All six-performance measures apply through each increment; however, the performance measure output criteria and ranking factors vary. These are described specifically in paragraph II-3.6. General descriptions of each of the Environment-Stewardship Increments follow in the paragraphs below.

- a. **Minimal Program Increment**. Each MSC will build an Environment-Stewardship minimal program budget that is based on performance measure outputs and that includes the least amount of funding necessary to accomplish only those critical and time-sensitive (must be performed in FY 2009) project work efforts that are necessary to meet the minimum legal mandates, environmental requirements, to prevent the loss of significant natural and cultural resources, and to meet minimum project operating and safety requirements of the budget year. This Increment should provide the greatest benefit for the investment, based on performance measure outputs. This Increment will seek to avoid violation of: legal mandates for natural and cultural resources stewardship, environmental compliance, operation, and safety. Work and funding included in this Increment will define the minimal Environment-Stewardship program for the budget year and will be assigned to Increment 1 in P2.
- b. Sustaining Program Increment. This increment is to incorporate those budget packages that are beyond the Environment-Stewardship minimal program funding level and that are to sustain the expected future benefits of the project and support meeting targeted levels of performance. Budget packages included in this Increment must be performance based and provide quantified and increased output (in addition to the minimal increment) toward one or more of the E-S performance measures. The sustaining program increment will be prioritized for relative effectiveness and efficiency in accomplishing the performance objectives and outputs, and will realistically reflect work that can be accomplished or necessary funds that can obligated in the budget year, and as applicable, realistic financing capability on the part of non-Federal sponsors. As fiscal constraints dictate and efficient performance outputs justify, budget packages of this increment will be evaluated in developing the HQ Civil Works E-S Recommended and Capability level programs for the budget year. Budget packages in the Sustaining increment will include as high priority those remaining "critical", time-sensitive, least-cost activities that meet the description and work type criteria of Minimal program increment, but that were not included in that increment due to the MSC minimal program amount limitation. Additionally, this increment will include above minimal budget "non-critical" packages that sustain the expected future benefits of the project and that directly support the achievement of targeted levels of performance, through prudent, realistic, and efficient operation, management and maintenance of project natural and cultural resources. In most cases, activities in this increment will support continuing the level of service that customers, stakeholders, and others have come to expect and depend on for sustaining public safety, and economic, environmental and social benefits. Budget packages in the Sustaining Program Increment will be assigned to Increment 3 in P2.
- c. **Capability Program Increment.** This increment shall include activities and associated budget packages that have a high expected return on investment that enable greater levels of performance in future years. Budget packages in this increment will be evaluated in developing the HQ Civil Works E-S Capability Program and will be assigned to Increment 4 in P2.

- II-3.6. **Performance Measure Output Criteria and Ranking Factors by Increment.** All six-performance Environment-Stewardship performance measures apply through each increment; however, the performance measure output criteria and associated ranking factors for budget packages vary. Below, the overall outputs to be achieved are described for each performance measure, followed by the more specific performance output criteria and budget package ranking factors that are applicable in each E-S budget Increment. Budget packages in any increment must meet one or more of the performance output criteria for that increment. It is not necessary however to build or include budget packages for every performance measure in each increment. Build and include only those that are applicable to the project. Each budget package will be developed and assigned in E-S BEST to a single E-S performance measure, and in a single appropriate E-S increment in accord with the following.
- a. **Mitigation Compliance**. Budget packages are for operations, management and maintenance requirements identified and/or specified in project authorization legislation or project authorization decision documents, that are necessary to mitigate for adverse impacts to ecological resources unavoidably induced by Corps project construction or operation. See Illustration Il-3-1. (Note: since mitigation can occur on other than fee-owned land, no land ownership criteria are fixed to the location of outputs toward this performance measure as long as there is an authorized Corps obligation.) "Mitigation" considered under this performance measure does not include compensatory requirements that result from routine real estate out-grant actions or routine O&M actions. The "Mitigation Compliance" performance measure will be assigned in E-S BEST to those budget packages that provide this output. The amount of mitigation performance output to be generated by "Mitigation Compliance" budget packages (e.g. number of mitigation acres directly affected, number of pounds or individuals of fish produced, etc.) will be recorded in E-S BEST.
- (1) **Mitigation Compliance** Minimal Increment is for critical, time-sensitive (must be performed in the budget year), least-cost mitigation compliance work that may be accommodated within the total MSC minimal program dollar limit (see Sub-Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages for:
 - specifically authorized mitigation work necessary in the budget year.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - for the operations, management and maintenance of essential work as required by Congressional authorization or HQ approved project authorization decision document;
 - that maximize efficiency of funds invested for this purpose.
- (2) **Mitigation Compliance** Sustaining Increment is for above the minimal program mitigation compliance operations and maintenance activities to sustain expected future benefits and levels of service of, and to achieve performance targets of, mitigation outputs.
 - (a) Performance Output Criteria. Include budget packages:
 - that meet the same output criteria listed for minimal increment 1 of this measure (these packages can not accommodated in the minimal increment due to MSC minimal program limit):
 - for inventory techniques and practices beyond a required evaluation that support operations, management and maintenance requirements that are necessary for the project to manage authorized fish and wildlife mitigation activities and facilities.
 - (b) Ranking Factors: Priority should be given to budget packages:
 - that respond to same ranking factors as in the minimal increment of this measure;

- for recommended practices included and described in approved Corps Feature Design Memoranda or other project authorization decision documents, or Operational Management Plans:
- that maximize efficiency of funds invested for this purpose.
- (3) **Mitigation Compliance Capability Increment** will include budget packages for work that is beyond mitigation compliance requirements and beyond activities which directly support the current management of mitigation activities and facilities. Budget packages in this increment are expected to enable greater levels of performance in future years and have a high expected return on investment in future years.
 - (a) Performance Output Criteria. Include budget packages for:
 - that enhances or enables greater levels of mitigation performance in future years.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that maximize efficiency of funds invested for this purpose.
- b. **Endangered Species Protection.** Budget packages are for operations, management and maintenance requirements necessary to comply with Endangered Species Act (ESA) requirements and for the protection of endangered and threatened species that occur on the project lands or that are impacted by project operation. See Illustration II-3-2. The "Endangered Species Protection" performance measure will be assigned in E-S BEST to budget packages that are to accomplish these outputs. Budget packages will indicate the least amount of funding necessary to accomplish the work in the budget year.
- (1) **Endangered Species Protection** Minimal Increment is for critical, time-sensitive (must be erformed in the budget year) and least-cost endangered species protection work that may be accommodated within the total MSC minimal program dollar limit (see Sub-Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages:
 - to conduct the necessary Endangered Species Act (ESA) coordination/consultation activities for project operation;
 - to implement required "reasonable and prudent alternatives" (to avoid likely "jeopardy" or adverse critical habitat modification to federally listed species) or non-discretionary "reasonable and prudent measures" (outlined in incidental take statements);
 - to implement other mandatory items specified in an applicable Final ESA Biological Opinion (Note: Do not include funding for the implementation of mitigation, or conservation recommendations, or other discretionary measures identified as a result of ESA consultation);
 - that implement essential management practices on Corps fee-owned properties, for Federally-listed endangered or threatened species on Corps fee-owned properties (i.e. species that are not otherwise protected by "reasonable and prudent alternatives" and/or non-discretionary "reasonable and prudent measures") to avoid direct adverse impacts to the species or their habitat, in the budget year.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - for federally listed endangered or threatened species with Final Biological Opinions;
 - for federally listed endangered or threatened species with Draft "Likely Jeopardy" Biological Opinion;
 - for other federally listed endangered or threatened species:
 - that maximize efficiency of funds invested for this purpose.

- (2) **Endangered Species Protection** Sustaining Increment is for above the minimal program endangered species protection operations and maintenance activities to sustain expected future benefits and levels of service of, and to achieve performance targets of, of endangered species protection outputs. As priority, budget packages included in this increment will result in the complete operations, management and maintenance of project endangered species protection requirements of the budget year.
 - (a) Performance Output Criteria. Include budget packages:
 - that meet same output criteria listed for the minimal increment of this measure (these packages are not accommodated in the minimal increment due to MSC minimal program limit);
 - for research, monitoring or modeling required beyond evaluation to support the operations, management and maintenance requirements necessary for the project to implement "reasonable and prudent" project operation alternatives, or measures, on Corps fee-owned properties - as specified in Final ESA Biological Opinions, Final Recovery Plans, Feature Design Memoranda, Operational Management Plans, or other decision documents relating specifically to a particular operating facility;
 - to implement Conservation Measures for federally listed species as described in Biological Opinions issued to the Corps by the U.S. Fish and Wildlife Service, and/or the National Marine Fisheries Service (USFWS/NMFS);
 - to implement protection practices for State listed endangered or threatened species to prevent the adverse impact to such species.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that respond to same ranking factors as in the minimal increment of this measure;
 - or federally listed endangered or threatened species with a final Biological Opinion;
 - for federally listed endangered or threatened species with Final Recovery Plans.
 - for state listed endangered or threatened species;
 - that maximize efficiency of funds invested for this purpose.
- (3) **Endangered Species Protection** Capability Increment will include budget packages for work that is beyond ESA compliance requirements for current federally listed endangered or threatened species or beyond work that directly sustains the implementation of Endangered Species protection activities or requirements. Budget packages in this increment are expected to enable greater levels of endangered species protection performance and have a high expected return on investment in future years
 - (a) Performance Output Criteria. Include priority budget packages:
 - that enhance endangered species protection activities.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - for federally listed endangered or threatened species
 - for state listed endangered or threatened species:
 - that maximize efficiency of funds invested for this purpose.
- c. **Cultural Resources Management**. Budget packages are for operations, management and maintenance requirements to meet federally mandated responsibilities for the management of significant cultural resources. Authorities include, but may not be limited to, Sections 106 and 110 of the National Historical Preservation Act (NHPA), Section 3 of the Native American Graves Protection and Repatriation Act (NAGPRA), and Sections 4 thru 9 of the Archeological Resources Protection Act (ARPA). The term

"significant cultural resources" means "historic property" as defined in Section 301 of NHPA and "inadvertent discoveries" as defined in Section 3 of NAGPRA; and "archeological resources" as defined in section 3 of ARPA. See Illustration II-3-3. The "Cultural Resources Management" performance measure will be assigned in E-S BEST to budget packages that are to accomplish these outputs. Budget packages will indicate the least amount of funding necessary to accomplish the work in the budget year.

- (1) **Cultural Resources Management** Minimal Increment is for critical, time-sensitive (must be performed in the budget year) and least-cost cultural resources management work that may be accommodated within the total MSC minimal program dollar limit (see Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages:
 - to prevent imminent threats to historic properties as defined in NHPA Section 301, inadvertent discoveries as defined in NAGPRA Section 3 and archeological resources having religious or cultural significance as defined in ARPA Sections 3 and 4 through preservation and protection or by implementing appropriate mitigation measures;
 - to complete the NHPA Section 106 "process", tribal consultation and coordination, law enforcement and other management measures identified in statutory, regulatory, and operational management directives.
 - to complete requirements for specific cultural resources surveys, testing, evaluation, analysis needed prior to the initiation of critical O&M work.
 - to house and curate archaeological collections to the standards outlined in 36 CFR Part 79 (Curation of Federally-Owned and Administrated Archaeological Collections).
 - (b) Ranking Factors. Priority should be given to budget packages:
 - for National Register of Historic Places (NRHP) listed resources on Corps fee-owned property);
 - for existing curation contracts that continue to meet 36 CFR Part 79.
 - for NRHP listed resources on Corps administered, less-than-fee owned, properties;
 - · for resources eligible for listing on the NRHP;
 - for required activities in support of the OMP proposed development or proposed land disturbances:
 - for work that completes the development a project HPMP during the budget year;
 - that maximize efficiency of funds invested for this purpose.
- (2) **Cultural Resources Management** Sustaining Increment is for above the minimal program cultural resources management activities to sustain expected future benefits and levels of service of, and to achieve performance targets of, project cultural resources management outputs. As a priority, budget packages in this increment will result in the complete operations, management and maintenance of the project cultural resources management mandates of the budget year.
 - (a) Performance Output Criteria. Include budget packages:
 - that meet same output criteria as listed for the minimal increment of this measure (these packages are not accommodated in the minimal increment due to MSC minimal program limit);
 - to manage cultural resources properties of unknown NRHP eligibility, but may still have consideration under various statutory authorities.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that respond to same ranking factors as in the minimal increment of this measure;
 - to implement work on Corp fee-owned properties;
 - that are in support of and in accord with the project OMP;

- to prepare a Historic Property Management Plan;
- that maximize efficiency of funds invested for this purpose.
- (3) **Cultural Resources Management** Capability Increment will include budget packages for work that is beyond mandated cultural resources management but that enhances the management of cultural resources. Budget packages in this increment are expected to enable greater levels of performance in future years and have a high expected return on investment in future years.
 - (a) Performance Output Criteria. Include budget packages for:
 - work enhances efficiency in responsible management of cultural resources.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - for cultural resources on Corps properties;
 - that maximize efficiency of funds invested for this purpose.
- d. **Healthy and Sustainable Lands and Waters.** Budget packages are to improve and or maintain specific or general conditions for natural resources on Corps fee-owned lands such that those acres will be moved from a "degraded" or "transitioning" condition, to a condition that is classified as healthy and "sustainable". See Illustration II-3-4. The "Healthy and Sustainable Lands and Waters" performance measure will be assigned in E-S BEST to budget packages that are to accomplish these outputs. Budget packages will indicate the least amount of funding to accomplish work in the budget year.
- (1) **Healthy and Sustainable Lands and Waters** Minimal Increment is for critical, time-sensitive (must be performed in the budget year) and least-cost healthy and sustainable land and water resources activities that may be accommodated within the total MSC minimal program dollar limit (see Sub-Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages necessary:
 - to accomplish essential routine and basic stewardship functions for the protection of project natural resources on Corps fee-owned acreage;
 - to protect Corps fee-owned lands and waters against encroachments and imminent loss of significant natural resources (including soils, vegetation, and animal species) due to erosion, wildfire, pest outbreaks, trespass, or human activities and/or environmentally induced events (e.g. include activities such as minimal boundary monitoring/surveillance, essential evaluation of and response to land use requests such as road or utility right-of way requests by non-Corps entities, compensation requirements resulting from routine real estate out grants and routine O&M actions, fire/pest prevention, timber theft monitoring; fish and wildlife sustainability practices such as counts, evaluation and/or monitoring);
 - to provide safe and efficient passage, collection, and/or transportation for adult and/or juvenile
 fish at multi-purpose Corps facilities as required in authorizing legislation and/or a relevant HQ
 approved decision document (e.g. fish passage facilities operation, water quality monitoring as
 required for fish health and safety, and transportation of fish) [DO NOT INCLUDE the costs
 of Mitigation or ESA compliance activities related to fish passage, collection and or transport.
 Instead, use the Mitigation Compliance or Endangered Species Protection measure.]
 - to operate project facilities directly related to the stewardship of natural resources;
 - to provide oversight and coordination of environmental stewardship activities related to the management of the Shoreline Management Program.

- (b) Ranking Factors. Priority should be given to budget packages:
- that benefit projects with higher total numbers of Shoreline Use Permits and/or Real Estate outgrants currently in effect;
- that achieve significant progress in moving fee-owned lands from a "degraded" to "transitioning" status (see Illustration II-3-4);
- that protect environmentally sensitive areas that are designated in accord with ER/EP 1130-2-550 and that are identified in the project Master Plan;
- that directly controls, eradicates or prevents the introduction of, invasive species populations;
- that directly benefit significant species not otherwise protected by legislated mitigation or ESA measures that are identified in project authorization documents and that are significantly susceptible to loss in the budget year;
- that maximize efficiency of funds invested for this purpose.
- (2) **Healthy and Sustainable Lands and Waters** Sustaining Increment is for above the minimal program healthy and sustainable lands and waters operations and maintenance activities to sustain expected future benefits of, and achieve performance targets of ,this performance output. Budget packages will result in the prudent and recommended operations, management and maintenance of project natural resources for the budget year that prevent decline in resource condition or safety, or move those resources toward a healthy and sustainable, and safe condition.
 - (a) Performance Output Criteria and Ranking Factors. Include budget packages:
 - that meet same output criteria as listed for the minimal increment of this measure (these packages are not accommodated in the minimal increment due to MSC minimal program limit);
 - to implement management practices to meet operational goals and objectives presented in project Master Plan and Operations Management Plan (OMP) for Corps fee-owned properties (e.g. shoreline management planning, boundary maintenance, preparation of the OMP, evaluation of land use requests, fire or pest management, comply with federal natural resources protection laws);
 - that will fulfill any additional requirements deemed necessary for meeting the fish passage criteria as outlined in a Corps approved fish passage plan;
 - to implement management practices to meet operational goals and objectives presented in project OMP for Corps easement properties;
 - for any discretionary activities, conditions and facilities requested by US Fish and Wildlife Service, National Marine Fisheries Service and/or a State that are in accord with a HQUSACE approved final decision document.
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that respond to same ranking factors as in the minimal increment of this measure;
 - to prevent natural resources degradation or loss;
 - to protect environmentally sensitive areas designated in accord with ER/EP 1130-2-550 and identified in the project Master Plan;
 - for work accord with the recommended schedule and management practices prescribed in the project OMP or Corps approved fish passage plan;
 - · for special status species;
 - for work to be accomplished in partnership with public or private entities that result in leveraged resources (e.g. challenge partnerships);
 - that maximize efficiency of funds invested for this purpose.
- (3) **Healthy and Sustainable Lands and Waters** Capability Increment will include budget packages for natural resources management activities considered at a capability or enhanced level.

These budget packages enable greater levels of performance in future years and have a high expected return on investment in future years.

- (a) Performance Output Criteria. Include budget packages:
- to enhance the condition of project lands and waters
- (b) Ranking Factors. Priority should be given to budget packages:
- that maximize efficiency of funds invested for this purpose.
- e. Level One Natural Resources Inventory Completion. Budget packages are for operations, management and maintenance requirements to complete components (Vegetation, Wetlands, Project Land (Soils) Capability and Special Status Species) of the Level One Natural Resources Inventory. The minimum Level One Natural Resources Inventory, including the above components, is required on Corps fee-owned properties in accordance with ER 1130-2-540, to develop natural resource management objectives and land use classifications for the Master Plan and Operational Management Plan (see Illustration II-3-5). The "Level One Natural Resources Inventory" performance measure will be assigned in E-S BEST to budget packages that are to accomplish these outputs. Budget packages will indicate the least amount of funding necessary to accomplish the work in the budget year.
- (1) Level One Natural Resources Inventory Completion Minimal Increment is for critical, time-sensitive (must be performed in the budget year) and least-cost level one natural resources inventory work that may be accommodated within the total MSC minimal program dollar limit (see Sub-Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages:
 - to identify and describe the natural resources situated on the project fee-owned acreage, or anticipated to occur on the project fee-owned acreage (i.e. any component of the minimum Level One Natural Resources Inventory: special status species, vegetation, wetlands or land (soils) capability).
- (b) Ranking Factors. Priority should be given to budget packages with the most effective combination of the following factors:
 - work is needed to evaluate and determine the status of federally listed species thought to occur on the project;
 - one third or more of the project fee-owned boundary is immediately adjacent to developed (commercial, residential, and industrial) lands;
 - work supports development of an impending Master Plan supplement or update:
 - work completes an individual inventory component, or a combination of inventory components, during the budget year;
 - maximized efficiency of funds invested for this purpose.
- (2) Level One Natural Resources Inventory Completion Sustaining Increment is for above the minimal program Level One Natural Resources Inventory operations and maintenance activities to sustain expected future benefits of, and to achieve performance targets of this output. Budget packages will result in prudent operations, management and maintenance activities necessary to initiate, continue, or complete the minimum level inventories, that are recommended in the budget year.
 - (a) Performance Output Criteria. Include budget packages:

- that meet same output criteria as listed for the minimal increment of this measure (these packages are not accommodated in the minimal increment due to MSC minimal program limit);
- to initiate, continue, or complete any component, or combination of components, of the Level One Natural Resources Inventory on Corps fee-owned properties to develop natural resource management objectives and land use classifications for the Master Plan.
- (b) Ranking Factors. Priority should be given to budget packages with the most effective combination of the following factors:
 - factors included in the minimal increment of this measure;
 - number of federal and state listed endangered and threatened that potentially occur on project lands:
 - work included will result in the completion of the recommended Level One Natural Resources Inventory scheduled for the project;
 - maximized efficiency of funds invested for this purpose.
- (3) Level One Natural Resources Inventory Completion Capability Increment will include budget packages for inventory completion considered at a capability or enhanced level. These budget packages enable greater levels of performance in future years and have a high expected return on investment in future years.
 - (a) Performance Output Criteria. Include budget packages:
 - that accelerate the completion of minimum level one natural resources inventories
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that maximize efficiency of funds invested for this purpose.
- f. **Master Plan Completion.** Budget packages are for work to complete a Master Plan supplement or update that includes natural resources management objectives, identifies environmentally sensitive areas, and meets requirements of ER/EP 1130-2-550, during the budget year. See Illustration II-3-6. The "Master Plan Completion" performance measure will be assigned in E-S BEST to budget packages that are to accomplish these outputs. Budget packages will indicate the least amount of funding necessary to accomplish the work in the budget year.
- (1) **Master Plan Completion** Minimal Increment is for critical, time-sensitive (must be performed in the budget year) and least-cost master plan work that may be accommodated within the total MSC minimal program dollar limit (see Sub-Annex C-2, Table C-2.2).
 - (a) Performance Output Criteria. Include budget packages:
 - to initiate, continue, or complete a Master Plan supplement or update where the natural resources on Corps fee-owned lands face imminent threat from commercial, residential and industrial development on private lands immediately adjacent to the project boundary.
- (b) Ranking Factors. Priority should be given to budget packages with the most effective combination of the following factors:
 - one third or more of the project fee-owned boundary is immediately adjacent to developed (commercial, residential, and industrial) lands;
 - age of Master Plan;
 - budget package completes the project Master Plan or supplement in the budget year;
 - maximized efficiency of funds invested for this purpose.

- (2) **Master Plan Completion -** Increment 3 is for above the minimal program Master Plan completion operations and maintenance activities to sustain expected future benefits of, and to achieve performance targets of this output. Budget packages will result in prudent operations, management and maintenance activities necessary to initiate, continue, or complete a required Master Plan or supplement, recommended in the budget year.
 - (a) Performance Output Criteria. Include budget packages:
 - that meet same output criteria as listed for the minimal increment of this measure (these packages are not accommodated in the minimal increment due to MSC minimal program limit);
 - to update Master Plans in accord ER 1130-2-550 for all fee-owned property on operating Corps administered projects.
- (b) Ranking Factors. Priority shall be given to budget packages that provide the most effective combination of the following factors:
 - factors included in the minimal increment of this measure;
 - work is to update natural resources objectives, land use classification and the specific identification of all environmentally sensitive areas, on Corps fee-owned properties;
 - · age of the existing master plan;
 - · work is in accord with schedule to complete the plan;
 - maximized efficiency of funds invested for this purpose.
- (3) Master Plan Completion Capability Increment will include budget packages for master plan, or master plan supplement completion that are considered capability for accomplishment in the budget year. These budget packages enable greater levels of performance in future years and have a high expected return on investment in future years.
 - (a) Performance Output Criteria. Include budget packages:
 - that accelerate the completion of master plan, or master plan supplement, requisites
 - (b) Ranking Factors. Priority should be given to budget packages:
 - that maximize efficiency of funds invested for this purpose.

II-3.7. Five-Year Performance/Funding Glide Plan.

- a. The Civil Works Five-Year Development Plan purpose is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. The five-year plan focus is to undertake projects and activities that provide the highest net economic and environmental returns on the Nation's investment. See paragraph 8 (b) of the main part of this EC for details.
- b. To accomplish development of the Environment-Stewardship Five-Year Recommended Performance/Funding Glide Plan, performance targets for each of the budgetary Environmental Stewardship Performance Measures (See Illustrations II-3-1 through II-3-6) have been established (Table II-3-4). These targets are set to achieve and maintain the Environmental Stewardship program compliance type outputs (e.g. Mitigation Compliance, Endangered Species Protection, Cultural Resources Management) as well as to achieve incremental progress in the other measured program outputs (Healthy and Sustainable Lands and Waters, Level One Natural Resources Inventory Completion, and Master Plans Completion).

c. Each project will submit the five–year funding stream that is necessary to both maintain, from year to year, the achieved levels of performance and to increase performance output each year by the percentages noted in Table II-3-4. The total budget needed will be entered in E-S BEST and will be exported to OFA for review. The funding streams will be the basis for the PY budget and the FY 2009-2013 Five-Year Development Plan which will be submitted to Congress and Office of Management and Budget along with the budget submission. MSC five-year recommended programs must be included in the 29 June 2007 submission. After the MSC submit their five-year funding streams, a CW Five-year Development Plan will be prepared which contains the recommended programs.

Performance Measure	gets for Five -Year Recommended Glide Plan FY				
renormance measure	2009	2010	2011	2012	2013
Healthy and Sustainable Lands and Waters	3%*	3%*	3%*	3%*	3%*
Endangered Species Protection	100%**	100%**	100%**	100%**	100%**
Level One Natural Resources Inventory Completion	10%*	10%*	10%*	10%*	10%*
Master Plan Completion	10%*	10%*	10%*	10%*	10%*
Cultural Resources Management	100%**	100%**	100%**	100%**	100%**
Mitigation Compliance	100%**	100%**	100%**	100%**	100%**

^{*} Maintain performance level from previous year and increase performance output (as feasible) by this percentage.

^{**} Attain and maintain this level of performance output.

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE MITIGATION COMPLIANCE

GOAL: Assure compliance with environmental mandates and legal requirements (Corps mitigation outputs meet the requirements of authorizing legislation or relevant Corps decision document.)

Key Result Areas: Environment Stewardship Results and Justification

Customer: Public

Measure: Percent of Corps administered mitigation lands (acres), <u>or</u> the percent of pounds/numbers of mitigation fish produced at mitigation hatcheries, meeting the requirements in the authorizing legislation or relevant Corps of Engineers authorization decision document.

Mitigation lands: Mitigation lands are those lands on which mitigation measures are taken to compensate for adverse ecological impacts unavoidably caused by Corps projects or activities. For the performance measure, these lands are those authorized by Congress or approved by HQUSACE in a formally documented authorization decision document.

Mitigation fish hatcheries: Mitigation fish hatcheries are those facilities which are which are funded or operated by the Corps for the taking, fertilization, incubation and hatching of fish eggs, and rearing of young fish to be released, to compensate for unavoidable adverse impacts to fish species caused by Corps projects.

Corps administered lands: Corps lands either managed by the Corps or lands licensed permitted or leased from the Corps.

Definition: Number of designated Corps administered mitigation lands (acres) meeting mitigation requirements divided by the total number of designated Corps administered mitigation lands (acres), or number of pounds (or number of individual) fish produced in a mitigation hatchery, divided by the number of pounds (or number of individuals) of fish required to be produced at a mitigation fish hatchery to meet the mitigation requirement for the budget year.

Demonstrates: Status of Corps efforts to meet mitigation requirements.

Unit of Output: Acres or number of pounds or individuals of fish

Data Source: OMBIL, E-S BEST

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE ENDANGERED SPECIES PROTECTION

GOAL: Assure compliance with environmental mandates and legal requirements identified in Federal law

Key Result Areas: Environment-Stewardship Results and Justification

Customer: Public

Measure: Percent of Corps operating projects with Endangered Species Act requirements for which the Corps is meeting Endangered Species Act (ESA) requirements or responsibilities.

Definition: Total number of Corps projects that meet ESA compliance requirements in the budget year divided by the total number of projects that have ESA compliance requirements in the budget year.

Demonstrates: Status of Corps efforts to meet ESA requirements.

Unit of Output: Corps projects in compliance with ESA requirements.

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE CULTURAL RESOURCES MANAGEMENT

GOAL: Protect and preserve cultural resources.

Key Result Areas: Environment-Stewardship Results and Justification

Customer: Public

Measure: Percent of Corps operating projects meeting federally mandated cultural resources

management responsibilities.

Definition: The total number of Corps projects meeting federally mandated cultural resources management responsibilities divided by the total number of Corps projects with federally mandated cultural resources management responsibilities.

Demonstrates: Status of Corps efforts to protect and preserve cultural resources.

Unit of Output: Projects complying with federally mandated cultural resources responsibilities.

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE HEALTHY AND SUSTAINABLE LANDS AND WATERS

GOAL: Manage natural resources to assure a healthy and sustainable condition and fully integrate the Corps of Engineers Environmental Operating Principles (EOPs).

Key Result Areas: Environment-Stewardship Results and Justification

Customer: Public

Measure: Percent of healthy and sustainable acres on Corps fee-owned property.

Sustainable: Meets the desired state. The acreage is not significantly impacted by any factors that can be managed and does not require intensive management. The acreage also meets operational goals and objectives set out in project Operational Management Plan (OMP) or other applicable management document. These acres are considered healthy and sustainable for future generations. Only minor management practices may be required to maintain the health. For the purposes of this measure, Project Operations Lands (occupied by prime facilities such as the project office, dam, locks and other facilities) identified in the Master Plan are to be classified as "sustainable".

Fee-Owned: Real property for which the U.S. has <u>all</u> rights, titles, and interest.

Definition: The number of Corps fee-owned acres classified as in a sustainable condition versus the total number of Corps fee-owned acres.

The result for this measure provides an indicator of the status of all Corps fee-owned acres (land and water). This indicator shall be the overall condition of project acreage as assigned during the inventory and classification of vegetation on Corps fee-owned land. The National Vegetation Classification System (NVCS) is the system that the Corps has adopted for the Level One Natural Resources Inventory and the vegetation classes of the NVCS will be the reference unit for which the condition will be assigned. The NVCS data collection will be supported in the Environment-Stewardship module of OMBIL beginning in FY 05. The measure of sustainable acres will use the NVCS if the Corps fee lands have been classified using the NVCS. Special note: Many projects have used other vegetative classification systems in the conduct of their Level One Natural Resources Inventory. During the initial 4 years of implementation of this measure and of data transition to the NVCS, those other systems may be used along with "best professional judgment" to quantify the number of sustainable fee-owned acres.

Each project will identify and categorize their project fee-owned acres into the four following categories:

a. Sustainable – Meeting desired state. The acreage is not significantly impacted by any factors that can be managed and does not require intensive management. The acreage also meets operational goals and objectives set out in project OMP or other applicable management document. These acres are considered healthy and sustainable for future generations. Only minor management practices may be required to maintain the health.

- **b. Transitioning** Managed to meet desired goals. The acreage is impacted by human or other environmental factors that require management of the acreage to meet goals and objectives outlined in the project OMP or other applicable management document.
- **c. Degraded** Does not meet desired goals. The acreage is significantly impacted by human or other environmental factors that prevent the acreage from meeting desired goals outlined in the project OMP or other management documents. The acreage is not considered healthy. Intense management may be required to meet desired goals.
- **d. Not Assessed** The acreage has not been assessed against operational goals and objectives and thus a condition rating cannot be determined.

Demonstrates: Status of Corps efforts in achieving the goal of 100% environmental sustainability.

Unit of Output: Acres

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE LEVEL ONE NATURAL RESOURCES INVENTORY COMPLETION

GOAL: Manage natural resources to assure a healthy and sustainable condition, and fully integrate the Corps of Engineers Environmental Operating Principles (EOPs).

Key Result Areas: Environment-Stewardship Results and Justification

Customer: Public

Measure: Percent of minimum Level One Natural Resources Inventory completed on Corps fee-owned real properties.

Fee Owned: Real property for which the U.S. has all rights, titles, and interest (not partial).

Minimum Level One Natural Resources Inventory: The completion of Level One natural resources inventories at Corps Civil Works projects is required in accordance with ER 1130-2-540. For the purposes of this performance measure the minimum Level One natural resources inventory shall consist of the completion of four component items:

- Project vegetation acreage classification and quantification, in accord with the Federal Geographic Data Center National Vegetation Classification System (though sub-class level). See http://www.fgdc.gov/standards/status/sub2_1.html
- Project wetland acreage classification and quantification, in accord with the US Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States. See http://wetlands.fws.gov/Pubs Reports/Class Manual/class titlepg.htm
- Project land (soils) capability classification and quantification, as defined by the Natural Resources Conservation Service –Land Capability Classes. See www.nrcs.usda.gov/technical/land/meta/m6175.html
- Special Status Species (Federal and State listed endangered and threatened species) identification and assessment for potential existence on project acreage. See http://endangered.fws.gov/wildlife.html - Species, and various State Natural Heritage sites.

Definition: The sum total number of acres of completed inventory for each component of the minimum Level One inventory (vegetation, wetlands, land capability and special status species), divided by four (4) times the total number of Corps fee owned acres. The proportion (percentage) yielded will be used to evaluate the relative completeness of the Level One Natural Resources Inventory.

Demonstrates: Status of Corps efforts in completing basic natural resources inventories which are necessary for sound resource management decisions and strategies development.

Unit of Output: Acres

ENVIRONMENT – STEWARDSHIP FY 09 PERFORMANCE MEASURE MASTER PLAN COMPLETION

GOAL: Foster healthy lands and waters by balancing public uses and needs, and fully integrate the Corps of Engineers Environmental Operating Principles (EOPs).

Key Result Areas: Environment-Stewardship Results and Justification

Customer: Public

Measure: Percent of Corps-operated water resource projects with completed Master Plans in compliance with Engineering Regulation (ER) 1130-2-550.

Master Plan: The Master Plan is a document that guides the development, management and public use of the project.

Engineering Regulation (ER) 1130-2-550: This regulation and its companion guidance, Engineering Pamphlet (EP) 1130-2-550, provide both the policy and guidance governing the preparation and development of Master Plans and Operational Management Plans.

Definition: The number of project required Master Plans in compliance with ER 1130-2-550 divided by the total number of project required Master Plans.

Master Plans shall be developed and kept current for all civil works projects and other fee-owned lands for which the Corps has administrative responsibility for management. To be considered compliant with policy and guidance in ER/EP 1130-2-550, a Master Plan shall address regional and ecosystem considerations, project resource capabilities and suitabilities, and expressed public interests and desires. Of critical importance to Environmental Stewardship, Master Plans shall include a land classification system in accordance with ER/EP 1130-2-550 (that recognizes environmentally sensitive areas) and includes specific natural resource management objectives that support the EOPs.

Demonstrates: Corps commitment to fully integrate environmental stewardship and the Corps Environmental Operating Principles in the management of operating projects.

Unit of Output: Compliant Master Plan

ILLUSTRATION II-3-7 FY 09 ENVIRONMENT-STEWARDSHIP BUDGET DEVELOPMENT WORKFLOW

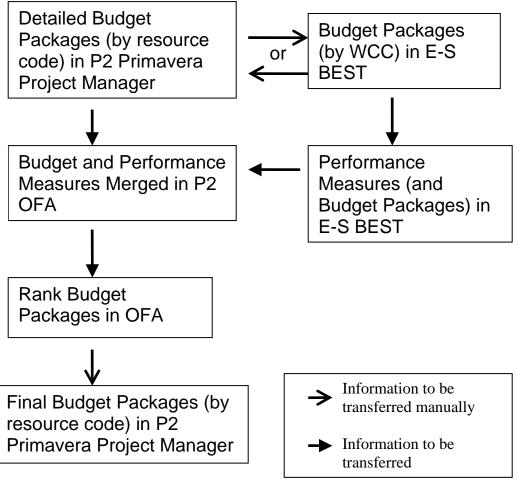
Two options for building your 09 budget: 1. Start in E-S BEST and then provide the budget information to your P2 correspondent for data entry in P2 (must do this to get the BEST_ID if this is a new package for FY 09).

2. Enter the budget into P2 first based on FY 08 E-S BEST budget package information and then revise your E-S BEST budget information accordingly. For either option, make sure to enter the matching BEST_ID when entering budget information in P2.

Performance (and budget) information generated in E-S BEST will be uploaded to OFA to match with all budget packages entered in Project Manager. Direct access to E-S BEST database will be available for District and Division quality assurance review.

HQ and MSC business line managers recommend the nationwide program using budget and performance measures submitted in P2 and E-S BEST. Environment-Stewardship budget is then submitted to HQ, ASA, and later OMB for budget appropriation.

Final budget adjustment in P2 based on President's budget. Manually adjust budget information in P2 Primavera Project Manager based on final budget appropriation recorded in OFA.



Sub-Appendix II-4 FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

II-4.1. Introduction.

- a. In 1998 Congress directed the Corps to conduct response actions on early atomic energy program sites subject to the administrative, procedural, and regulatory provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency plan. This program, called the Formerly Utilized Sites Remedial Action Program (FUSRAP) was begun in 1970s by a predecessor agency to the Department of Energy. Response actions under CERCLA consist of: sampling and assessment of contaminated areas, characterization of site conditions, determination of the nature and extent of contamination, selection of the necessary and appropriate response actions as lead Federal agency, cleanup and closeout of sites and other actions necessary for remediation. In addition, the Corps assesses whether other potentially responsible parties are involved and addresses stakeholder environmental and regulatory issues.
- b. Twenty-one sites still under evaluation and/or remediation were transferred from DOE to the Corps in FY1998. Two of these sites have been remediated and transferred back to DOE for long-term stewardship. Response activities on three more sites are essentially completed and are in the process of being transferred to DOE for long-term stewardship. Since FY 1998 DOE has identified an additional 13 sites as eligible for FUSRAP. The Corps uses a Potential Sites budget line item to fund the Preliminary Analysis/Site Inspection (PA/SI) for new eligible sites referred by DOE. The Corps has completed the PA/SI on eleven of these sites, eliminating four of them from further consideration and adding seven of these sites into the program for the reason of budgeting additional activities after concluding that a release or threat of release of a hazardous substance exists that warrants response action under CERCLA. Congressional direction resulted in adding one of the sites. The Corps is completing the PA/SI on two of the remaining sites. Funds were budgeted for a total of twenty-two sites in FY08.
- II-4.2. **Purpose.** To cleanup contaminated sites throughout the United States where work was performed as part of the Nation's early atomic energy program.
- II-4.3. **Goals and Objectives.** The major objectives of the FUSRAP program are to evaluate and remediate, as necessary, sites identified by the Department of Energy (DOE) as eligible for consideration under FUSRAP. Each FUSRAP divisions' multi-year program should be developed and conducted in such a manner that projects are completed as soon as possible and at the lowest cost consistent with cleanup criteria. Criteria utilized are those that are protective of human health and the environment, responsive to regulatory and community interests, and in accordance with the current and reasonably foreseeable future land use.

Table II-4-1 FUSRAP Environmental Performance Measures:

Strategic Goal #2 - Repair past degradation and prevent future environmental losses.
From the March 2004 Civil Works Strategic Plan
Strategic Objective 2.3 Assist in cleanup of contaminated, hazardous, toxic, and radioactive waste sites as
authorized or requested by others.
Performance Measures:
#1 - Number of individual properties returned to beneficial use on a cumulative basis.
#0 O I i
#2 – Cumulative percentage of FUSRAP funding that is expended on cleanup activities rather than studies.
#3 – Cubic yardage of contaminated material.
The Gubio yaraage of contaminated materials
#4 – Number of Records of Decision (RODs) signed on a cumulative basis by the U.S. Army Corps of
Engineers.
#5 – Number of Remedial Investigations Completed.
#6 – Number of Remedies in Place or Response Complete.
Trumber of Nomedies in Flace of Nesponse Complete.
#7 – Total Cost of disposing of contaminated material as measured in cubic yards.
#8 – Number of Action Memorandums signed.

II-4.4. Five Year Plan.

The five year development plan for FUSRAP projects will follow the guidance provided in Section 8 (b)) of the main part of the EC. The five year plan for the program will be finalized at the June 4, 2007 FUSRAP PRP meeting.

The Final PY budget amounts will be provided after OMB Passback and the Divisions' five- year program will be updated. A final five-year plan is prepared for final submission to Congress and OMB in February 2008. The two scenarios are, a) the final budget scenario and b) the high (enacted) scenario.

II-4.5. Ranking Process.

a. Project activities lending themselves directly to accomplishment of the FUSRAP objectives and sub-objectives will be prioritized using the following factors to assist in assuring that program goals are being met. The FUSRAP Civil Works Program Manager will hold a program meeting in the third quarter

of the fiscal year to analyze the current year budget, and to project the 10-year requirement at a program level. The FUSRAP team will draft an initial budget increment and additional increments as discussed below. The ranking factors are as follows:

- complete Preliminary Assessment to identify presence of demonstrable or potential threat
- eliminate demonstrable threat to public health, safety, or the environment;
- eliminate potential threat to public health, safety or the environment;
- Federal Facility Agreements (FFA) or other legal/contractual/regulatory requirements;
- completion of final response action;
- efficient design/construction schedule;
- completion of current study or removal phase (RI/FS, EE/CA, etc);
- local support; and
- potentially responsible party issues.
 - b. The initial program is defined using the following criteria:
 - (1) Activities necessary to maintain site security and meet legal mandates.
- (2) Preliminary Assessments/preliminary legal analysis of potential new sites at minimum sufficient level to determine if immediate human health or environmental safety threats exist. This criterion will be used to identify projects in the potential sites line item within the FUSRAP budget and from any available unobligated carryover funds.
- (3) Continue previously awarded contracts for design, removal, or remediation projects under construction phase of remediation.
- (4) Continue previously awarded contracts for Remedial Investigation, Feasibility Studies, and Records of Decision activities. Only award new RI/FS/ROD contracts where human health and/or environmental safety threats need to be characterized.
- (5) Site closeout activities sufficient to meet legal and health and safety requirements and transition sites to DOE in efficient fashion.
- (6) Removal Actions necessary to meet CERCLA criteria for time critical or non-time-critical removals.
- (7) Activities necessary to facilitate participation by potentially responsible parties, either as performers of work or contributors of funds toward remediation and closeout.
- (8) New contracts for design, removal, or remediation projects must be fully funded following established Civil Works policy (EC 11-2-191, Civil Works Execution EC).
- II-4.6. **Performance Based Budget Increments.** Add additional budget items for logical, needed increments that contribute to the program performance measures in the table above.

- II-4.7. Program Phases. Study/Implementation (Construction)
 - a. The FUSRAP Study Phase includes the following CERCLA processes:
- (1) **Preliminary Assessment (PA).** A PA is a limited-scope investigation to collect readily available information about a site and its surrounding area. The PA is designed to distinguish, based on limited data, between sites that pose little or no threat to human health and the environment and sites that may pose a threat and require further investigation. The PA also identifies sites requiring assessment for possible emergency response actions.
- (2) **Site Inspection (SI).** SI is an on-site inspection to determine whether there is a release or potential release and the nature of the associated threats. The purpose is to augment the data collected in the preliminary assessment and to generate, if necessary, sampling and other field data to determine if further action or investigation is appropriate.
- (3) **Remedial Investigation (RI).** RI is the process undertaken to determine the nature and extent of the problem presented by a release, which emphasizes data collection and site characterization. The remedial investigation is generally performed concurrently and in an interdependent fashion with the feasibility study.
- (4) **Feasibility Study (FS).** FS is a study undertaken to develop and evaluate alternatives for remedial action.
- (5) **Engineering Evaluation/Cost Analysis (EE/CA).** This document is prepared in the case of a non-time critical removal action. The EE/CA is an analysis of removal alternatives and must satisfy environmental review and administrative record requirements, and provide a framework for evaluating and selecting alternative solutions.
- (6) **Record of Decision (ROD).** The ROD is a document prepared in accordance with the requirements of 40 CFR 1505.2 that provides a concise public record of the agency's decision on a proposed action. It identifies alternatives considered in reaching the decision, the environmentally preferable alternative(s), factors balanced by the agency in making the decision, and mitigation measures and monitoring to minimize harm.
- b. The FUSRAP Implementation (Construction) phase consists of the following CERCLA processes:
- (1) **Remedial Design (RD).** RD is an engineering phase that follows the Record of Decision when technical drawings and specifications are developed for subsequent remedial action.
- (2) **Remedial Action (RA).** RA is the actual construction and implementation of a remedial design that results in long-term site cleanup.
- (3) **Removal Action (EE/CA)**. An Engineering Evaluation/Cost Analysis (EE/CA) documents a removal action that is used where a site presents a relatively time-sensitive, non-complex problem that can and should be addressed relatively inexpensively. But even expensive and complex response actions may be removal action candidates if they are relatively time-sensitive.

II-4.8. Work/Activity Increment Guidance.

Definition of Work Increment: A work increment is a discrete amount of work identified by an activity or a set of activities with specific resource requirements and a schedule.

Definition of Activity: A component of work performed during the course of a project. An activity could be a process (e.g. collection of data) or lead to a deliverable (write a report). Activities are the building blocks of the P2 system – they have assigned durations, resources, and relationships.

These increments do NOT define funding levels.

- a. Investigation/Study Increments. For increment definitions, refer to the "Definitions/Glossary Section" of the main section of this document.
- b. Implementation (Construction) phase Increments. For increment definitions, refer to the "Definitions/Glossary Section" of the main section of this document.
- II-4.9 **P2 Requirements.** P2 will be used for developing the FY09 budget for FUSRAP. This section provides guidance for each program, but there are certain common structures for each program that will be represented within PPM.
- a. The program consists of a set of projects that are included in the budget. These projects consist of a set of activities that are required to fulfill the purpose of the project. For a project in FUSRAP, these activities are required to complete CERCLA phases for that project during the budget year. The activities within these projects require resources. These resources are labor, contracts, travel, supplies and materials, etc. The total cost of supplying these resources for a given activity represents the budget amount that the activity requires within the budget. The total cost of all activities represents the total budget required by the project.
- b. The common structure of project activities resources is consistent across all programs and provides a hierarchy for summarizing the program as a whole. The performance based budget process also requires a different view of the budget by business. To accommodate this view of the program, each activity is assigned to a business. The tagging of each activity by business allows a view of the budget by business as well as program.
- c. Identifying the activities that are part of the budget provides a level of detail and classification to help answer questions by all the various stakeholders for the Corps budget.
- d. The instructions that follow describe the specific tasks that must be done to develop the FY09 budget for Corps FUSRAP projects using PPM.
 - (1) General Directions.
- (a) The budget EC for FUSRAP has been changed to reflect the use of P2/OFA in place of ABS. All data that had been captured by ABS can now be captured using P2/OFA tools.
- (b) Project managers must direct a local configuration manager to complete two changes to existing P2 projects in order to complete the budget in PM. These changes are:
 - Assign a program code in Oracle Projects

- Create a separate, inactive WBS for budget activities
- (c) Project managers must assign a program code, if one is not already assigned. The program code will normally be the six character CWIS code that has been assigned in PRISM for the project. If multiple P2 projects have been created from one CWIS, then each P2 project must be assigned the same program code. The program code will allow proposed budgets in P2 to be matched to CEFMS. A P2 OP local configuration manager has the permission to add the program code to a project. The complete list of program codes is under review and will be added to the list of values for the program code in Oracle Projects. The program code can be added after the budget activities are added to a P2 project.
- (d) Each program manager will direct a LCM to create a separate WBS for budget development. The WBS should be named Budget. The WBS should be "Inactive" so that proposed budgets will remain in PM alone until ready for transfer to Oracle Projects. Additional child WBS levels can be added if needed to help prepare the budget. At a later date, the WBS will be marked as "Planned" so that the budgets can be transferred to OP. The proposed budgets will not be transferred to CEFMS.
- (e) Each project manager must add the activities and resources needed to complete FY 2009 work. The FY2009 budget development EC will guide the content of the work added to P2. All work will be described as one or more activities that require resources to complete.
 - (2) Budget Data Required for FUSRAP.

For FY09, initial budget increments will be developed at the June 4, 2007 FUSRAP PRP meeting. The initial program will be no more than the amount needed to maintain current services compared to the FY 2008 budget. Recommended budget increments will be capability level funding. Provide capability level funding increments for FY09, FY10, FY11, FY12, and FY13.

The following is a brief description of the additional budget data elements required:

Program Code

The Program Code identifies the AMSCO/CWIS/PWI associated with a P2 project. A Program Code should be assigned to every CW P2 project for which funds are requested. This is especially important in the case where multiple P2 projects have been created which are all associated with a single CWIS in the Corps budget submission to OMB and Congress. A P2 Program Code will need to be entered on each of those P2 projects so that they can be linked together for budget submission purposes. Separable elements are an example of this situation. Normally, the AMSCO number will be used as the Program Code value. The Program Code is a project level code which is entered in Oracle Projects (OP). By default, the Program Budget Submission (PBS) portion of OFA will auto-populate the field (if it's blank) with the Program Code classification that is assigned to the P2 Project in OP. Users have the ability to override that field with a valid Program Code if there's not one assigned in OP. It is strongly recommended, though, that users assign the code in OP so it can be utilized for other OFA reporting purposes (2101's, CWAS, etc).

In Oracle Projects, these codes would need to be defined on each project:

FUSRAP SITE ID NO: Defines the FUSRAP site location PRIMARY BUSINESS PROGRAM: ENV - FUSRAP

REGULATORY DRIVER: CERCLA

Project ID

This is the P2 project ID assigned when the project is created in OP.

Project Name

This is the P2 project name

Primary Business Program

The primary business program is Civil Works Environmental. Specific templates will be discussed in the June 4, 2007 meeting.

Civil Works FY09 Funding Increment

This data element identifies the business funding increment for each activity. Each activity must be assigned to one and only one increment. The data element, CW FY09 Funding Increment, is used to assign the increment number to each activity. This code will be used to identify an activity as a FY09 budget activity, and will be used to extract FY09 budget activities for OFA. Please do not assign this activity code to any activities that are not part of the FY09 budget. This data element is similar to the funding requirements for FY08. **Initial** amounts will be increment 1.

WCC - CEFMS (Civil Works)

The project manager must assign each activity to a work category code.

Activity ID

The activity ID is a alphanumeric code assigned to each activity. The code must be unique within each project.

Activity Name

This data element describes the work that will be done under the activity.

Task Organization

The task organization is assigned to each activity. The purpose of the task organization is to represent the office where non-labor dollars are scheduled and potentially costed.

Budgeted Total Cost

The budgeted total cost is the sum of the cost of the budgeted amounts for each resource assigned to an activity. All resources required to complete the activity must be entered for each activity to get a correct total.

Start

This is the expected start date for the activity.

Finish

This is the expected finish date for the activity. For the FY2009 budget estimates, the resources for each activity within the limits of the fiscal year must equal the appropriate budget amount.

Ranks - Project, District, Division, Headquarters

These four data elements can be used to specify a rank for each activity within the project, district, division, or Corps. Ranks are not strictly used in the new performance based budget, but these data elements are available for use by each district or MSC, if desired.

Type of Funds

The type of funds describes the appropriation and catclass. This field is usually set at the wbs.

Type of Funds (Override)

This data element overrides the Type of Funds. Some projects may receive multiple types of funds. The override can be used to set the type of funds for some activities.

Area of Responsibility

This data element is set for each project and is the same as the EROC that had been assigned in ABS and is still used in PRISM.

Activity Justification

There is a notebook element called work package justification that must be used to record the justification for an activity. The justification can be "pasted" into the Work Package Justification notebook topic from any Windows document. The term "work package" is a holdover from ABS.

Additional Activity Codes

There may be additional activity codes added to classify an activity. These activity codes will be used to identify special interest codes that may be added to the budget EC.

Budget Data Review

Each district and MSC program managers, business managers, division chiefs, Commanders, and other interested parties can begin review of the FY2009 budget data as soon as it is added by the project manager. Each district and MSC will likely have their own processes to review budget data. Much of the review can be done using Primavera Project Manager and some can be done using Oracle Financial Manager. Budget reports will be developed to show detail and summary data needed to review the budget.

Evaluation of Budget Increments

At the end of the review and approval process for each MSC, the budget data will be extracted. The level of detail of the data, either project-business-increment or process-business-increment-activity, will be determined by the HQ business manager. Once the data is extracted, each MSC will be responsible for adding performance measure data for each increment. The HQ business manager will evaluate each increment in the business area and set the overall rank of each increment.

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APPENDIX III FLOOD & COASTAL STORM DAMAGE REDUCTION

- **III-1. Background.** The Corps has had the mission of reducing flood damages from the mid- 1800's. Today we plan, design, implement and operate projects that reduce damages from both riverine and coastal flooding. Many of the projects provide other outputs such as hydropower, water supply, ecosystem restoration and recreation. Corps flood and coastal storm damage reduction (F&CSDR) efforts range from technical assistance to small, local protection projects (levees or non-structural flood damage reduction measures) to major dams. Today, most Corps constructed flood protection projects are owned and operated by sponsoring cities, towns, and agricultural districts. However, the Corps continues to maintain and operate 383 dams and reservoirs for flood damage reduction as well as some levee systems and is authorized to continue shore re-nourishment at over 90 hurricane and storm damage reduction (Coastal and Great Lakes) projects. As regions continue to develop, populations increase, economic development in low lying area is more advantageous. Thus, the need for flood protection becomes of paramount importance.
- **III-2. Purpose.** The Corps F&CSDR goal is to reduce the Nation's flood risk by investing in flood and coastal storm damage reduction solutions in environmentally sustainable ways when the benefits exceed the costs. Our program enhances the quality of American life by reducing flood risk to both life and property, providing additional benefits to individuals, communities, and the national economy.

III-3. Civil Works Program Objectives.

- a. The Civil Works (CW) Strategic Plan, dated March 2004 was developed with an explicit assumption of an unconstrained resource environment to encourage an unconstrained assessment of the nation's water resources needs and potential Corps response. Preparation of the FY 2009 Budget Request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures. Table III-1 presents program objectives, performance measures and/or performance ranking and rating criteria which support and/or supplement the CW program objectives and performance measures for the F&CSDR to reflect the near term realities of a constrained FY 2009 budget environment.
- b. The Civil Works Five Year Development Plan (CW FYDP) purpose is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. See paragraph 6 (a) (2) "Civil Works Five Year Development Plan". The Five Year Development Plan (FYDP) for the Flood and Coastal Storm Damage Reduction (F&CSDR) business line provides a regional (System and/or Watershed) management tool for use in accomplishing the Corps of Engineers' flood and storm damage reduction mission while providing the budgetary framework necessary for program development. They present an opportunity to objectively evaluate planning, design, construction, and operations and maintenance phases of new, continuing, and existing projects broken down into the three major appropriations and including the Mississippi River and Tributaries (MR&T).

III-4. Performance Measures.

a. The Corps F&CSDR program is well established and valued, however our ability to continue to reduce flood risks to meet the needs of current and future generations is dependent upon adequate investments. Such investments provide for the necessary investigations of problems and development of projects, timely implementation of authorized projects, proper inspections of Corps and local projects, preventative maintenance or facility modernization or improvement, improvements to ensure the reliability and safety of projects, adequate data collection or improvements to increase operational efficiencies. The purpose of this budget guidance is to ensure the development of convincing rationale

and justification of the budget request to accomplish the goal of reducing flood risk while meeting prescribed targets.

- b. Accordingly, a nationwide perspective must be maintained to assure that available funding provides the greatest public benefit for the investment. Effective risk management requires an inventory of each class of assets, some form of standardized condition assessment, and a method to evaluate the reliability of these assets and consequences of unsatisfactory performance. But to effectively balance tradeoffs and integrate mission objectives through a risk management approach will require some common objectives or metrics and an integrated framework. Risk management evaluates which risks identified in the risk assessment process require management and selects and implements the plans or actions that are required to ensure that those risks are controlled. These risks must be communicated effectively to our stakeholders. Risk communication take place and involve an interactive dialogue between stakeholders and risk assessors and risk managers which actively informs the other processes.
- c. The safety and security of our critical and existing infrastructure must be maintained, new investigations to address serious flood risks must be conducted and our uncompleted projects must be brought on line quickly so that benefits may be achieved as soon as possible. To achieve the F&CSDR program goal, the following budget objectives and ranking criteria are established for the FY 2009 program. Each of the objectives and criteria are designed to demonstrate that each budget item makes sense and contributes to the CW objectives and the F&CSDR program goal.

	TABLE III-1				
	Performance Measures and	Budget Ranking Criteria			
CW Strategic Goal/Objective	Budget Objective	Metric			
1.1, 1.2 and 1.3	Keep ongoing studies or PEDs going if likely to produce recommendation for project (I) or start new phase of studies or PED (I) to address critical needs	 Date of agreement – executed or expected Population at Risk (PAR) Population Affected (POP AFFECTED) Combined flood risk factors (depth, velocity and warning time, PAR or TPAR) Estimated average annual damages (without project) Benefit to Cost Ratio – only for PED System or Watershed study score 			
1.3	Complete ongoing construction to start getting benefits and reduce future flooding impacts with new construction (C)	 Benefits Cost Ratio (<i>BCR</i>) for project Net Benefits Other purpose outputs by BL (ENR, REC, WS) Combined risk factors (depth, velocity and warning time, <i>PAR</i> or <i>TPAR</i>) 			
5.1	Initiate and complete dam safety projects (C) Conduct dam and levee safety, seepage or static instability studies (C)	 Relative Risk of failure – risk compared to other Corps dams (Dam Safety Action Classifications (<i>DSAC</i>)) Condition Classification, Consequence Category, Relative Risk Matrix Value Population at Risk (<i>PAR</i>) Population Affected (<i>POP AFFECTED</i>) 			

	TABLE III-1 Performance Measures and Budget Ranking Criteria			
CW Strategic Goal/Objective	Budget Objective	Metric		
3.1	Operations - Assure that projects perform as designed (O&M)	% of design level available (may be less than 100% due to reduced conveyance, pool restrictions or storage limits, seepage, or other reduced level of protection)% of design level available (reduced conveyance, pool restrictions, seepage (levees), reduced level of protection) O Index as total damages prevented divided by cumulative O costs (HQ will calculate) % of all required inspections, surveys that can be accomplished with a given budget increment		
3.1	Maintenance - Assure that projects perform as designed (O&M)	 Condition Classification, Consequence Category, Relative Risk Matrix Value % of design level available (may be less than 100% due to reduced conveyance, pool restrictions or storage limits, seepage, or other reduced level of protection) M Index as total damages prevented divided by cumulative M costs (HQ will calculate) Special legal mandates – Y or N (describe in remarks) Safety issues – Y or N (describe in remarks) 		

III-5. Budget Increments and Ranking. In order to achieve the objectives shown in Table III-1, budget increments have been established to assure uniformity across the country in building annual budgets from the same point. Budget increments reflect the eligibility criteria described in the following paragraphs. Increment 1 (Initial) will receive priority consideration for budget development. Increment I will receive priority consideration for budget formulation and is the business lines "initial" program. Other increments are described in detail in the Definition/Glossary section in the main EC. These increments in conjunction with the business line budget objectives and ranking criteria will assist in making informed and wise budgetary decisions to support the F&CSDR business line goals. All increments must be prioritized by each MSC and across appropriations except for increment "9" which is not budgetable.

Ranking of the program will be based performance measures and risk-based indices as indicated in Table III-1 and detailed information provided in the F&CSDR data spreadsheet. In order to address the on-going Dam Safety Program, dam safety projects will be ranked using the Dam Safety Action Classifications (*DSAC*) values and as established by HQUSACE. These classifications have been determined for USACE dams which have undergone Screening for Portfolio Risk Assessment (*SPRA*) by agency dam safety experts, and concurred with by USACE Senior leaders. **See ANNEX B CONSTRUCTION AND FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES - Dam Safety**

Assurance & Seepage/Stability Correction Program, paragraph B-2.5, Table B-1 for *DSAC* definitions and Annex C – Project Operation and Maintenance – Dam Safety, paragraph C-2.2.g.

- a. Systems Approach and Risk Management
- 1. Consistent with the Civil Works Strategic Plan a systems approach or watershed approach is needed to ensure that investments are integrated into a whole that preserves or enhances performance and sustainability at the system level.
- a) This requires consideration of the investment needs and priorities of all the business lines within the watershed. A systems based approach is a logical step toward coordination and focusing on requirements for making informed investments while providing maximized benefits to the public. It provides the structure for managing entire systems rather than separate elements.
- b) Systems and/or watershed principles approach flood risk management on a system-wide basis, taking into account varied land use, and flood risk reduction needs. They integrate planning and flood risk management while promoting regional funding and planning which offer regional benefits and information for making wise investments, in order to provide maximized safety to communities and stakeholders. HQUSACE has established a national Dam and Levee Safety Program for studies, construction and interim risk reductions measures and long-term investments plans to minimize risk at high risk projects. These investments are captured through long range planning and multi-year development plans.
- c) All FY 2009 budget item requests (studies, construction, and O&M) shall be based on each MSC FYDP and using systems and watershed principles which will include the a System codes and USGS Hydrologic Unit Classification (*HUC*) sub-region (4 digits) codes. USGS HUC codes may be found at http://water.usgs.gov/GIS/huc_name.html and the System codes are found in the Annex C "Operations and Maintenance "
- d) MSCs will identify all systems and watersheds within their respective regions of the US and develop budget priorities that are consistent with investing in one or more of the following aspects of the system; in the highest risk portions of the system; that will result in the most improvement in performance; that contribute to increased reliability and safety; that contribute to increased flood damages prevented; that contribute to addressing significant regional or national ecological problems.
- e) A system will generally be identified as a watershed, and may include multiple individual projects and components. Some large watersheds could be comprised of more than one system (e.g. the Mississippi River watershed has the Upper Mississippi River system, the MR&T system, the Ohio River and Tributaries while the Great Lakes is a system itself). Analytical perspectives should be, developed to help determine the mix in FY2009 of investments in maintenance, operations improvements, reallocation, major rehabilitation, new construction, planning, and design that will maximize system efficiency, safety, reliability and sustainability over time.
 - 2. Investigations (I), Construction (C) and Operations and Maintenance (O&M) appropriations
- a) Studies (reconnaissance and feasibility) and PEDs for new projects and separable elements that are consistent with policy and have multiple outputs (System, watershed or multi-purpose) will be budgeted in the primary business line. When the project moves into construction, the construction requests and engineering and design during construction activities will be by appropriate business line.
- b) System or Watershed Studies Required only for Reconnaissance phase and Feasibility studies. Studies normally do not fall neatly into anyone business line but overlap one or more such as

Environmental, Water Supply and Ecosystem Restoration. The study may produce a system, watershed or regional needs analysis that identifies opportunities and impediments; a range of alternatives; or a regional or basin-wide strategy that identifies implementable actions for the future for some or all of the stakeholders within the system, watershed or region; or result in a feasibility report for authorization. These studies will be evaluated on the basis of its analytical and relationship components. Any budget request for a study that is in accord with these principles should be scored using the criteria provided below. These criteria have been developed to help identify potentially high performing studies for ranking purposes. This score is in addition to the other scores or ranking criteria for the primary business line but will not be added to those scores. Instead it is intended to be a unique evaluation tool for system, watershed or regional studies.

(1) Relationships:

(2) Analysis:

- (c) A combination of recommended actions addressing multiple challenges to be undertaken by various partners and stakeholders is identified and may result in a System or Watershed Management Plan. 2 points
- c) Combined Flood Risk Factors capture the non-monetary aspects of flood damage reduction projects. The depth, velocity and warning time factors should be assessed for the with-out project condition and should be representative of the average hydrologic conditions in the project area. They should represent conditions in the flooded area that are, in general, the most likely to cause severe injury or loss of life. Similarly, the population and threaten population at risk (*PAR and TPAR*) help quantify the potential population in the affected area. Special considerations should be highlighted in the Risk Remarks field. A proxy for residual economic damages will be calculated from the Average Annual Damages and Average Annual FDR Benefits fields.

- d) The Operations and Maintenance (O&M) budget will be formulated on a system and watershed basis using the HQUSACE System codes and 4-digit *HUC* codes and, if Congress concurs on the benefit of planning and carrying out the O&M program in accordance with system-wide priorities, the O&M program would be managed by systems and business line, rather than project-project. Therefore, the O&M program should be developed to help determine the mix in FY2009 of investments in maintenance and operations improvements using a system based approach for O&M budget item requests and consistent with each Division/District Infrastructure Management Plan. This will allow managers in the field more flexibility to address uncertainties and change conditions throughout the fiscal year, consistent with budget and appropriations decisions and will maximize system efficiency, safety, reliability and sustainability over time.
- e) A risk assessment involves identifying sources of potential conditions, assessing the likelihood or confidence level that they will occur and the consequences if it does occur. Project condition classifications for budget requests shall be developed for each project/maintenance budget item in accordance with the Table III-2. These classifications will provide for the initial basis for capturing the true state of the infrastructure or component thereof. In addition, these classifications provide the foundation for managing USACE infrastructure uniformly and consistently using asset management principles, systems and risk-based condition indices for operating and maintaining projects while directly embracing the Program Assessment Rating Tool initiative.
- f) Unsatisfactory performance does not necessarily include catastrophic failure, but rather poor performance under a given condition or operations and under constraints resulting in a reduction of project benefits or preventing the project from fully operating as authorized. In order to capture and incorporate the "consequences" effects of unsatisfactory performance, a series of factors have been developed. These factors represent the potential impacts to the project from a national, regional and local perspective and are defined in Table III-3. These factors include the Dam Safety Action Class (DSAC) classification, the population at risk (PAR) in the affected area of the facility, the disruptive and economic impacts, and potential environmental mitigation costs.
- g) The Population At Risk (*PAR*) is defined as the number of people (lives, works, transits) located in the floodplain without the project in place. The Population Affected (*POP AFFECTED*) is the number of people (lives, works, transits) located in the floodplain (*subset of the PAR*) afforded risk reduction by the project at its design level. In addition, as a factor used to assess combined risk, Threaten Population At Risk (*TPAR*) is defined as a subset of the *PAR* which represents the residual population or number of people who remain in the flood plain for a flood event greater that the project design event.

TABLE III-2			
Performance Reliability Assessment Standards			
Condition Classification	Definitions		
A Adequate	 There is a high level of confidence that the feature will perform well under the designed operating conditions. This confidence level is supported by data, studies or observed project characteristics which are judged to meet current engineering or industry standards. There is a limited probability that the verified degraded conditions will cause an inefficient operation, or degradation or lose of service. 		
B Probably Adequate	 There is a low level of confidence that the feature will perform well under designed operating conditions, and may not specifically meet engineering or industry standards. The feature may require additional investigation or studies to confirm adequacy. There is a low probability that the verified degraded conditions will result in inefficient operation, or degradation or loss of service. 		
C Probably Inadequate	 There is a low level of confidence that the feature will not perform well under designed operating conditions, and may not specifically meet engineering or industry standards. The feature may require additional investigation or studies to confirm adequacy. The feature does not meet current engineering or industry standards. There is a moderate probability that the verified degraded conditions will result in inefficient operation, or degradation or loss of service 		
D Inadequate	- There is a high level of confidence that the feature will not perform well under designed operating conditions. Physical signs of distress and deterioration are present. Analysis indicates that factors of safety are near limit state. The feature deficiencies are serious enough that the feature no longer performs at a satisfactory level of performance or service. - There is a high probability that the verified degraded conditions will result in inefficient operation, or degradation or loss of service.		
F Failed	 The feature has FAILED Historically the feature regularly experiences scheduled or unscheduled closures or loss of service for repairs. 		

- h) Table III-2 and Table III-3 together form the basis of the "Relative Risk" based methodology which supports the Corps risk-based direction for making investments decisions.
- i) The "Relative Risk" matrix box values are determined from Table III-4 using both the "Condition Classification" and the "Consequence Category" values established for each project or budget item. Note that more than one project/item can populate a box. Matrix values will be used is making informed and wise investments, minimizing risk and providing maximized benefits to the public. Ranking of within each box (if required) will be determined as appropriate and based supporting justification from the MSC for projects at appear to be "out of place" in their matrix table.

TABLE III-3					
	Consequence Rating Criteria				
Category	Definitions				
ı	PAR → >100,000, TPAR → >1,000 National to Multi-Region/Basin disruption of essential facilities and access. Economic Impact-Massive Losses (>\$1B). Impact-National Massive environmental mitigation cost.				
П	PAR → 50,000 to 100,000, TPAR → 500 to 1,000 Multi-Regional/Basin disruption of essential facilities and access. Economic Impact-Multi-regional losses. (\$500M to \$1B) major public and private facilities. Very large environmental mitigation cost.				
III	PAR → 25,000 to 50,000, TPAR → 250 to 500 Regional disruption of essential facilities and services Economic Impact-Regional losses, (\$250M to \$500M). Large environmental mitigation cost.				
IV	PAR → 10,000 to 25,000, TPAR → 125 to 250 Local to Regional disruption of essential facilities and access. Economic Impact-local to regional (>\$125M to \$250M). Medium Environmental mitigation cost.				
v	PAR → <10,000, TPAR → <125 Local disruption of essential facilities and access. Economic Impact-local to regional (<\$125M). Minimal to no Environmental mitigation cost.				

j) It is critical that an honest, defendable assessment and evaluation of each project be made for the ranking process in order to accurately provide a snapshot of where scarce resources need to be allocated to provide for;

- a "risk-based" solution
- efficient, effective, reliable and safe operations for projects and facilities in accordance with their authorized purposes; and
- the unmet F&CSDR business line needs.

	TABLE III-4					
Relative Risk Ranking Matrix						
	Condition	Condition Classification				
		F	D	С	В	Α
Conseq	uence	(Failed)	(Inadequate)	(Probably Inadequate)	(Probably Adequate)	(Adequate)
	ı	1			*	18
ıry	II			n	44	a g
Consequence Category	III		•	12	a a company of the co	27
ŏ	IV	10	43	15	18	24
	v	12	18	21	23	25
		Med-High Cons Medium Conse	nce, Low Reliab equence, Low-M quence, Medium nce, Med-High R	1ed Reliability (I n Reliability (Pro	bably Inadequat	е)
		Minimal Conse	quences, High R	Reliability (Adequ	uate)	

b. Initial Increment. The initial program is the first business line increment (Increment 1) for the business line. Budget items must comply with the following rules for each appropriation as follows:

1. Investigations (I)

- a) Studies and pre-construction engineering and design (PED) and design of specifically authorized and MR&T investigations are considered in the Investigations appropriation.
- b) For new start or continuing PED projects, project economics must be justified as indicated in paragraph 10 b. (1) (a) "Project Economics".
 - c) Seamless PEDs are considered to be a new phase

2. Construction (C)

- a) The Construction appropriation includes: specifically authorized projects, replacement projects, initial fill for beach nourishment projects, dam safety projects, deficiency corrections projects and dam safety, seepage, static instability studies (formerly in O&M in FY07) program. For new start or continuing construction projects, project economics must be justified as indicated in paragraph 10 b. (1) (b) "Project Economics".
- b) Dam Safety Modification Evaluation Reports for Dam Safety Assurance Projects/Safety, and Seepage/Stability Correction Projects, and Levee Safety projects which the Corps still retains responsibility will be submitted under construction appropriation. Each dam safety assurance study (or group of similar studies for the same project) (WCC = 60233) should be a line item in the submission and identified with phase code (PHASE = SS) and the Dam Safety Action Classification code (DSAC = 1, 2, 3, 4, or 5). Dam Safety Studies will be included after Increment 1. The final determination for Dam Safety studies and projects will be made at HQUSACE.
- (1) The <u>PURPOSE</u> field should include what is being studied, the expected report completion date, if not completing in the PY, the additional funding required to complete, and estimated cost (magnitude) of the construction cost. Additional increments may be included but it must be clearly shown what the additional funding would accomplish. In general, the initial increment will be to continue existing contract/proceed at existing level of effort, and additional increments would be to accelerate the work due to criticality of the study.
- (2). These individual studies will be submitted and evaluated at HQ with the dam or levee safety staff and ranked accordingly. The highest ranking studies will be combined, by HQ, into "the wedge" as part of the Remaining Items account and included in the final budget presentation. This information is needed for defending the amount of the dam safety "wedge" in the Construction program and the expected overall cost of the dam safety program.

c) Contracts

- (1) Each contract included in the initial increment and any additional increments must be shown separately to allow individual funding decisions based on the performance metrics and must be shown in priority order by District and MSC Rank.
- (2) All construction contracts will be funded in accordance with Construction Increment Guidance see Definition/Glossary section of the EC.

(3) Initial Increment. Contract will be fully funded if their estimated total value is \$20M or less and includes associated contract management, E&D during construction, and mandatory real estate activities.

3. Operations and Maintenance (O&M)

- a) The total of Increment 1 plus Increment 2 represents the minimal program. It will be based on the MSC 5-year average (75% of the amount in Table C 2.2, See Annex C Operations and Maintenance) by of the O&M President's Budget amount as distributed by MSC. All operations requirements will be submitted separately from maintenance requirements.
- b) The initial increment (Increment 1) will seek to provide the greatest benefit for the investment consistent with performance measures and sufficient to meet a minimum level of service requirements for operation and maintenance of the existing infrastructure. Minimum level of service is further defined as the ABSOLUTE minimum requirements needed to maintain basic project operations without jeopardizing project purpose and function. The philosophy is to use initial increment as the minimum level of service to account for critical routine operation and maintenance activities. See Definition/Glossary section for O&M Increments definitions.
- c) Detailed project descriptions, justifications and purpose of the increment funds strengthen the funding request. Use approved inspection reports (with dates) to strengthen justification.
- d) Simple pro-rata allocations by district and / or project will not result in the expected performance based budget and should not be used.
- e) Contracts shall be according to current guidance as provided by CECW as contained in EC-11-2-189, current edition.
- f) This initial amount is for all MSC's O&M requirements as prioritized below. The following items may be included in the initial increment:
 - Minimum Level of Service operations costs (usually dams) may not be full 24-hour operation on site
 - Minimum Level of Service maintenance (usually dams) not all maintenance needs
 - On-going major maintenance does not include new major maintenance
 - Critical routine maintenance does not include routine maintenance
 - Operation and maintenance requirements for Critical Infrastructure Security Program (CISP) projects
 - Dam Safety Program. Related work and interim risk reduction measures will be included and prioritized based on the *DSAC* classifications and program implementation guidance. See Annex C – Operations and Maintenance – Dam Safety
 - On-going (National Priority studies (dam safety work in Construction) and work) replacements of high risk projects – does not include new replacements initial increment
 - Screening for Portfolio Risk Assessment (each District shall screen 35% of their inventory in FY09)
 - Inspection of Completed Works (ICW), Flood Damage Reduction and Federally
 Authorized Shore Protection Systems and the Levee Safety Program. These programs
 will be based on systems approach using both the System codes and the 4-digit HUC
 codes and is to be budgeted accordingly. Districts will indicate in the remarks, by state

the total projects in these programs under its respective System and HUC code, the total to inspect during this budget cycle and the funds required for each state. It is not expected that 100% will be in the initial increment. See Annex C – Operations and Maintenance – Inspection of Completed Works and Levee Safety. The following items may be included in the initial increment:

- General program coordination and management requirements;
- Routine and Periodic inspections at pre-defined inspection intervals for Federal and Non-Federal Systems based upon current program implementation guidance and regulations;
- Pre-storm inspections of Federally authorized Hurricane Shore Protection Systems;
- Pre-inspection preparation and post inspection reporting and notification requirements;
- Any coordination efforts with public sponsors or stakeholders;
- Technical review and approval of sponsor proposed alternations, improvements, excavations or construction which are in accordance with Corps policy and guidance for such proposals
- Routine updates of National Levee database and project O&M manuals.
- 2nd round risk assessments, management and coordination. (Initial assessments are to be centrally funded by HQUSACE). Risk Assessment for non-Federal Projects only if directed and funded by Congress;
- Scheduling of reservoir operations, including necessary instrumentation, etc.
- Cooperative gauging program costs
- Water management program costs
- Critical sedimentations surveys limited to projects where sedimentation would have imminent adverse impact on flood control storage
- Update of water control manuals, limited to coordination, and dam tender instruction costs
- Studies and surveys for updating flood damage functions for oldest 10% of projects
- Legally required water quality modeling
- O&M for environmental compliance for threatened/endangered or other federally recognized significant species
- Update drought contingency management plans in areas of severe droughts.
- g) Joint Activities Joint Costs All non-Cat/Class 300 projects, activities previously considered as "Joint Activities" will be included in the project's predominant business line. See Annex C, Paragraph C-2.3.b. Joint Activities Joint Costs for additional guidance.
- c. Additional Increments. Additional increments are prioritized, and then added to the "Initial" program. Priorities are based on there relative efficiencies and effectiveness in accomplishing approved performance objectives, goals and missions.

1. Investigations (I)

a) All additional budget requests for studies, or meaningful portion of PED and new phases of studies, will be included in a MSC prioritized program. Additional amounts and priorities must be justified based on the performance measures and ranking criteria displayed in Table III-1. There may be more than one budget line item for a study, project, or separable element meeting the criteria for an increment. Example: If a contract and significant staff time were required to meet the "optimal" schedule in the PMP, there may be two funding lines for that project in the increment. For any exceptions, the rationale must be documented in the remarks column.

- b) See Definition/Glossary section for Investigation Increments for definitions.
- c) Systems or Watershed studies and/or projects will be given priority in accordance with the following criteria:
- (1) Requires consideration of water resources development and management in the context of multiple purposes rather than single purposes, and, thus, facilitates the search for comprehensive and integrated solutions.
- (2) Improves opportunities for public and private groups to identify and achieve common goals by unifying on-going efforts and leveraging resources.
- (3) Identifies a combination of recommended actions (a System or Watershed Management Plan) to be undertaken by various partners and stakeholders in order to achieve local, tribal, regional, and national water resources management goals identified in the study and may or may not identify further budgetable Corps studies or implementation projects.
- (4) Leverages resources, including cost shared collaboration, and integrates programs and activities within and among Civil Works programs, and with other Federal, tribal state and non-governmental organizations, to improve consistency and cost effectiveness;

2. Construction (C)

- a) Dam Safety work items identified as DSAC = 3 shall be ranked within Increment 2. Dam Safety work items identified as DSAC = 4 and 5 shall be ranked as lower, capability level funding priorities.
- b) For shore protection projects that require beach re-nourishment in the PY, the necessary Federal funds should be identified, along with all associated performance data, and assigned an increment code of "9".
 - c) Contracts.
- (1) All construction contracts will be funded in accordance with Construction Increments see Definition/Glossary section.
- (2) Additional Increment(s). Additional funding increments are for each project in support of logical project execution which contributes to the program goals. The last-added funding increment for each project, together with the Initial Increment and any previously added increments, will add to the project capability.
- (3) Each budget line item representing a contract will include associated management, real estate and contract (with associated administration requirements) costs. Additional increments must be clearly shown what the additional funding would accomplish as shall be described in the <u>REMARKS</u> field. Funding decisions must be based on performance metrics for that project.
 - 3. Operations and Maintenance (O&M)
- a) Use Increment 2 to account for critical non-routine activities on projects. The total of Increment 1 plus Increment 2 represents the minimal program and is limited to 75% of the amount in Table C 2.2 by MSC. See Definition/Glossary section for O&M Increments.

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- b) Additional increments (up to 3 more beyond initial) for both operations and maintenance may be included but it must be clearly shown what the additional funding would accomplish. In general, initial increment requests will be to continue existing contract or proceed at existing level of effort, and additional increments would be to accelerate the work due to criticality of the effort. For example, a budget request of \$x for maintenance (or operations) in Increment 1 allows operation at 80% of design and another request of \$y for maintenance (or operations) in Increment 2 brings operation up to 95% of design. By considering the additional 15% of design performance with the average annual damages and number of people in the floodplain, a relative ranking of this project can assigned (both at the MSC and finally at the HQ levels).
- c) Joint Costs See Annex C, Paragraph C-2.3.b. Joint Activities Joint Costs for additional guidance.
- d) For projects, or segments of projects, that have dam safety issues, special effort should be made to ensure that all funding requests are prioritized based on risk and reliability. Major studies, repairs, monitoring, instrumentation, modifications and rehabilitation should be prioritized as part of the MSC Portfolio Risk Assessment screening (*PRA*). The results of the *PRA* screening should include rankings (*DSAC* Classification) based on probability of failure, human risk and economic risk; an estimate of annual funding requirements for the Seepage and Stability Wedge funds for FY09-FY14; and, lists of risk reduction for major types of problems. The funding for these activities has been moved from O&M to Construction. Normal O&M activities that impact on the safety of the structure but are not specific dam safety activities (WCC=60233) should continue to requested in O&M.
- e) Inspection of Completed Works (ICW), Flood Damage Reduction and Federally Authorized Shore Protection Systems and the Levee Safety Program. Include additional program requirements not included in the initial increment and prioritize accordingly.

III-6. Data Required.

The data required for ranking PY budget requests as the national budget will be built using criteria provided in this annex and information contained in the F&CSDR Business Line spreadsheet as provided by each MSC.

DEFINITIONS. The definitions for individual data elements are on the "Definitions" tab of the spreadsheet. Data elements required for the FY09 budget submission are contained in the "Criteria Matrix "tab.



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APPENDIX IV HYDROPOWER

- **IV-1. Background.** The earliest hydropower plants at Corps projects were constructed at navigation dams, as joint efforts with electric utility companies. The utilities built the power plants, and the Corps usually built the navigation locks. Later, Congress authorized the Corps to construct its own power plants at dams being built for flood control, navigation and other purposes. Most of these projects were placed into service during the decades following World War II. The Corps is the largest owner/operator of hydroelectric power plants and the single largest producer of hydroelectric power in the United States. Many of the projects at which hydropower facilities are located provide other outputs such as navigation, flood damage reduction, water supply, ecosystem restoration and recreation. The Corps has 76 plants with 356 generating units representing a total installed capacity of 20,750 megawatts and produces about 70 billion kilowatt-hours a year.
- **IV-2. Program Mission.** The mission of the Corps' Hydropower Business program is to provide reliable hydroelectric power services at the lowest possible cost, consistent with sound business principles, in partnership with other Federal hydropower generators, the Power Marketing Administrations, and Preference Customers, to benefit the Nation.

IV-3. Civil Works Program Objectives.

- a. Table IV-1 links the Civil Works (CW) Strategic Plan of March 2004 with the Hydropower Business program strategic objectives and performance measures. A key assumption in the development of the 2004 CW Strategic Plan was the availability of unconstrained resources to achieve program objectives. The development of the FY 2009 Hydropower program budget will acknowledge a constrained budget environment and, in that context, will attempt to improve budget development based on unambiguous strategic objectives and performance measures.
- b. The purpose of the Civil Works Five Year Development Plan (FYDP) is to present an overview on how funding for Civil Works programs over a five-year period will produce results that contribute to the achievement of strategic goals and objectives outlined in the Civil Works Strategic Plan. See paragraph 8 (b), "Civil Works Five Year Development Plan," of the CW Strategic Plan. The FYDP for the Hydropower Business Line provides a regional (System and/or Watershed) management tool for use in accomplishing the Corps of Engineers' hydropower mission while providing the budgetary framework necessary for program development. They present an opportunity to objectively evaluate planning, design, construction, and operations and maintenance phases of new, continuing, and existing projects broken down into the three major appropriations Investigations (I), Construction (C), and Operations & Maintenance (O&M).

	TABLE IV-1 Strategic Plan Objectives and Performance Measures			
1.	Invest in hydropower rehabilitation projects when the benefits exceed the costs.	Remaining Benefits to Remaining Cost Ratio (project specific measure)		
2.	Future: Invest in environmentally sustainable hydropower infrastructure improvements where economically justified.	- To be developed in the future.		
3.	Provide reliable hydroelectric power.	- Unit forced outage rate Physical condition/failure risk index.		
4.	Provide peaking hydroelectric power.	- Peak unit availability rate.		
5.	Maintain capability to provide hydroelectric power efficiently.			
6.		 De-rated generating units. No measures identified for Joint Activities, but funding requests must be for critical requirements to avoid forced facility closures, public or worker life safety concerns, and/or legal mandates or treaty and Endangered Species Act compliance requirements for the budget year. 		

IV-4. Program Performance Measures.

- a. Competition for Federal funds is very intense and getting tighter each year. In recent years, very difficult choices had to be made in distributing scarce Federal dollars. In a constrained funding environment, the many worthwhile maintenance needs must be prioritized across the entire spectrum of projects. This means that available resources have to be concentrated on the highest priority projects in terms of maximizing benefits.
- b. In the Hydropower Business program, funds are being directed primarily to those facilities that will result in increased unit availability and reliability for power generation, improve the efficiency of an aged infrastructure, and rehabilitate facilities in a deteriorated state. The Corps' Hydropower Business Line is well established and valued. However, its ability to continue to provide clean environmentally sustainable energy at the lowest sustainable cost to meet the needs of current and future generations is dependent upon adequate investments. Such investments provide for the necessary investigations of problems and development of projects, timely rehabilitation of authorized projects, facility modernization or improvement, reliable operation and availability of generating units, preventive maintenance, condition assessments and adequate data collection and improvements to increase operational efficiencies. The purpose of this budget guidance is to ensure the development of a convincing rationale and justification of the Hydropower Business Line budget request.
- c. Accordingly, a nationwide perspective must be maintained to ensure that available funding provides the greatest public benefit for the investment. The safety, security and environmental sustainability of existing hydropower infrastructure must be maintained, new evaluations to address high

yield modernization of hydropower infrastructure must be conducted, critical maintenance activities backlog must be reduced, and uncompleted projects must be brought on line quickly so that benefits may be achieved as soon as possible. To achieve the hydropower goal stated above, the program objectives and ranking criteria outlined in Table IV-2 are established for the FY 2009 program. Each of the objectives and criteria are designed to demonstrate that each budget item makes sense and directly contributes to meeting the objectives and stated goal of the program.

TABLE IV-2 Hydropower Budget Objectives, Performance Measures and Ranking Criteria			
CW Program Objective	Budget Objective	Ranking Criteria	
1,2, 3, 4, 5 and 6	Adequately fund R&D products to gain future efficiencies (I)	Not applicable to Hydropower Business Line. R&D is funded under remaining items for the overall Civil Works Program.	
1,2, 3, 4, 5 and 6	Complete ongoing major rehab projects to start getting benefits (C)	Remaining Benefits-Cost Ratio Annual net benefits Completion in budget year.	
3, 4, 5 and 6	Assure that projects perform reliably as designed (O&M)	Number of De-Rated Units (Plant Level). MW-Yrs (Specific Investment) Portion of nameplate capacity restored from investment made multiplied by remaining life of unit in years. This does not include units de-rated for lack of water, regulatory requirements, policy decisions unrelated to physical deficiencies or other unmanageable conditions.	
3, 4, 5 and 6	Make sure projects are available for peaking power requirements (O&M)	MW-Yrs: Benefit for restoration of generating unit in Forced Outage status (MW nameplate capacity multiplied by remaining life of unit in years).	
1, 3, 4 and 5	Ensure capability to provide power efficiently (O&M)	Improvement of risk based plant condition assessment for key power components based on the HydroAMP tool condition/failure risk assessment method. MW-Yrs (Specific Investment) Where HydroAMP data is lacking, benefits for improvement in Average Unit Age may be used as a continuing interim measure of plant condition. Nameplate capacity multiplied by life extension in years achieved by investment made.	
5	Ensure that projects perform to meet authorized purposes and evolving conditions.	No forced facility closures in the budget year. No project public access life safety deficiencies in the budget year. No project workplace life safety violations. No court ordered, legal mandate or treaty violations (includes ESA) in the budget year.	

- d. In order to achieve these objectives and assure uniformity across the CW programs in building annual budgets, minimum funding levels have been defined. Also established is a system of performance measures that are more detailed than those in the Civil Works Strategic Plan. This will permit objective evaluation of incremental investment choices to assure that budget requests above the minimum provide the greatest benefit for the investment. These minimum funding levels and the system of performance measures will go a long way to making informed and wise budgetary decisions to support the Hydropower Business Line mission goal of improving reliability and minimizing cost and risk.
- e. Effective risk management requires an inventory of each class of assets, some form of standardized condition assessment, and a method to evaluate the reliability of these assets and consequences of unsatisfactory performance. But to effectively balance tradeoffs and integrate mission objectives through a risk management approach will require some common objectives or metrics and an integrated framework. Risk management evaluates which risks identified in the risk assessment process require management and selects and implements the plans or actions that are required to ensure that those risks are controlled. These risks must be communicated effectively to our stakeholder. Risk communication take place and involve an interactive dialogue between stakeholders and risk assessors and risk managers which actively informs the other processes.
- **IV-5. Program Budget Screening Criteria**. Definition of desired performance targets were developed with an understanding of past funding constraints and projected funding constraints.
- a. New Start Definition New start is defined as an active authorized study or project which has not received an initial work allowance and that fits into at least one of the following business lines: navigation, flood and storm damage reduction, environmental restoration, water supply, hydropower, or recreation.
- b. The New Start definition will apply to Reconnaissance studies and Construction Projects, as well as any new efforts under the Remaining Items category. Any PED, which has not been funded in the Conference Report for the past three years, will also be considered a New Start. For Feasibilities, see New Phase definition. Except a new start decision would be needed for a feasibility study being initiated after, say, an O&M-funded appraisal without an intervening reconnaissance new start decision. Basic eligibility criteria for construction new starts are found in Annex B.
- c. New Phase Definition A study or project is considered to be in a NEW PHASE once it has completed the current phase that is funded and ready for budgeting in the follow-on phase, e.g. from Reconnaissance to Feasibility or Feasibility to PED, e.g. Seamless PEDs are a new phase.
- **IV-6. Program Rating and Ranking Criteria.** In order to achieve the objectives shown in Table IV-2, budget increments have been established to assure uniformity across CW programs in developing annual budgets from the same perspective. Budget increments reflect the eligibility criteria described in the following paragraphs. Increments 1 and 2 will receive priority consideration for budget development and represents the Hydropower Business Program "Initial" budget. Other increments are described in detail in paragraph 13 c(1)(f) under Submissions" in the main text of the EC. These increments in conjunction with the business program budget objectives and ranking criteria will assist in making informed and wise budgetary decisions to support the Hydropower Business Program's goal. All increments must be prioritized by each MSC and across appropriations. Ranking of the program will be based on performance objectives and risk-based indices as indicated in Table IV-2 and detailed information provided in the Hydropower Business Line Criteria Matrix data spreadsheet.
- a. Federal Energy Regulatory Commission (FERC) Reliability Compliance Standards. The Corps of Engineers Hydropower Business Program will continue to voluntarily meet reliability requirements established by the North American Reliability Corporation (NERC). Each MSC should include in their

budget submissions activities that would be required to meet electrical reliability standards as approved by FERC and published by NERC. These activities will be ranked and considered separately their unique "ceiling." Approved reliability standards can be founded at http://www.nerc.com/~filez/standards/Reliability Standards Regulatory Approved.html. Table IV-4 contains the approved reliability standards that are applicable to the Corps as a Generator Owner and Generator Operator. Reliability compliance activities that are not part of Increment 1 routine activities should be submitted in a separate increment. See Section IV-6 e(3) below.

- b. Systems Approach and Risk Management. Consistent with the Civil Works Strategic Plan, a systems or watershed approach is needed to ensure that investments are integrated into a whole that preserves or enhances performance and sustainability at the system level. This requires consideration of the investment needs and priorities of all the CW Business Programs within the watershed. A systems based approach is a logical step toward coordination and focusing on requirements for making informed investments while providing maximized benefits to the public. It provides the structure for managing entire systems rather than separate elements. The Hydropower Business Line has developed risk management tools, interim risk reductions measures, and long-term investments plans to minimize the risk of forced outages or catastrophic equipment failure. These risk considerations are integrated into long range planning and multi-year development plans.
- c. HydroAMP Condition Assessment. An important tool in the Hydropower Business Line's Asset Management strategy is the HydroAMP Condition Assessment tool. The majority of critical equipment in the Corp's hydropower inventory is near or beyond its design life. Equipment reliability has deteriorated, which significantly affects system generation availability. Substantial investment to repair, refurbish, or replace existing equipment is becoming necessary. An effort within the Hydropower Business Line is underway utilizing HydroAMP to determine condition indices for all major components in the power train of each generating unit. The HydroAMP Condition Index and Risk Map should be used, whenever possible, to develop budget priorities.

All FY 2009 budget item requests (studies, construction, and O&M) shall be based on each MSC FYDP and using systems and watershed principles which will include the a System codes and USGS Hydrologic Unit Classification (*HUC*) sub-region (4 digits) codes. USGS HUC codes may be found at http://water.usgs.gov/GIS/huc_name.html and the System codes are found in the Annex C — "Operations and Maintenance "

- d. Initial Program Investigation and Construction. The initial program is defined by the criteria below for Investigation (I) and Construction (C) appropriations.
 - (1) I: There are no projects in this category for the Hydropower Business Line.
- (2) C: The initial level for each project or separable element is limited to the amount needed for earnings (no more, no less) on the contracts funded in the FY 2008 budget and continuing into FY 2009, plus engineering and design, supervision and administration, and real estate activities associated with continuing construction of that project or separable element. Projects identified in the FY 2008 budget for consideration for suspension and other projects not budgeted in FY 2008 will have a minimum level of zero.
- e. Minimum Operations And Maintenance (O&M). The minimum program for hydropower Operations and Maintenance will consist of Increments 1 and 2. Work Category Codes must be entered for each work O&M item in all increments to distinguish Power Operations and Maintenance activities from Joint Activity Operation and Maintenance activities. The Initial Increments 1 and 2 will seek to provide the greatest benefit for the investment consistent with performance measures and sufficient to meet minimum legal responsibilities for environmental compliance, operation and safety. Subsequent

increments will provide additional benefits as measured by the performance measures. Increments 1 & 2 should not exceed 75% of MSC O&M total in PY-1. Simple pro-rata allocations by district and/or project will not result in the expected performance based budget and should not be done. All increments must document performance according to the appropriate Business Line criteria. Operations activities should be submitted separately from maintenance activities, i.e., do not aggregate or sum operations and maintenance activities together as one activity. Additionally, do not aggregate operations or maintenance activities with a joint activity.

- (1) **Increment 1** Minimum Level. Activities included in this initial increment should only be critical routine activities that can be completed in the PY. Work activities that can be included in this increment are Critical Power Specific Operations and Maintenance Activities (Work Category Codes 603XX & 613XX), Critical Joint Operation & Maintenance Activities (Work Category Codes 606XX & 616XX). Also, other activities can be included to avoid maintenance staff reductions to a level that will preclude performance of basic routine preventive maintenance activities, forced facility closure, public or worker life safety concerns, or violation of court orders, legal or treaty obligations in the budget year.
- (2) **Increment 2** Minimum Level. Activities included in this initial increment should only be critical non-routine activities. Critical non-routine activities are those that must be accomplished to insure project safety, and critical maintenance actions that are required to keep the project operating and delivering benefits. Non-routine activities are actions that are "project like" in that they are a unique action with a specific beginning and end. This increment includes major maintenance and rehabilitation. Each non-routine activity must be shown separately to allow individual funding decisions based on the performance metrics and must be shown in priority order by District and MSC Rank. The combined total amounts for Increments 1 and 2, the Minimum Level (Initial) Increment, should not exceed 75% of the amount in Table C 2.2 in Annex C (O&M) by MSC.
- (3) Increment 2.5 North American Electric Reliability Corporation (NERC) Reliability Compliance Activities. Activities included in this increment should only be required activities to voluntarily meet reliability standards approved by NERC and are not included as routine activities in Increment 1. Increment 2.5 should not be combined with the Initial Increment (Increments 1 & 2) to meet the 75% requirement. These activities will be ranked separately and given special funding consideration in a budget wedge.
- (4) **Increment 3** Additional Operations and Maintenance Activities. Primarily, Increment 3 should include O&M activities that the MSC considers necessary but are not critical to minimum operation and maintenance of the facility. If there is remaining critical activities above the 75% included in the Minimum Level Increment, these activities should be included in Increment 3. Regional justification statement will be used for ranking purposes. For line item comparison purposes, the following specific repair and replacement work packages will transfer directly into P2 without aggregation with other work packages (regardless of which funding increment they are entered in) and must meet one or more of the following criteria:
- (a) Funding to restore a regionally critical generating unit that is in Forced Outage status. Benefits for ranking purposes expressed in MW-Yrs (MW of nameplate capacity of generating unit multiplied by remaining life of generating unit in years).
- (b) Funding to restore the de-rated capacity of a generating unit. Benefits for ranking purposes expressed in MW-Yrs (MW of de-rated capacity restored multiplied by remaining life of generating unit in years).

- (c) Funding to improve the condition or reduce failure risk of a critical power component under the HydroAMP condition assessment methodology. In lieu of MW-Yrs, a numeric code must be entered to reflect the component type as follows:
 - 1 = Generator
 - 2 = Turbine
 - 3 = Governor
 - 4 = Exciter
 - 5 = Transformer
 - 6 = Circuit Breaker
 - 7 = Surge Arrestor
 - 8 = Batteries
- (d) Funding to extend the life of the generating unit. Benefits for ranking purposes expressed in MW-Yrs (MW of nameplate capacity of generating unit multiplied by number of years the generating life has been extended in years).
- (5) **Increments 4** Operation and Maintenance activities that do not specifically meet the requirements above, that are deemed to be prudent and necessary, and can be completed in the budget year should be ranked in this increment. Activities that have a high expected return on investment that enable greater levels of performance in future years should be included in this capability increment.
- **IV-7. Performance Based Budget Increment(s).** Add additional budget activities for logical, needed increments that contribute to the program goals for the PY. These additional work packages should be identified with adequate data to present a clear understanding of the benefits and improved performance that can be achieved and represented by the performance measures listed in Table IV-2. Performance measures will also be used to support increased funding for major rehab of high yield hydropower facilities and all capabilities in the PY for each study and project. The studies and projects included within the capabilities need not be scheduled for completion within the PY.
- **IV-8. Joint Costs Activities.** Joint Costs are activities that cannot be assigned to one specific business line at Cat/Class 300 (Multipurpose with Power) projects. For non-Cat/Class 300 projects, joint activities should be assigned to the project's predominant business line. See Annex C-2.3(b) for guidance on Joint Cost Activities.
- **IV-9. Budget Data Requirements.** The data required from each MSC for prioritizing the budget requests for the FY 2009 Hydropower Business Line will be developed using the criteria provided in this annex and information contained in the Hydropower Business Line Criteria Matrix spreadsheet (Table IV-3). Data elements for submission are contained in the budget spreadsheet are shown in the "Criteria Matrix" tab and definitions for each data element are contained in the "Definitions" tab of the spreadsheet in Table IV-3.

TABLE IV-3



TABLE IV-4



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APPENDIX V NAVIGATION

- **V-1. Background.** The Corps has had the mission of navigation since 1824. Today we plan, design, operate and maintain projects that support 2.47 billion tons of commerce. Many of the projects provide other outputs such as flood damage reduction, hydropower, water supply, ecosystem restoration and recreation. The Corps operates and maintains 926 projects ranging from shallow-draft harbors, inland navigation systems with 240 locks at 195 sites, to major deep-draft ports.
- **V-2. Purpose.** The Corps Navigation goal is to provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.
- V-3. Civil Works Program Objectives. Table V-1 displays the Navigation Program objectives and Performance Measures published in the March 2004 Civil Works Strategic Plan. The CW Strategic Plan was developed with an explicit assumption of an unconstrained resource environment to encourage an unconstrained assessment of the nation's water resources needs and potential Corps response. Preparation of the Program Year (PY) for FY 2009 Budget Request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures. Table V-2 displays the program objectives, performance measures and/or performance ranking and rating criteria which support and/or supplement Table V-1 program objectives and performance measures to reflect the near term realities of a constrained PY budget environment.

TABLE V-1			
Navigation Objectives ar	nd Performance Measures		
Program Objectives	Performance Measures		
Obj.1: Invest in navigation infrastructure when the benefits exceed the costs.	BCR (project specific measure)Annual net benefits		
Obj. 2: Support sustainable regional, basinwide, or watershed planning and activities in partnership with others.	 Percent of projects recommended in Chief's reports that apply watershed principles 		
Obj. 3: Fund high-priority O&M.	Risk & Reliability: Facility Condition Assessment and Impacts		
Obj. 4: Operate and manage the navigation infrastructure so as to maintain justified levels of service in terms of the availability to commercial traffic of high-use navigation infrastructure (waterways, harbors, channels).	- Risk and Reliability: Facility Condition Assessment and Impacts		

V-4. Navigation Performance Measures.

- a. Competition for Federal funds is very keen and getting tighter each year. In recent years, we have had to make some very hard choices in distributing scarce Federal dollars. In a constrained funding environment, we must prioritize the many worthwhile investment opportunities and ongoing maintenance needs across the entire spectrum of projects. This means that we have to concentrate available resources on the highest priority projects in terms of reducing risk and providing optimal reliability to maximize benefits. In the Navigation program, we are directing funds primarily to those harbors and waterway systems and segments that provide the highest return from commercial navigation. The Corps Navigation program is well established and valued, however our ability to continue to provide navigation to our ports, waterways and harbors to meet the needs of current and future generations is dependent upon adequate investments. Such investments provide for the necessary investigations of problems, and development of solutions, timely implementation of authorized projects, reliable operation and availability of our infrastructure, preventative maintenance, facility modernization or improvement, and adequate data management information systems, which are all directed at increasing operational capabilities and efficiencies. The purpose of this budget guidance is to ensure the development of convincing rationale and justification of the budget request.
- b. Accordingly, a nationwide perspective must be maintained to assure that available funding provides the greatest public benefit for the investment. The safety, security, and reliability of our existing infrastructure must be maintained; new investigations to assure high yield navigation investments are advanced; and projects that are under construction must be brought on line quickly so that benefits may be achieved as soon as possible. Inland navigation has been and continues to be a significant contributor to the national and international movement of bulk commodities. A cursory review of the Corps inland navigation assets reveals that on a nationwide basis over half of all projects have or will soon exceed their original 50-year design life. In response, the Corps must pursue an on-going program to rehabilitate, modify, or replace structures and components exhibiting a deteriorating ability to meet system demands.
- c. To achieve the Navigation objectives in Table V-1, the following budget strategies and performance measures are established for the PY budget development. Each of the budget strategies and measures are designed to demonstrate that each budget item makes sense and contributes to the Navigation goals and supporting objectives.

V-5. Budget Screening Criteria.

- a. New Start Definition A New Start is defined as an active authorized study or project which has not received an initial work allowance and that fits into at least one of the following Business Lines: navigation; flood and storm damage reduction; environmental restoration, water supply, hydropower, or recreation.
- b. The New Start definition will apply to Reconnaissance studies and Construction Projects, as well as any new efforts under the Remaining Items category. Any PED, which has not been funded in the Conference Report for the past three years, will also be considered a New Start. For Feasibilities, see New Phase definition. Except a new start decision would be needed for a feasibility study being initiated after, say, an O&M-funded appraisal without an intervening reconnaissance new start decision. Basic eligibility criteria for construction new starts are found in Annex B.
- c. New Phase Definition A study or project is considered to be in a NEW PHASE once it has completed the current phase that is funded and ready for budgeting in the follow-on phase,

(e.g. from Reconnaissance to Feasibility or Feasibility to PED). Seamless PEDs are a New Phase.

TABLE V-2		
Navigation Budget Performance Measures		
Budget Strategy	Ranking Criteria	
Keep ongoing studies or PEDs going if likely to	Date of Agreement – executed or expected	
produce recommendation for project (I) or start	Commercial tonnage increase	
new phase of studies or PED (I)	% reduction in delay costs	
	Years to complete	
	Watershed study –y/n	
	Benefit to Cost Ratio – PED only	
Complete ongoing construction to start getting	BCR	
benefits of high performing navigation projects		
(each contract should be separate line item) (C)	Other purpose outputs by BL	
Initiate and complete replacements and	Inland Waterways Users Board priority	
rehabilitations (C and O&M)	Relative risk of failure	
	BCR	
Initiate and complete dam safety/dam seepage	Relative risk of failure – risk compared to other	
projects (C)	Corps dams (portfolio risk assessment if	
	available in PY)	
	Critical loss of pool and /or navigation	
	Other purpose outputs by BL	
Operations - Assure that projects perform as	% of time project is available to operate as	
designed (O&M)	designed	
	Cumulative benefits	
	Cumulative O&M costs for above benefits (over	
	set time period)	
Maintenance - Make sure projects are safe to	% of closures – scheduled and unscheduled	
operate (managing risk) (O&M)	Condition assessment and impact	
Fund adequate data collection (Remaining Items (I, C, O&M)	Consequence of inadequate data	

V-6. Rating And Ranking Criteria for PY Budget Development.

a. Stakeholders' Perspectives for Funding Needs and Development of Five-Year Management Plans. From the National Navigation Performance Metrics workshops and regional stakeholders' conferences, contributions from the Stakeholders and Corps leadership were derived to help frame the Navigation program performance-based budgeting concept. The key Stakeholders' themes were reliability improvements, risk reduction, linking investments to underpinning the national economy, durability of Navigation systems, Navigation systems responsiveness to International trade growth, and justified efficiency improvements in Navigation. To follow the "Citizen-centered" principle expressed in the President's Management Agenda, Stakeholders' perspectives must be considered, and the legitimate input should be incorporated into the Navigation budgetary process. Accordingly, each MSC, district, project manager or project management team will work with appropriate local/regional partners and stakeholders to develop a Five-Year Management Plan for their respective projects. The plans will incorporate

performance based budgeting concepts and develop the future direction based on the current restricted funding environment. The plans should be comprehensive and address anticipated study, construction, operations and maintenance requirements.

- b. In order to achieve the objectives shown in Table V-2, we are establishing budget increments to assure uniformity across the country in building annual budgets from the same point. Budget increments reflect the eligibility criteria described in the following paragraphs. Increment 1 will receive priority consideration for budget development. These budget increments in conjunction with the objectives and ranking criteria will go a long way to making informed and wise budgetary decisions to support our program goal.
- c. Navigation Systems. The navigation system relationship of each Navigation project/segment will be considered when developing the Navigation program. A systems approach or river basin approach is needed to ensure that investments are integrated into a whole that preserves or enhances performance at the system level. This approach will help to implement the goals of the Strategic Plan. This approach applies most obviously to the inland waterways, but also has applications in other areas, such as in coastal navigation and regional sediment management. For instance, in the case of a major inland waterway, analytical perspectives should be developed to help determine the mix in the PY of investments in maintenance, operations improvements, replacements and rehabilitations, new construction, planning, and design that will maximize system efficiency, safety, and reliability over time. For FY09 a list of systems has been developed. See Annex C (O&M) for the list of systems (add reference). These systems will be cross referenced to USGS Sub-Region Hydrologic Unit Codes (HUC) for budget presentation purposes.
 - d. Increment 1. For definition of increments see Definition/Glossary section in the main EC.
 - (1) Investigations (for studies and engineering and design).
 - * Remaining Items (R&D, data collection, PAS, etc.) initial level will be established by HQ.
- (2) Construction (Includes: specifically authorized projects, replacement projects (those former major rehabilitation projects characterized as repairs to restore capability will be included in O&M for the PY), dam safety projects, CAP projects, and dam safety/seepage program).
- * For increment 1 funding for Construction refer to the Definition/Glossary section of the main EC.
 - (3) Operation and Maintenance (O&M).
- (a) Navigation Segments. Inland waterway operation and maintenance costs should be broken out by major waterway segment.
- (b) The first increment will seek to provide the greatest benefit for the investment consistent with performance measures and sufficient to meet minimum legal responsibilities for environmental compliance, operation and safety. Subsequent increments will provide additional benefits as measured by the performance measures. All increments must document performance according to the appropriate Business Lines criteria. The last increment for each project is the capability level. Operations increments will be submitted separately from maintenance increments. This means that for some projects there will be an operation line item and a maintenance line item in the initial level and subsequent levels.

- (c) For each MSC combined amount among all Business Lines for operation and maintenance for Increment 1 see Table C-2.2. This initial amount is for all the MSC's O&M requirements as prioritized below. Simple pro-rata allocations by district and/or project will not result in the expected performance based budget and should not be done.
 - (d) Additional O&M criteria. (Definition of terms will follow)
- (1) Sufficient to meet minimum legal responsibilities for operation, safety and environmental compliance: examples follow
 - [a] Subsistence Harbors
 - [b] Caretaker activities
 - [c] Critical Harbors of Refuge
 - [d] Project Condition Surveys
- (2) Multipurpose projects when those projects are included in the minimum programs of other business lines and not a separable element
 - (3) Work required by treaties
 - (4) Removal of Aquatic Growth

(Note Surveillance of Northern Boundary Waters moved to the Flood Damage Reduction Business Line.)

V-7. O&M Initial Increment 1. See the Definition/Glossary section. Only critical routine activities may be included in this increment.

a. What is included: What is not.

- (1) Bare Bones Operations costs (locks): May not be full 24-hour operation.
- (2) Bare Bones routine maintenance (locks): Would not be all maintenance needs.
- (3) Critical routine minimal level of dredging at high use commercial deep draft, shallow draft and inland projects or high use segments of projects: No advanced maintenance dredging.
- (4) Routine minimal level Dredging Subsistence Harbors: Does not include point of origin harbor.
- (5) Routine minimal level Dredging Critical Harbors of Refuge: Does not include all Harbors of Refuge.
 - (6) Caretaker funding for projects or segments not expected to be funded.
- (7) Critical routine maintenance of dredged material placement sites for 3 above: Does not include non-routine maintenance of dredged material placement sites.
 - (8) Water/Environmental Certification for critical maintenance dredging for 3 above: Does

not include all certification needs.

- (9) Bare Bones Project Condition Surveys (PCS) (include Low-Use): Does not include all anticipated PCS needs.
- (10) Critical studies for high risk coastal structures: Does not include studies of all structures.
- (11) Bare bones debris/drift removal/obstruction removal at high use ports: Does not include all anticipated removal needs.
- (12) Critical routine minimal level Removal of Aquatic Growth (RAG) for high use projects: Does not include all Removal of Aquatic Growth.
- (13) Critical inspections, studies and routine repair for high level bridges. Does not include all bridges.
- b. **O&M Increment 2.** See the Definition/Glossary section. Critical non-routine activities may be included in this increment.
 - (1) Critical on-going non-routine maintenance.
- (2) On-going major maintenance of high use projects or segments: could include new major maintenance.
- (3) Critical non-routine maintenance of dredged material placement sites at high use commercial deep draft, shallow-draft and inland projects or high use segments of projects.
- (4) Construction of Dredged Material Disposal Facilities (DMDFs) for high use commercial deep draft, shallow-draft and inland projects or high use segments of projects. These activities were formerly included in a Construction Remaining Item.
- (5) Critical studies to complete DMMPs for construction of dredged material placement Sites.
- (6) On-going (studies and work) rehabilitations of high-use projects: could include new rehabilitation projects.
 - (7) Critical non-routine repair for high level bridges. Does not include all bridges.
 - (8) Removal of Aquatic Growth for other high use projects.
- (9) Other Project Condition Surveys (PCS) (include Low-Use) beyond Bare Bones annual routine level.
 - (10) Gate replacement /rehab study on high risk, system impacts.

NOTE: Items for Surveillance of Northern Boundary Waters previously included in the Navigation Business Line has been moved to the Flood Damage Reduction Business Line.

c. **O&M Increment 3.** Urgent routine and non-routine operation and maintenance efforts. Advance maintenance dredging on high use projects.

- (1) Critical Advanced Maintenance dredging on high use projects. Does not include all advanced maintenance.
- (2) Critical minimal level of dredging and operations of low-use subgroup that have commerce, commercial fishery, multi-agency requirements, and/or public transportation.
- d. **<u>O&M Increment 4</u>**. All other efforts will be performance based to consider condition assessment and impacts.
- **V-8. Performance Based Budget Increment(s**). Navigation will only use four increments this PY. Add additional budget items for logical, needed increments that contribute to the program goals. Ranking will be based on ranking criteria shown in the spreadsheet Table V-3 and listed below. The basis for adding increments in terms of budget request for a project will be based on the demonstrable beneficial impact on increasing average annual net benefits by accelerating project completion, or improved performance, additional outputs or increased reliability in the PY. There are three key performance measures that will be considered: (1) reduction in years to completion, (2) increase in annual net benefits, and (3) BCR for PEDs and for construction and rehabilitations.

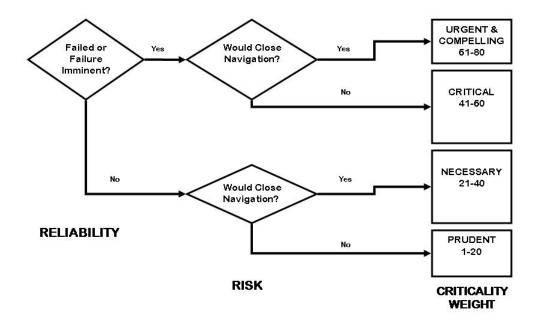
V-9. Special Considerations or Special Rating Criteria.

- a. This addresses efforts that don't fit under the above budget development considerations. This includes support to strategic national defense needs, critical public health and safety issues, or other substantive criteria that warrant consideration for budgeting.
- b. Asset Condition Assessment and Impacts. The goal of performance based budgeting is to use a consistent asset condition assessment and impacts evaluation that reflects the (1) reliability and risk of the project assets and (2) can be understood and supported by stakeholders to prioritize the work to be performed. In FY09 the Navigation Business Line will use such an approach for the inland navigation systems across the Corps. This will apply to all non-routine maintenance efforts. Prioritization is established by a weighted evaluation process included nine parameters with a total maximum weight of 143. The four parameters addressed below are directly related to risk and/or reliability considerations. These four parameters account for 110 of the total 143 points. The other five parameters are lower weighed considerations and total 33 points. These other parameters consider environmental, safety, and customer consideration elements.
- (1) <u>Criticality 80 points</u>. This parameter's evaluated weight range is bracketed directly from reliability and risk considerations as shown on the flow chart. The key reliability consideration is whether or not item has failed or failure is eminent. Eminent failure was defined as a 50% or greater likelihood that failure will occur within five years. The key reliability consideration is whether or not failure of the subject item would close the navigation system. Closing navigation was defined as a closure expected to last 5 days or more. The criticality parameter successfully addresses these considerations and allows relative importance/condition based judgment to be incorporated in evaluation of the criticality which is the primary parameter of the evaluation.
- (2) <u>Traffic 30 points</u>. Traffic considerations include weights based upon commercial tons (21 points max) and on number of lockages (9 points max). These two measures are directly related to the relative economic impact of the subject item. This is another direct consideration of risk, i.e. what is the relative economic impact of failure. The tonnage and number of lockages are

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hard numbers that are easily defended; whereas estimated dollar values would be soft numbers that would be easily questioned based upon what is important to the party questioning the estimate.

- (3) Other parameters 33 points. Seven other parameters had maximum weights ranging from 3 to 10; District Rank (5), Navigation Benefit (10) the relative impact of performing the task on navigation capability, Environmental Benefit (5), Unfunded Duration (3), Construction Impact (5), Inland Waterways Trust Funds (5), Safety Benefit (5).
- (4) Evaluation Line items should be evaluated across the Inland River System by knowledgable representatives from each District with responsibilities on this system. MVD chose to use Expert Choice to assist them in the ranking process.



- c. Funding for minimum fleet dredges follows the dredge. If the requirements for the minimum fleet dredge do not materialize, the funds programmed for the dredge will be reprogrammed to other minimum fleet dredging requirements.
- d. Replacement and Rehabilitation Construction will be included as unique line items, not hidden under the parent project. For example, the rehabilitation items for Markland Locks and Dam will not be included in the Ohio River project maintenance items. These items migrated to O&M from Construction in the FY 07 cycle and need to remain identifiable.

Rehabilitations are characterized as repairs to restore capability and are to be included in O&M.

- e. Rehabilitation or replacement studies will be included as unique line items, not hidden in a general Operation line item for the parent project, marked with the appropriate Phase code.
- f. Dredged Material Disposal Facilities (DMDFs) will be included as unique line items, with the appropriate Phase code. These items migrated to O&M from Construction in the FY 07 cycle and need to remain identifiable.
- g. There will be a navigation sub-program: operation and maintenance of low-use harbor channels and operation and maintenance of low-use waterway segments. Each element of the sub-program will have its own minimum funding level, performance indicators, and above-minimum funding increments. (See Table V-4) Low-use sub-program elements will be reflected as budget increments. Ensure that data in the worksheet are included for tonnage and system ton-miles and code the increment as either a low-use waterway segment or low-use harbor channel.
- h. Projects Previously Budgeted in Ecosystem Restoration Construction Account. Special projects in part or in whole previously budgeted in the Ecosystem Restoration Business Line for Construction were moved to O&M in FY 2007. Beginning in the PY, these projects will ultimately be budgeted in the O&M account of the business line of the original project (navigation, flood and coastal storm damage reduction, hydropower) following the instructions in Appendices III, IV, and V. However, initially these projects and features will be entered in the environment business line, following the rules for ecosystem restoration construction. Use the O&M appropriation code and CCS, the ENR Business line code and a funding level/increment code of 7 (for information only) need ENR help with these increments as Nav only proposes to use Increments 1-4. It is in Construction in ENV as Increment 7s, then moves to Nav O&M, in various Increments depending on ENV input.

For projects responding to mandatory BiOp requirements:

Increment 7 is the amount required to maintain minimum progress on BiOp and avoid jeopardy and limited to 75% of the FY 2007 President's Budget;

Increment 7.1 is the remaining amount above the 75% limit required to maintain planned progress on BiOp and avoid jeopardy;

Increment 7.2 is the capability increment for priority items required by the BiOp.

For projects not in response to mandatory BiOp requirements, follow rules for Construction.

V-10. Five Year Development Plans.

a. Each year the navigation asset condition assessments will be reviewed and updated to reflect work accomplished and changes to condition and therefore priority. For inland river systems a prioritized maintenance list will be developed. Based on funding assumptions such as if only Increments 1 and 2 are funded, Districts, MSC's and HQ will be able to establish O&M program glide paths. Similar process will be developed for the coastal ports and harbors and will be better defined when channel condition assessment criteria are finalized for use in the FY10 budget development process. Setting long-term performance targets to be provided.

- b. End State Performance target: For all navigation channels the goal is to attain and maintain channel availability at the justified level of service for the target years. For Inland navigation the goal is to halt the trend of increasing navigation lock outages and maintain lock availability at the FY04-06 baseline level on a national basis.
- c. Ongoing Construction funded efforts will be a consideration in overall funding, however a similar backlog of work in this program is anticipated beyond the FY12 5-year horizon.

V-11. Definitions. The following definitions refer to the O&M criteria.

- a. High-Use Projects those deep- and shallow-draft navigation projects with one million tons or greater, and those waterways with both one million tons or greater and one billion system ton-miles or greater.
- b. Project Condition Surveys (PCS) those hydrographic surveys needed to determine the program year conditions of projects in caretaker status or that are not funded separately. This work does not include testing, sampling or any other activity that should be included in a specific project funded budget package. The PCS items will be by state and will indicate the total number of projects that could be surveyed and the number of projects that will be performed as part of the line item. All PCS will not be included in a single line item.
- c. Water/Environmental Certification those activities needed to acquire certification in the PY to allow dredging to proceed that are not funded separately. This work does not include any activity that should be included in a specific project funded budget package. The Certification items will be by state and will indicate the total number of projects that could be certified and the number of certifications that will be performed as part of the line item. This will be handled like the PCS line items. All Certifications will not be included in a single line item.
- d. Subsistence Harbors those harbors that are dependent upon the navigation project as there principal means of receiving goods and services, and for which alternative means of delivery are not practicable. An example would be Tangier Island off the coast of Virginia or the Channel Islands off the California coast.
- e. Critical Harbors of Refuge those harbors that offer safe haven to boaters that represent the sole site for protection based on a public safety based regional distance criteria. Authorization as a Harbor of Refuge does not automatically make a harbor critical.
- f. Caretaker Activities There are inland navigation systems and projects that will not be funded. Some minimal level of funding will be required to place these projects in a caretaker mode. We should address concern for the public's health and safety, environmental impacts resulting from full cessation of operations and how best to address them, review legal requirements placed on that project and ensure that litigation issues are addressed in a caretaker plan, review any unintended consequences on other waterways, and establish a communication plan to include messages, FAQ, roll out strategy, web site information, and draft media release. Caretaker status is an extremely low level of funding for minimal effort.

V-12. Low-Use Navigation Sub-Program.

a. The performance indicators include three indicators that flag work on low-use navigation features. These are: (1) Waterway project has less than 1 billion system ton-miles of commercial cargo annually; (2) activity is for a waterway segment, upstream of which less than 1 million tons of cargo move annually; and (3) harbor projects have less than 1 million tons of commercial cargo

annually. Activities meeting both criteria (1) and (2) will be included as a low-use waterway segment. Activities meeting criterion (3) will be included as a low-use harbor channel. For this sub-program, use the additional performance criteria provided in Table V-4 for assisting in the evaluation of activities and projects.

TABLE V-4
Shallow-Draft Harbor/Low-Use Segment Screens and Indicators

Sub- program	SCREEN	SCREEN	Indicators	Indicators	Indicators	Indicators	Indicators
	Minimum						
Low-Use Nav channels	<1 million tons	5-Year Avg cost per ton	Supports Public Transportat ion	Boater Safety	BCR	Results of investment	Commerci al fishery outputs
Low-Use Waterway segments	< 1 million tons on systems with < 1 billion system ton-miles	5-Year Avg cost per ton	Multipurpo se Values	Public Health and Safety	Caretaker	Investment Issues	

Low-Use Harbor Channels Minimum:

Supports public transportation (ferries, tour boats);

Ensures boater safety (inlet dredging to reduce breaking wave hazards);

Project costs yield outputs / benefits exceeding costs;

Purpose should reflect results of investment (so what).

Supports some commercial fishery output;

Low-Use Waterway Segments Minimum:

Compute BCR based on transportation savings (average tons per year table);

Supports other business line purposes (flood damage reduction, recreation, environmental, water supply, etc.);

Port investment status (recent or planned port expansion/investments);

Commercial tonnage trends upward;

Ensures basic public health and safety;

Caretaker costs for non-budgeted segments.

b. **Navigation System Funding Needs.** See the discussion for O&M Systems in Annex C (O&M). Operation and Maintenance projects including Navigation projects will be combined in systems. For example, the South Oregon Coast Ports will be combined as appropriate in one or more of the O&M Systems. The linkage of individual projects in a systems evaluation must be done in a rational way. This is not a gambit to get additional funds for projects that do not merit it.

- V-13. Joint Costs. See Annex C, Paragraph C-2.3.b. for Joint Activities Joint Costs.
- **V-14. Navigation Criteria Matrix.** Below are the data elements and definitions for the embedded Navigation Criteria Matrix (Excel worksheet). These definitions for individual data elements are also in the "Definitions" tab of the embedded worksheet.
- a. Note that dollars amounts should be in thousands (\$000). Waterborne Commerce data should also be in thousands, but this data are already rounded to thousands in OMBIL and Waterborne Commerce data sources.
- b. Unique Entries. Fields marked with an * are expected to be different for each increment amount. It would be expected that additional funds would show improvement in appropriate performance indicators. Other items would be the same for the same CWIS numbers and hopefully will populate automatically.
 - c. Criteria Matrix Data Elements and Definitions.

Col #. Column Title: Definition.

- (1) BUSINESS LINE: Common data field for P2 OFA.
- (2) **EROC:** Common data field for P2 OFA.
- (3) MSC: Common data field for P2 OFA.
- (4) DIS: Common data field for P2 OFA..
- (5) AP ABBREV: Common data field for P2 OFA.
- (6) CW TYPE OF FUNDING: Common data field for P2 OFA.
- (7) PROGRAM CODE: Common data field for P2 OFA. Refer to Definition/Glossary section.
 - (8) **P2 PROJECT NUMBER:** Common data field for P2 OFA.
 - (9) **BUDGET ITEM ID*:** Common data field for P2 OFA.
 - (10) **FUNDING INCREMENT*:** Common data field for P2 OFA.
 - (11) **DIS RANK*:** Common data field for P2 OFA.
 - (12) MSC RANK*: Common data field for P2 OFA..
 - (13) HQ RANK: Common data field for P2 OFA. Will be completed by HQ.
 - (14) **ARMY RANK:** Common data field for P2 OFA. Will be completed by HQ.
 - (15) **PHASE:** Common data field for P2 OFA. Refer to **Table 3** contained in the main EC.
 - (16) PHASE STATUS: Common data field for P2 OFA.

- (17) PHASE COMPL*: Common data field for P2 OFA.
- (18) PROGRAM NAME: Common data field for P2 OFA.
- (19) P2 PROJECT NAME: Common data field for P2 OFA.
- (20) **SYSTEM CODE:** Common data field for P2 OFA.. See Annex C (O&M) for list of designated systems and codes.
- (21) **BASIN CODE**: Common data field for P2 OFA. Enter the 4 digit USGS HUC subbasin code for the increment request http://water.usgs.gov/nawqa/sparrow/wrr97/geograp/geograp.html.
 - (22) **STATE:** Common data field for P2 OFA..
 - (23) **CONTRACT TYPE:** Common data field for P2 OFA.
 - (24) CURRENT BUDGET FEDERAL: Common data field for P2 OFA.
 - (25) CURRENT BUDGET INF ADJ FEDERAL: Common data field for P2 OFA.
 - (26) **FEDERAL (CORPS) BUDGET REQUEST*:** Common data field for P2 OFA.
 - (27) **CURRENT BUDGET IWTF:** IWTF amount.
 - (28) **CURRENT BUDGET INF ADJ IWTF:** IWTF amount inflation adjusted.
- (29) **IWTF BUDGET REQUEST*:** The Inland Waterways Trust Fund amount requested for this increment; for C the sum of all Federal (Corps) and IWTF increments for this CWIS will be its capability. Each increment should provide measurable positive contributions to the applicable business line performance measures.
- (30) **HW TYPE:** Navigation Activity, Harbor or Waterway Type. SD=Shallow-Draft Harbor; LSD=low use Shallow-Draft Harbor; DD=Deep-Draft Harbor; LDD=low use Deep-Draft Harbor; WW=Waterway; LWW=low use Waterway; PCS=Project Condition Surveys; SNW=Surveillance of Northern Boundary Waters; RAG=Removal of Aquatic Growth; RSM=Regional Sediment Management.
- (31) **HMTF (Y/N):** For all navigation projects, indicate if navigation costs for this project are eligible for reimbursement from the HMTF, Yes or No.
- (32) **HW TYPE USE CODE CARETAKER (Y/N):** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD, LWW). Indicate Yes or No for Caretaker. A brief explanation should be provided in the Remarks Column.
- (33) **HW TYPE USE CODE SUBSISTENCE HBR (Y/N):** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD, LWW). Indicate Yes or No for Subsistence Harbor. A brief explanation should be provided in the Remarks Column.
- (34) **HW TYPE USE CODE CRITICAL HBR OF REFUGE:** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD,

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- LWW). Indicate Yes or No for Critical Harbor of Refuge. A brief explanation should be provided in the Remarks Column.
- (35) **HW TYPE USE CODE SAFETY (Y/N):** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD, LWW). Indicate Yes or No for Safety (Search & Rescue, USCG Station, etc.). A brief explanation should be provided in the Remarks Column.
- (36) **HW TYPE USE CODE NATIONAL SECURITY (Y/N):** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD, LWW). Indicate Yes or No for National Security.. A brief explanation should be provided in the Remarks Column.
- (37) **HW TYPE USE CODE PUBLIC TRANSPO (Y/N):** Use Code for Navigation Activity, Harbor or Waterway Type. Required for projects/items that are Low Use (LSD, LDD, LWW). Indicate Yes or No for Ferry (Public) Transportation. A brief explanation should be provided in the Remarks Column.
- (38) **LATEST COM TON:** The commercial tons for the latest available year from OMBIL (Waterborne Commerce data).
- (39) **5-YR AVG COM TON:** The last five-year average annual commercial tons from OMBIL (Waterborne Commerce data).
- (40) **LATEST SYS TON MILES:** The system or trip ton-miles for the latest available year from OMBIL (Waterborne Commerce data).
- (41) **5-YR AVG SYS TON MILES:** The last five-year average annual system or trip ton-miles from OMBIL (Waterborne Commerce data).
- (42) **5-YR AVG \$/TON:** Five-year average total O&M costs divided by five-year average annual commercial tons for the same period from OMBIL for Waterborne Commerce and O&M financial data.
- (43) **TOTAL VALUE OF CARGO:** Total dollar value of the cargo for the project at current price levels. Available from Waterborne Commerce data.
- (44) **VALUE OF EXPORT CARGO:** Dollar value of the export cargo for the project at current price levels. Available from Waterborne Commerce data.
- (45) **% TIME AVAIL***: Percentage of time project is available to perform as designed with limits from deferred maintenance, dam safety issues, etc. It would be expected that additional increment requests would show improvement in appropriate performance indicators. Explain in Remarks.
 - (46) **BCR:** The project's benefit cost ratio at 7% and current price levels.
- (47) **RBRCR:** The project's remaining benefits remaining costs ratio at 7% and current price levels. See Annex B for discussion.
 - (48) **BCR Applicable:** The project's benefit cost ratio at the applicable interest rate.

- (49) **RBRCR Applicable:** The project's remaining benefits remaining costs ratio at applicable rate.
 - (50) APPLICABLE RATE: The applicable interest rate See main EC paragraph 10.
- (51) **BCR Current:** The project's benefit cost ratio at the current interest rate. See main EC paragraph **10.**
- (52) **RBRCR Current:** The project's remaining benefits remaining costs ratio at current rate. See main EC paragraph **10.**
- (53) **TOT PROJ COST:** The total project cost includes the Federal and non-Federal costs of PED and Construction. This will be a rough estimate for a Reconnaissance New Start. During the Reconnaissance and Feasibility Phases use the estimate being developed for use in the appropriate report. Subsequently the figure will be derived from PRISM and is to include all Federal and non-Federal costs for PED and Construction. Be consistent with J-sheet.
- (54) **PROJECT DESCRIPTION:** Main features/Navigation segment, 50 words or less. Complete sentences are not required. Maximum of 250 characters.
- (55) **PURPOSE***: State proposed use of the increment amount (be as specific as possible) and what the increment amount accomplishes (what are we getting for this amount of \$). Key points to be able to distinguish from other increment or other projects. For dam safety items (inspections and studies), the "Purpose" field should include what is being studied, the expected report completion date, if not completing in the PY, the additional \$ needed to complete, and estimated cost (magnitude) of the construction cost. It would be expected that additional increment requests would show improvement in appropriate performance indicators. Maximum of 160 characters.
- (56) **CONSEQUENCES*:** What is penalty (consequence) if not funded this PY increment amount needed to comply with safety, settlements, loss of service, structural failure, etc. It would be expected that additional increment requests would show improvement in appropriate performance indicators. Maximum of 160 characters.
- (57) **REMARKS*:** Additional critical information to support increment amount that is not in the other fields and what is called for from other fields. Use to explain District & Division ranks, lack of data in required fields, special legal or other requirements, safety issues, etc. Provide rationale to support funding of O&M Major Maintenance Items under C. Document infrastructure at significant risk to justify budget requests. It would be expected that additional increment requests would show improvement in appropriate performance indicators. For projects with an N/A in any field, such as BCR and RBRCR, explain why they are not required Maximum of 600 characters.
- (58) **RISK AND RELIABILITY INDEX:** Based on the Risk and Reliability assessment performed by the MSC for maintenance items (see the Navigation Appendix Para. V-9), provide the score for the item. This is to help document infrastructure at significant risk.
- (59) **OTHER PURPOSES:** The other outputs provided by the project. N=Navigation; F=Flood Damage Reduction; H=Hydropower; E=Environmental; R=Recreation; W=Water Supply.
- (60) **FUNDING OF OTHER PURPOSES:** Displays the budget request amounts entered for other business lines for the project. System generated, no entry required.

- (61) **LAST YEAR BUDGETED:** Enter the last fiscal year this study or project had funds included in the President's Budget.
- (62) **LAST YEAR APPROPRIATED:** Enter the last fiscal year this study or project was appropriated funds (conference report).
- (63) **LAST AMOUNT APPROPRIATED:** Enter the appropriated amount (conference report amount) for this study or project contained in the appropriation indicated in "LAST YEAR FUNDS APPROPRIATED" entry.
 - (64) WATERSHED: Is this a watershed study or project? Y or N based on criteria in EC.
 - (65) **LEGAL MANDATE:** Special legal mandates Y or N and then describe in remarks.
 - (66) **SAFETY ISSUES:** Safety issues Y or N and then describe in remarks.
- (67) **DAM SAFETY IMPACTS:** For dam safety/seepage project what other purposes (by Business Line) would be impacted if there was a failure. Maximum of 160 characters.
- (68) **REL RISK:** For dam safety/seepage projects Relative Risk of failure risk compared to other Corps dams (Portfolio Risk Assessment if available for FY 07). Maximum of 160 characters.
- (69) **FCSA Date:** The actual or scheduled date of the FCSA. If increment request is to accelerate phase, this date should change from initial one.
- (70) **PED Date:** The actual or scheduled date of the PED Agreement. If increment request is to accelerate phase, this date should change from initial one.
- (71) **PCA Date:** The actual or scheduled date of the PCA. If increment request is to accelerate phase, this date should change from initial one.

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APPENDIX VI RECREATION

- VI-1. **Background.** The Corps is the nation's leading Federal provider of outdoor recreation opportunities. As the host of more than 375 million visitors a year, the Corps plays a major role in meeting the outdoor recreation needs of Americans. Corps recreation projects contribute economically and socially to the communities in which they are located, providing a natural resource setting for visitors to reap the benefits to their physical, mental and spiritual health from engaging in outdoor activities.
- VI-2. **Recreation Mission and Goal.** The Corps Natural Resources Management (NRM) mission statement is:

"The Army Corps of Engineers is the steward of the lands and waters at Corps water resources projects. Its Natural Resources Management Mission is to manage and conserve those natural resources, consistent with ecosystem management principles, while providing quality outdoor public recreation experiences, to serve the needs of present and future generations. In all aspects of natural and cultural resources management, the Corps promotes awareness of environmental values and adheres to sound environmental stewardship, protection, and compliance and restoration practices. The Corps manages for long-term public access to, and use of, the natural resources in cooperation with other Federal, State, and local agencies as well as the private sector. The Corps integrates the management of diverse natural resources components such as fish, wildlife, forests, wetlands, grasslands, soil, air, and water with the provision of public recreation opportunities. The Corps conserves natural resources and provides public recreation opportunities that contribute to the quality of American life".

- a. The NRM mission statement recognizes the strong interrelationship between the health of the natural resources and the quality of the recreation experience provided. The portions of the above mission statement that are directly related to recreation are underlined. Our recreation program goal is to enhance the quality of American life by providing benefits to individuals, communities, the national economy and the environment.
- b. Table VI-1 immediately below displays the Recreation Program Objectives and Performance Measures published in the March 2004 Civil Works Strategic Plan. Preparation of the FY 09 Budget Request requires the recognition of a constrained budget environment and the ongoing effort to improve the linkage of budget to performance. The performance measures which support and/or supplement Table VI-1 program objectives and performance measures to reflect the near term realities of a constrained FY 09 budget environment are described in paragraph VI-15 below.

TABLE VI-1 Strategic Plan Objectives and Performance Measures					
Program Objectives	Performance Measures				
Provide justified outdoor recreation opportunities in an effective and efficient manner at Corps operated water resources projects.	National Economic Development Benefit				
Provide continued outdoor recreation opportunities to meet the needs of present and future generations.	Recreation Unit Day Availability Customer Satisfaction (only used to identify facility/service improvement needs)				
Provide a safe and healthful outdoor recreation environment for Corps customers	Facility Condition Index				

- VI-3. **Recreation Budget Goals and Objectives.** Although the Corps recreation program is well established, stable and well regarded, our ability to continue to provide high quality recreation experiences to meet the needs of current and future generations is jeopardized by constrained funding. Years of sub-optimal funding have precluded preventative maintenance or facility modernization or improvement, including improvements to increase operational efficiencies, resulting in an aging and outdated recreation infrastructure.
- a. Accordingly, a concentrated nationwide emphasis must be placed on assuring available funding provides the optimum nationwide recreation program for the nationwide investment. To achieve this goal, the following recreation budget objectives are established for the FY 09 program.
- (1) Initial investments must provide equivalent public opportunity, at consistent service levels, across the Corps national recreation program.
- (2) Initial and incremental investments must reflect the results of operational efficiencies analyses and implementation.
- (3) Existing recreation infrastructure critical to meeting current and future needs must be maintained and protected.
 - (4) Recreation opportunities must provide a safe, healthful and accessible experience.
- (5) All recreation opportunities must be provided consistent with environmentally sustainable development and environmentally friendly business practices for the benefit of future generations.
 - b. In order to achieve the above objectives, two tasks must be accomplished:
- (1) We must conscientiously and objectively determine equivalent initial funding levels, to assure all projects across the country are starting annual budgets from the same point.
- (2) We must establish a system of performance measures that will permit objective evaluation of various investment choices to assure incremental investments above initial provide the greatest benefit for the investment, while maintaining consistent public service levels. The FY 06 through FY 08 budgets provided a great deal of information about the performance of alternative investment choices. In the FY 09 budget, we must continue to improve our investment choices, using refined performance measures to improve data accuracy.
- c. Once an appropriate and equivalent initial funding level has been established and a system of effective performance measures is implemented, informed and wise decisions can be made to meet our goal of providing the greatest public benefit for the nationwide budgetary investment.
- VI-4. **FY 09 Recreation Budget Focus Areas.** The following focus areas should be considered when developing incremental recreation budget packages for FY 09.
- a. Critical Maintenance (non-routine). Critical non-routine maintenance is defined as maintenance that if not performed in the budget year will result in the loss of a necessary component of the recreation infrastructure. Work packages to fund critical non-routine maintenance should be identified with an indicator in Rec-BEST so the total program requirement can be quantified. Critical non-routine maintenance items may be new items in FY09. It is not required that they were identified in the previous year's budget to qualify as critical. Identifying a work package as critical non-routine maintenance indicates this is higher priority work than routine O&M for the recreation program. Critical non-routine maintenance will only be budgeted in Improvement Increment and entered in P2 as Increment 2 package.

All critical routine activities should be included in the initial package and entered in P2 as increment 1 package (see paragraph V1-10 below).

- b. Accessibility Improvements for Persons With Disabilities. The Corps has a legal obligation to provide accessibility to public recreation sites, facilities and programs in accordance with statutory requirements and codified guidelines. Non-compliance with these requirements and guidelines constitutes a civil rights violation. Accordingly, improvements required to meet these requirements and guidelines are a priority for funding. Funds allocated in the President's budget for this purpose and subsequently appropriated must be expended for this purpose. Improvements required to meet statutory requirements and codified guidelines, and for which budget packages should be developed, include:
- (1) Improvements to facilities constructed after 1984, when the Uniform Federal Accessibility Standards (UFAS) were published, which do not meet UFAS guidelines. UFAS guidelines may be found at http://www.access-board.gov/ufas/ufas-html/ufas.htm. Accessibility improvements made to such facilities (i.e. those constructed after 1984 which do not meet UFAS guidelines) must comply with current guidelines, which may be found at http://www.access-board.gov/ada-aba/final.htm.
- (2) Improvements required to make recreation programs, i.e. camping, picnicking, boating, swimming, etc., accessible. For the purposes of budgeting Corps recreation program requirements, a program is defined on a project basis. Therefore, if a camping program is available at recreation areas operated by the Corps on a water resources development project, at least one camping opportunity (campsite, plus associated facilities, plus the route between associated facilities) on the project must be accessible. Improvements required to meet program accessibility requirements must comply with current guidelines.
- c. Efficiency Improvements. Investments in efficiency improvements to support and maintain current performance levels at justifiable Initial cost optimizes the nationwide recreation program for the nationwide investment. Work packages should be developed to fund efficiency improvements that will result in decreased future O&M costs.
- d. Recreation Area Modernization. The modernization of recreation sites and facilities involves updating existing facilities to meet current guidelines and user needs, as well as modifying facilities and services to improve efficiency and effectiveness. Ongoing identification of modernization needs and budgeting to accomplish the most critical of these needs is important to the Corps overall, long-term management of its recreation program. Modernization activities will be funded through O&M work packages above initial. A new Work Category Code (WCC), 61515, was developed in FY 07 to facilitate submittal and evaluation of modernization work. All costs for the modernization, replacement or additions for modernization to recreation facilities and structures such as trails, campgrounds, picnic areas, restrooms, showers, boat ramps, parking areas, roads, grounds, utilities associated with recreation use, buildings used for recreation purposes should be included in WCC 61515. Work using this WCC must meet current standards as identified in EM 1110-1-400 and should be bundled in logical packages that assure the biggest return on investment can be realized in the shortest amount of time. Only those packages that make "good business sense" should be included. Packages using this WCC cannot be included in the Initial funding level.
- VI-5. **Recreation Maintenance.** See Annex C (O&M) for Operation and Maintenance Unfunded Requirements Reporting Requirements. It is important to identify and budget for all justified unfunded maintenance requirements for recreation within capability for the budget year. (Capability is described in main section of the EC). Work packages should be developed in Improvement Increment to address all requirements for unfunded maintenance. Unfunded maintenance is defined as those unfunded maintenance work items that are required and should have been funded in the previous year (FY 08) to provide reasonable assurance that project performance goals can continue to be met and that undue risk

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of failure is avoided. If these maintenance requirements are not identified, we have an incomplete understanding of our total budgetary requirements, regardless of what is or is not funded. Recreation maintenance may be identified further as critical in accordance with paragraph VI - 4(a) above. An indicator code for critical maintenance activities is provided in Rec-BEST.

- VI-6. **Increased Recreation Fee Collection.** Efforts continue to obtain legislative authority for the Corps to retain all or a portion of the recreation use fees collected, with the primary objective of funding maintenance and improvement of recreation sites and facilities. Accordingly, in conjunction with the FY 09 budget development, efforts should be made to identify opportunities to enhance fee collection as appropriate and in accordance with existing policy and guidance. Implementation guidance will be developed for any additional authorities obtained. Our success in increasing recreation use fee collection will impact directly our success in meeting goals related to the Cost Recovery performance measure discussed in paragraph VI-15 below.
- VI-7. Recreation Program Performance Improvement Initiative (RPPII). The RPPII is currently under development and is designed as a multi-year long-range plan to address the Recreation Business Line challenges in providing recreation opportunities at a consistent, affordable and acceptable level as defined by performance metrics. The RPPII will establish a process to evaluate the current performance of recreation areas and projects, identify appropriate strategies to improve performance, and monitor and measure success. Products developed through the RPPII will provide assistance to Operations Project Managers in developing and justifying appropriate budget proposals, as well as in executing the appropriated program. Information about the RPPII may be found at http://corpslakes.usace.army.mil/employees/rppii/rppii.html
- VI-8. **Visitor Centers.** Two Work Category Codes (WCC's) were developed for the FY 07 budget for Visitor Center Operations, WCC 60514, and Visitor Center Maintenance, WCC 61514. Visitor Center costs previously (prior to FY07) included under WCC's 60511 and 61511 respectively should now be included in the new WCC's. This includes costs for officially designated visitor centers. For maintaining and operating information centers that are not designated as visitor centers this year, the necessary costs should be included in the Initial Increment using WCC's 60511 and/or 61511. This should not result in an increase in total budget. The sum of 60511 and 60514 should not be more than the previous total for 60511. The sum of 61511 and 61514 should not exceed that previously budgeted for 61511. The new WCC's simply allow us to distinguish between costs for visitor centers and costs for other recreation sites and facilities. The descriptions for the new Visitor Center WCC's are:
- a. WCC 60514: Includes all costs associated with the operation of visitor centers, including personnel costs; custodial services; snow, ice and debris removal; lawn and shrubbery maintenance; landscaping; grounds; tour operator services; utilities and supplies; exhibits (interior and exterior); supporting costs of cooperating associations, heating and cooling systems, audio visual programs, building material and equipment costs.
- b. WCC 61514: Includes all costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of, visitor center buildings, displays, audiovisual systems, heating and cooling systems, landscaping, grounds, exhibits and utilities.
- VI-9. **Customer Comment Card Program.** The customer comment card program is administered by Corps project staff to obtain feedback systematically from visitors on the quality of facilities and services at Corps managed recreation areas. The written comments offered by visitors can be especially helpful for identifying the facility and service improvements that are most needed at recreation areas. Accordingly, visitor comments obtained through the comment card program should be considered when

developing recreation program budget packages. Visitor comments that demonstrate the need for a particular budget package should be referenced in the budget package description.

VI–10. **Definitions of Funding Increments.** There are three funding increments for the recreation business line: the Initial funding level for each project is the minimum funding needed to provide acceptable service to 75 percent of existing visitors; the Sustained increment will include the minimum funding needed to provide acceptable service to the remaining 25 percent of existing visitors not accommodated in Initial, and the Improvement increment will include most non-routine maintenance activities and all facility improvements and enhancements, modernization, and new facility construction.

To maintain the continuity and integrity of the recreation budget development process, the definitions of recreation increments remain the same as in the previous years. However, in order to meet the new requirement of entering budget information into P2, the budget Increments should be matched in P2 according to Table VI-2. That is, the initial increment will be entered in P2 as increment 1, the sustained increment will be entered into P2 as increment 3, and all the improvement packages will be entered in P2 as increment 4 except for critical non-routine maintenance packages, which will be entered in P2 as increment 2. There is no change on the BEST_ID's. The BEST_ID numbers should still be entered into P2 as the way they are in Rec-BEST.

TABLE VI-2 Budget Increments Reference Table between Rec-BEST and P2				
Rec-BEST Increment	P2 Increment			
Initial funding level (75 percent of existing visitors)	Increment 1 (critical routine activities)			
Improvement increment packages- for Critical non-routine Maintenance only	Increment 2 (critical non-routine activities)			
Sustained increment (remaining 25 percent of existing visitors)	Increment 3 (support continuing the targeted level of service)			
Improvement increment packages- for all other packages	Increment 4 (activities enable greater levels of performance in future years)			

- VI–11. **Initial Program Definition.** Pursuant to the Recreation Budget Goals and Objectives established in paragraph VI.3, the following definition of Initial funding for the Corps recreation program is established. The Initial program for recreation will not be based upon any previous year's budget, although previous year's budgets may be used for grounding purposes to prevent dramatic funding swings, based on inaccurate performance data. This Initial program definition is unique to the recreation business program; Initial definitions for other business programs may be found in their specific appendices. Budget increments above Initial must be justified by the incremental benefits to be delivered, as described by the performance measures.
- a. Initial Operations & Maintenance and Mississippi River and Tributaries Maintenance. The Initial funding level for each project is the minimum funding needed to provide acceptable service to 75 percent of existing visitors. The parks or facilities that represent the most efficient program in serving 75 percent of existing visitors should be included in Initial. The less efficiently operating parks that serve the remaining 25% of visitors at acceptable levels should be included in Sustained Increment.
- NOTE: This definition will be used for budget development purposes only, to establish an equivalent platform among projects on which to build a performance based budget. This budget development guidance will not be used to determine the appropriate execution of the recreation program following appropriation of funds. Guidance to assist decision making regarding major changes in recreation

program operation, to include park closures, is available elsewhere as operational guidance, not budget development guidance.

- b. The definition of "acceptable service" is provided in paragraph VI.13. Care should be taken to use the service level criteria properly to assure accurate computations. "Existing recreation visitation" means visitation occurring at currently open recreation areas managed by the Corps.
- c. Funding for all activities encompassed by Work Category Codes 60511, 60513, 60514, 60520, 60541, 60542, 60550, 60560, 60591, 60592, 61511 and 61514 that serve 75% of existing recreation visitation in designated recreation areas (excluding access points, overlooks, and Class E campgrounds) at acceptable service levels in the most efficient program will be included in Initial. Annual recurring costs for non-recurring work items, such as minor roof repairs, painting of comfort stations, road patching, sign replacements, exhibit repairs, etc., should be budgeted in 61511 and 61514 (for visitor centers only) in Initial and in Sustained Increment. Maintenance requirements which are scheduled, such as roof replacement, road re-paving, renovation of comfort stations, fabrication or installation of visitor center replacement exhibits, etc. should be budgeted in 61511 and 61514 (for visitor centers only) in Improvement Increment. Only those maintenance costs essential to provide acceptable service IN THE BUDGET YEAR should be included in the Initial Increment or Sustained Increment.
- d. The minimum funding to assure the health and safety of visitors to areas outside designated recreation areas, including access points, overlooks, Class E campgrounds and dispersed areas will be included in Initial. This includes maintenance of buoys and lake-wide navigation aids necessary to assure the health and safety of visitors.
- e. For WCC 60550, Real Estate Management for the Recreation Function, the minimum funding necessary to perform only the most basic oversight of existing recreation outgrants will be included in Initial. Costs to accomplish real estate activities required to issue a new recreation outgrant should be included in Initial also, if the new outgrant will result improved program efficiency, i.e. public recreation opportunities will be provided at less cost to the government. WCC 61550 and WCC 61510 have been revised to reflect only those real estate activities directly related to the recreation program.
- f. For recreation projects with no Corps operated recreation areas (PL 89-72 projects and/or projects where all recreation areas are outgranted), the minimum costs to provide necessary oversight of existing recreation outgrants will be included in Initial in WCC 60550. Minimum costs to fulfill Corps requirements for visitor health and safety should be included in Initial in WCC 60511. (Costs for non-routine maintenance, i.e. facility replacement and for minimum health and safety should be included in Improvement Increment.)
- g. For WCC 60560, Environmental Compliance Management for the Recreation Function, the work required to comply with environmental protection mandates (i.e., laws, executive orders and court orders) will be included in Initial. Include the amount of funds required to meet minimum environmental compliance and safety standards and to satisfy other legally binding requirements.
- h. For Construction and MR&T construction, see Annex B. In FY 09, there will be no work packages developed for recreation in Investigations or MR&T studies.
- VI-12. Increments Above Initial. The Recreation program will have 2 budget increments above Initial.
- a. **Sustained Increment**. Sustained Increment will include the minimum funding needed to provide acceptable service to the 25 percent of existing visitors not accommodated in Initial. This Increment serves only the remaining 25% of visitors. It does not include any facility improvements or non-

routine maintenance, other than those maintenance costs critical to provide acceptable service IN THE BUDGET YEAR, as defined in paragraph VI – 11(c) above.

- b. **Improvement Increment**. This Increment will include most non-routine maintenance activities and all facility improvements and enhancements, modernization, and new facility construction. No WCC's for Operations Features may be used in Improvement Increment. Budget packages submitted in Improvement Increment should focus on a primary purpose which can be identified by the appropriate indicator as defined in paragraph VI 14. Inappropriate bundling of work items should be avoided. A detailed description of the planned work should be provided in the description field in Rec-BEST. A clear description could improve consideration of a budget package for funding. Descriptions should be clear, concise and accurately identify the work to be accomplished. Identify the risks and consequences if not funded, as well as the benefits/performance improvements, if funded. Include items such as: current conditions, deteriorated/outdated features, annual cost savings, health, safety and management issues resolved, increased revenues, improved efficiencies, and other pertinent information that quantifies the work to be accomplished. If the work package includes work that can be broken into subparts, with associated costs, the breakdown should be included in the description.
- VI–13. **Service Levels**. Developing our budgets using "acceptable service levels" will help us achieve more consistent public service levels across the country. Acceptable service levels protect the safety of our customers and the integrity of Government assets, as well as assure satisfactory interaction between agency staff and visitors. The guidelines provided in Table VI-3 should be used to determine requirements for acceptable service during the three consecutive peak months of project visitation in your budget submittal for camping, day use, and/or multipurpose recreation areas. Do not apply the service guidelines to access points, overlooks or Class E camp areas.
- a. Acceptable service levels range from 34 40, with low-intensity use parks at 34, medium-intensity use parks at 37, and high-intensity use parks at 40. The range is established based upon the use or visitor demand placed on facilities rather than the kind or degree of development in the park. A 200 site Class A campground, which has moderate occupancy on a typical summer weekend may require less service than a small day use park located near a city that gets intensive use all week long. Service levels above the target should be reduced actively through the budget process to achieve consistent public service across the Corps. You should develop your Initial and Sustained Increment budget to provide services within this range as appropriate by intensity of use level. These guidelines were adapted from those developed by the Southwestern Division, as part of their Justified Levels of Service effort. Please note that "Visitor Contacts" has been added as an element of "Visitor Assistance" below.

TABLE VI-3
ACCEPTABLE LEVELS OF SERVICE

Services (Peak Season)				Current service level range	Target ⁰ Service level range
	2 days per week	5 days per week	Daily (10)	0 - 10	2 - 10
Facility Cleaning ¹	(4)	(8)			
Facility Mowing ²	6 in. or less 50% of time (4)	6 in. or less 75% of time (8)	6 in. or less 95% of time (10)	0 - 10	2 - 10
Visitor Assistance ³	Ranger Patrols, Daily; Visitor Contacts Daily (3)	Ranger Patrols; Daily; Law Enforcement	Ranger Patrols, More than once daily on weekends;	0 - 8	2 - 8
		Agreement in Place; Visitor Contacts	Weekend law enforcement patrols;		

		daily with periodic water safety/interpretive programs (6)	Visitor contacts daily with water safety/interpretive programs weekly (8)		
Gate Attendant/Park Host ⁴	Gate staffed on weekends only (3)	Gate staffed less than 7 days per week but always on weekends (6)	Gate staffed 7 days per week (8)	0 - 8	0 - 8
Reservations ⁵	Yes (2)			0 - 2	0 - 2
Urgent Repairs ⁶	Correct within 4 or more days (4)	Correct within 1-3 days (8)	Correct within 24 hrs (10)	0 - 10	4 - 10
Routine Repairs ⁷	Correct within 14- 30 days (2)	Correct within 5-14 days (4)	Correct within 1-4 days (6)	0 - 6	2 - 6
Grand Total				0 - 54	12 - 54

Rating	Points
Below	Low Intensity Use - 0-33 Points
	Medium Intensity Use – 0 -36 Points
	High Intensity Use – 0-39 Points
Acceptable	Low Intensity Use – 34
	Medium Intensity Use - 37
	High Intensity Use – 40
Above	Low Intensity Use – 35 or More
	Medium Intensity Use – 38 or More
	High Intensity Use – 41 or More

Footnote

- O. You need to enter a point value for your target service level that falls between the ranges of service for each category (e.g., at least 2 points for facility cleaning). If the service provided falls between the values listed in the columns for each service you may select a value between those numbers in the columns. See the service matrix worksheet in Rec-BEST for a full listing of appropriate point allocation to all service levels.
- 1. Includes such things as cleaning of restrooms, shower/toilet buildings, vault toilets, change houses, and bath houses.
- 2. Includes improved mowing areas located around such things as buildings, facilities, sites, beaches, playgrounds, trail heads, multi-purpose fields/activity areas and along park roadways. Arid areas that require little or no mowing should be scored as "7".
- 3. A ranger patrol equals a minimum of one trip by one or more uniformed Corps rangers through a park.
- 4. Gate is staffed by volunteer, contractor or Corps employee. Staffed gate is person on site during 3 peak months of visitation.
- 5. Reservations for camp sites, shelters or other facilities.
- 6. "Urgent repairs" are to correct problems that render a site or park unusable or unsuitable for use. This includes such things as electric and plumbing repairs. Examples: A major water leak would be an urgent repair, but a dripping faucet would not. Replacing a stop sign would be an urgent repair. Pruning a storm damaged limb above a campsite would be an urgent repair, but pruning a broken limb in a natural area would not. Without urgent repairs, our customer cannot have full use of the site or facility. (NOTE: All deficiencies or hazards which threaten health or safety must be corrected immediately or the affected site or facility closed to public access.)

- VI–14. **Work Package Indicators.** When developing work packages above the Initial program, Operations Project Managers should consider the goals and objectives for the recreation program and FY 09 budget development, as described in this Appendix. Accordingly, the following recreation packages are suggested as appropriate and should be identified with the appropriate indicator(s) in Rec-BEST. Work packages with other purposes may be appropriate and may be included without an indicator.
- a. Two sets of indicators are provided to categorize work packages. The first set describes the primary purpose of the work package. Only one of the primary purpose indicators should be applied to a single work package.
- (a) Packages for non-operational, non-routine maintenance, such as road paving, roof replacement, erosion control, or utility infrastructure repairs or replacement, i.e. water or sewer systems.
- (b) Packages for accessibility improvements, to accommodate persons with disabilities, including packages to fund inventory assessments. A sub-indicator is provided to indicate the budget package corrects a legal deficiency resulting in a civil rights violation, as defined in paragraph VI 4(d).

NOTE: Any facility construction or major renovation must meet current standards. Accordingly, any budget package to construct or renovate facilities should incorporate the costs to meet accessibility requirements, as it would include costs to meet safety requirements or other engineering guidelines. The accessibility indicator is not appropriate for such budget packages unless the primary reason to do the work is for accessibility improvements. If the work would not be done if the site or facility were already accessible, a different indicator should be used.

- (c) Packages for efficiency improvements for existing sites and facilities to realize future O&M savings. A field is provided in Rec-BEST to capture the estimated average annual O&M savings resulting from the investment in the first 5 years following the investment.
- (d) Packages for new facility construction within an existing recreation area, when such facility construction can be justified on a benefit cost basis.

(Footnotes Continued)
7 "Routine repairs" are repairs that should be completed in a fairly short time, but are not urgent. Routine repairs would not require an important visitor facility to be shut down if not completed. Routine repairs do not include major or periodic maintenance, unfunded maintenance, modernization activities, new construction, facility replacement or other work budgeted in Improvement Increment. Routine repairs do not include operational maintenance or services such as facility cleaning, mowing or trash pickup. Routine repairs may include non- recurring work items budgeted in 61511 such as roof patching, sign repair or replacement of damaged non-critical signs, graffiti removal, blading roads and camp pads to repair ruts and potholes, dripping faucet repair, repairing a nonfunctional hand dryer, repair of broken picnic tables, grills and fire rings, repair or replacement of damaged partitions and window screens an other non-urgent repairs to structures and facilities.

8 Use your best professional judgment supplemented with your estimate of the area's occupancy rate when determining use intensity. High Intensity Use -- an area with 100% to 75% of the sites/parking lots occupied on weekends during the peak use season; Medium Intensity Use -- an area with 75% to 25% of the sites occupied on weekends during the peak use season; Low Intensity Use -- an area with less than 25% of the sites/ parking lots occupied on weekends during the peak use season.

- (e) Packages for critical non-routine maintenance work. Critical non-routine maintenance is defined as work that, if not accomplished in the Budget Year, will result in failure of a necessary component of recreation infrastructure. Work that will restore an inoperable facility to operability may be defined as critical maintenance, if the facility is a necessary component of recreation infrastructure. For example, if the only shower building in a Class A campground was damaged in a storm and rendered unsafe for visitor use, the costs to repair the building and restore it to public use could be identified as critical non-routine maintenance.
- b. The secondary set of indicators further describes the work. More than one indicator may apply to a single work package. All indicators that apply should be attached to each work package.
- (a) Packages for work to be done in partnership with other private or public entities, such as challenge partnerships, which results in leveraging Corps resources. A field is provided in Rec-BEST to capture the estimated leveraged value of the budget package, i.e. the amount of partner investment in funds, goods or services that would be realized from funding the package.
- (b) Packages that will result in expected increased recreation use fee collection of 10% or more for the recreation area or areas affected by the work.
 - (c) Packages for work that includes a **critical** health and safety component.
- VI-15. **Recreation Budgetary Performance Measures.** The following performance measures have been developed for application in the FY 09 budget development, review and defense. The incremental change in performance values for these measures will be calculated for each work package developed in Rec-BEST. The three performance measure values will then be normalized to achieve a single value that will be used to rank all work packages at the district, MSC and national levels. See paragraph VI.18. Recreation Budget Evaluation System (Rec-BEST), below for more information.
- a. Recreation Unit Day Availability (RUDA) This is an output performance measure of recreation capacity or opportunity.
- b. Facility Condition Index (FCI) This is an output measure of the quality of the opportunities provided to our visitors.
- c. National Economic Development (NED) Benefit This is an efficiency measure of our provision of quality opportunities.
- d. Customer Satisfaction has been identified in the Civil Works Strategic Plan as a performance measure for the Corps recreation program. For FY09, we will report nationwide performance values for this measure. Customer satisfaction is an outcome measure, which is dependent upon the amount and quality of the opportunities provided.
- e. Cost recovery, calculated by dividing recreation use fees collected by recreation funding/expenditure, has been identified as a Recreation Program performance measure. This measure will not be used as a budgetary measure in FY 09; however, nationwide values for this measure will be reported to OMB. The applicability of this measure will be defined further in the future.
- VI-16. **Recreation Budget Construction**. The recreation budget will be constructed using the information delivered as requested in paragraphs VI-10 through VI-15 above. The Recreation Program Team will evaluate the information available and construct a coherent budget that addresses the

Recreation Program Mission, Goals and Objectives; the Recreation Budget Goals and Objectives; and focus areas identified above.

- a. The Initial program is the starting point on which the performance based recreation budget is constructed. This Initial program will be developed starting with the Initial packages submitted by each project. The total amount of the Initial program will be balanced with above Initial requirements to construct an overall, affordable program that best addresses the Recreation Program Goals and Objectives within the context of the total Corps budget. The Initial program will deliver quantified performance values for the 3 budgetary performance measures RUDA, FCI, and NED Benefit.
- b. The sum of the Initial program and Sustained Increment represents the total funding requirement to provide acceptable service to 100% of our customers. This is important information, and care should be taken to assure it is an accurate reflection of that requirement. This total requirement is considered when the ceiling level service program is constructed. An indicator with a text field is provided in Rec-BEST to document if the total of Initial and Sustained Increment increased significantly in FY 09 because of increased O&M requirements resulting from Congressional Adds in prior years. The year and description of the Congressional Add should be noted in the text field.
- c. Work packages in Improvement Increment will be evaluated based on the incremental change in the 3 budgetary performance measures resulting from accomplishing the work. This will provide a single ranking value that will permit ranking of all work packages from 1 to X, from highest to lowest performing work.
- d. Work packages in Improvement Increment will also be identified by work package indicators, which further describe the work to be done. This will permit the segregation of work into categories within which the highest performing work can be identified. For example, the highest performing critical non-routine maintenance can be identified. The highest performing accessibility improvements to be accomplished in partnership with others can be identified. All modernization work can be evaluated based upon its expected increase in fee collection. The combinations of these various data elements result in the capability to create an overall program that is responsive to the Corps requirements, as well as to the interests of OMB, Congress and our customers, within a performance based environment.
- VI-17. **Operations and Maintenance Business Information Link (OMBIL) Data Requirements.** Data to compute recreation performance measures will be maintained in OMBIL. Operations Project Managers should assure that all recreation projects are properly identified in OMBIL with a project site area of type "recreation" and that all OMBIL data required for budget development has been entered and is up to date prior to budget development. For FY 09, the following OMBIL data will be required by recreation area:
 - a. Visitation
 - b. Recreation Area Managing Agency
 - c. Recreation Area sub-type
 - d. Numbers of camp sites
 - e. Numbers of day use parking spaces
 - f. Visitor Center Type
 - g. Campground Class

VI-18. Recreation Budget Evaluation System (Rec-BEST) and P2. A web-based tool was developed and first deployed for field use in calculating recreation performance measures for O&M activities in FY 2006. Rec-BEST uses OMBIL data, supplemented with data provided by the Operations Project Manager, to calculate a value for each of the performance measures associated with each budget package. Using the incremental change in these performance values, Rec-BEST ranks all recreation budget packages at the district, division and HQs levels. For the 09 budget development, all budget and performance information entered in Rec-BEST for FY 08 can be pre-populated into the 09 process unless the users choose not to. A 3% inflation rate will also be applied to all budget packages that are pre-populated from the 08 development to compensate for increase on OM costs. Most projects should take the advantage of retrieving data from the previous year in Rec-BEST and review/update the existing budget packages in Rec-BEST instead of creating new ones.

The performance measure information must be updated in Rec-BEST by 1st June, 2007. These performance data will be extracted from Rec-BEST and then merged with budget data extracted from P2 Primavera Project Manager in OFA. In the case where budget information has not been entered into P2 Primavera Project Manager, both budget and performance information will be extracted from Rec- BEST and uploaded into P2 OFA. When entering budget information into P2 Primavera Project Manager, make sure the corresponding BEST ID's are entered for all budget packages to ensure the proper performance measures can be matched in OFA. For most projects, the preliminary budget information and the matching BEST_ID's can be carried over from previous year's data entry in P2 or should be taken from the existing Rec-BEST database. For projects that start FY 09 budget development in Rec-BEST first, you should provide the budget information to your P2 correspondent for data entry in P2 before the deadlines set by the district/division to allow districts and MSC to review and evaluate their budgets comprehensively, across business lines. For projects that enter the budget into P2 first based on FY 08 Rec-BEST budget package information, make sure to revise your Rec-BEST budget information accordingly. For either option, you must enter the matching BEST_ID when entering budget information in P2. The information needed to provide your P2 correspondents for data entry is available on the P2 summary page in Rec-BEST. Additional OFA uploads from Rec-BEST will be done on district or MSC request to the Rec-BEST technical team at ERDC. As the budget review continues, necessary changes to Recreation budget data will be coordinated and made in Rec-BEST, with subsequent uploads to OFA as necessary. Rec-BEST may be accessed through the NRM Gateway at http://corpslakes.usace.army.mil/employees/recbest/recbest.html along with directions for its use.

- a. Rec-BEST will not be used for Construction work packages. No Investigation work packages will be developed for recreation. For Construction packages, the 3 recreation performance measures should be calculated manually and input to P2.
- VI-19. **5 Year Glide Path.** The Civil Works Five Year Development Plan purpose is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. The five-year plan focus is to undertake projects and activities that provide the highest net economic and environmental returns on the Nation's investment. See paragraph 8 (b) of the main part of the EC for details.

To help in preparing the 2009-2013 five-year plans, the HQ recreation business line manager will work with each MSC/Division to develop five-year funding streams for each project. The funding streams will be the basis for the PY budget and the 2009-2013 Five-Year Development Plan (FYDP) which will be submitted to Congress and Office of Management and Budget (OMB) along with the budget submission. Divisions' five-year programs must be included in the 29 June 2007 submission. After the Divisions submit their five-year funding streams, a CW five-year plan will be prepared.

The targeted ceiling program shown in Table VI-4 is to maintain "current services" compared to the FY 08 budget, as indicated in the Fiscal Year 2009 Army Civil Works Budget Guidance. Performance goals will focus on providing the same levels of service to visitors to Corps operated parks compared to FY 08. The tables below display estimated five-year performance results for the ceiling program.

TABLE VI-4
Five-Year Ceiling Program Performance Targets

Fiscal Year	FY09	FY10	FY11	FY12	FY13
Budget (\$ million)	275	283	292	301	310
Visitation (Corps managed areas million)	127*	127*	127*	127*	127*
Customer Service ¹ - Parks	48%	48%	48%	48%	48%
Customer Service ¹ - Visitor Centers	75%	75%	75%	75%	75%
Customer Satisfaction ²	87%	87%	87%	87%	87%
Recreation Unity Day Availability ³ (in millions)	60*	60*	60*	60*	60*
Facility Service ⁴	47%	46%	46%	45%	45%
Facility Condition ⁵	3.7	3.6	3.6	3.5	3.5
NED Benefits (\$ million)	1,138	1,151	1,163	1,176	1,189
RB/RC (remaining benefits/remaining cost)	4.14	4.06	3.99	3.91	3.84
Cost Recovery (Recreation Receipts/Budget)	16%	16%	16%	16%	16%

- 1. Percent of visitors served at parks with acceptable service levels.
- 2. Percent of visitors who are satisfied with their visits to Corps managed parks.
- 3. RUDA- the total possible recreation opportunities (in site days/nights) provided at Corps managed parks.
- 4. Percent of visitors served at parks with average Facility Condition at "Fair to Good" or better.
- 5. Based on a seven point scale: 1 = poor to 7 = excellent.
- *The strategy to address budget short fall may include a combination of reduced service levels and reduced recreation opportunities implemented through partial and/or compete park closures.

The Recommended program shown in Table VI-5 contains funding for improvements that address visitor health and safety needs, modernize electrical service at high performing campgrounds, improve operational efficiency and improve access to facilities for disabled visitors. In addition, the recommended program includes funding to increase visitor assistance services by rangers to conduct water safety programs and increase patrols in beach areas and Corps operated parks. The program also includes funding for visitation surveys to maintain the capability to monitor visitation levels at Corps projects to enhance the capability of tracking program performances.

Five year performance projections reported here are based on estimates provided by field managers in Rec-BEST during the past three years. Under the recommended program, service levels at individual recreation sites will be maintained and/or adjusted to reflect the level of visitation, relative to the cost of such maintenance, at those sites. Levels of service will be held steady at a higher level compared to the ceiling program, through limited investments in service, site and facility improvements. Program efficiency, as measured by RB/RC, will increase by about 10 percent in five years. The downward trend in facility condition projected under the ceiling program will be reversed and facility condition will gradually increase as a result of facility improvement investments in high performing parks, and visitors served at facilities rated at "fair-good" or better will increase by four percent. The facility improvement is also

needed to meet the increasing recreation demand from population growth. The table below displays estimated five-year results for the recommended program.

TABLE VI-5
Five-Year Recommended Program Performance Targets

Fiscal Year	FY09	FY10	FY11	FY12	FY13
Budget (\$ million)	329	339	350	360	371
Visitation (Corps managed areas million)	144	145	147	149	151
Customer Service ¹ - Parks	75%	75%	75%	75%	75%
Customer Service ¹ - Visitor Centers	80%	80%	80%	80%	80%
Customer Satisfaction ²	88%	88%	89%	89%	90%
Recreation Unity Day Availability ³ (million)	74	74	74	74	74
Facility Service ⁴	49%	50%	51%	52%	53%
Facility Condition ⁵	3.7	3.8	3.8	3.9	3.9
NED Benefits (\$ million)	1,419	1,488	1,582	1,669	1,756
RB/RC (remaining benefits/remaining cost)	4.30	4.38	4.52	4.63	4.73
Cost Recovery (Recreation Receipts/Budget)	16%	16%	17%	18%	19%

- 1. Percent of visitors served at parks with acceptable service levels.
- 2. Percent of visitors who are satisfied with their visits to Corps managed parks.
- 3. RUDA- the total possible recreation opportunities (in site days/nights) provided at Corps managed parks.
- 4. Percent of visitors served at parks with average Facility Condition of "Fair to Good" or better.
- 5. Based on a seven point scale: 1 = poor to 7 = excellent.

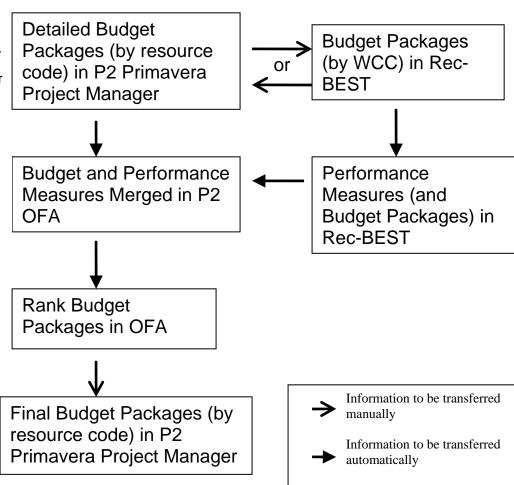
ILLUSTRATION VI-1 FY 09 Recreation Budget Development Work Flow

Two options for building your 09 budget: 1. Start in Rec-BEST and then provide the budget information to your P2 correspondent for data entry in P2 (must do this to get the BEST_ID if this is a new package for 09). 2. Enter the budget into P2 first based on FY 08 Rec-BEST budget package information and then revise your Rec-BEST budget information accordingly. For either option, make sure to enter the matching BEST_ID when entering budget information in P2.

Performance (and budget) information generated in Rec-BEST will be uploaded to OFA to match with all budget packages entered in Project Manager. Direct access to Rec-BEST database will be available for District and Division quality assurance review.

HQ and MSC business line managers develop the nationwide program using budget and performance measures submitted in P2 and Rec-BEST. Recreation budget is then submitted to HQ, ASA, and later OMB for budget appropriation.

Final budget adjustment in P2 based on President's budget. Manually adjust budget information in P2 Primavera Project Manager based on final budget appropriation recorded in OFA.



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APPENDIX VII REGULATORY

VII-1. Background. The Regulatory program protects the aquatic environment by regulating dredge and fill and other construction-related activities in jurisdictional waters of the United States. This responsibility is mandated by the Clean Water Act and the Rivers and Harbors Act of 1899 and other laws. The Corps evaluates and issues over 100,000 permits a year for projects with potential impacts on waters of the United States, including wetlands.

VII-2. Objectives. The Regulatory Objectives and Performance Measures are provided below in Table VII-1, "Regulatory Goals and Performance Measures." These goals and performance measures were developed through a collaborative process with the Corps and OMB and are taken from the Program Analysis and Review Tool (PART) program administered by OMB. The Performance Measures were developed to link the Regulatory Budget to performance that would provide data on the effectiveness of the program. For example, the Objective "No Net Loss of Aquatic Resources" would be defined by data captured through Performance Measures 1 through 6. Based on the national budget priorities, the Corps would be provided funds to administer the Program. Because the Corps Regulatory program is predominantly a labor-based program, dollars allocated to the Program are directly correlated to the target percentages for each of the Performance Measures. The percentage targets for each of the performance measures are designed to judge performance of these objectives based on available budget and to provide information on the veracity of data for the overall Program Goals. For example, data collected during compliance visits (i.e., percent of sites meeting performance criteria) provide information on the success of the Program Goal of "Avoidance and Minimization of Impacts" by confirming the requirements placed on applicants are completed as permitted and entered in the database. Higher target percentages for Performance Measures will result in more comprehensive data which will provide a better measure of success for the Objectives.

VII-3. Civil Works Five Year Development Plan. The Civil Works Five Year Development Plan is designed to provide a framework under which a five-year funding plan will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. For the Regulatory program, the proposed increments included in this EC were developed to provide the glide path to get the program to its target goals within the proposed five-year plan. The focus of the plan is to undertake projects and activities that provide the highest net economic and environmental returns on the Nation's investment.

VII-4. Activities. The program has historically categorized, allocated, and expended funds within the following categories:

Activity	Category
Permit Evaluation	100
Enforcement and Resolution	210
Studies	300
Other Regulations	400
Environmental Impact Statements	500
Administrative Appeals	600
Compliance: Authorized activities and mitigation	800

This categorization allows the program managers to distribute funds in particular categories and track utilization. These accounts will also provide information on the effectiveness of the program within each of the categories.

TABLE VII-1 Regulatory Goals and Performance Measures			
Program Goals	Performance Measures		
No Net Loss of Aquatic Resources	 Individual Permit Compliance The Corps shall complete compliance inspections on XX% of all individual permits issued and constructed within the preceding fiscal year. General Permit Compliance. The Corps shall 		
Avoidance and Minimization of Impacts to Aquatic Resources	complete compliance inspections of XX% of all General Permits (GPs and NWPs) with reporting requirements issued and constructed within the preceding fiscal year.		
	3. Mitigation Site Compliance The Corps shall complete field compliance inspections of XX% of active mitigation sites each fiscal year. Active mitigation sites are those sites authorized through the permit process and are being monitored as part of the permit process but have not met final approval under the permit special conditions (success criteria).		
	4. Mitigation Bank/In Lieu-Fee Compliance The Corps shall complete compliance inspections/audits on XX% of active mitigation banks and in lieu fee programs annually.		
	5. Resolution of Non-compliance Issues. The Corps will reach resolution on non-compliance with permit conditions and/or mitigation requirements on XX% of activities determined to be non-compliant at the end of the previous fiscal year and determined to be non-compliant during the current fiscal year.		
	6. Resolution of Enforcement Actions. The Corps shall reach resolution on XX% of all pending enforcement actions (i.e., unauthorized activities) that are unresolved at the end of the previous fiscal year and have been received during the current fiscal year.		
Expedite Permit Processing	 7. General Permit Decisions. The Corps shall reach permit decisions on XX% of all General Permit applications within 60 days. 8. Individual Permits. The Corps shall reach permit decisions on XX% of all Standard Permits and Letters of Permission (LOPs) within 120 days. This standard shall not include Individual Permits with Formal Endangered Species Act (ESA) Consultations. 		

VII-5. Performance Measures:

- a. Performance Measure 1. Individual Permit Compliance. The Corps shall complete compliance inspections of XX% of all individual permits issued and constructed (or under construction) within the preceding fiscal year (may use compliance certification forms in accordance with NWP General Condition 14 to determine which projects to inspect).
- b. Performance Measure 2. General Permit Compliance. The Corps shall complete compliance inspections of XX% of all General Permits (GPs and NWPs) with reporting requirements issued and constructed (or under construction) within the preceding fiscal year (May use compliance certification forms in accordance with NWP General Condition 14 to determine which projects to inspect).
- c. Performance Measure 3. Mitigation Site Compliance. The Corps shall complete field compliance inspections of XX% of active mitigation sites each fiscal year. Active mitigation sites are those sites authorized through the permit process and are being monitored as required by the permit conditions but have not met final approval under the permit special conditions (success criteria). The measure does not include mitigation banks and in lieu fee programs.
- d. Performance Measure 4. Mitigation Bank/In Lieu Fee Compliance. The Corps shall complete compliance inspections/audits on XX% of active mitigation banks and in lieu fee programs annually.
- e. Performance Measure 5. Resolution of Non-Compliance Resolution with Permit Conditions. The Corps will reach resolution on non-compliance with permit conditions and/or mitigation requirements on XX% of activities determined to be non-compliant at the end of the previous fiscal year and determined to be non-compliant during the current fiscal year. Resolution for this measure shall include removal of the fill_material, processing of an After-The-Fact permit, a requirement to complete some type of compensatory mitigation (voluntary restoration or payment of in-lieu fees), referral to EPA or Assistant US Attorney (AUSA), or resolution by the requirement for monetary compensation as a punitive measure.
- f. Performance Measure 6. Resolution of Unauthorized Activities. The Corps shall reach resolution on XX% of all pending enforcement actions (i.e., unauthorized activities) that are unresolved at the end of the previous fiscal year and have been received during the current fiscal year. Resolution for this measure shall include removal of the fill material, processing of an After-The-Fact permit, a requirement to complete some type of compensatory mitigation (voluntary restoration or payment of inlieu fees), referral to EPA or AUSA, or resolution by the requirement for monetary compensation as a punitive measure.
- g. Performance Measure 7. Processing of General Permits. The Corps shall reach permit decisions on XX% of all General Permit applications within 60 days.
- h. Performance Measure 8. Processing of Individual Permits. The Corps shall reach permit decisions on XX% of all Standard Individual Permits and Letters of Permission (LOPs) within 120 days. This standard shall not include Individual Permits with formal Endangered Species Act (ESA) Consultations.
- **VII-6. General Submission Guidance.** Data will be entered into the P2 Program and District/Division resource requests will be generated in a report. A separate Budget (inactive) WBS will be added below the existing WBS. Data will be input to reflect resource needs for the funding levels outlined in VII-9. MSC's must insure that submissions reflect uniform and consistent levels of work effort among the

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districts and those submissions accurately reflect the required level of service. Resources required by the division should be programmed under Expenses. However, one Level 1 Regulatory activity should be submitted to cover costs for a single GS-13/YD-2 Appeal Review Officer at the division. It will not be submitted under a selected district but as a division project.

VII-7. Types of Activities (Projects) and Work Functions. Resource needs under the Regulatory appropriation should be submitted for up to seven activities (projects). Resources will be further identified according to P2 Resource codes. The seven Regulatory activities are Permit Evaluation- 100, Enforcement- 210, Studies-300, Other Regulations-400, Environmental Impact Statements (EISs)-500, Administrative Appeals-600, and Compliance- 800.

VII-8. Definition of Activities (Project) Categories. Regulatory is divided into seven activity categories:

- a. Permit Evaluation (100). Includes all costs related to the review and evaluation of permit applications under Section 9, 10, 103 and 404 as well as environmental assessments supporting this review. Cultural resource investigations, jurisdiction determinations, public hearings, and other activities related to application evaluation are included as are general permit development and consideration of activities under general permits. Cost for support items such as automated permit tracking systems or other computer or micrographic support and equipment purchases should be identified in description/argument. All resource requests will be entered in the sub-accounts 110 for Standard Permits (Individual, Letter of Permission and Denial), 120 (General Permits including development) and 130 (Other permit work not involving specific permits).
- b. Enforcement (210). Includes all costs related to those activities associated with unauthorized activities and jurisdiction determinations related to enforcement actions, ground and aerial surveillance, and follow-up on violations. Historically, approximately 18% to 25% of national resources were allocated for enforcement, including compliance costs. Establishment of the Compliance category has necessitated a re-appraisal of the enforcement costs without inclusion of compliance efforts.
- c. Studies (300). Includes all costs related to studies such as jurisdiction studies (actual jurisdiction determinations are included under permit evaluation), mapping, wetland studies, shoreline inventories, and collection of data for environmental databases. Resource requests must be grouped by an identified and defined specific study. Studies may be submitted at any level depending on their priority; however, it is recommended that funds for studies be prioritized after all on board (mid FY 06) labor is covered.
- d. Other Regulations (400). Includes all costs related to administration of the miscellaneous regulations such as danger zones and restricted areas, plus review of Section 402 applications. Recent security concerns may require a need for funds for administration of restricted areas and danger zones.
- e. Environmental Impact Statements (EISs) (500). Includes all costs required for preparation of EISs when Corps is the lead or a cooperating agency. In most cases, these costs are associated with Corps review and management only; applicants are responsible for development and analysis. Approval by the MSC and Headquarters is required where the Corps Regulatory Program proposes to provide more than management and review services for any EIS. Resource requests will be grouped by identified and defined EISs. Any new project-specific EISs will be resourced under the Branch organization codes since review will occur in the Regulatory branch. Some resource requests for programmatic EISs may require support from other offices and those organization codes should be used. All EISs must be identified as either ongoing or projected and the percent probability of the EIS being required should be indicated. Costs associated with the review of non-Corps EISs are included under

Permit Evaluation, unless the review is of an in-depth nature requiring more than \$5,000. No request for EIS may be submitted where the EIS is not specifically identified. Costs for EIS's may be submitted at Level 1 and 2 if the EIS is on going or a determination has been made it will be undertaken. An EIS, where there has been a preliminary decision that it will likely be needed, should be placed in Level 3, ranked below any request tied to performance.

- f. Administrative Appeals (600). Costs to support one grade 13/YD-2 Appeal Review Officer, in Level 1, for Regulatory decisions, including travel and related costs, at division offices; and any appeals costs at districts.
- g. Compliance (800). Includes all costs related to compliance inspections for a percentage of the authorized activities and mitigation sites (including mitigation banks, in-lieu fee programs, and site specific mitigation). This category includes costs associated with resolution of non-compliance found as part of inspections as well as administrative civil penalties for non-compliance.

VII-9. Definition of Resources.

- a. Labor (LABOR). Fully burdened labor costs required to pay salaries and benefits of personnel (except contracted personnel) and normal office operational costs to support these personnel according to the service provided at each level, i.e., only manpower and costs related to manpower necessary to meet the performance measures should be included at that level. Labor will be input by organization code (Regulatory, all support by other District elements, and work by other Corps elements). At the third level, additional manpower may be shown but in requests ranked below those needed to meet the performance goals. Items to include are: overhead costs not separately charged under another P2 resource code such as rent, utilities, communications, computer systems, travel, training, reproduction, supplies, etc.
- b. Vehicle Costs (GSAVEH). All projected vehicle costs to perform work at the identified activity level.
 - c. Printing (PRINTING). All printing costs associated with the identified activity level.
- d. Other contractual services (OTHCONSVC). Any contractual services required at the identified activity level. All mission support type contracts must by listed (new or renewal of existing contracts). Examples of work to be shown are: aerial photography; inspection contracts; cost sharing agreements with states or other Federal agencies; contractual personnel; personnel from other agencies paid with Regulatory funds; data gathering contracts.
- e. Travel (TRAVEL). All direct-charged travel costs required to meet goals of identified activity level.
- f. Any other appropriate P2 resource code required to meet stated Regulatory Program goals. Resources shall be entered at the appropriate activity and funding level.
- g. Data and Database Costs. Costs associated with the required hardware support for the spatial database (ORM-2) should be provided in supplemental comments and be included in the totals for Level 2 funding. Districts should coordinate with the local IM personnel and Institute for Water Resources (IWR) to develop a strategy to maintain computer hardware that meet the minimum ORM-2 hardware requirements (or greater) and that meet the federal buy program standards for staff work stations. Districts should consider submitting budget requests for priority data acquisition (beyond that provided by

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HQ and other sources) if it is determined to be critical for analysis of project impacts, cumulative impacts, and mitigation within targeted watersheds.

VII-10. Funding Levels and Increments. District Regulatory resource requirements should be submitted in three Funding Levels including Increments for performance, non-performance mandatory work, and non-mandatory non-performance related work as described below. The Level 1 Funding program is designed to provide a balanced, fully operational, albeit reduced, program with the performance targets specified in Increment 1.

Costs to support more than one performance measure may be combined provided the request includes only costs to meet the measures for one of three program categories (permit evaluation, enforcement, and compliance). For Performance Measure 8, insure funds are included to process all Individual Permits while meeting the standard for those permits with no ESA requirement. Funding arguments should indicate differences or similarities with current levels of effort. Requests for new FTEs (not authorized in mid FY 2006) must be identified as new FTEs in the Labor resource description. Increment 2 and Increment 3 reflect the additional resources required to meet performance measure targets indicated below. Total Funding levels for Level 1 should include Increment 1 and any additional resources required for Increment 4, mandatory non-performance related work (Includes work in categories 130, 400, and 600. Resource requests for Increment 5 (high priority SAMPS and/or other watershed management plans, GIS analytical tools, acquisition of spatial data sets, and/or development of spatial assessment tools may be submitted within Total funding for Level 2 or 3 if they will provide significant benefit to management of the program workload.

a. **Increment 1**. Resource requests should be submitted with Increment 1 (minimum) requirements allowing the performance as defined below. Increment 1 reflects the FY 07 performance targets that are currently in place. Increment 1 was designed to provide a balanced, fully operational, albeit reduced, program with the following performance targets.

Compliance requests(s) to meet the following levels of performance:

Performance Measure 1	Individual Permit Compl Insp	Level 1 Target: 10%
Performance Measure 2	General Permit Compl Insp	Level 1 Target: 5%
Performance Measure 3	Mitigation Site Compl Insp	Level 1 Target: 10%
Performance Measure 4	Mitigation Bank/ILF Compl Insp	Level 1 Target: 25%
Performance Measure 5	Resolution of Non-compliance	Level 1 Target: 25%

<u>Enforcement requests(s) to meet the following level of performance:</u>

Performance Measure 6 Resolution of Unauthorized Activities Level 1 Target: 25%

Permit Evaluation requests(s) to meet the following levels of performance:

Performance Measure 7 Processing of General Permits Level 1 Target: 75%
Performance Measure 8 Processing of Individual Permits Level 1 Target: 50%

b. **Increment 2**. The incremental increase of all resource requests at Increment 2 should allow the district to provide (but not exceed) the following increased levels of service and performance. Increment 2 was designed to meet the performance goals for permit processing along with an increase in compliance and enforcement efforts from Increment 1. Some additional requests, not directly contributing to meeting the measures may be submitted provided they are essential to support the other resources needed to meet the performance targets below.

Compliance request(s) to meet the following levels of performance:

Performance Measure 1	Individual Permit Compl Insp	Level 2 Target: 20%
Performance Measure 2	General Permit Compl Insp	Level 2 Target: 10%
Performance Measure 3	Mitigation Site Compl Insp	Level 2 Target: 20%
Performance Measure 4	Mitigation Bank/ILF Compl Insp	Level 2 Target: 75%
Performance Measure 5	Resolution of Non-compliance	Level 2 Target: 30%

Enforcement request(s) to meet the following level of performance:

Performance Measure 6Resolution of Unauthorized Activities Level 2 Target: 30%

Permit Evaluation request(s) to meet the following levels of performance:

Performance Measure 7	Processing of General permits	Level 2 Target: 90%
Performance Measure 8	Processing of Individual Permits	Level 2 Target: 75%

c. **Increment 3**. Additional incremental requests should be submitted to meet the increased performance standards identified below for Level 3. The requirements for the Level 3 requests represent the fully funded program, meeting all stated Program Objectives. After requests have been submitted to meet the performance targets, additional, non-mandatory requests to enhance the program may be submitted. NOTE: Districts which are currently exceeding any of the performance measure targets in Level 3, costs for manpower in these areas should be redirected to work to support the other performance measures.

Compliance package(s) to meet the following levels of performance:

Performance Measure 1	Individual Permit Compl Insp	Level 3 Target: 50%
Performance Measure 2	General Permit Compl Insp	Level 3 Target: 20%
Performance Measure 3	Mitigation Site Compl Insp	Level 3 Target: 30%
Performance Measure 4	Mitigation Bank/ILF Compl Insp	Level 3 Target: 100%
Performance Measure 5	Resolution of Non-compliance	Level 3 Target: 40%

Enforcement package(s) to meet the following level of performance:

Performance Measure 6 Resolution of Unauthorized Activities Level 3 Target: 40%

Permit Processing Requirements None required

(Level 2 meets stated goal for Measures 7 and 8).

- d. **Increment 4**. All mandatory, non-performance related work (e.g. work in categories 130, 400, 600)
- e. **Increment 5**. All non-mandatory, non-performance related work (e.g. work in categories 300 and 500)
- **VII-11. FTE Output Measures.** All requests for Regulatory labor shall result in a calculation of FTEs by one of the P2 tools. *IMPORTANT*: In order to insure that labor requests are funded, districts should be certain that the appropriate number of FTEs is reflected; a zero will result in a resource request being

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APPENDIX VIII WATER SUPPLY

VIII-1. Background. The Corps of Engineers has provided water supply storage space in its multi-purpose reservoirs for many years. Based on current data, approximately 9.9 million acre feet of municipal and industrial (M&I) water supply storage space are included in 137 reservoir projects in 26 states plus Puerto Rico. Approximately 95% of this storage is under contract for present or future use. Although the primary responsibility for developing water supplies for domestic, municipal, industrial and other purposes rests with State and local interests, M&I storage space may be recommended for inclusion in any Corps reservoir pursuant to the Water Supply Act of 1958. Studies associated with reallocation of water for M&I and/or environmental purposes; although not considered low priority, must compete with all activities in a constrained budget environment.

VIII-2. Purpose. As one of the nation's largest water management agencies, the U.S. Army Corps of Engineers plays an important role in ensuring that Americans have enough water to meet their needs. The Water Supply program currently provides some 3.8 billion gallons of water per day to allow State and local interests to supply cost-effective water to homes, businesses and farms nationwide.

VIII-3. Goals and Objectives. Table VIII-1 displays the Water Supply Program Objectives and Performance Measures published in the March 2004 Civil Works Strategic Plan. The CW Strategic Plan was developed with an explicit assumption of an unconstrained resource environment to encourage an unconstrained assessment of the nation's water resources needs and potential Corps response. Preparation of the FY 09 budget request requires the recognition of a constrained budget environment and the ongoing effort to evolve better budget linked performance measures.

TABLE VIII-1
Water Supply Objectives and Performance Measures

Program Objectives	Performance Measures
In partnership with non-Federal water management plans and consistent with law and policy, manage Corps reservoirs to provide water supply storage in a cost efficient and environmentally responsible manner.	Acre-feet of storage under contract versus acre-feet available. Percentage of costs covered by revenues returned to Treasury.

VIII-4. Performance Measures.

a. The Corps Water Supply program is well established and valued, however our capability to continue to supply storage is dependent on our ability to demonstrate cost-efficiency of water storage and need for additional storage space for water supply purposes. OMB suggested the performance measures contained in Table VIII-1 as part of the deliberations on the Corps Strategic Plan. Both measures reflect on the ability of the Water Supply program to return revenues to the Treasury. In that regard a secondary program objective will be to increase revenues to the Treasury through the reallocation of storage space from other authorized purposes and the timely collection of payments from existing water supply contracts. The Corps water supply program is very cost effective. Our 2006 data show an annual collection of \$13.0 million in principal and interest (P&I) payments and an additional collection of \$10.0 million for O&M expenditures. The cost to the districts to collect this \$23.0 million was \$1.7 million. All collections are returned to the U.S. Treasury as miscellaneous receipts.

- b. In the above table the term "acre-feet of storage under contract" refers to both present and future use contracts and "acre-feet available" is defined as acre-feet of storage authorized for M&I water supply to include both originally authorized storage space as well as that storage space reallocated for which a water supply agreement has been signed. For the performance measure "percentage of costs covered by revenues returned to Treasury", a proxy will be utilized until better reporting data are available. This proxy is a comparison of the costs assigned to present use storage space compared to the costs assigned to the total acre-feet of storage space available as defined above. In the development of this data, "present use" includes that storage space for which all capital costs have been recovered in full as well as that storage for which capital costs are currently being repaid.
- **VIII-5.** Budget Increments for FY 09 Budget Development. In order to achieve the above objectives, we are establishing budget increments, to assure uniformity across the country in building annual budgets from the same point. For water supply, budget increments will be established by funding category. See Definition/Glossary section for detailed and additional budget definitions.
 - a. Investigations (I): (Water Supply Studies funded under the Investigation Budget)
- (1) Increment 1. This increment will include only the minimum continuing activities and the total request is limited to the budget amount for PY -1, by study. Do not include new PED or study phases. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- (2) Increment 2. New phases of studies previously budgeted may be initiated in this increment. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- (3) Increment 3. This increment will include the activities needed to sustain (not fall behind/not accelerate) the study schedule included in the Project Management Plan (PMP). New starts and resumptions may be included. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- (4) Increment 4. This increment includes additional capability activities that can be supported by cost sharing sponsor and Corps resources. This increment can be viewed as enhancing (or advancing) the study schedule at a faster pace than shown in the PMP. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- b. **Construction (C)**: There will be no new starts for single purpose water supply projects. Should a multipurpose project with water supply as one of those purpose, be placed under construction and/or should a modification or reallocation of storage in an existing project occur, all costs allocated to the water supply feature will be repaid by the local sponsor prior to or during the period of construction. Since there are no Federal funds involved, there will be no incremental construction funding levels for water supply.
- c. **Operation & Maintenance (O&M).** (For the operation and maintenance of specific water supply facilities and for the development and renegotiation of water supply agreements.) New starts are not applicable to funding for the operation and maintenance of specific water supply facilities.
- (1) Increment 1. This increment includes critical and cyclical routine activities such as those required by billings and collections of water supply agreements or expense related to specific water supply conduits. It is anticipated that most all water supply operation and

maintenance funding will occur in this increment. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

- (2) Increment 2. This increment is for critical non-routine activities. Non-routine activities are those that must be accomplished to insure project safety, and critical maintenance actions that are required to keep the project operating and delivering benefits. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- (3) Increment 3. This increment includes operation and maintenance activities, both routine and non-routine, above the minimal, that are defined by the state of the practice and are needed to sustain the expected future benefits of the project. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.
- (4) Increment 4. Activities that have a high expected return on investment that enable greater levels of performance in future years should be include in this enhanced or capability increment. Increment must be performance based and integral with a study/project with high outputs and consistent with ranking.

d. Operation and Maintenance for Water Supply Studies (O&M Studies)

- (1) Increment 1. This increment will include only the minimum continuing and new study activities with funding limited to be no more than was contained in the PY-1 budget. Do not include new study phases. Previously budged reallocation studies migrate to I after initial assessments (see Annex C).
 - (2) Increment 2. No O&M water supply studies fall under this increment.
- (3) Increment 3. This increment will include the activities needed to sustain (not fall behind/not accelerate) the study schedule included in the PMP. New starts and resumptions may be included.
- (4) Increment 4. This increment includes additional capability activities that can be supported by cost sharing sponsor and Corps resources. This increment can be viewed as enhancing (or advancing) the study schedule at a faster pace than shown in the PMP
- VIII-6. Rating and Ranking Criteria for FY 09 Budget Development. I studies, at the reconnaissance or feasibility level or O&M funded initial assessments evaluating reallocation of storage space from other project purposes that will otherwise increase revenues to the Treasury will be given priority for budgeting purposes. As such, all budget requests for water supply studies must be accompanied by the following set of criteria: "anticipated cost of the study versus the anticipated capital costs to be recovered" and "degree of local support" (little), (some) or (strong).
- VIII-7. Civil Works Five Year Development Plan. The purpose of this plan is to present an overview on how the funding for the Civil Works program over a five-year period will produce results that contribute to achievement of the strategic goals and objectives in the Civil Works Strategic Plan. See paragraph 8 (b) "Civil Works Five Year Development Plan". The FYDP for the Water Supply Program focuses on labor and associated costs involved in the development of new water supply agreements; costs required for existing water supply agreements such as renegotiations and for billings and collections including delinquencies, law suits and modifications; as well as the costs associated with the operation and maintenance of specific water supply features of the projects. Studies may be considered in accordance with the guidance of above paragraph VIII-5.

VIII-8. Special Considerations or Special Rating Criteria. The work category codes for water supply are described in Annex C. Phase codes are defined in Table 3 of the main EC. Districts will use P2 and the appropriate work category and phase codes to request funds for water supply activities for each project. These requests should be placed in the appropriate increment based on performance metrics. For joint activities on O&M multipurpose hydropower (Cat/Class 300) projects activities will be ranked in the Hydropower business line according to its criteria. All other joint activities – joint costs, including water supply related work on non-Cat/Class 300 projects will be included in the project's predominate business line. Additional instructions on Joint Activities – Joint Costs are contained in paragraph C-2.3 of Annex C.

VIII-9. Water Supply Program Budget Ranking Criteria Matrix. The data required for ranking the 09 budget requests is shown in Table VIII-2 (*spreadsheet*).



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SUB-ANNEX A-1 GENERAL (RCS CECW-B-12)

- **A-1.1. Applicability.** This annex provides Program guidance and procedures for all activities in the Investigations (I) appropriation title and comparable ones from the Flood Control, Mississippi River and Tributaries (MR&T) appropriation title, where appropriate
- **A-1.2. Organization and Structure.** Subannex A-2 includes all specifically Programmed activities Reconnaissance and Feasibility Studies, Restudies/Reviews, and Preconstruction Engineering and Design (PED). It provides guidance on feasibility studies and PEDs, including new starts. Subannex A-3 covers all other activities funded by the Investigations appropriation title and the Flood Control, Mississippi River and Tributaries counterparts.
- **A-1.3**. **Definitions.** The following definitions are provided to assist you in identifying surveys and projects to be included in the submission of the Investigations program.
- a. Navigation Studies. Navigation studies seek to provide safe, reliable, and efficient waterborne transportation systems (channels, harbors, and waterways) for movement of commerce, national security needs, and recreation.
- b. Flood Damage Reduction Studies. Studies seek to prevent or reduce flood damages through the use of structural or non-structural measures. Structural measures include dams with reservoirs, dry dams, channelization measures, levees, walls, diversion channels, ice-control structures, and bridge modifications. Non-structural measures reduce flood damages without significantly altering the nature or extent of flooding by changing the use made of the flood plains, or by accommodating existing uses to the flood hazard Non-structural measures are flood proofing, permanent relocation of structures, flood warning/preparedness systems, and regulation of flood plain uses.
- c. Shoreline Protection Studies. Studies seek to provide hurricane and storm damage reduction caused by wind-generated and tide-generated waves and currents along the nation's ocean coasts, Gulf of Mexico, Great Lakes and estuary shores.
- d. Ecosystem Restoration Studies. Studies seek to identify means to restore degraded ecosystem structure, function, and dynamic processes to a less degraded, more natural condition. This does not include actions normally considered to be remediation of hazardous material.
- e. Watershed/Comprehensive Studies. Watershed studies are planning initiatives that have a multi-purpose and multi-objective scope and accommodate flexibility and collaboration in the planning process. Possible areas of investigation include flood damage reduction activities, ecosystem restoration, navigation, water supply, and recreation. Districts are encouraged to pursue this approach.
 - Requires consideration about water resources development and management in the context of multiple purposes rather than single purposes, and, thus, facilitates the search for comprehensive and integrated solutions.
 - Improves opportunities for public and private groups to identify and achieve common goals by unifying on-going efforts and leveraging resources.
 - Identifies a combination of recommended actions (a Watershed Management Plan) to be undertaken by various partners and stakeholders in order to achieve local, tribal, regional, and national water resources management goals identified in the study and may or may not

- identify further budgetable Corps studies or implementation projects.
- <u>Leverages resources, including cost shared collaboration, and integrates programs and activities within and among Civil Works programs, and with other Federal, tribal state and non-governmental organizations, to improve consistency and cost effectiveness;</u>
- f. Special Studies. This category should be used only in special cases, where the survey or project has a National perspective and is not tied to one project purpose or business line; most often these will be HQ funded items.
- g. Reconnaissance Phase completion: The Reconnaissance phase ends with the execution of a Feasibility Cost Sharing Agreement (FCSA) or a report recommending no Federal action.
- h. Feasibility Phase completion: The Feasibility phase ends on the date the Division Engineer's Transmittal of the final feasibility report to Headquarters.
- i. Preconstruction Engineering and Design (PED) Phase completion: The PED phase ends after completing the first set of plans and specifications or when the Project Cooperation Agreement (PCA) is executed.
- j. NEW PHASE: A study or project is considered to be in a NEW PHASE once it has completed the current phase that is funded and is ready for budgeting in the follow-on phase (e.g., from Reconnaissance to Feasibility or Feasibility to PED). Seamless PEDs are a new phase. A value must be entered in the data field named "Phase Status" for every budget item (row) in P2(OFA). The valid values are New Phase (NP), Continuing (CN), and Last Year of Phase (LY). For a new Recon, you should enter New Phase (NP) in this column. If a study is completing one phase and starting a new one in the PY (e.g., finish Feas and start PED), each should be a separate entry (one LY and one NP).

SUB-ANNEX A-2 SPECIFICALLY PROGRAMMED STUDIES AND PROJECTS - NEW AND CONTINUING

A-2.1. Performance Based Budget Increments.

- a. **Ranking criteria**. To be considered for inclusion in the FY 09 program each study must meet the following criteria prior to applying the business line performance/ranking criteria:
 - be in accord with current policy
 - urgency of implementation of problem solution
 - have local support for continuation of activity
 - likely participation of non-Federal sponsor in implementation of solution
 - scheduled activity completion date
- compliance with NEPA and other environmental regulations appropriate for the stage of the effort.
- b. **CECW Program.** CECW will review the I portion of the Civil Works Program considering the national criteria in effect mid-summer PY-2 and guidance from ASA(CW) and OMB. CECW may increase or decrease the total for I. Once the initial level is established, investment increments will be added in accordance with priorities in each business line. To be considered for inclusion in the FY 09 program each study must meet the following criteria prior to applying the business line performance/ranking criteria:
 - be in accord with current policy
 - urgency of implementation of problem solution
 - have local support for continuation of activity
 - likely participation of non-Federal sponsor in implementation of solution
 - scheduled activity completion date
- compliance with NEPA and other environmental regulations appropriate for the stage of the effort.

A-2.2. Program Description and Procedure.

a. Project Development Process

In General. The development of each new project or separable element will adhere to the standard project development process, as follows.

- (1) **Studies**. There will be a two-phased study leading to a feasibility report in accordance with sections 905 and 105 of the Water Resources Development Act (WRDA) of 1986, as amended. A feasibility report is needed to support environmental compliance, policy review, engineering and design, and a project cooperation agreement (PCA). A feasibility report will be prepared even in those instances where the project or separable element is authorized before completion of the feasibility report. The feasibility phase will be carried out under a cost shared feasibility cost sharing agreement (FCSA), except for feasibility studies carried out before WRDA 1986 took effect, feasibility studies for inland waterway projects, and studies to dispose of or reduce costs at existing Federal projects.
- (2) **Preconstruction Engineering and Design (PED)**. PED will begin after issuance of the Division Engineer's Transmittal Letter of the final feasibility report and will be carried out under a design agreement until execution of the applicable PCA. The design agreement will provide for concurrent

financing of design 75 percent Federal and 25 percent non-Federal. When construction is initiated, the design costs will be folded into total project costs and the Federal and non-Federal shares will be brought into balance in accordance with the cost sharing in the applicable PCA. A design agreement is not required for the following: an inland waterway project; a dam safety assurance, seepage correction, or static instability correction project; a replacement project; deficiency correction at a Federally operated project; or a project or separable element for which the non-Federally financed portion of engineering and design during construction costs alone would exceed the total non-Federal cash share for the project or element, the non-Federal share is reduced under ability to pay rules, engineering and design during construction costs are less than \$100,000, or engineering and design was initiated before FY 1997.

- (3) **Budgeting**. All studies and all post-feasibility, pre-PCA engineering and design activities for new projects and separable elements that are consistent with policy will be budgeted as studies and PED, respectively, in the Investigations account or the study/design portion of the Flood Control, Mississippi River and Tributaries (MR&T) account. However, post-feasibility, pre-PCA engineering and design may be budgeted as construction in the Construction account or the construction portion of the MR&T account if the applicable project or element is authorized, is supported by the Administration for construction, and either is budgeted as a new start or has received construction appropriations.
- (4) **Post-Feasibility Modifications**. Once the feasibility report has been completed for a project, additional engineering and design, economic and environmental analyses, and evaluations often result in the identification of potential project modifications. Each potential modification that is identified (whether during PED or construction) should be subjected to a reconnaissance-level examination to determine whether the modification so changes or would change project scope or functions, beyond the scope and functions described in the completed feasibility report, that it required or would require additional authorization, beyond the current authorization or the authorization contemplated in the completed feasibility report.
- (a) Examination and documentation of a simple cost increase without a change in scope or functions may be undertaken as part of PED or construction. If additional authorization is required as a consequence of the simple cost increase, a Post-Authorization Change Report should be prepared.
- (b) Examination and documentation of design changes that would not require additional authorization may be undertaken as part of PED or construction. However, if such design changes are material changes to the basic project features or output levels and the original project already is covered by a PCA, design of the material changes should be undertaken under a design agreement, and construction of the material changes should not be commenced until the PCA has been amended to reference an approved report that incorporates the material changes.
- (c) A modification that required or would require authorization beyond the current authorization or the authorization contemplated in the completed feasibility report, and that extends, expands, or adds functions to the original project described in the completed feasibility report, is beyond the scope of the original project. If such an added function is physically integral to the original project, the modification will be treated as a substitute plan and, if the substitute plan is pursued, work on the original project will be suspended, then concluded in an orderly manner. An extension, expansion, or physically separable added function will be treated as a new project if it is unauthorized or is separately authorized, or it will be treated as a new separable element if it is authorized as a modification to the original project. Following the reconnaissance-level examination, the substitute plan, new project, or new separable element will be developed in accordance with the standard project development process discussed above, beginning with its own feasibility study.
 - (d) The development of a new project (including a substitute plan) or a new separable element

will not be undertaken as a "reevaluation" of the original project, and will not be funded as part of engineering and design or construction of the original project. However, once the feasibility report for a new separable element has been completed, the new separable element may be included in PED for the project along with other separable elements, and may be included in construction of the modified project if the new separable element is authorized and has received construction funds.

b. **Feasibility Studies.** This encompasses all studies, Federally funded and cost-shared, and new starts for reconnaissance phase studies. Cost sharing is not applicable to single purpose inland navigation studies on the nations inland waterways system in accordance with ER 1105-2-100, para 2-12.b.(4).

Eligibility and Selection for Funding.

- (1) New. New starts include all active authorized feasibility studies which have not received an initial work allowance and are eligible for funding based on their justification or (1) was not included in the PY-1 Program or was not funded in the conference report which accompanied the PY-1 appropriation act and (2) was not funded in the conference report which accompanied the PY-2 appropriation act (Resumption). The needs to be addressed should be of broad national scope and significance and should include at least one of the following: commercial navigation; inland navigation; flood damage reduction; hurricane and storm damage reduction; ecosystem restoration, and reallocation of existing storage or addition of storage to an existing project that would increase vendible outputs where there is no construction cost to the Federal government;. Final selection for inclusion in the program will require justification on the specifics and history of the need or problem and evaluation of the extent to which the proposed effort meets the appropriate business line performance and ranking criteria. The justification should be able to demonstrate the urgency for funding of the reconnaissance phase in the PY. In addition, based on recent expression of community interest, the Division Commander should believe there is a potential sponsor for the feasibility phase, one who understands the two-phase process and who would be willing to participate. Funds to initiate a new reconnaissance study will be issued with initial FY work allowances; however, the 12-month reconnaissance phase will be measured from the date of initial obligation of funds. Proposals for new Reviews of Completed projects must be accompanied by the completed initial appraisal or reconnaissance report prepared with O&M funds.
- (2) **Continuing.** All active authorized continuously funded studies or previously funded cost shared studies that local interests fully support and that are judged likely to lead to implementation of a solution are eligible for funding in the PY. In addition, the study must address at least one of the needs of commercial navigation, flood damage reduction, hurricane and storm damage reduction, or ecosystem restoration. Continuing studies include feasibility studies resulting from an approved 905b reconnaissance report and a certified reconnaissance phase. These studies may be budgeted as continuing "spinoff" feasibility studies, however, they must have been clearly identified in the certified reconnaissance report to be included in the budget. When a certified reconnaissance phase identifies more than one "spin-off" feasibility study, one of those feasibility studies may carry the same PWI number as the parent reconnaissance study. Each additional "spin-off" study will be given a new PWI number and each one must be budgeted separately. Normal feasibility cost-sharing rules apply. Justification sheets should identify the original 905b authorization for continuity and to provide an audit trail. "Spin-off" feasibility studies should be clearly identified in the parent reconnaissance phase. Studies not clearly identified in the reconnaissance phase may not be considered continuing studies and will require a new start decision.
- c. **Preconstruction Engineering and Design (PED).** PED is concurrently financed with non-Federal sponsors. Sponsors must assure that they understand and are ready to sign a design

agreement and have funds available to finance the PED portion of the design of a project. PED will ultimately be cost shared at the rate for the project to be constructed but will be initially financed through the PED period at 25% non-Federal. Any adjustments that may be necessary to bring the non-Federal contribution in line with the project cost sharing will be accomplished in the first year of construction. There are four programs of PED.

(1) Description.

- (a) **PED Under the Concepts of Two-phase and Cost-shared Planning.** PED that are justified and result from cost shared studies conducted under the two phase procedures may be programmed and justified as a continuing activity. Subject to the availability of funding, initial funding will be programmed in the fiscal year the feasibility report with engineering annex is completed. Normally funds will be allotted immediately after the Division Engineer's Transmittal Letter. The intent is to include PED in the Program request as continuing activities as long as the anticipated project to be recommended is in accord with current priorities and a non-Federal sponsor is ready to contribute 25% of the PED cost during PED by stating their readiness to sign a design agreement. The PED estimate will include the cost of all engineering efforts (including inflation through the PED period) that are necessary to ready the project for construction, including in most cases the plans and specifications for the first significant contract. The project data summary, Illustration A-2.5, includes a data element to distinguish PEDs in this group from the other PED types.
- (b) PED for Projects Authorized for Planning and Engineering Only. PED for projects authorized for planning and engineering by the Water Resources Development Act of 1986 are included in this group. These projects will be Programmed for initiation of PED only after new start selection by ASA(CW) and concurrence by OMB. By definition, the planning and engineering phase will include all work required to submit a feasibility report with engineering annex, and will be cost shared 50/50 with a non-Federal sponsor. In accordance with Section 301 of Water Resources Development Act of 1990, if the sponsor provides 50 percent of the cost of the feasibility study the design phase will be treated as cost of construction. The design phase will include all work after the feasibility phase, including the Design Documentation Report (DDR) and plans and specifications for the first significant contract, and will be cost shared according to project purpose. A non-Federal sponsor must be ready to contribute 25% of the PED cost during PED by stating their readiness to sign a design agreement. Normally, there will be no reconnaissance phase for these projects. The PED estimate will include the cost of all engineering efforts (including inflation through the PED period) that are necessary to ready the project for construction.
- (c) <u>PED for Inland Navigation Projects.</u> PED for inland navigation projects will be programmed in accordance with the instructions in paragraph c(1)a above, except that it is funded 100% Federally funded.
- (d) **Other PED.** PED for projects which are not adequately described by the preceding subparagraphs of section A-2.2.c. Normally, initial funding will be programmed in the fiscal year the supporting report is completed. These projects will have to compete for new start status and will not be included in a program request as a new start unless specifically approved by the ASA(CW) and concurred in by the OMB and a non-Federal sponsor is ready to contribute 25% of the PED cost during PED by stating their readiness to sign a design agreement. The PED estimate will include the cost of all engineering efforts (including inflation through the PED period) that are necessary to ready the project for construction, including in most cases the plans and specifications for the first significant contract.
 - (2) Eligibility and Selection Criteria.

- (a) **New Start** must meet the following:
- (1) A Division Engineer Transmittal Letter recommending the project will be issued by June of the PY, or the project was authorized for planning and engineering only by the Water Resources Development Act of 1986; and
- (2) The project has net economic benefits at the current interest rate, or ecosystem restoration benefits that exceed the cost; and
- (3) The primary project outputs are commercial navigation, inland navigation; flood damage reduction; hurricane and storm damage reduction; or aquatic ecosystem restoration; and
 - (4) There is no major unresolvable controversy or issue; and
- (5) There is an identified and willing sponsor who understands and has the ability to finance PED at the 25% rate and has the ability to finance the items of local cooperation for construction.
- (6) The project is in compliance with applicable environmental statutes appropriate to the current stage. Or below
- (7) An Environmental Assessment/Finding of No Significant Impact has been signed, or final EIS has been filed, or final EIS supplement is scheduled for filing with EPA by August of the PY-2.
- (8) Prioritization will be based on the criteria for the appropriate business line as discussed in Appendices 1-8.
 - (b) **Continuing projects** may be included if the following are met:
 - there is a strong probability of implementing a solution; and
 - the activity meets all criteria under subparagraph (a) above.

A-2.3. Program Considerations.

- a. Study and PED cost estimates are to include an allowance for inflation in accordance with the instruction of paragraph 6 of this EC. The construction project cost estimated displayed in the PED portion of Illustration A-2.5 and the justification sheet will be based on 1 October of the PY-1 price level (Do not include an allowance for inflation through the construction period).
- b. Annual funding requests for new reconnaissance phase studies are to be only for the amount required to carry out the anticipated activities during that FY.
- c. Submissions for funding of continuing studies and projects not included in the PY-1 program request must be accompanied by a supplemental (page 2, see paragraph A-2.4.a.) justification describing the changed conditions that now warrant inclusion of the study/project in the PY request.

A-2.4. Submission Requirements.

a. **Justification Statements.** See Table 2 of this Engineer Circular for the due dates for draft justification materials for new starts, draft justification materials for continuing work, revisions to justification materials, and final justification materials for submittal to Congress. Supporting data for each

study or project in the Division's programs, that has a funding requirement in the PY, both new and continuing, contained in the final program "recommended" to Congress in support of appropriations, will consist of a Justification Sheet, two part where necessary. The mandatory first page is the Congressional Justification. See Illustrations A-2.1 through A-2.4 for format and content for new start reconnaissance phase, feasibility phase (cost shared), continuing surveys (full Federal expense), and PED. The second page, is required when funds are being requested to continue a study or project not included in PY-1 program or appropriations but proposed for funding in the PY program, is to be used to provide any additional information or expansion of data more appropriately classified as supporting data not appropriate for inclusion in the congressional justification, but may be necessary for proper and complete consideration for inclusion in the President's Program. The appropriation title and division must be typed as the first line in the body of the first page of the survey and PED justification package. Do not underline any headings. The District must be identified under the survey or PED name. Justifications for new starts and continuing studies and projects are to be submitted electronically through HQUSACE to RITs.

b. P2. All studies and projects, including new starts, will be coded into the P2 system as discussed in section 13 in the main portion of this EC. A feasibility study will use the same P2 Project ID number as the reconnaissance study when there is only one feasibility study as a result of the reconnaissance, however, the feasibility will use a separate CW Type of Funds (ccs) identifying the phase and project purpose associated with that level of work. In the situation where more than one feasibility study results from a reconnaissance study, then a new system generated Project ID number will be provided from P2. In addition, a PED project will use the same P2 Project ID number as the feasibility study when there is only one project coming out of the parent study.

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ILLUSTRATION A-2.1 NEW START RECONNAISSANCE PHASE STUDY

APPROPRIATION TITLE: Investigations, Fiscal Year (PY)			Division:	_	
Study	Total Estimated Federal Cost \$	Allocation Prior to FY (PY-1) \$	Allocation FY (PY-1) \$	Tentative Allocation FY (PY) \$	Additional to Complete After FY (PY)
SURVEYS - NEW (Insert Type)					
Study Name	100,000	0	0	100,000	0

EFG District

Furnish a brief description of the study area, water resource development problems, and principle purposes of the study. For example, for flood damage prevention studies any information available on recent flood history. (dates, physical and dollar losses, etc), or for navigation studies include information on use (commercial vs. recreation) cargo types and quantities if known. For ecosystem restoration studies, include information that addresses the performance components in Appendix II (do not enter the scores) and information about the physical area involved. For all purposes, provide any pertinent information concerning coordination with Federal and state resource agencies. Identify relationship to other project purposes if appropriate. Do not include irrelevant data such as "mild summers or harsh winters"; do include all the data that would tell why this study should be selected out of the many recommended. Also cite any matters known to be of concern to the Congress and identify the tentative local sponsor who has indicated intent to share equally in the feasibility phase cost that may follow the reconnaissance study. (There may be multiple sponsors for watershed and multi-purpose studies) Describe briefly the general scope and key areas of concern that are to be addressed in the reconnaissance study, probable solutions if this type of information is available, and the work to be performed in the program year. This paragraph should present specific arguments and evidence that it is important to initiate the study in the program year and similar evidence that makes it clear that the study and its anticipated outputs are in accord with Administration policy. The reconnaissance phase is scheduled to be completed in (Month xxxx), which is (12 or less) months after initiating the study. It is acceptable to budget for reconnaissance studies that exceed \$100,000. The Justification sheet should state the date of CECW-P or RIT approval if it shows a cost above \$100K or a schedule beyond 12 months.

Cite study authority. (In the event that sufficient study authority is not available to accomplish study purpose it should be so noted and a request for appropriate authority must be in progress.)

ILLUSTRATION A-2.2 COST-SHARED FEASIBILITY STUDY

. . .

APPROPRIATION TITLE: Investigations, Fisca	I Year (PY)			Div	rision:		
	Tota	al Allocatio	n			Tentative Additiona	al
Study	Estim Federal Co	nated ost	Prior to Allocation FY (PY-3) FY (PY-3)	Allocation Allo FY (PY-2) FY	cation Allocation (PY-1) (PY)	to Complete After FY (PY)	
•	5	\$ \$	\$	\$	` \$	\$ ` ´	\$
ABCD River & Tributaries, Nothing Wash EFG District	1,200,000	170,000	150,000	200,000 130	0,000 200,000	350,000	

Furnish a brief description of the study area, water resource development problems, and principle purposes of the study. For example, for flood damage prevention studies any information available on recent flood history (dates, physical and dollar losses, etc), or for navigation studies include information on use (commercial vs. recreation) cargo types and quantities if known. For ecosystem restoration studies address the approximate area to be restored to the extent this is known. For all purposes, address the performance criteria for the purpose as described in Appendices I-VIII. For ecosystem restoration studies do not enter the performance component scores, instead provide data reflecting the basis for the scores. Do not include irrelevant data such as "mild summers or harsh winters"; do include all the data that would tell why this study should be selected out of the many recommended. Also cite any matters known to be of concern to the Congress. Describe briefly the general scope and key areas of concern that were or are being addressed in the reconnaissance study, probable solutions, and the work to be performed in the Program year. This paragraph should present specific arguments and evidence that it is important to fund the study in the Program year and similar evidence that makes it clear that the study and its anticipated outputs are in accord with Administration policy. Provide best available sponsor information. (Name of potential or actual sponsor, dates of verbal or written commitments, scheduled or actual FCSA signing.)

Fiscal Year (PY-1) funds are being used to fully fund the reconnaissance phase at full Federal expense. If the reconnaissance report is certified to be in accord with policy, the funds requested for Fiscal Year (PY) will be used to continue into the feasibility phase of the study. The preliminary estimated cost of the feasibility phase is \$2,200,000, which is to be shared on a 50-50 percent basis by Federal and non-Federal interests. A summary of study cost sharing is as follows:

Total Estimated Study Cost	\$2,400,000
Reconnaissance Phase (Federal)	100,000
Feasibility Phase (Federal)	1,100,000
Feasibility Phase (Non-Federal)	1.100.000

The reconnaissance phase is scheduled for completion in September (Month and Year) (Date of signing of FCSA). The feasibility study is scheduled for completion in September (Month and Year) (Date of Division Engineer's Transmittal Letter).

Division:

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ILLUSTRATION A-2.3 FULL FEDERAL EXPENSE FEASIBILITY STUDY

APPROPRIATION TITLE: Investigations, Fiscal Year (PY)

	Total Allo	ocation		Tentative Additional	.I
Study	Estimated Federal Cost	Prior to Allocation FY (PY-3) FY (PY-3)	Allocation Allocation Allocation FY (PY-2) FY (PY-1) (PY)	to Complete After FY (PY)	
•	\$	\$ \$	\$	\$	\$
XYX River Basin EFG District	750,000 100	0,000 100,000	200,000 100,000 200,000	50,000	

This paragraph should describe the study area, the navigation problems and potential solutions. Results of the study to date should be covered as well as information that conveys to the reviewer (Corps, Army, OMB, or Congress) that the study and its anticipated outputs are in accord with Administration priorities.

This paragraph is to be used to describe the activities to be undertaken during the PY-1. The activities pertaining to each interim are to be clearly described.

This third paragraph is to be used to describe the activities to be undertaken in the PY.

This final paragraph will set forth the schedule for the study including completion dates (month and year) (date of Division Engineer's Transmittal Letter for each interim and the overall study.

ILLUSTRATION A-2.4 PRECONSTRUCTION ENGINEERING AND DESIGN

APPROPRIATION TITLE: Investigations, Fisc	al Year (PY)			Division:		
Study	Total Estimate Federal Cost \$		Prior to Allocation	Allocation Allocation Allocation t FY (PY-2) FY (PY-1) (PY) \$	Tentative Additiona to Complete After FY (PY) \$	al :
PRECONSTRUCTION ENGINEERING AND I	DESIGN (PED) ACTIVITIES	5 – (Type)				
XYX River Basin EFG District	1,100,000	300,000	150,000	200,000 150,000 300,000	0	

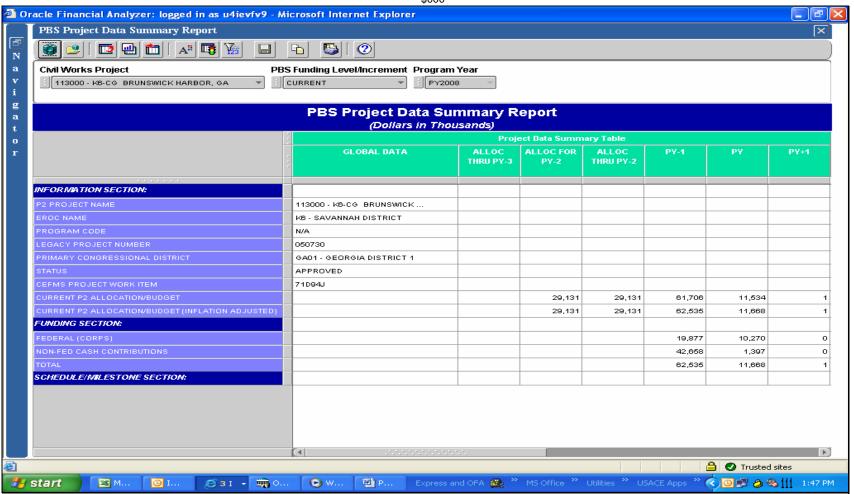
This is an example of the type of project description data to provide. For an ecosystem restoration project include area to be restored in acres, types of habitat, expected outputs and the data supporting the scores assigned for the performance components. Do not include the scores.

XWV River drains an area of about 2,114 square miles in southwest State and empties into Something Harbor. The XYZ flood plain encompasses about 1,560 acres of mostly urban development on the left bank of the XWV River. The maximum flood of record, that of December 1933, would have caused an estimated \$13.4 million damages to XYZ River under October (PY-1) prices and conditions of development. A feasibility report was completed in FY 1996. The recommended project, estimated to cost \$xx.x million with an estimated Federal cost of \$xx.xx million and an estimated non-Federal cost of \$xx.xx million, includes construction of a levee system to provide flood protection to 1,318 acres in XYZ. Pumping stations and gravity outlets with tide gates would be included to accommodate interior drainage. The average annual benefits amount to \$2.7 million, all for flood control. The benefit-cost ratio is 1.2 to 1 based upon the latest economic analysis dated (Month Year). Identify project sponsor and set forth latest evidence of support. (Sponsor's must assure that they understand and are ready to sign a design agreement and have funds available to finance the PED portion of the design of a project.) PED will ultimately be cost shared at the rate for the project to be constructed but will be financed through the PED period at 25% non-Federal. Any adjustments that may be necessary to bring the non-Federal contribution in line with the project cost sharing will be accomplished in the first year of construction.

Total Estimated Preconstruction		Total Estimated Preconstruction	
Engineering and Design Costs	\$1,333,000	Engineering and Design Costs	\$1,333,000
Initial Federal Share	1,000,000	Ultimate Federal Share xxx,000	
Initial Non-Federal Share	333,000	Ultimate Non-Federal Share	xxx,000

The project is authorized for construction by (Cite the construction authorization and cost sharing requirements). Fiscal Year (PY-1) funds are being utilized to continue work on the Feature Design Memorandum, including economic studies. Fiscal Year (PY) funds will be used for completion of PED in (Month and Year).

ILLUSTRATION A-2.5 PROJECT DATA SUMMARY \$000



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SUB-ANNEX A-3 CECW PROGRAMMED ITEMS

A-3.1. Program Procedure.

- a. The activities covered by this subannex are programmed by CECW. You should assume your allowances will remain at or about the same level as PY-2 through PY+9 in preparing programming documents for the fifteen activities requiring Division response.
- b. If a division is experiencing conditions that would materially affect its requirements for the activities covered, the Division Commander should submit a brief letter to HQUSACE, CECW-I outlining the changed conditions.
- c. Note that there are three accounts that are similar, in that they provide the ability to respond to other entities without being either agency or project/study specific, but that serve different functions. They are Special Investigations, Interagency Water Resources Development, and Coordination with Other Water Resources Agencies. Special Investigations is for limited scope investigations, not for coordination. Interagency Water Resources Development is for coordination with others on problems that may lead to specific studies such as cost sharing or applicability of Corps programs to water resources problems. The Coordination with Other Water Resources Agencies account is for coordination with Planning Commissions, other Federal Water Resources Agencies or other entities which serve that function, on regional problems of a general nature not related to a programmed study or specific potential study. Some requests for assistance will not fit clearly into one of these three accounts, but you should be sure that, to the extent possible, such activities are programmed in the appropriate account and that activities in the three accounts are not duplicative.
- **A-3.2. Submission Requirements**. Provide a breakdown by District for each activity listed in paragraph A-3.1, for PY-1 and PY in the format of Illustration A-3.1. The information should provide a base to develop allowances for varying program levels.

A-3.3. Special Investigations.

- a. **Program Objective.** This category is for investigations of limited scope, in replying to requests from sources outside the Corps of Engineers, for information relating to unauthorized projects and other activities which have no funds, and which are not accomplished with a view toward determining whether a project can be developed. Also included is work specifically authorized by the Chief of Engineers; the review of reports and Environmental Impact Statements requested by other agencies, unless otherwise provided for; and attendance at meetings of local interests and other agencies during the preliminary stages of project investigations.
- (1) The program objective specifically includes The Gulf of Mexico Program, which is an interagency effort for resolving complex environmental problems associated with man's use of the Gulf of Mexico. This program is limited to divisions and subordinate districts bordering on the Gulf of Mexico.
- (2) The program objective specifically includes the Pacific Northwest Forest Case Study, which is an interagency program initiated by the White House's Council on Environmental Quality for ecosystem management of the public lands within the range of the Northern Spotted Owl.

- (3) The program objective specifically includes the Chesapeake Bay program, which is an interagency program initiated by the U.S. Environmental Protection Agency, for the protection and restoration of the bay's natural resources. Work which requires Section 510 of the Water Resources Development Act of 1996 authorization is subject to the cost sharing of that authorization.
- b. **Narrative Paragraph Submission.** A narrative paragraph should be submitted which describes specific investigations, studies, or tasks accomplished under this activity for the PY-3 and PY-2 to date in the format of Illustration A-3.2.

A-3.4. FERC Licensing Activities.

- a. **Program Objective.** The objective of the Federal Energy Regulatory Commission licensing activities is to provide timely review of FERC license and permit applications consistent with regional and national priorities. Review is accomplished on a first come-first served basis.
- b. **Eligibility.** License or permit applications are eligible for consideration if they are for new or existing non-Corps operated facilities. Review of license and permit applications which could have an effect on ongoing projects under construction or being operated by the Corps should be accomplished with available project funds.
- **A-3.5.** Interagency Water Resources Development. The interagency water resources development program is for Corps of Engineers districts activities, not otherwise funded, that require coordination effort with non-Federal interests. These activities include such things as meeting with City, County and state officials to help them solve water resources problems when they have sought advice or to determine whether or not Corps programs are available and should be used to address the problems. The funds would also be used to cover costs of meeting with potential study sponsors prior to programming for study to insure they fully understand study cost sharing and to obtain an indication of their interest in participating in a future study. Funding for American Heritage River Navigators is included in this category and requirements for this effort should be separately noted and justified.
- A-3.6. National Estuary Program (NEP). The NEP is an interagency planning program to develop management plans for nationally significant estuaries designated by EPA. To date, the following 28 estuaries have been designated under the program: Columbia River, WA & OR; Mobile Bay, AL; Morro Bay, CA; Charlotte Harbor, FL; Maryland Coastal Bays, MD; New Hampshire Estuaries, NH; Barnegat Bay, NJ; Puget Sound, WA; Delaware Bay, DE; Delaware Inland Bays, DE; New York/New Jersey Harbor, NY-NJ; Sarasota Bay, FL; Santa Monica Bay, CA; San Francisco Bay, CA; Galveston Bay, TX; Albemarle/Pamlico Sound, NC; Buzzards Bay, MA; Narragansett Bay, RI; Long Island Sound, CT-NY; Peconic Bay, NY; Massachusetts Bay, MA; Barataria/Terrebonne Bay, LA; and Indian River Lagoon, FL. Because of extensive Corps involvement with Federal water resources projects in the nation's estuaries and other responsibilities in waters of the U.S., the Corps has been asked to participate on the management and technical advisory committees of those NEP estuaries being studied. The requested funds will be used to cover costs of Corps field office meeting attendance, field reconnaissance, and data transfer.
- **A-3.7. North American Waterfowl Management Program (NAWMP).** The NAWMP is an international program designed to reverse downward trends in North America's waterfowl populations by protecting and improving waterfowl habitats nationwide, particularly in 34 areas

within the United States identified as being critical to meeting NAWMP goals and objectives. Department of the Army support to the NAWMP is set forth in an agreement signed with the Department of the Interior on January 23, 1989. The Corps of Engineers has broad water resources development responsibilities and authorities, and has stewardship responsibilities for over seven million acres of water and land. Many Corps of Engineers projects contribute directly or indirectly to the habitat base for the nation's waterfowl and other wetland species. The requested funds will be used to cover costs of Corps of Engineers field office participation in field trips, interagency coordination meetings, and information transfer in response to conditions set forth in the agreement between the Department of the Interior and the Department of the Army.

A-3.8. Interagency and International Support.

- a. **Program Objective.** Authorized by Section 234 of the Water Resources Development Act of 1996, this program is for activities in support of other Federal agencies or international organizations to address problems of national significance to the United States.
- b. **Submission Requirements.** An illustration A-3.6 titled Interagency and International Support is required. Illustration A-3.6 is an information display with supporting narrative in the format of Illustration A-3.4. The narrative should identify the work that would be pursued with the requested fund.
- **A-3.9. Coordination with Other Water Resources Agencies** (including Department of Agriculture, Natural Resources Conservation Service; Department of Interior, Bureau of Reclamation; and Regional Planning Commissions and Committees Programs).
- a. **Program Objective.** The objective of this program is to provide coordination with these agencies on water resources issues and problem areas of mutual concern that are general in nature and not part of a programmed project or study.
- b. **CalFed.** The program objective specifically includes the CALFED Bay-Delta Program solution process for the development of a long -term comprehensive plan that will restore ecological health and improve water management for beneficial uses of the Bay-Delta system.
- c. Lake Tahoe Federal Interagency Partnership. The program objective includes Corps participation in the partnership with other Federal Agencies, in accordance with Executive Order 13057 "Federal Actions in the Lake Tahoe Region", to insure cooperation, support and synergy.

A-3.10. Planning Assistance to States.

a. **Program Objective.** The Planning Assistance to States program is carried out in accordance with the provisions of Sec. 22, PL 93-251. This public law authorizes the Chief of Engineers to cooperate with States (Commonwealths, Territories, etc.) and Indian tribes in the preparation of plans for the development, utilization, and conservation of water and related land resources of drainage basins located within the boundaries of the state. Assistance is provided on the basis of State or tribe requests. When a state or tribe is served by more than one division, the Lead Division assigned in Table 2-5, ER 1105-2-100, has the responsibility for providing data on work requested by that state or tribe. The Lead Division may further delegate that responsibility to a Coordinating District, but that Coordinating District is responsible for coordinating not only with the State or tribe, but also with the other Districts doing work for that State or tribe.

b. **Submission Requirements.** Planning assistance is coordinated and scheduled to ensure the continuation and completion of ongoing work and the timely initiation of new work requested by the States and tribes. Lead Division offices should provide a prioritized listing of all work for states and tribes under their responsibility in the format of Illustration A-3.3.

A-3.11. International Waters Studies.

- a. **Program Objective.** This program contributes to better control, utilization, and orderly development of jointly controlled water resources along the U.S. Canadian boundary. It encompasses four boards and one committee established by the International Joint Commission (IJC) and in response to other U.S./Canadian cooperative efforts. IJC boards fall into two broad categories: boards of control, which are essentially permanent; and engineering or advisory boards, which are usually dissolved after completing their investigation.
- b. **Eligibility.** Activities within the scope of authority of an appropriate Board or committee are eligible for funding.
- c. **Submission Requirements.** An information display and supporting narrative as shown in Illustration A-3.4 is required.

A-3.12. Flood Plain Management Services (FPMS).

- a. **Program Objective.** The Corps is authorized by Section 206 of the 1960 Flood Control Act, as amended, to provide information, technical assistance, and guidance, in identifying the magnitude of the flood hazard and for planning wise use of the flood plain. Direct response and assistance are provided through the FPMS program to states, Indian tribes and local governments without charge and to Federal agencies and private persons on a cost reimbursable basis.
- b. **Submission Requirements.** An information table as shown in Illustration A-3.5 is required. FPMS funding requirements are to be shown for (1) District FPMS Units, (2) Quick Responses taking 10 minutes or less and provided without charge, (3) Technical Services, and (4) Special studies. An estimated cumulative number of responses to requests will be shown for Quick Responses and Technical Services. Submit two versions of Illustration A-3.5; one for the PY-2 amount and another based on capability to meet demand from state, tribal and local governments. The funding requirements for Quick Responses should not exceed two percent of the PY-2 work allowance amount. Hurricane Evacuation Study (HES) funding will be retained by HQUSACE for allotment at a later date. Full reimbursement should be required for assistance to Federal agencies and private persons. Information provided for Illustration A-3.5 should exclude all requirements for HES and for assistance to Federal agencies and private persons.

A-3.13. Hydrologic Studies.

- a. **Program Objectives.** To collect and analyze basic data on hydrologic, climatologic, and river morphology for general use in connection with the Corps planning design, construction, and operation of water resource projects.
- b. **Submission Requirements.** Provide a breakdown by District in the format of illustration A-3.1. Note that all activities in this class (260) should be defined and reported as follows:

- (1) **261, Storm Studies.** Includes Part I and II storm studies accomplished in coordination with National Weather Service.
- (2) **262, General Hydrologic Studies.** Includes generalized hydrologic analyses of rainfall runoff relationship, flood frequency, snowmelt studies, hydrograph development and routing at selected watersheds, model calibrations in urban areas, and analyses of past floods and other studies of hydrologic nature.
- (3) **263, Sedimentation Studies.** Includes all non-project sedimentation investigation activities at the Waterways Experiment Station.
- (4) **264, Streamflow and Rainfall Data Collection.** This continuing program provides for installation and operation of streamflow and rainfall gages for general studies. It also provides for flood investigation activities such as investigation of hurricane surges; high water mark setting, measurement, and recordings; and rainfall bucket surveys.
- **A-3.14. National & International Water Resources Coordination.** The national and international water resources coordination program is for Corps of Engineers activities, not otherwise funded, that require coordination effort with other agencies and governments. These activities include such things as meeting with officials to develop collaborative exchanges in complementary areas such as navigation, flood protection, coastal development, dredging and river basin management. The funds would be used to cover costs of meetings and to conduct workshops on water resource trends and decision points between the Corps and other organizations or governments. The Corps of Engineers signed a Memorandum of Agreement with the Dutch Rijkswaterstaat in May 2004 and this program would fund costs associated with sharing experiences between the two nations.

ILLUSTRATION A-3.1 DISTRICT BREAKDOWN (Code 901-171,172,173,175,176,177,178,181,186,240,250,260) (\$K)

Division:
Tentative Allowance Total DISTA DISTB DISTC etc.
PY-1 PY
SPECIAL INVESTIGATIONS AND) GULF OF MEXICO PROGRAM
AND) PACIFIC NORTHWEST FOREST CASE STUDY
AND) CHESAPEAKE BAY PROGRAM AND)
FERC LICENSING AND) NTERAGENCY WATER RESOURCES DEVELOPMENT
AND) AMERICAN HERITAGE RIVER NAVIGATORS
AND) NATIONAL ESTUARY AND)
NORTH AMERICAN WATERFOWL MANAGEMENT

ILLUSTRATION A-3.1 (Continued) DISTRICT BREAKDOWN (Code 901-171,172,173,175,176,177,181,186,240,250,260) (\$K)

Division: Tentative Allowance Total DIST.-A DIST.-B DIST.-C etc. PY-1 PΥ (AND) INTERAGENCY AND INTERNATIONAL SUPPORT COORDINATION WITH OTHER WATER RESOURCES AGENCIES (AND) CALFED (AND) LAKÉ TAHOE FEDERAL INTERAGENCY PARTNERSHIP (AND) PLANNING ASSISTANCE TO STATES (AND) **INTERNATIONAL WATER STUDIES** (AND) FLOOD PLAIN MANAGEMENT SERVICES HYDROLOGIC STUDIES **SUBCLASS** PY-1 PΥ

ILLUSTRATION A-3.2 WORK ACCOMPLISHED (Code 901-171)

Division:	

SPECIAL INVESTIGATIONS

DISTRICT	NARRATIVE DESCRIPTION
A	PY-3:
A	PY-2:
B	PY-3:
B	PY-2:
etc.	

ILLUSTRATION A-3.3 PLANNING ASSISTANCE TO STATES

(Code 901-186)
Priority Listing
Fiscal Year_____

Lead Division:				
Work Item Name	State	State Priority	Performing Office	Amount (\$000)
1/			2/	

^{1/} List work items in order of decreasing priority as established by the Lead Division.

^{2/} Priority as indicated by the State.

Division:

or committee. Include the associated program request for each board.

ILLUSTRATION A-3.4 INTERNATIONAL WATERS STUDIES (Code 901-240)

Justification:	Furnish a brief description	n of the Division/Distric	cts activities and p	otential accompl	ishments relating	to the functions o	f each board

ILLUSTRATION A-3.5 FLOOD PLAIN MANAGEMENT SERVICES (Code 901-250)

Division:		
Work Item	Amount (\$000)	Total # Responses/Studies
District FPMS Units	N/A	
Quick Responses	(5% Max.)	(# of responses)
Technical Services		(# of responses)
Special Studies		(# of studies)

ANNEX B CONSTRUCTION AND FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES TABLE OF CONTENTS

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SUB-ANNEX B-1 CONSTRUCTION AND FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES APPLICABILITY (RCS CECW-B 13)

B-1.1. **Appropriation Title.** This annex provides guidance for preparation of the ten year request (PY through PY+9) for all new and continuing activities funded under the Construction (C) appropriation, including the Inland Waterways Trust Fund (IWTF) and Harbor Maintenance Trust Fund (HMTF), as applicable, and Flood Control, Mississippi River and Tributaries. Unless stated otherwise, any reference to the C (or I) appropriation applies to IWTF, HMTF and FC_MR&T as well as C (or I).

SUB-ANNEX B-2 CONSTRUCTION - NEW AND CONTINUING

B-2.1. **Objective.** This subannex applies to previously unfunded and continuing construction projects, replacement projects, dam safety assurance projects, deficiency correction projects, and reimbursement projects, resumptions, and separable elements of ongoing projects funded under the C appropriation. The overall goal is to develop a 5 to 10 year construction program (PY through PY+9) consisting of projects that are cost effective, performance based (using the performance measures located in Appendices I-VIII) and complete as quickly as practicable within program constraints and consistent with current national priorities. We will adhere to Army policy and the guidance provided in the main part of the EC. Program requests should be submitted for all available new construction projects and separable elements which meet the basic eligibility criteria in Table B-2.1 and all policy compliant continuing projects and programs. These projects and separable elements will be ranked by business line managers using the performance measures and criteria found in Appendices I-VIII. Capability funding is discussed in section B 2.10.

B-2.2. Preconstruction Engineering and Design (PED)

- a. As addressed in the Investigations Annex, PED will be carried out after the feasibility phase under a design agreement until execution of the applicable PCA. The design agreement will provide for concurrent financing of design at 75 percent Federal and 25 percent non-Federal. Upon PCA execution, design costs will be folded into total project costs and Federal/non-Federal shares will be brought into balance according to applicable cost sharing provisions of the PCA. A design agreement is not required for the following:
 - (1) inland waterway project;
- (2) dam safety assurance, seepage correction, or static instability correction project; replacement project;
 - (3) deficiency correction at a Federally operated project; or
- (4) project or separable element for which the non-Federally financed portion of pre-PCA engineering and design costs alone would exceed the total non-Federal cash share for the project or element, the non-Federal share is reduced under ability to pay rules, pre-PCA engineering and design costs are less than \$100,000, or pre-PCA engineering and design was initiated before FY 1997.
- b. **Budgeting**. All post-feasibility, pre-PCA engineering and design activities for policy compliant projects and separable elements will be budgeted as PED in the Investigations account or the I sub-

account of the MR&T account. However, post-feasibility, pre-PCA engineering and design may be budgeted as construction in the Construction account if the applicable project or element 1) is authorized, 2) is supported by the Administration for construction, and 3) either is budgeted as new construction or has received construction appropriations. No unauthorized work will be budgeted in the C account, except in the cases of complex projects or programs that have elements in various stages of development and for which the Administration explicitly supports budgeting for the entire project or program in the C account. If a newly authorized separable element was not included in the original review to develop the Administration's position on the original project, a review for the newly authorized separable element must be undertaken before the newly authorized separable element can be budgeted in the C account.

- c. **Post-Feasibility Modifications**. Once the feasibility report has been completed for a project, additional engineering and design, economic and environmental analyses, and evaluations often result in the identification of potential project modifications. Each potential modification that is identified (whether during PED or construction) should be subjected to a reconnaissance-level examination to determine whether the modification so changes or would change project scope or functions, beyond the scope and functions described in the completed feasibility report, that it required or would require additional authorization.
- (1) Examination and documentation of a simple cost increase without a change in scope or functions may be undertaken as part of PED or construction. If additional authorization is required as a consequence of the simple cost increase, a Post-Authorization Change Report should be prepared.
- (2) Examination and documentation of design changes that would not require additional authorization may be undertaken as part of PED or construction. However, if such design changes are material changes to the basic project features or output levels and the original project already is covered by a PCA, design of the material changes should be undertaken under a design agreement, and construction of the material changes should not be commenced until the PCA has been amended to reference an approved decision document that incorporates the material changes.
- (3) A modification that required or would require additional authorization, and that extends, expands, or adds functions to the original project described in the completed feasibility report, is beyond the scope of the original project. If such an added function is physically integral to the original project, the modification will be treated as a substitute plan and, if the substitute plan is pursued, work on the original project will be suspended, then concluded in an orderly manner. An extension, expansion, or physically separable added function will be treated as a new project if it is unauthorized or is separately authorized, or it will be treated as a newly authorized separable element if it is authorized as a modification to the original project. Following the reconnaissance-level examination, the substitute plan, new project, or newly authorized separable element will be developed in accordance with the standard project development process, beginning with its own feasibility study.
- (4) The development of a new project (including a substitute plan) or a new separable element will not be undertaken as a "reevaluation" of the original project, and will not be funded as part of engineering and design or construction of the original project. However, once the feasibility report for a newly authorized separable element has been completed, the newly authorized separable element may be included in PED for the project along with other separable elements, and may be included in construction of the modified project if the new separable element is authorized and has received construction funds.

B-2.3. New Construction.

a. New construction includes the following:

- previously unfunded projects;
- previously unfunded separable elements of ongoing projects;
- resumptions of physical construction;
- previously unfunded replacement projects;
- previously unfunded deficiency correction projects

Note that reconstruction projects require specific authorization and are developed in the same manner as other projects. Also note that previously unfunded recreation facilities and previously unfunded increments of reimbursement projects that are not covered under existing PCAs are treated as previously unfunded separable elements. All new construction candidates must undergo the critical review and meet the requirements outlined in the sub-paragraphs that follow.

- b. New construction candidates should be:
- justified based on National Economic Development (NED) and/or National Environmental Restoration (NER) benefits
- are ready for the initiation of physical construction in the PY
- have approved M-CACES baseline cost estimates
- are strongly supported by non-Federal sponsors.

Potential new construction candidates should compare favorably to the nine eligibility criteria shown in Table B-2.1.and ranking criteria and performance measures shown in Appendices I-VIII. High performing candidates may be recommended as new construction.

c. Each recommended new construction candidate requires submission of a decision document to serve as the basis for selection and (with the exception of inland waterway projects, most replacement and certain other projects) will require a PCA. The requirement for a decision document can be satisfied by an:

approved feasibility report with engineering annex General Reevaluation Report (GRR), or, in some cases, a Post-Authorization Change Report (PAC).

In negotiating the terms of the PCA, no commitments relating to a construction schedule or follow-on funding can be made to the non-Federal sponsor until after the economic analysis, if applicable, and the EDR or feasibility report with engineering annex has been approved by the MSC or HQUSACE, as applicable, the planning and policy review process has been completed by ASA(CW), the project or element has been authorized and funded, and the draft PCA has been approved by ASA(CW) (unless specifically delegated to the MSC Commander). The PCA will be executed between the non-Federal sponsor and ASA(CW) or District Commander (if delegated) prior to advertisement of the initial construction contract for the project or element.

Note: A Limited Reevaluation Report (LRR) is for updating and documenting changes to the project within the scope of a decision document and is not itself a decision document

d. A current economic analysis for each new construction candidate must be approved not earlier than 3 fiscal years prior to the fiscal year of the submission of the program request to HQUSACE CECW-I. For example, a FY 2009 (PY) initial new construction program request made in June 2007 (PY-2) must have an economic analysis contained in an official report approved not earlier than October 2003 (PY-6). This analysis will be included in an approved decision document, as described in paragraph B-2.3, or in a supplemental report such as an Engineering Documentation Report (EDR), Limited Reevaluation Report,

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Post Authorization Change Report (PAC), or other special study report which must be approved at the appropriate level. A Design Documentation Report (DDR) is a technical document approved by a District and should not include information such as formulation of alternatives or economic analyses. After construction funds have been appropriated for such work, no further update of the economic analysis will be required during the approval process for the non-Federal sponsor's financing plan and execution of the PCA provided the PCA is approved in the PY and no significant changes which may affect economic justification have been made from the latest approved document. The same current economic analysis requirements for PCA projects apply to non-PCA projects, such as inland navigation and replacement projects, for obtaining approval to initiate construction. For older projects, and projects under continuing construction where significant changes have occurred following initiation of construction, an economic update should be performed in PY-2 for both total costs and benefits, and remaining costs and benefits to be used in continuing budget decisions.

- e. Illustration B-2.1, Project Data Summary (aka "Grunt sheets") should be developed for new projects planned for initiation of construction in the PY thru PY+9 period. The objective is to display an orderly flow of high performing, urgently needed and locally supported projects or separable elements that are in accord with current policies and priorities. Of course, the first half of the period should be consistent with the annual FYDP as well. Grunt sheets should also be prepared for:
- each dam safety assurance project or seepage or static instability correction project that they expect to "migrate" from the Dam Safety and Seepage/Static Instability Correction Program during the period PY through PY+9.
 - each unprogrammed separable element which has not been reclassified to the inactive category.

Do not prepare Illustration B-2.1 reflecting initiation of work by sponsors prior to receipt of Federal funds. The projects programmed for construction in PY through PY+9 must be based on the cost estimates and schedules established for programmed studies and PED projects, as applicable. Initiation of construction should be scheduled no sooner than the fiscal year following completion of PED.

B-2.4. Replacement, Design and Construction Deficiency Correction

- a. Initial C funds, IWTF, and HMTF, as applicable, will be programmed for replacement and deficiency correction projects after applicable reconnaissance or evaluation reports have been approved by HQUSACE or MSC (under delegated authority) and coordinated with ASA(CW), as applicable, and once they meet the preliminary selection criteria in Table 2.1 Replacement and deficiency correction at operating navigation projects will undergo a critical review and selection process in accordance with the criteria listed below. Reconnaissance or evaluation reports and planning, engineering, and design for replacement and deficiency correction projects will be funded from Operation (O&M) funds allocated for project operation and maintenance or inspection of completed works, as applicable, until C funds, are provided. However, no post-evaluation planning, engineering, and design for replacement and deficiency correction shall be funded until a reconnaissance or evaluation report has been approved.
- (1) Replacement projects are greater in scope. A replacement involves the principal facility component that enables production of project output e.g. replacement of turbines and generators at hydropower plants, replacement of failing lock, recapitalizing or upgrading facilities.
- (2) Rehabilitation projects are defined in Section 205 of WRDA 92 "with respect to inland waterway projects, as economically justified, structural restoration of major project features that extends project life more than 2 years, or structural modifications that enhance operational efficiency, and that exceed certain cost thresholds. Continued maintenance may be viewed as the alternative to rehabilitation, and so rehabilitations should compete against maintenance. Also, since rehabilitations are not as large as

replacements they can be programmed more easily in the Operation and Maintenance account".

b. New Design and Construction Deficiency Correction Projects.

- (1) For non-federally operated and maintained projects funds will be appropriated from the Construction account.
- (2) The project must have a reconnaissance report for approval at HQ by 1 June of PY-2 or approved by 1 August of PY-2.
 - (3) The proposed work must require no additional Congressional authorization.
- c. Dredged Material Disposal Facility Projects at Operating Navigation Projects will be considered under the O&M program.

B-2.5. Dam Safety Assurance and Seepage/Stability Correction Program.

a. Dam Safety Modification Evaluation Reports for Dam Safety Assurance and Seepage/Stability Correction Program projects shall be funded under the C Dam Safety Assurance and Seepage/Stability Correction Program ("Wedge") line item. These will be studies of projects where routine (O&M funded) preliminary evaluations have found an indication of a deficiency exists that will require a decision to modify the dam to reduce risks for safe operations. Operating Projects identified as Dam Safety Action Class (DSAC) I and II (see Table B-1) projects will be prioritized for FY09 Evaluation Report funding under the business line that represents the primary purpose for the Operating Project. DSAC I and II projects shall continue high priority C funding over multiple budget years, until the resultant Evaluation Report is approved by the Corps Dam Safety Officer or his designee. HQUSACE will determine funding levels for each Modification Report and justify them within the C "Wedge" account. Projects identified as DSAC III thru IV will be not be funded for Modification Reports until future budget years, following accomplishment of the Modification Reports for the DSAC I and II projects." The Dam Safety Action Classifications (DSAC) is defined as follows:

	Table B-1 - Dam Safety Action Classifications (DSAC)			
DSAC Class Code	Definition of Classification			
1	Dams considered being critically near failure and for which urgent actions are needed to avoid catastrophe in the near-term.			
2	Dams not critically near failure, but for which progressive failure could be initiated, or for which failure could occur, given the occurrence of a reasonably foreseeable triggering event that has a moderate chance of occurrence prior to remediation			
Dams that have not been tested by design loads, have suspected defice for which failure could occur under rare loading conditions.				
4	Dams that are not declared safe because they don't meet current guidelines, but which are not considered unsafe enough to warrant heightened attention and for which remediation is considered to be quite low priority, although investigations to confirm their DSAC classification should be given normal priority.			
5	Dams that are determined to be safe.			

- b. The project must have an evaluation report, including a base safety standard analysis, approved by the MSC Dam Safety Officer or HQUSACE CECW-CE, or at the MSC or HQUSACE CECW-CE for approval, as applicable, by 1 June of the PY-2 with approval expected by 1 August of the PY-2 to be considered for inclusion in the PY program as a continuing project. The report with the letter of approval must reach the Corps Dam Safety Office by 15 August of the PY-2.
- c. The preparation of an evaluation report for Dam Safety Assurance and Seepage/Stability Correction Program projects will be funded by the C Dam Safety and Seepage/Stability Correction Program line item, in accordance with the Corps Portfolio Risk Analysis and recommendations of the Senior Oversight Group.
 - d. The proposed work must require no additional Congressional authorization.
- e. Initial preconstruction activities and initial construction work for dam safety assurance projects or stability correction projects will be funded under the C Dam Safety Assurance and Seepage/Stability Correction Program after approval of an appropriate report.
- f. Work following approval of the evaluation report for a dam safety assurance project will be programmed and funded under the C Dam Safety Assurance and Seepage/Stability Correction Program until the ASA(CW) has concurred in construction of the project. Thereafter, the project may be programmed as a continuing, specifically funded project and construction may be initiated. If the ASA(CW) has concurred in construction and the project is ready to initiate construction, but the project is still being funded in the C Dam Safety Assurance and Seepage/Stability Correction Program, construction could be funded with Wedge" funds until project line item funding becomes available.
- g. Projects for Dam Safety Assurance and Seepage/Stability Correction Program work may be in any of the major business lines.

B-2.6. Separable Elements of Ongoing Construction Projects and Resumptions.

- a. A separable element is a portion of a project which is physically separable from other portions of the project, and which achieves hydrologic effects or produces physical or economic benefits which are separately identifiable from those produced by other portions of the project. Construction of a separable element requires a new PCA. Where a separable element is to be constructed and the parent project already has an executed PCA, an amendment to that PCA may be more appropriate if the separable element and parent project will be undertaken concurrently and with the same project sponsor. If an investment increment is part of an authorized project, but is useful separately from other features of the authorized project and is not covered under the already-executed PCA or PCAs for the other features, that increment will be treated as a separable element. Examples include recreation features not covered under an existing cost sharing PCA, and reimbursable work that is beyond the scope of the work covered under the existing reimbursement PCA.. Investment increments that are not authorized are not separable elements of an authorized project and should be pursued as an unauthorized project in the Investigations appropriation account.
- b. Previously unfunded separable elements that are not economically justified or do not have ecosystem restoration benefits sufficient for justification at the current discount rate, excluding recreation benefits and costs, must not be programmed for planning, engineering and design or construction. Planning, engineering and design and construction for separable elements that are justified at the current discount rate excluding recreation benefits and costs may be programmed in the period PY through PY+9.

However, information required for PY new construction candidates must be submitted for such separable elements for the PY in which they are programmed to initiate construction. New separable elements, both programmed and unprogrammed, as applicable, must reflect the cost sharing and financing concepts in the Water Resources Development Acts of 1986, as amended.

- c. Although funds for separable elements of ongoing construction projects are not programmed on an individual basis and are included as part of the program requests for their parent projects, each active uncompleted separable element, whether programmed or unprogrammed, must be shown individually.
- d. Resumptions of physical construction are projects and separable elements that have been funded in the past and have initiated physical construction, but that have not been in physical construction since PY-4, except for:
- projects for which the resumption of physical construction was included in the President's budget for PY-1
- projects with natural pauses, such as for levee lifts or monitoring stages. Continuing planning, engineering, and design of resumptions may be programmed in the PY, but resumption of physical construction requires a new budget decision
- e. Economic and environmental analyses supporting PY funding requests for planning, engineering and design for previously unfunded separable elements and resumptions should be presented as follows:

Costs should be updated to current price levels. Benefits should be those reported in the latest approved evaluation, e.g., EDR or reevaluation report, and must not be price indexed in any case except for specific benefit categories such as roads, bridges, and rail lines provided that these benefits do not constitute a major portion of overall benefits. The total BCR at the applicable and current discount rates will be computed in the following manner: deflate the updated project cost to the price level of the latest approved detailed economic evaluation using adjustments for price level changes experienced in the interim period. The CWCCIS and ENR indices are both acceptable for use in deflating project costs. Next, annualize the deflated project cost at each discount rate and divide the costs into the benefits which also must be annualized at each discount rate. Economic analyses supporting PY funding requests for new construction of separable elements and resumptions must be contained in an official report approved in or more recently than PY-5. In no case should the benefits be price indexed except for specific benefit categories such as roads, bridges, and rail lines provided that these benefits do not constitute a major portion of overall benefits. After a decision has been made by the Director of Civil Works and ASA(CW) to include a separable element or resumption in the PY program and construction funds have been appropriated for such work, no further update of the economic analysis will be required during the approval process for the non-Federal sponsor's financing plan and execution of the PCA provided the PCA is approved in the PY and no significant changes which may effect economic or environmental justification have been made from the latest approved document. For older projects, and projects under continuing construction where significant changes have occurred following initiation of construction, an economic update should be performed in PY-2 for both total costs and benefits, and remaining costs and benefits to be used in continuing budget decisions.

B-2.7. **Recreation Facilities.** In accordance with the current policy on Federal funding of recreation facilities at projects under construction, additional recreation facilities will not be programmed, except for minimum facilities needed for health and safety as defined in ER 1165-2-400, unless local interests agree to provide 50 percent cost sharing and financing for their share of recreation costs and to bear 100 percent

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of the recreation operation and maintenance costs in accordance with the cost sharing and financing concepts in the Water Resources Development Act of 1986, as amended. However, recreation development previously approved by ASA(CW) at 100 percent Federal cost may be completed.

- a. For projects where local interests have definitely declined to provide Non-Federal cost sharing, or where there is not yet a cost sharing agreement, include minimum facilities for health and safety in the project schedules, as appropriate, and include remaining recreation facilities in the unprogrammed balance to complete beyond PY+9. Construction of recreation facilities requiring a new cost sharing agreement will be considered a PY new investment decision for a new separable element and will be included on Illustration B-2.6, PY Proposed New Major Replacement and Other New Work Summary.
- b. For new construction projects or separable elements, construction of recreation facilities will be considered together with the primary portion of the project or separable element as a PY new investment decision and will be included on Illustration B-2.7, New Construction Checklist.
- B.2.8. **Projects Previously Funded as Construction.** PY Civil Works budget will fund four types of previously funded Construction activities in the Operation and Maintenance account. These activities are appropriately funded in the Operation and Maintenance account, both because of the nature of the work they represent and because of their integral connection to operation and maintenance. This reassignment improves accountability and oversight, reflects the full cost of operation and maintenance, and supports an integrated funding strategy for existing projects.
- 1. Biological Opinions: Activities necessary to comply with Biological Opinions, pursuant to the Endangered Species Act, to avoid jeopardizing listed species at existing projects. Compliance costs will be allocated among the project purposes of the operating projects.
- 2. Rehabilitation: Work to restore or ensure continuation of project functions or outputs. Rehabilitation of existing projects will compete for funding on a level playing field with other operation and maintenance activities. Fifty percent of the costs of rehabilitations for inland waterway projects will be derived from the Inland Waterways Trust Fund.

Section 205 of WRDA 92 defines "rehabilitation," with respect to inland waterway projects, as economically justified, structural restoration of major project features that extends project life more than 2 years, or structural modifications that enhance operational efficiency, and that exceed certain cost thresholds. Continued maintenance may be viewed as the alternative to rehabilitation, and so rehabilitations should compete against maintenance. Also, since rehabilitations are not as large as replacements they can be programmed more easily in the Operation and Maintenance account.

- 3. Beneficial use of dredged material from maintenance dredging: Construction of facilities, projects or features that use maintenance dredging material. These include beneficial uses of dredged material for island and marsh creation, shore protection, and other environmental purposes pursuant to the Section 204 / 207 / 933 Continuing Authority Program and specific authorizations. These also include dredged material disposal facilities for material from maintenance dredging. Funding for the dredged material disposal facilities would be derived from the Harbor Maintenance Trust Fund.
- 4. Renourishment to restore sand lost to shorelines form Federal navigation operation and maintenance:

Replacement of sand lost from shores due to the operation of Federal navigation projects (navigation mitigation). This activity would be carried out pursuant to specific authorizations for shore protection projects that involve navigation mitigation, and pursuant to the Section 111 Continuing Authority Program. Funding for navigation mitigation will be derived from the Harbor Maintenance Trust Fund.

Assume that proposed FY 2008 appropriations bill language will enable funding of these activities from the Operation and Maintenance account. Proposed language includes a provision for activities to comply with the Endangered Species Act at existing projects as well as funding for "eligible operations and maintenance" to be derived from the Harbor Maintenance Trust Fund. According to section 201 of the Water Resources Development Act of 1996, eligible operations and maintenance activities include not only harbor dredging but also the dredged material disposal facilities and navigation mitigation.

- 5. Construction funds will be used for Deficiency Corrections at non-federally operated and maintained projects.
- B-2.9. **Cost Estimates and Inflation Factors.** Cost estimates will be based on a 1 October PY-1 price level with an allowance for inflation through the construction period assuming a Capability schedule. The inflation allowance for each project will be computed only once and will be used without recomputation for all funding level schedules
- a. Uninflated Project Cost Estimates,(PCEs, PB-3s etc), must be updated to a 1 October PY-1 price level in accordance with the instructions in ER 11-2-240. Separable elements must be shown individually on the PB-3's. Federal and non-Federal cost sharing must reflect the guidance in this subannex. The cost estimates for:
 - new construction projects
 - replacement projects
 - dam safety assurance projects
 - deficiency correction projects
 - resumptions
 - reimbursement projects
 - separable elements

must be complete and reliable to assure credibility with the project sponsor, the Administration, and the Congress.

- b. Inflated Project Cost Estimates: Mandated inflation factors are shown on Table 1. These factors must be used to escalate future costs. Instructions for escalating estimates beyond PY+9 are provided at the bottom of Table 1. For example, Instructions for escalating project cost estimates to include an allowance for future inflation are also provided below.
- (1) Develop a Capability Level schedule for each project at a 1 October PY-1 price level (Uninflated Project Cost Estimate).
 - (2) Do not further escalate contracts already awarded or to be awarded by 30 September PY-2.
- (3) Escalate each contract to be awarded in the PY-1 and future years through its construction period in accordance with the guidance in Table 1.
- (4) Escalate land acquisition, in-house planning, engineering and design costs, in-house construction management costs, and Non-Federal costs through the construction period also in accordance with the guidance in Table 1.
- c. Design costs prior to receipt of C funds. Continuation of Planning and Engineering (CP&E); Effective 1 October 1985, funds obligated for CP&E are considered project costs and must be included in

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project cost estimates. CP&E costs obligated prior to 1 October 1985 remain excluded from project cost estimates.

Advance Engineering and Design (AE&D) and Preconstruction Engineering and Design (PED): All AE&D and PED costs are considered project costs and must be included in projects cost estimates.

d. Items which are indefinite or unprogrammed will be based on a 1 October PY-1 price levels without an allowance for inflation. Indefinite or unprogrammed items include parts of projects that will very likely not be programmed due to lack of local support or other non-funding reasons, as well as all new construction candidates (see paragraph B-2.3.) that are not included in the PY program. Many items in the unprogrammed balance to complete, although currently designated as active, may eventually be deauthorized or reclassified to the deferred or inactive categories

B-2.10. Schedules, Completion Dates, Contingencies and Funding Levels.

- a. Prepare a detailed project schedule using P2 Primavera Project Manager for each project, reflecting an unconstrained (Capability) level of funding in the PY and outyears. When the President's Budget is finalized, HQUSACE will issue guidance requesting that Primavera be updated to reflect the President's Budget.
 - b. A completion date for each project will be developed for the Capability Level.
- Use completion date for currently programmed work if the completion date for the entire project is indefinite.
- Use "indefinite" if planning, engineering and design is the only programmed activity and all construction work is unprogrammed.
- Show separate completion dates for initial construction and periodic renourishment dates for beach nourishment projects.
- c. Contingencies: The methodologies in Primavera Project Manager (PM)(Base and Plug-In Methodologies in Project Architect) include separate activities on which to resource contingencies, they are:

WBS	Activity Code	Activity Description
30DS0-Construction Contract A	CON490	Budgeted Construction Contingency
30DS1-Construction Contract B	CON740	Budgeted Construction Contingency
30DV0-E&D During Construction	n END6340	Budgeted E&D Contingency
31E00-S&A Prog & Proj Mgmt	SNA6640	Budgeted S&A Contingency

The contingency allowance should be varied according to the stage of planning and design. ER 1110-2-1302, annex D, shows reasonable percentage factors to be used for contingency allowances for construction and relocation features. For projects that are not programmed to complete in the PY, the project cost estimate may include appropriate contingency allowances. However, the PY request must not include an amount for contingencies and such allowances must be distributed in the outyears in proportion to the work to which the contingencies apply. For projects that are programmed to complete in the PY, the PY request may include an appropriate, reasonable amount for contingencies. The scheduled dates on the activities in Primavera Project Manager should be used to place the resourced amount for budgeted contingency within the PY. As a project nears completion, the contingency allowance must be reduced accordingly. In no case will contingencies for completed work be included. Claim settlements and deficiency judgments in the PY and outyears will be handled in accordance with normal reprogramming procedures. PY and outyear requests must not include amounts for anticipated claim settlements or anticipated deficiency judgments.

d. Funding level definitions are provided below

(1) **Initial Funding Level**. The initial level for each project or separable element is limited to:

1. For continuing or base-plus-options contracts (the base amount only, no options) the amount needed for earnings (no more, no less) in PY for estimated contractor earnings on contracts funded in the PY-1 budget and continuing into PY, plus contract management, E&D during construction, and real estate activities associated with continuing construction of that project or separable element; or 2. The amount necessary to fully fund continuing contracts with a remaining balance of less than \$20 million plus the associated contract management, E&D during construction, and real estate activities. Projects identified in the PY-1 budget for consideration for suspension and other projects not budgeted in PY-1 will have an Initial level of zero.

(2) Capability Level.

- a. When developing capabilities, Districts should fully fund all contracts \$20 million or less; for contracts greater than \$20 million, treat them as incrementally funded (i.e. continuing contract, base bid + option, multiple year contract); when stating capabilities, in addition to the optimally funded capability, provide one or two logical increments less than the optimal capability with a brief explanation of what can be accomplished at each funding increment. It is extremely important that Districts and Divisions (MSCs) carefully consider Capability Level amounts. The program recommendations to OMB, the President's FY 2009 budget, and the associated 5 to 10 year budget plan will be derived in part from the Capability Level.
- b. Capabilities should be developed for both expenditures and obligations for each active project. These PY amounts should be loaded into the OFA "PBS Grunt Sheet/5YDP DEF" data entry form. Outyear obligation capability amounts are also entered using the OFA "PBS Grunt Sheet/5YDP DEF" data entry form.

B-2.11. Cost Sharing.

- a. Navigation: Cost sharing and financing provisions are in Section 101 of the WRDA 1986, as amended. These provisions apply to a project, or separable element thereof, on which a contract for physical construction had not been awarded before 17 November 1986. Cost sharing for dredged material disposal facilities was modified by section 201 of the Water Resources Development of 1996 and applies to those facilities for which a contract for construction had not been awarded on or before 12 October 1996.
- b. Flood Control or other specified purposes: Cost sharing and financing provisions are set out in section 103 of the WRDA 1986. Except for certain named projects specifically exempted by law, these provisions apply to a project, or a separable element, thereof, on which physical construction is initiated after 30 April 1986. Section 202(a) of the WRDA 1996 amends Section 103 of WRDA 86 and increases non-Federal cost sharing for costs assigned to flood control to a minimum of 35 percent and applies to projects authorized after 12 October 1996.
 - c. New Deficiency Correction projects:
- at non-Federally operated and maintained projects: Cost sharing and financing will be in accordance with WRDA 1986, as amended, unless an exception is granted by ASA(CW) during the reconnaissance report review and approval process.

- at Corps of Engineers operated and maintained projects: No cost sharing required unless a non-Federal sponsor has contributed toward the initial construction of the project. Payment may be required of public entities which have signed agreements with the Government, e.g. for water supply storage.
- d. Dam Safety Assurance Projects (DSAP) that have not been previously programmed for construction: Cost sharing and financing will reflect a non-Federal cash contribution allocated to project purposes in accordance with Section 1203.(a) of the WRDA 1986, as amended.

e. Resumptions:

-Projects initiated under pre-WRDA 1986 cost sharing: cost sharing and financing will depend on the circumstances under which construction on the project was stopped. Generally, if it was at the request of, or due to action by local interests, cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, as amended will apply. However, if the project was stopped by other parties, such as in the case of a court injunction, then the originally authorized cost sharing and financing requirements will be applicable.

-Projects initiated under post-WRDA 86 cost sharing will be cost shared and financed in accordance with WRDA 1986, as amended.

- f. Balanced Cost Sharing: Project schedules should assume Federal and Non-Federal cost sharing is in balance throughout the project life unless otherwise approved as part of the PCA. The exception is in the first fiscal year of construction, when Federal and non-Federal contributions will be adjusted to bring the sponsor's total sunk and current contributions in line with its required cash percentage of obligations through that fiscal year. Credit for authorized and approved construction by the sponsor, if any, should be included in financial obligations for construction and applied toward the sponsor's required cash contribution (other than the 5 percent cash share required for structural flood control) in the year that the credit for the completed work is afforded. In all cases the schedule for obligating and expending non-Federal funds is independent of the schedule for the provision or crediting of LERRDs.
- B-2.12. **Remaining Benefit-Remaining Cost Ratio (RBRCR).** Use the following guidelines to compute the RBRCR at the applicable interest rate, the current interest rate and the OMB prescribed 7% interest rate.

a. General Guidance

- (1) Remaining Costs. Consider anticipated Federal and non-Federal allocations and other non-Federal costs through the PY-1 as sunk, and exclude them from the RBRCR computation. The Remaining Costs shall be the Federal and non-Federal allocations as of the end of PY-1 (30 September 2008) based on the current project cost estimate and allocations from prior years and on the Presidents Budget for PY-2 in October 2007 dollars. Where the project includes completed separable elements, independent units and/or useful increments, OMRR&R costs for completed units/increments shall also be considered sunk, and only OMRR&R for remaining units/increments shall be considered in remaining project costs. The remaining costs should include any reimbursements to be paid for work already completed.
- (2) Remaining Benefits. Where the project includes completed separable elements, independent units and/or useful increments, the amount of annual benefits that would be expected to accrue over the period of analysis for completed or functioning components of the total project shall be considered sunk and excluded from the RBRCR computation. Sunk benefits for projects that have reimbursable features should be estimated based on the reimbursable costs expended and an estimate on the amount of sunk

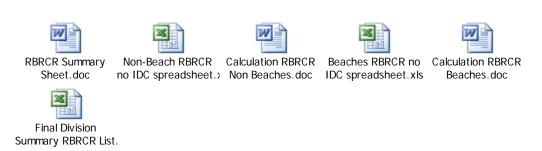
benefits that would be associated with that level of expenditure. Remaining benefits are those that will be attainable in the PY or thereafter only if project features not completed with allocations through PY-1 are completed and operated and maintained.

- (3) Review and Approval. All assumptions and computations of RBRCR, including I-PED, shall be subject to Independent Technical Review (ITR) at the District level. Rationale and documentation for determination of sunk and remaining benefits and costs must be provided to the ITR team/members and submitted along with the documentation and certification of ITR to the MSC for approval The MSC will submit the full documentation of RBRCRs to the RIT. RIT should then request the Office of Project Review (CECW-PC) to review the materials. RBRCR materials should include the specified spreadsheet that has been distributed via Budget EC and MSC lead economists, and documentation of ITR. Documentation may include comment/response/resolution papers or may include summary statements from ITR reviews describing what they reviewed, how they reviewed, and what issues were dealt with and resolve. Documentation of ITR should also include "certification" statements/signatures. It is formal, but should be commensurate with the complexity and scope. ITR should include Economist and PPM persons. ITR should consider such things as accuracy of Remaining costs, assurance that proper prior approved report is basis of benefits, proper deflation of cots, remaining construction schedule is reasonable, and IDC on remaining costs are correct. If new Economic update method was employed as being latest approved analysis, statement that MSC has approved it should be provided. Copies of any economic updates should be maintained by MSC and District and Provided to HQ if requested. RBRCR submittal dates are 29 June 07 and 15 Nov 07, RBRCRs must be approved by 15 August 07 and updated for all projects by 14 December 07 (Refer to Table 2 in the Main EC).
- (4) The RBRCR supporting PY funding requests for new construction candidates must be based on current approved evaluations of benefits and costs contained in an official report approved in or later than PY-5 and computationally follow one of the methods outlined in paragraph B-2.12.b. In no case should the benefits be price indexed except for specific benefit categories such as roads, bridges and rail line damages provided these benefits do not constitute a major portion of overall benefits.
- (5) For projects that were authorized without a formal benefit-cost analysis because monetary benefits have not been quantified, indicate the RBRCR is not applicable and the reasons why.
- (6) For PY, the RBRCR's will be computed using both the applicable rates from Table B- 2.2 and a standard discount rate of 7 percent.
- b. Alternative Methods for RBRCR. Use one of the following methods for determining RBRCR as appropriate for the conditions and situations associated with each project. It is expected that the most commonly used method will be the Deflation of Costs method outlined below. In any case, cost savings from implementation of the project or separable element will be treated as benefits, not as offsets against implementation costs.
- (1) Deflation of Cost Method. The Deflation of Cost method will generally be used for projects where the last approved economic analysis remains generally current with existing and anticipated future conditions. In this method, remaining costs are to be deflated to the date of price level basis of the last approved economic benefits analysis using the composite CWCCIS. Interest during construction will be computed for the remaining period of construction at the various interest rates and based on the anticipated remaining construction allocations. The total project cost will be annualized at the various interest rates over the appropriate period of analysis (usually 50-years). Remaining OMRR&R will also be deflated to the price level of the last approved benefit analysis and added to the annualized capital costs to determine total remaining annual costs. The total remaining annual benefits will be determined on the

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same price levels of the last approved economic analysis, and at the various interest rates. Then RBRCRs for the various interest rates will be computed.

- (2) Economic Update Method. The Economic Update Method will consist of the district preparing an economic update of total and remaining project benefits on current price levels in accordance with an approved Economic Update Plan. The price level prevailing during PY-2 (FY 07 for the FY 09 budget) will be used to update the benefits. Remaining cost will be calculated using the steps outlined in paragraph 1 above. RBRCRs calculations using this method will then be adjusted by the deflation method outlined above. The Economic Update Method should be used for projects wherein the last approved economic analysis is old and/or otherwise no longer reflective of current and anticipated future conditions. This would be especially useful for projects that have prolonged and periodic construction activities such as levee lifts (ie. MR&T) and additions to training river control works over extended periods of time. In performing economic updates current and future development, traffic levels, fleet characteristics, residual risks, operating practices, and other relevant factors should be factored in to the analysis as appropriate to derive a reasonably accurate estimate of project benefits.
- (3) Beach Re-nourishment Projects. For beach re-nourishment projects, the general assumption and calculations in the original (and last approved) economic analysis is one of needing to continue to periodic re-nourish the beach to maintain the design profile. Otherwise the estimated benefits would not be realized. Therefore, for beach re-nourishment activities, the RBRCR shall be computed in the following manner for the various project interest rates. Either the Deflation of Project Costs or the Economic Update Method outlined above may be used. However, the period of analysis for comparison of remaining costs and remaining benefits will be the remaining period of authorized Federal participation in the period re-nourishment of the project and/or applicable separable element. Remaining benefits will be considered the total annual benefits of the project after accounting for any historic and future growth in development used in the last approved economic analysis. For example, if there are 25 years remaining in authorized Federal participation in re-nourishment, the remaining construction and OMRR&R costs will be amortized over that period at the various interest rates, and compared to the annual benefits also computed at the same interest rate.
- c. RBRCR instructions and worksheets are enclosed. RBRCR Summary Sheet, Sample Non-Beach RBRCR no IDC Spreadsheet (Table 1), Calculation RBRCR Non Beaches, Sample Beaches RBRCR no IDC Spreadsheet (Table 2), Calculation RBRCR Beach and Final Division Summary RBRCR list (Table 3))



- B-2.13. **Supporting Data.** The following items must be prepared as indicated for each project for which funds are requested in the PY.
- a. Prepare a detailed project schedule in P2 Primavera Project Manager (PM) for each project, reflecting an unconstrained (Capability) level of funding in the PY and outyears. The PM data must reflect

the funding decisions enacted by Congress for PY-2, and a realistic expectation of PY-1 funding. All active uncompleted separable elements must be displayed separately. The PM data will be queried as needed to produce extracts and reports formerly provided by the PB-2a report.

- b. Use the Performance Measure data entry forms provided by the OFA PBS module. There is a separate data entry form for each business line. The data requirements for each business line are detailed in the business line appendices.
- c. Illustration B-2.1, Project Data Summary is an OFA report which will be prepared using the OFA "PBS Grunt Sheet/5YDP DEF" data entry form for each continuing project or separable element, and each project or separable element expected to be recommended for new construction during the period PY through PY+9. This includes new construction projects, new replacement projects, dam safety or seepage/static instability projects continuing from the Dam Safety and Seepage/Static Instability Correction Program, new deficiency correction projects, new dredged material disposal facility projects (although these projects will not be line-item funded), resumptions, and new separable elements of projects under construction. Individual Illustrations B-2.1 prepared for programmed and unprogrammed separable elements will be rolled up into their parent projects by use of the P2 Program Code. The PY Federal and IWTF budget amounts can not be entered directly on this data entry form, but will be autopopulated from the PBS performance measure data entry forms. OFA analysis cubes can be used to provide summaries of Federal (Corps) funding requirements, Inland Waterways Trust Fund requirements, Harbor Services Fund requirements, Other Federal Agency funding requirements, Non-Federal cash contributions and other costs, and completions, from data entered into the "PBS Grunt Sheet/5YDP DEF" form.
- d. Illustration B-2.4, PY Justification Sheet, will be prepared for the Initial Level for each new construction project, replacement project, and dam safety assurance or seepage/static instability correction project continuing from the Dam Safety and Seepage/Static Instability Correction Program, new deficiency correction project, resumption, and new unstarted separable element of a project under construction (including new recreation facilities and new reimbursable work) which is recommended for funding in the PY. In addition, although funds for separable elements of ongoing construction projects are not programmed on an individual basis and are included as part of the program requests for their parent projects, Illustration B-2.4, PY Justification Sheet, will be prepared for each new separable element which is recommended for funding for construction in the PY.
- e. Illustration B-2.6, PY Proposed New Replacement and Other New Work Summary, will be prepared to identify each new replacement project, new deficiency correction project, resumption, and new separable element of an ongoing project (including new recreation facilities and new reimbursable work) recommended for construction funding in the PY.
- f. Illustration B-2.7, New Construction Checklist, will be prepared to identify PY new construction projects that are recommended in accordance with the criteria listed in Table B-2.1.
- g. Submit three copies of the document confirming compliance with basic eligibility criterion number 6 of Table B-2.1 for all recommended new construction candidates. If the recommended plan materially differs either in scope or costs (20 percent, adjusted) from the authorized plan, or from that included in the report being processed for submission to Congress, three copies of the reevaluation report justifying such deviation will be required. If copies of required reports have been sent for previous program submissions, RIT will verify the availability of these reports before requesting additional copies.

- h. A reproducible map will be provided for each new construction project, new replacement project, new deficiency correction project, resumption, and new separable element of an ongoing project (including new recreation facilities and new reimbursable work) recommended for funding for construction in the PY. Furthermore, a map will be provided for each continuing dam safety project, replacement, seepage or stability correction project. For the July submission, a copy of a location or project map from a feasibility report, design memorandum, or other document will be sufficient. The July submission map must be marked in black reproducible pencil to clearly show the project and separable elements thereof, if applicable, in relation to nearby geographical features. The purpose of the map is to aid in understanding the nature of the project or separable element. See paragraph 13 d (1)(h)of the main section of the EC for specific instructions.
- i. Remaining Benefit-Remaining Cost analysis per section B-2.11, for each line-item funded project or separable element is necessary, exceptions are aquatic ecosystem restoration projects, dam safety projects, and seepage / static instability correction, and replacement projects.
- B-2.14. **Submission Requirements.** Copies of the following items must be submitted to HQUSACE RITs as applicable, WASH DC 20314-1000, except as noted, by the date and in the amount indicated below.
- a. Project schedule and resource requirements updated in P2 Primavera Project Manager reflecting capability funding level for PY and outyears, <u>29 June</u>, automated information system input, no hardcopy submission required.
- b. P2 OFA "PBS Performance Measure" and "PBS Grunt Sheet/5YDP DEF" (Illustration B-2.1, Project Data Summary Table). Database will close 29 June, automated information system input, no hard copy submission required.
- c. Illustration B-2.4, PY Justification Sheet. The July submission must be submitted by email as a Word document. See paragraph 13 d (1)(h) of the main section of the EC for specific instructions on conversion of your justification sheets to an Adobe Acrobat 7.0 file for transmission of the Congressional submission to HQ. The appropriation title and project classification must be typed as the first line in the body and the Division, District, and project name must be typed in the 1 inch bottom margin. Do not underline any headings. Illustrations B-2.4 for continuing projects for the PY submission to Congress will be submitted as outlined in Table 2 of the main section.
- d. Illustration B-2.6, PY Proposed New Replacement and Other New Work Summary, 20 July, 3 copies.
 - e. Illustration B-2.7, New Construction Checklist, 20 July, 10 copies.
- f. Feasibility Report with Engineering Annex, EDR, and/or LRR or GRR for each new construction project recommended for construction funding in the PY, when requested, 3 copies.
- g. A reproducible map On 8 1/2 inch by 11 inch paper, 20 July, 10 copies. Furthermore, a map will be provided for each continuing dam safety project, replacement project, that has not been previously included in the PY-1 President's budget. Larger folded maps are no longer acceptable. See paragraph 13 d (1)(h)of the main section of the EC for specific instructions concerning conversion of maps to an Adobe Acrobe 7.0 file and format in accordance with (ER-11-2-240) for transmission of the Congressional submission to HQ.

- h. Evaluation or reconnaissance report, as applicable, for each new replacement project, new dam safety assurance project, new deficiency correction project; 15 Mar for new replacement projects, 3 copies to appropriate HQUSACE Regional Implementation Team (RIT); 20 July for new dam safety assurance projects, and new deficiency correction projects, 3 copies to appropriate HQUSACE RIT. In addition, an appropriate report must be approved by HQUSACE and ASA(CW), as applicable, or at HQUSACE for approval, as applicable, by 15 June of the PY-2 with HQUSACE and ASA(CW) approval, as applicable, expected by 1 August of the PY-2 to be considered for inclusion in the PY program as a continuing project.
- i. EDR or reevaluation report for each new separable element of an ongoing project or resumption recommended for construction funding in the PY, including submission letter and subsequent forwarding and approval endorsements, 15 June, 3 copies.
- j Approved M-CACES Baseline cost estimate (summary sheets to the subfeature element level for each feature and the appropriate narrative) for each new construction project, new replacement, new dam safety assurance project, new deficiency correction project, new reconstruction project, new reimbursement project, resumption, and new separable element recommended for construction funding in the PY, 15 June, 1 copy.
- B-2.15. **Adjustments to PY-1 and PY Programs.** When Congress takes action on the PY-1 appropriations bill, appropriate revisions to Division submissions will be requested.

TABLE B-2.1 NEW CONSTRUCTION (INCLUDING NEW SEPARABLE ELEMENTS AND RESUMPTIONS)

BASIC ELIGIBILITY CRITERIA

- 1. The project or separable element is authorized for construction.
- 2. The Administration has developed a favorable position on construction of the project or separable element, as authorized.
- 3. PED is fully funded by the end of the PY-1 and the PCA is on schedule to be executed and the Financing Plan approved no later than the end of the PY.
- 4. The Project Manager has confirmed the sponsor's understanding of its contractual and financial commitments and its ability to meet the funding requirements of the construction schedule, including balancing of its share of PED costs.
- 5. The project is in compliance with the applicable environmental statutes, appropriate to the current stage of implementation. An Environmental Assessment has been completed and Finding of No Significant Impact signed, or final EIS has been filed, or final EIS supplement is scheduled for filing with EPA by 1 August of the PY-2.
- 6. If a postauthorization change is required, only routine issues are involved which will not require Congressional authorization. If the project has an unapproved report involving a material change in project features or cost, the required change(s) recommended in the report must be scheduled for Washington level review and approval by ASA(CW), as applicable, by 1 August of the PY-2. For those projects where there are no substantial changes to the project plan presented in the feasibility report with an engineering annex approved by ASA(CW), as applicable, the feasibility report will serve as the necessary document. For all other projects, an approved EDR or GRR, as applicable, approved at the MSC (delegated decision document), HQUSACE, or ASA(CW) level, as appropriate, will be required in accordance with EC 1165-2-205, Delegation of Review and Approval Authority for Post-Authorization Decision Documents. If the economic analysis in the applicable document was approved prior to PY-5, a LRR on the project economics will be required in accordance with paragraph 10 of the main part of the EC and paragraph B-2.3.d of this subannex. The LRR may be approved by the MSC.
- 7. A M-CACES Baseline cost estimate has been prepared, in accordance with ER 5-1-11, with approval at the appropriate level as the basis for the subsequent work and financial flow.
- 8. A project management plan (PMP) has been prepared and approved.
- 9. No known or reasonably anticipated conditions or unresolved issues exist which might prevent either: (a) award of the first significant construction contract by the end of the PY; or (b) the start of real estate acquisition for the first significant construction contract so that the scheduled construction contract can be awarded no later than the end of the following fiscal year (PY+1) in the absence of the sponsor possessing title to the required lands and easements. Planning, engineering and design work should be far enough along in the PY so that the orderly and continuous progression of construction is assured with the scheduled award of the first construction contract.

TABLE B-2.2 APPLICABLE DISCOUNT RATES IN EFFECT WHEN INITIAL CONSTRUCTION FUNDS WERE APPROPRIATED

5	Discount Rate 1/ Show on	Show on
Fiscal Year	Justification Sheet	Illustration B-2.1
1958	2 1/2	2.500
1959	2 1/2	2.500
1960	2 1/2	2.500
1961	2 5/8	2.625
1962	2 5/8	2.625
1963	2 7/8	2.875
1964	3	3.000
1965	3 1/8	3.125
1966	3 1/8	3.125
1967	3 1/8	3.125
1968	3 1/4	3.250
1969	3 1/4	3.250
1970	4 7/8	4.875
1971	5 1/8	5.125
1972	5 3/8	5.375
1973	5 1/2	5.500
1974	5 5/8	5.625
1975	5 7/8	5.875
1976	6 1/8	6.125
1977	6 3/8	6.375
1978	6 5/8	6.625
1979	6 7/8	6.875
1980	7 1/8	7.125
1981	7 3/8	7.375
1982	7 5/8	7.625
1983	7 7/8	7.875
1984	8 1/8	8.125
1985	8 3/8	8.375
1986	8 5/8	8.625
1987	8 7/8	8.875
1988	8 5/8	8.625
1989	8 7/8	8.875

^{1/} Unless the project qualifies for the 3 1/4 percent rate under the "grandfather" clause in Section 80 of the 1974 Water Resources Development Act.

TABLE B-2.2 (Continued) APPLICABLE DISCOUNT RATES IN EFFECT WHEN INITIAL CONSTRUCTION FUNDS WERE APPROPRIATED

Fiscal Year	Discount Rate 1/ Show on Justification Sheet	Show on Illustration B-2.1
1990	8 7/8	8.875
1991	8 3/4	8.750
1992	8 1/2	8.500
1993	8 1/4	8.250
1994	8	8.000
1995	7 3/4	7.750
1996	7 5/8	7.625
1997	7 3/8	7.375
1998	7 1/8	7.125
1999	6 7/8	6.875
2000	6 5/8	6.625
2001	6 3/8	6.375
2002	6 1/8	6.125
2003	5 7/8	5.875
2004	5 5/8	5.625
2005	5 3/8	5.375
2006	5 5/8	5.675
2007	5 3/8	5.375
2008	5 1/8	5.125
2009	4 7/8	4.875

^{1/} Unless the project qualifies for the 3 1/4 percent rate under the "grandfather" clause in Section 80 of the 1974 Water Resources Development Act.

ILLUSTRATION B-2.1 PROJECT DATA SUMMARY \$000

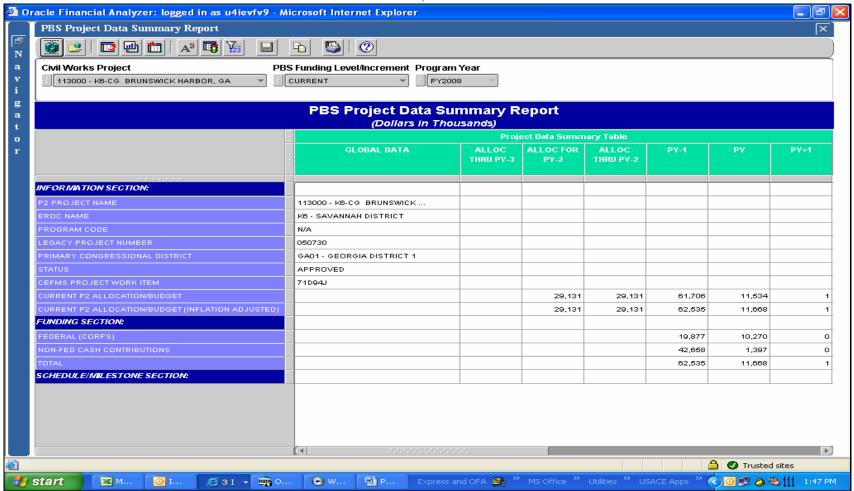


ILLUSTRATION B-2.4, PY JUSTIFICATION SHEET

(NOTE: DO NOT TYPE ILLUSTRATION HEADING ON JUSTIFICATION SHEET)

APPROPRIATION TITLE: Construction - Enter the project classification and type.

PROJECT: Enter the project name, state and whether it is new or continuing.

LOCATION: Enter a brief description of the project location, clearly identifying major landmarks, counties, and municipalities in the project vicinity.

DESCRIPTION: Enter a brief description of the plan of improvement clearly identifying major project features and differentiating between programmed and unprogrammed work. Indicate if project is part of a system. For reservoir projects, include breakdown of storage by function. Differentiate between programmed and unprogrammed work. For ecosystem restoration projects include area in acres to be restored and types of habitat. If operation and maintenance is required to maintain describe briefly what and how often - For example to keep and area as a wetland dredging will be required every 5 years. If monitoring/adaptive management is authorized or recommended in the approved report - briefly describe what is approved and the period of time involved. Note the recommended/authorized cost of these items.

AUTHORIZATION: Enter the act authorizing the project, such as: Water Resources Development Act of xxxx.

REMAINING BENEFIT-REMAINING COST RATIO: Enter the RBRCR for the project at a 7 percent discount rate (as calculated from Section B.2-11 of the Annex). If the project is substantially complete and the RBRCR is no longer meaningful, enter: Not applicable because project construction is substantially complete.

TOTAL BENEFIT-COST RATIO: Enter the benefit-cost ratio for the project at a 7 percent discount rate. For Ecosystem restoration projects briefly summarize the results of the Cost Effectiveness/Incremental Cost Analysis. If the NER plan was not authorized note this.

INITIAL BENEFIT-COST RATIO: Enter the benefit-cost ratio at the applicable discount rate and the fiscal year for which Congress appropriated initial construction funds such as: 1.11 to 1 at 5 1/8 percent (FY xxxx). Omit this item for PY new construction. Use the applicable discount rate from Table B-2.2

BASIS OF BENEFIT-COST RATIO: Indicate the basis of the benefit-cost ratios, such as: Benefits are from the latest available evaluation approved in (month) xxxx at xxxx price levels.

SUMMARIZED FINANCIAL DATA		ACCUM PCT O FED C	F EST	STATUS (1 Jan xxxx)	PCT CMPL	PHYSICAL COMPLETION SCHEDULE
(For projects with an unprogrammed be to complete, but no future non-Feder reimbursement.)				Element A Element B e protection pro al Construction	_	May xxxx Indefinite Sep xxxx
	xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx		dic Nourishment Entire Project	xx	Jun xxxx Jun xxxx
Estimated Non-Federal Cost Programmed Construction Cash Contributions xx,xxx,xxx Other Costs xx,xxx,xxx Estimated Non-Federal Cost	xx,xxx,xxx	xx,xxx,xxx		Under appropriate enter the sign data on the ma facilities ind.	ificant p jor proje	hysical ct
Unprogrammed Construction Cash Contributions xx,xxx,xxx Other Costs xx,xxx,xxx	xx,xxx,xxx			indicating the	_	_
Total Estimated Programmed Construction Cost Total Estimated Unprogrammed Construction Cost Total Estimated Project Cost		xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx				

SUMMARIZED FINANCIAL DATA (Continued)	ACCUM PCT OF EST FED COST	STATUS (1 Jan <u>xxxx</u>)	PCT CMPL	PHYSICAL COMPLETION SCHEDULE
Allocations to 30 September PY-4	xx,xxx,xxx			
Allocation for PY-3	xx,xxx,xxx			
Allocation for PY-2	xx,xxx,xxx			
Conference Allowance for PY-1	xx,xxx,xxx			
Allocation for PY-1	xx,xxx,xxx 1/			
Allocations through PY-1	xx,xxx,xxx xx			
Allocation Requested for PY	xx,xxx,xxx xx			
Programmed Balance to Complete after PY	xx,xxx,xxx			
Unprogrammed Balance to Complete after PY	xx,xxx,xxx			

1/ Reflects \$xxx reprogrammed to (from) the project. (Use example as applicable).

For programmed work only; remaining work is unprogrammed pending a decision to construct these features.

JUSTIFICATION: Enter an explicit and factually objective presentation of the merits of the project, i. e., an answer to the question: "Why now?" In narrative form, present your best case. The following information, when related to recent events or the current state of the economy, is more convincing than a simple recitation of facts.)

For flood projects, state the present value and type of property subject to flood damage; the average annual damages, with and without the project; the flood frequency against which protection is to be provided; the maximum flood of record; the damage sustained at that time and what it would be now; the frequency and duration of flooding; recent flood experience; and any other data which indicate the magnitude

and severity of the flood problem and the need for protection. Include information on risk to life such as velocity and depth of flooding and amount of warning time and egress conditions. If more than 20 percent of urban flood damage prevention benefits are future benefits, explain the basis for such future benefits. In particular, estimated benefits for prevention of damages to household contents must be in accordance with the most recent CECW-P guidance. Describe the residual risk in terms of damages, population at risk, and the type of risk (rapid flooding from levee overtopping, etc). Does project directly or indirectly support future flood plain development in areas other than those near already urbanized areas or where flood plain values have been largely lost? Does it avoid, to the extent possible, the long and short term adverse impacts associated with the destruction or modification of wetlands and/or other environmental attributes?

For commercial navigation projects, discuss major commodities imported and exported; average commerce tonnage over the most recent 10-year period; savings per ton for selected commodities; availability of dredged material disposal sites; and size of ships expected to call at the port in the future.

For Ecosystem restoration discuss significance, as described in Appendix II, Table II-2-3 **paragraphs 51-63**, of the resources being restored, expected benefits and time frame for the realization of these benefits (eg - mature oak forest full benefits 10-20 yrs out), incidental benefits, and significant factors affecting the cost - such as urban. See Appendix II for other items that you may want to cover in the justification.

For water supply or hydroelectric power generation projects, specify the storage provided, and the potential sponsor(s) who has agreed to fully finance the applicable costs.

Similar specific data should be provided for other types of projects and purposes.

Identify those counties, districts, Indian reservations, or other areas which qualify as areas of "substantial and persistent" unemployment using the procedures in the Principles and Guidelines. The construction activities must be physically located in such areas in order for the benefits from employment of previously unemployed labor resources to be included in the project's justification.

Discuss the extent to which project beneficiaries have made investments other than the required items of local cooperation whose return is contingent upon completion of the Federal project.

Include a tabular listing of annual benefits as the final item of the justification paragraph if there is more than one applicable benefit category, such as: Average annual benefits are as follows:

Annual Benefits	Amount
Benefit 1 Benefit 2 Benefit 3	x,xxx,xxx x,xxx,xxx x,xxx,xxx
Total	xx,xxx,xxx

FISCAL YEAR PY-1: Enter a paragraph describing how PY-1 funds are being used. The current amount is being applied as follows:

FISCAL YEAR PY: Enter a tabular explanation of how the PY funds will be used, such as: The requested amount will be applied as follows:

Initiate	\$x,xxx,xxx
Initiate and complete	x,xxx,xxx
Continue	x,xxx,xxx
Complete	x,xxx,xxx
Planning, Engineering, and Design for parent project	x,xxx,xxx
Planning, Engineering, and Design for Element A	x,xxx,xxx
Planning, Engineering, and Design for Element B	x,xxx,xxx
Construction Management	x, xxx, xxx
Total	\$xx,xxx,xxx

NON-FEDERAL COST: Enter a separate tabular explanation of the requirements of local cooperation included in each project cooperation agreement applicable to the project together with the associated payments during construction, reimbursements, and annual operation, maintenance, repair, rehabilitation, and replacement costs, such as: In accordance with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, as amended, the non-Federal sponsor must comply with the requirements listed below.

Annual

Requirements of Local Cooperation	Payments During Construction and Reimbursements	Operation, Maintenance, Repair, Rehabilitation, and Replacement Costs
•	11011112 41 2 011101102	
Separable Element A (Repeat as applicable for each separable element).		
Provide lands, easements, (and) rights of way, (add for all but navigation projects) and dredged or excavated material disposal areas, (add if appropriate) which may be reduced for credit allowed based on prior work (Section 104 of the Water Resources Development Act of 1986, as amended, or Section 215 of the Flood Control Act of 1968) after reductions for such credit have been made in the required cash payments.	x,xxx,xxx	
(Add if covered under post-1994 PCA) Participate in Project Coordination Team, conduct audits of non-Federal costs, and perform investigations of hazardous substances	x,xxx,xxx	
Modify or relocate utilities, roads, bridges (except railroad bridges), and other facilities, where necessary for the construction of the project.	x,xxx,xxx	
Pay all costs allocated to hydropower and bear all costs of operation, maintenance, repair, rehabilitation and replacement of hydropower facilities.	x,xxx,xxx	x,xxx

Requirements of Local Cooperation (Continued)	Payments During Construction and Reimbursements	Annual Operation, Maintenance, Repair, Rehabilitation, and Replacement Costs
Pay all costs allocated to municipal and industrial water supply and bear all costs of operation, maintenance, repair, rehabilitation and replacement of municipal and industrial water supply facilities.	x,xxx,xxx	x,xxx
Pay one-half of the separable costs allocated to recreation (except recreational navigation) and bear all costs of operation, maintenance, repair, rehabilitation and replacement of recreation facilities.	x,xxx,xxx	x,xxx
Pay one-half of the separable and joint costs allocated to recreational navigation and bear all costs of operation, maintenance, repair, rehabilitation, and replacement of recreational navigation facilities.	x,xxx,xxx	x,xxx
Pay xx percent of the costs allocated to flood control to bring the total non-Federal share of flood control costs to (include one of the following) 25 percent, 35 percent, or xx percent as determined under Section 103 (m) of the Water Resources Development Act of 1986, as amended, to reflect the	x,xxx,xxx	x,xxx

Annual

Requirements of Local Cooperation (Continued)	Payments During Construction and Reimbursements	Operation, Maintenance, Repair, Rehabilitation, and Replacement Costs	
non-Federal sponsor's ability to pay, (add if appropriate) as reduced for credit allowed based on prior work (Section 104 of the Water Resources Development Act of 1986, as amended, or Section 215 of the Flood Control Act of 1968), but no less than 5 percent of the costs allocated to flood control, and bear all costs of operation, maintenance, repair, rehabilitation and replacement of flood control facilities.			
Pay xx percent of the costs allocated to fish and wildlife enhancement, and pay xx percent of the costs of operation, maintenance, repair, rehabilitation, and replacement of fish and wildlife facilities.	x,xxx,xxx	x,xxx	
Pay 35 percent of the ecosystem restoration costs and bear all costs of operation, maintenance, repair, rehabilitation and replacement of ecosystem restoration facilities.	x,xxx,xxx	x,xxx	
Pay 35 percent of the costs allocated to hurricane and storm damage reduction, and bear all costs of operation, maintenance, repair, rehabilitation, and replacement of hurricane and storm damage reduction facilities.	x,xxx,xxx	x,xxx	

Requirements of Local Cooperation (Continued)	Payments During Construction and Reimbursements	Annual Operation, Maintenance, Repair, Rehabilitation, and Replacement Costs
Pay (include one of the following) 35 percent or xx percent, as determined under Section 103 (m) of the Water Resources Development Act of 1986, as amended, to reflect the non-Federal sponsor's ability to pay, of the costs allocated to agricultural water supply, and bear all costs of operation, maintenance, repair, rehabilitation, and replacement of agricultural water supply facilities.	x,xxx,xxx	x,xxx
Pay xx percent of the costs allocated to general navigation facilities during construction and (add if appropriate) pay 50 percent of the costs of incremental maintenance below 45 feet below mean low water.	x,xxx,xxx	x,xxx
Reimburse an additional 10 percent of the costs of general navigation features allocated to commercial navigation within a period of 30 years following completion of construction, as reduced by a credit allowed for the value of lands, easements, rights of way, and relocations provided for commercial navigation.	x,xxx,xxx	
Total Non-Federal Costs	x,xxx,xxx	x,xxx

The non-Federal sponsor has also agreed to make all required payments concurrently with project construction and, for general navigation, reimburse its share of construction costs within a period of 30 years following completion of construction when is this applicable? It would be good to specify. (Use example as applicable).

Note: After approval by the ASA(CW), local credit based on ability to pay (Section 103 (m) of the Water Resources Development Act 0f 1986, as amended,) or general credit for prior work (Section 104 of the Water Resources Development Act 0f 1986, as amended, or Section 215 of the Flood Control Act of 1968) must be reflected in the requirements of local cooperation as an offset to required cash contributions or, if necessary, LERRD contributions. However, any credit provided under Section 104 of the Water Resources Development Act 0f 1986, as amended, or Section 215 of the Flood Control Act of 1968 may not be used to offset the required 5 percent cash contribution.

STATUS OF LOCAL COOPERATION: Identify the non-Federal sponsor, the current status of assurances, the current status of the PCA, actions being taken by the non-Federal sponsor toward compliance with the requirements of local cooperation, contributions made, bond issues passed, or other specific items. If known, state the method by which the non-Federal sponsor intends to provide its share of the project first costs (cash and other items of local cooperation) and annual O&M costs. List all potential sources of funds (together with dollar amounts, if known) to meet local cooperation requirements, including any anticipated Federal funds for which the Federal granting agency has indicated in writing that the use of such funds for items of local cooperation is authorized. List and describe any local work or investments that have already been made or are underway which would serve to fulfill all or part of the local cooperation requirements (including work accomplished pursuant to Section 215 of the 1968 Flood Control Act or creditable under Section 104 of the 1986 Water Resources Development Act.)

In the event a PCA has not been executed by the ASA(CW), provide the scheduled month and year when the PCA is scheduled to be executed.

For projects with future non-Federal reimbursement, indicate the specific conditions which govern the initiation of non-Federal reimbursement payments and the scheduled date such reimbursement payments are scheduled to begin.

For each project with an executed PCA, compare the approved non-Federal cost estimate in the PCA with the current non-Federal cost estimate and provide an assessment of the non-Federal sponsor's financial capability to contribute toward any increased costs and an indication of the sponsor's willingness to share in any increased costs, such as: The current non-Federal cost estimate of \$8,000,000, which includes a cash contribution of \$3,000,000, is an increase of \$1,000,000 from the non-Federal cost estimate of \$7,000,000 noted in the Project Cooperation Agreement, which included a cash contribution of \$2,500,000. In a letter dated 3 March xxxx, the non-Federal sponsor indicated that it is financially capable and willing to contribute the increased non-Federal share. Our analysis of the non-Federal sponsor's financial capability to participate in the project affirms that the sponsor has a reasonable and implementable plan for meeting its financial commitment.

COMPARISON OF FEDERAL COST ESTIMATES: Enter a tabular explanation of the changes in the Federal (Corps) cost estimate from the last estimate presented to Congress to the current estimate, such as: The current Federal cost estimate of \$xxx,xxx,xxx is an increase (decrease) of \$xx,xxx,xxx from the latest estimate (\$xxx,xxx,xxx) presented to Congress (FY xxxx). This change includes the following items.

Item	Amount
Price Escalation or De-escalation on Construction Features	\$x,xxx,xxx
Design Changes	x,xxx,xxx
Additional Functions Added under General Authority	x,xxx,xxx
Authorized Modifications	x,xxx,xxx
Post Contract Award and Other Estimating Adjustments (including contingency adjustments)	x,xxx,xxx
Schedule Changes	x,xxx,xxx
Price Escalation or De-Escalation on Real Estate	x,xxx,xxx
Total	\$x,xxx,xxx

STATUS OF ENVIRONMENTAL IMPACT STATEMENT COMPLIANCE: Indicate the status of the environmental impact statement, such as: The final EIS was filed with EPA on 28 September xxxx. List other significant items such as Clean Water Act, Coastal Zone Management Act, cultural resources and Endangered Species Act compliance status if not completed at the time the EIS was filed.

OTHER INFORMATION: Indicate when funds were appropriated to initiate preconstruction engineering and design and construction, respectively, such as: Funds to initiate preconstruction engineering and design were appropriated in FY xxxx and funds to initiate construction were appropriated in FY xxxx. If the scheduled completion date for programmed work has changed from the date last presented to Congress, explain the changes, such as: The scheduled completion date of June xxxx for programmed work is a (slippage or acceleration) from the latest completion date of March xxxx presented to Congress. This change is due to Also, note any problems that should be considered by the Committees which might affect the progress schedule shown in your program request, as well as your expectations for and timing of a resolution of the problems. Fish and Wildlife Mitigation costs should also be separately identified and reflected in this paragraph.

Separable Element A (Repeat as necessary for each programmed separable element.)

SUMMARIZED FINANCIAL DATA: For ongoing projects with programmed separable elements, provide a breakdown of the summarized financial data for each programmed separable element in the same format as displayed for the parent project, except that the allocations and conference allowance information is not required.

REMAINING BENEFIT-REMAINING COST RATIO: Enter the RBRCR for each programmed separable element at a 7 percent discount rate. If the element is substantially complete and the RBRCR is no longer meaningful, enter: Not applicable because construction is substantially complete. N/A for Ecosystem restoration.

TOTAL BENEFIT-COST RATIO: Enter the total benefit-cost ratio for each programmed separable element at a 7 percent discount rate. For Ecosystem Restoration projects briefly summarize the results of the Cost Effectiveness/Incremental Cost Analysis. If the NER plan is not being implemented note this and explain briefly.

Note: The justification sheets must be typed on standard size paper, 8 1/2 inches by 11 inches, as left justified Word document at 6 lines per inch (.167 inch line height) using a landscape 10 point font (12 characters per inch); Courier or Arial are the preferred typefaces. The typed material must be confined to 6 1/2 inches vertically and 10 inches horizontally, leaving 1/2 inch margins on the left and right sides, and 1 inch margins on the top and bottom. The appropriation title and project classification must be typed as the first line in the body and the Division, District, and project name must be typed in the 1 inch bottom margin. Do not underline any headings. The July submission must be submitted by email as a Word document. See paragraph 13.d.(1).(g). of the main EC for specific instructions concerning conversion of your justification sheets to an Adobe Acrobat 7.0 file for transmission of the Congressional submission to HQ.

Additional Examples of Summarized Financial Data

For projects with no unprogrammed balance to complete, and no future non-Federal reimbursement.

 $\begin{array}{lll} \text{Estimated Federal Cost} & \text{xx,xxx,xxx} \\ \text{Estimated Non-Federal Cost} & \text{xx,xxx,xxx} \\ \end{array}$

Cash Contributions xx,xxx,xxx Other Costs xx,xxx,xxx

Total Estimated Project Cost xx,xxx,xxx

For projects with both an unprogrammed balance to complete and future non-Federal reimbursement.

Estimated Total Appropriation Requirement xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Future Non-Federal Reimbursement xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Estimated Federal Cost (Ultimate) xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

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ILLUSTRATION B-2.4 (Continued)

For projects with both an unprogrammed balance to complete and future non-Federal reimbursement (continued).

Estimated Non-Federal Cost xx,xxx,xxx

Programmed Construction xx,xxx,xxx

Cash Contributions xxx,xxx Other Costs xxx,xxx Reimbursements xxx,xxx

> Purpose 1 xxx,xxx Purpose 2 xxx,xxx

Unprogrammed Construction xx,xxx,xxx

Cash Contributions xxx,xxx Other Costs xxx,xxx Reimbursements xxx,xxx

> Purpose 1 xxx,xxx Purpose 2 xxx,xxx

Total Estimated Programmed Construction Cost xx,xxx,xxx
Total Estimated Unprogrammed Construction Cost xx,xxx,xxx
Total Estimated Project Cost xx,xxx,xxx

For projects with no unprogrammed balance to complete, but with future non-Federal reimbursement.

Estimated Total Appropriation Requirement xx,xxx,xxx

Future Non-Federal Reimbursement xx,xxx,xxx

Estimated Federal Cost (Ultimate) xx,xxx,xxx

For projects with no unprogrammed balance to complete, but with future non-Federal reimbursement (continued).

Estimated Non-Federal Cost xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx
Reimbursements xx,xxx,xxx

Purpose 1 xx,xxx,xxx Purpose 2 xx,xxx,xxx

Total Estimated Project Cost xx,xxx,xxx

For projects with an unprogrammed balance to complete, future non-Federal reimbursement, and where an additional Federal agency is involved.

Estimated Appropriation Requirement (CoE) xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Estimated Appropriation Requirement (OFA) xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Estimated Total Appropriation Requirement xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

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ILLUSTRATION B-2.4 (Continued)

For projects with an unprogrammed balance to complete, future non-Federal reimbursement, and where an additional Federal agency is involved (continued).

Future Non-Federal Reimbursement xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Estimated Federal Cost (Ultimate) (CoE) xx,xxx,xxx

Programmed Construction xx,xxx,xxx
Unprogrammed Construction xx,xxx,xxx

Estimated Non-Federal Cost xx,xxx,xxx

Programmed Constructions xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx
Reimbursements xx,xxx,xxx

Purpose 1 xx,xxx,xxx Purpose 2 xx,xxx,xxx

Unprogrammed Construction xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx
Reimbursements xx,xxx,xxx

Purpose 1 xx,xxx,xxx
Purpose 2 xx,xxx,xxx

Total Estimated Programmed Construction Cost xx,xxx,xxx
Total Estimated Unprogrammed Construction Cost xx,xxx,xxx
Total Estimated Project Cost xx,xxx,xxx

For projects with no unprogrammed balance to complete, but with future non-Federal reimbursement and where an additional Federal agency is involved.

Estimated Appropriation Requirement	(CoE)	xx,xxx,xxx
Estimated Appropriation Requirement	(OFA)	xx,xxx,xxx
Estimated Total Appropriation Requi	rement	xx,xxx,xxx
Future Non-Federal Reimbursement		xx,xxx,xxx
Estimated Federal Cost (Ultimate)	xx,xxx,xxx	
Estimated Non-Federal Cost Cash Contributions Other Costs Reimbursements Purpose 1 xx,xxx,xxx Purpose 2 xx,xxx,xxx	xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx
Total Estimated Project Cost		xx,xxx,xxx

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ILLUSTRATION B-2.4 (Continued)

The funding status for projects authorized to use funds appropriated from the Inland Waterways Trust Fund will be displayed as shown below.

	GENERAL APPNS.	INLAND WATERWAYS TRUST FUNDS	ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September PY-2	xx,xxx,xxx	xx,xxx,xxx	xx
Conference Allowance for PY-1	xx,xxx,xxx	xx,xxx,xxx	
Allocation for PY-1	xx,xxx,xxx 1/	xx,xxx,xxx 1/	
Allocations through PY-1	xx,xxx,xxx	xx,xxx,xxx	
Allocation Requested for PY	xx,xxx,xxx	xx,xxx,xxx	xx
Programmed Balance to Complete after PY	xx,xxx,xxx	xx,xxx,xxx	
Unprogrammed Balance to Complete after PY	xx,xxx,xxx	xx,xxx,xxx	

^{1/} Reflects \$xxx reduction assigned as savings and slippage, and \$xxx reprogrammed to (from) the project. (Use example as applicable).

The funding status for projects authorized to use funds appropriated from the Harbor Services Fund will be displayed as shown below.

	GENERAL APPNS.	HARBOR MAINTENANCE TRUST FUNDS	ACCUM. PCT. OF EST. FED. COST
Allocations to 30 September PY-2	xx,xxx,xxx	xx,xxx,xxx	xx
Conference Allowance for PY-1	xx,xxx,xxx	xx,xxx,xxx	
Allocation for PY-1	xx,xxx,xxx 1/	xx,xxx,xxx 1/	
Allocations through PY-1	xx,xxx,xxx	xx,xxx,xxx	
Allocation Requested for PY	xx,xxx,xxx	xx,xxx,xxx	xx
Programmed Balance to Complete after PY	xx,xxx,xxx	xx,xxx,xxx	
Unprogrammed Balance to Complete after PY	xx,xxx,xxx	xx,xxx,xxx	

^{1/} Reflects \$xxx reduction assigned as savings and slippage, and \$xxx reprogrammed to (from) the project. (Use example as applicable).

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ILLUSTRATION B-2.4 (Continued)

For deficiency correction projects and modifications to existing projects with no unprogrammed balance to complete and no future non-Federal reimbursement.

Original Project

Actual Federal Cost xx,xxx,xxx

Actual Non-Federal Cost xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

Total Original Project Cost xx,xxx,xxx

Remedial Work or Project Modification

Estimated Federal Cost xx,xxx,xxx

Estimated Non-Federal Cost xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

Total Estimated Remedial or Modification Cost xx,xxx,xxx

Total Estimated Project Cost xx,xxx,xxx

For deficiency correction projects and modifications to existing projects with no unprogrammed balance to complete but with future non-Federal reimbursement.

Original Project

Actual Federal Cost		xx,xxx,xxx
Actual Non-Federal Cost Cash Contributions Other Costs	xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx
Total Original Project Cost		xx,xxx,xxx
Remedial Work or Project Mod	dification	
Estimated Total Appropriation Requ	uirement	xx,xxx,xxx
Future Non-Federal Reimbursement		xx,xxx,xxx
Estimated Federal Cost (Ultimate)		xx,xxx,xxx
Estimated Non-Federal Cost Cash Contributions Other Costs Reimbursements Purpose 1 xx,xxx,xxx Purpose 2 xx,xxx,xxx	xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx
Total Estimated Project Cost		xx,xxx,xxx

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ILLUSTRATION B-2.4 (Continued)

For projects with an unprogrammed balance to complete, no future non-Federal reimbursement, and where an additional Federal agency is involved.

Estimated Federal Cost (CoE) Programmed Construction xx,xxx,xxx Unprogrammed Construction xx,xxx,xxx	xx,xxx,xxx
Estimated Federal Cost (OFA) Programmed Construction xx,xxx,xxx Unprogrammed Construction xx,xxx,xxx	xx,xxx,xxx
Estimated Non-Federal Cost Programmed Construction xx,xxx,xxx Cash Contributions xx,xxx,xxx Other Costs xx,xxx,xxx Unprogrammed Construction xx,xxx,xxx Cash Contributions xx,xxx,xxx	xx,xxx,xxx
Other Costs xx,xxx,xxx	
Total Estimated Programmed Construction Cost Total Estimated Unprogrammed Construction Cost Total Estimated Project Cost	xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx

For projects which include beach nourishment with no unprogrammed balance to complete, no future non-Federal reimbursement, and where no additional Federal agency is not involved.

Estimated Federal Cost xx,xxx,xxx

Initial Construction xx,xxx,xxx
Periodic Nourishment xx,xxx,xxx

Estimated Non-Federal Cost xx,xxx,xxx

Initial Construction xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

Periodic Nourishment xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

Total Estimated Project Cost xx,xxx,xxx

Initial Construction xx,xxx,xxx Periodic Nourishment xx,xxx,xxx

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ILLUSTRATION B-2.4 (Continued)

For projects which include beach nourishment with an unprogrammed balance to complete, no future non-Federal reimbursement, and where no additional Federal agency is involved.

Estimated Federal Cost	xx,xxx,xxx
------------------------	------------

Programmed Construction xx,xxx,xxx

Initial Construction xx,xxx,xxx
Periodic Nourishment xx,xxx,xxx

Unprogrammed Construction xx,xxx,xxx

Initial Construction xx,xxx,xxx
Periodic Nourishment xx,xxx,xxx

Estimated Non-Federal Cost xx,xxx,xxx

Programmed Construction xx,xxx,xxx

Initial Construction xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

Periodic Nourishment xx,xxx,xxx

Cash Contributions xx,xxx,xxx
Other Costs xx,xxx,xxx

For projects which include beach nourishment with an unprogrammed balance to complete, no future non-Federal reimbursement, and where no additional Federal agency is involved (continued).

	xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx	
	xx,xxx,xxx xx,xxx,xxx xx,xxx,xxx		
Total Estimated Programmed Cons Initial Construction Periodic Nourishment	struction Cost	xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx
Total Estimated Unprogrammed Co Initial Construction Periodic Nourishment	onstruction Cost	xx,xxx,xxx xx,xxx,xxx	xx,xxx,xxx
Total Estimated Project Cost Initial Construction Periodic Nourishment		xx,xxx,xxx	xx,xxx,xxx xx,xxx,xxx

For projects which include beach nourishment with an unprogrammed balance to complete, no future non-Federal reimbursement, and where an additional Federal agency is involved.

Estimated Federal Cost (CoE)				xx, xxx, xxx
Programmed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Periodic Nourishment		xx, xxx, xxx		
Unprogrammed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Periodic Nourishment		xx, xxx, xxx		
Estimated Federal Cost (OFA)				xx, xxx, xxx
Programmed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Periodic Nourishment		xx, xxx, xxx		
Unprogrammed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Periodic Nourishment		xx, xxx, xxx		
Estimated Non-Federal Cost				xx, xxx, xxx
Programmed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Cash Contributions	xx, xxx, xxx			
Other Costs	xx, xxx, xxx			
Periodic Nourishment		xx, xxx, xxx		
Cash Contributions	xx, xxx, xxx			
Other Costs	xx, xxx, xxx			

For projects which include beach nourishment with an unprogrammed balance to complete, no future non-Federal reimbursement, and where an additional Federal agency is involved. (continued)

Estimated Non-Federal Cost				
Unprogrammed Construction			xx, xxx, xxx	
Initial Construction		xx, xxx, xxx		
Cash Contributions	xx,xxx,xxx			
Other Costs	xx,xxx,xxx			
Periodic Nourishment		xx,xxx,xxx		
Cash Contributions	xx,xxx,xxx			
Other Costs	xx,xxx,xxx			
Total Estimated Programmed Co	nstruction C	ost		xx,xxx,xxx
Initial Construction			xx, xxx, xxx	
Periodic Nourishment			xx, xxx, xxx	
Total Estimated Unprogrammed	Construction	Cost		xx, xxx, xxx
Initial Construction			xx, xxx, xxx	
Periodic Nourishment			xx, xxx, xxx	
Total Estimated Project Cost				xx, xxx, xxx
Initial Construction			xx, xxx, xxx	
Periodic Nourishment			xx, xxx, xxx	

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ILLUSTRATION B-2.6 PY PROPOSED NEW REPLACEMENT AND OTHER NEW WORK SUMMARY

Division:

	Total	Total	Total	Total				Addl	Sched	First	
Category	Proj	Fed	IWTF	HSF	Total	RBRCR	Type	Cong	PCA	Const	PY
and Proj	Elem	Appn	Appn	Appn	Non-Fed	at	Type of	Auth	Exec	Ct Awd	Divn
or Elem	Cost	Rqmt	Rqmt	Rqmt	Cost	Appl	Rpt and	Reqd	Date	Date	Rcmd
Names	\$000	\$000	\$000	\$000	\$000	Rate 1/	Status 2/	Y/N 3/	Mo/Yr 4/	Mo/Yr 5/	\$000

New replacement projects
New Deficiency Correction Projects
Resumptions
New Separable Elements of Ongoing Projects
Additional Recreation Facilities
New Increments at Reimbursable Projects

- 1/ Show the RBRCR at the applicable rate. Not applicable to deficiency correction projects.
- 2/ Indicate the type of report (Recon, EDR, Reeval) on which the Division request is based and show the latest submission, revision, or approval action and date (month and year) with respect to MSC (delegated decision documents), HQUSACE, ASA(CW), review and approval as applicable, e.g., S Jan XX for a report that has been submitted to HQUSACE, but not yet reviewed/approved, R Feb XX for a report that has been returned to the field for revision and A Apr XX for a report that has been fully reviewed/approved by HQUSACE.
- 3/ Indicate whether (Y) or not (N) the project/element requires additional Congressional authorization for the proposed construction work.
- 4/ Show the scheduled month and year for PCA execution, e.g. Apr XX.
- 5/ Show the month and year of the first construction contract award for the proposed work, e.g. Jun XX.

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ILLUSTRATION B-2.7 NEW CONSTRUCTION CHECKLIST

Sched

			Remaining		PCA	Preliminary/Basic
		Preconstruction	Benefit/	Basic	Exec S	Selection Eligibility
Project	Authorization	Engineering and	Cost	Criteria Met	Date	Criteria Met
Name	Status 1/	Design Status 2/	Ratio 3/	(Yes/No) 4/	Mo/Yr	5/ (Yes/No)

(List all new construction projects which are recommended for construction in the PY.)

- 1/ Cite Authorizing Act, date of resolution for Section 201, or completion date of the Chief of Engineers report or approved EDR, LRR or GRR as appropriate.
- 2/ The project should not be recommended if PED will not be sufficiently complete to allow award of the first construction contract during the fourth quarter of the PY, or by the end of the PY+1 if the sponsor must acquire needed real estate, or if the M-CACES Baseline cost estimate or the PMP has not been approved. Planning, engineering and design should be far enough along in the PY so that the orderly and continuous progression of construction is assured with the programmed award of the first construction contract.
- 3/ Based on applicable rate (cite discount rate and approval date of last approved economic analysis in parentheses after BCR). Footnote projects where authorization is not based on formal benefit/cost evaluation.
- 4/ Projects having an unapproved Reevaluation Report involving a significant change in project scope or cost or for addition of fish and wildlife mitigation measures will not meet the basic criteria unless the required change(s) recommended in the Reevaluation Report are scheduled for approval by ASA(CW) by 1 August of the PY-2.
- 5/ Show the scheduled month and year for PCA execution, e.g. Apr XX.

FOR ILLUSTRATION PURPOSES ONLY (To be typed as necessary

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SUB-ANNEX C-1 OPERATION AND MAINTENANCE

C-1.1. **Appropriation Title.** This annex provides guidance for preparation of the program request for all Operation and Maintenance activities under the appropriation titles: Operation and Maintenance (O&M) and Flood Control, Mississippi River and Tributaries, Maintenance (MR&T) for the Program Fiscal Year.

This appropriation funds operation, maintenance, and related activities at the water resources projects that the Corps operates and maintains. Work to be accomplished consists of dredging, maintenance, repair, and operation of structures and other facilities, as authorized in the various River and Harbor, Flood Control, and Water Resources Development Acts.

SUB-ANNEX C-2 PROJECT OPERATION AND MAINTENANCE

C-2.1. **Purpose and Scope.** This sub-annex provides policy and general procedural guidance for developing programs for the Project Operation and Maintenance (O&M), and National Emergency Preparedness programs. To provide a general framework and uniform approach for program development and justification, four funding increments have been identified. The various work items have been grouped by Work Category Code (WCC) for purposes of defining the appropriate funding increment. Guidance concerning automated data requirements for submittal of program recommendations is contained in paragraph 13 of the main body of the EC.

C-2.2. Program Development Principles.

a. **General Philosophy.** The Operation and Maintenance program path forward will incorporate new approaches to better reflect the performance outputs of the projects and a management philosophy that looks at the inter-relationships of the projects across business lines, within systems and for a long-term horizon. The key components of this new approach include:

Use of a Systems approach, the linking of projects by Systems Mission performance
Risk and Reliability, condition and consequences
Five Year Development Plan
Five Year Infrastructure Management Plans

- (1) These areas of interest have been addressed in prior budget ECs but more and better use of such tools is needed to realize efficiencies of employing these management tools in our budgeting and program execution. Our program plans must be rolled up and examined holistically from a system and/or regional perspective to ensure consistent reliability, goals, mission execution, lowest sustainable investment levels and acceptable or shared risk levels are considered. The goal is to place all the projects on the same basis for the establishment of priorities based on benefits and risks.
- (2) The O&M program should be developed from an asset management perspective which incorporates an emphasis on long range planning and return of value to the nation through the 5 year funding stream and Five Year Infrastructure Management Plans. The 5 year funding stream represents a comprehensive assessment of total investment requirements from all appropriation account (Investigations, Construction and Operations & Maintenance) while the Infrastructure Management Plans are currently focused on O&M program requirements. It is in the national interest for the Corps of Engineers to ensure reliable mission achievement at our operating projects in order to return value back to the nation. The projects were built to meet a national need through prioritized investment of Federal funds. In recognition of this, the Corps of Engineers maximizes the value return to the nation by ensuring reliable performance, and maximum sustainable operating life at the lowest sustainable level of investment.
- (3) The 5 year funding stream and Five Year Infrastructure Management Plans represent the collective technical judgment of the Operation & Maintenance Community of Practice, Business Line Managers, and the Engineering & Construction Community of Practice with regard to optimal asset replacement cycles, and best operation and maintenance practice. Investment requirements are informed by asset condition assessments and failure risk assessments which affect estimates of

remaining equipment life, future maintenance and repair requirements and re-capitalization plans. Equipment condition, failure risk and replacement cycles affect the O&M requirements and should be accounted for within Five Year Infrastructure Management Plans. Asset life extension through prudent O&M practice can provide return to the nation beyond the originally expected life of the project and serves the public interest. In addition, ensuring that our stewardship of these assets is accomplished at the lowest sustainable investment level maximizes the net value returned from our missions.

- (a) Established Criteria is defined as the standard with specific guidelines which are formulated by the Administration which clarify and describe "justified levels of service."
 - (b) Justified Level of Service is defined as the delivery of a supportable and defendable amount or degree of project benefits consistent with authorization, use, and administration policies.
- (c) Lowest Sustainable Investment is defined as the lowest investment level that a prudent manager would select, balancing between short and long term economics and considering overall availability of resources. Sustainability is key in that we still ensure the project meets or exceeds project life expectations and meets or exceeds changing environmental requirements for compliant operation.
- b. **Budgeting by Systems.** The O&M plan to date has grouped individual projects by "basin codes" for geographically defining projects into regions. The Systems approach further refines the collection into systems that are functionally based. The hierarchy of order are the Systems with the Hydrological Unit Code (HUC) sub-regions assigned to the Systems. The initial set of Systems has been developed to consider the multiple purpose aspects of the O&M program. The National Academy of Public Administration's report "Prioritizing America's Water Resources Investments: Budget Reform for the Civil Works Construction Projects" illustrated that our individual project budget approach would not adequately address system failure of the New Orleans levee system because only a few levees failed while the majority of pieces of the system were effective...the weakest link concept. On a positive note, a system analysis could achieve contract efficiencies not realized in an individual project approach. The program is to be formulated on less consolidated projects or systems than previously presented. The 21 USGS Regions presented in FY07-08 are too broad for this purpose. **See Table C-5.1** for the O&M Systems that will be used in the PY. We will continue to assign projects to a HUC Sub-Region using the 4-digit code. The HUC Sub-Regions have been assigned within the initial list of O&M Systems that are further aggregated into 14 regions.
- (1) The Systems have been developed using a standard, rational, logical approach, considering all business purposes.
- (2) Each System has the HUC sub-regions assigned. Some HUC sub-regions are included in more than one System. All projects in a HUC sub-region do not have to be assigned to one System, but should be assigned to the System that it belongs.
- (3) The end result is a set of Systems for O&M, with the HUC sub-regions and Corps of Engineers O&M projects assigned.
- (4) "Regions" have also been associated with the Systems to allow greater aggregation. These regions generally match the RBCs.
- c. **Five and Ten Year Plans.** Basic design criteria for water resources improvements generally include estimates of repair and replacement frequency and effective project life. Major costs such as spillway gate replacements, navigation lock gate replacements, hydroelectric power generator rewinding

and turbine replacement certainly need to be anticipated. Construction completion schedules for additional projects coming on line also need to be incorporated within O&M budgets (in some cases recapitalization replaces equipment with better technology that requires lower O&M needs, but may not be as robust and therefore shortens re-capitalization cycles). However many projects in the Corps inventory are long past their design life. A strategy to formulate long range maintenance funding plans must take into account unforeseen risk from fluctuations in weather conditions such as hurricanes and other major storms which often impose sudden, unanticipated requirements for maintenance and service restoration. Prediction of operational requirements requires consideration of equipment condition assessments, shifting public needs or areas of emphasis, geographic shifts driven by regional trends in commercial activity and other economic factors. And, finally, national priorities for federal investments are subject to frequent and radical fluctuations. Accordingly, the 5 year funding stream and Five Year Infrastructure Management Plans must not only be developed as a project-specific long-range plan, but also be based on sub-plans recommended by business lines. In addition, these project plans must be rolled up and examined holistically from a regional and/or system perspective to ensure consistent reliability goals, mission execution, lowest sustainable investment levels and acceptable or shared risk levels are taken into consideration.

- d. **Mission and Systems Performance.** In prior years, we strived to develop performance metrics based on output performance. A Corps-wide discussion of these outputs is scheduled for later in 2007. Progress in the development of those metrics would need to be furthered later in the PY budget development or in the FY10 budget. Our budget and system performance plans must account for performance output dependencies. For example, closure of one lock in a system would affect other lock passages or reservoir operations on one project could affect other downstream reservoirs. Consideration of systems in the operation and functioning of our projects will achieve better service to the public.
- e. **Risk and Reliability**: Relative Risk Matrix (RRM). Project performance is not a consistent assured output. Project conditions have inherent risk and reliability that affect the performance outputs. The FY08 budget EC required a first cut at assigning a risk evaluation of our budget packages. The risk and consequence evaluation methodology should be based, similar to that done for Dam Safety analyses, in the evaluation of facility conditions (risk) against the consequence of failure (consequence or performance). A Relative Risk Matrix would allow a consistent approach to risk/consequence. Work packages to preclude failure of high consequences would be readily apparent. This matrix would assist in the prioritization of work/budgeting. The analysis is to propose common, risk-based economic and life safety metrics for projects that protect life and property. These should be consistent with the construction program's dam safety assurance projects, dam and levee seepage control projects, static instability correction projects, and deficiency correction, reconstruction, and new construction projects for flood and coastal storm damage reduction efforts. The goal is to place all the projects on the same basis for the establishment of priorities based on benefits and risk.
- f. Infrastructure Management Plan. The Infrastructure Management Plan (IMP) brings the management tools above together in laying out prioritized risk and performance based work over a short and long term to achieve desired end-state performance metrics. The synergy of system development could require budgeting certain tasks in the same timeframe. For instance dredging contracts for projects A and B could be advertised together if conducive to a joint solicitation to obtain better bids or electrical panels in two nearby reservoirs could be more optimally scheduled. The management plans should also lay out periodic dredging requirements that can be projected for out-year budgets to assure annual system outputs and stakeholder buy-ins (recognizing budgetary rules and inability to commit to future budgets). This could identify a higher budgetary priority and more system outputs for lower use projects that require infrequent investments. For example, a project with 400,000 tons moved annually but dredged every 5 years could be a better investment than a project with higher annual tons but dredged

each year. For example, for Navigation the plans would include all harbor maintenance work that is iustified by the resulting commercial transportation savings or by benefits to subsistence use, public safety, or public transportation as described in the Navigation appendix. The IMP is to cover the period FY 2009-2013 and be modified annually for subsequent budget submittals. The Infrastructure Management Plan will be consistent with the 5 year funding stream including the PY Budget Request. The Infrastructure Management Plan will be based on sub-plans developed by Business Line Managers for six primary missions (Flood & Storm Damage Reduction, Navigation, Environmental Stewardship, Water Supply, Hydropower, and Recreation). The Infrastructure Management Plan should be jointly developed and improved within the Operations Community of Practice. The Infrastructure Management Plan must reflect sound engineering, construction, operation and maintenance state of practice (reliability centered maintenance, condition assessments, equipment mortality studies, predictive maintenance, etc.) and continually honed to achieve the lowest sustainable O&M investment level. Accelerated replacement cycles within the 5 year funding stream may affect O&M needs within the Infrastructure Management Plan (i.e. replacement versus continuing high outage and repairs on failing equipment). The O&M budget submission should be consistent with the 5 year funding stream and the Infrastructure Management Plan. The 5 year funding stream and Infrastructure Management Plan both reflect planned investments for a long range five year period.

For the PY, each MSC will develop a proto-type IMP for one System. The IMP should not be for the most complex System and conversely not for the simplest System. These IMPs will be evaluated and used to develop the template to be applied for all Systems.

An IMP will be developed for the O&M Systems implemented in this EC. Each IMP will identify the current performance level or target and the 5 year end-state performance target. Ultimately, the overall end-state performance could be beyond the five-year planning horizon. For example, it may take more than five years to reach the target of reducing unscheduled closures at a navigation lock. The IMP should consider the various business activities performed within the System. Each Business Line will have a section to itself, and the IMP will have a summary section addressing comprehensive O&M activities. The relationships of the different business lines to each other should be addressed. For example, the dam at a project not only serves to create a navigation pool, but it is also used for municipal water supply and for water-based recreational opportunities. The IMP will include the major assets or features of the System and the relationship of the assets to the business lines. It will include the performance metrics and targets for the different business lines. The IMP will identify the risk and reliability factors for the major assets based on the different business lines condition assessments, with the condition and consequences addressed. The IMP will address different funding scenarios, such as a likely level to maintain the current condition, an optimal level to begin addressing the most critical items to begin increasing performance, and a "recommended" or elevated level to address critical condition needs, to buy down risk at a faster rate. The funding will be tied to achieving the targeted end-state for performance for the five years. The IMP will include stakeholder coordination and expectations. The MSCs will coordinate with other MSCs if required. For example, the IMP for the Mississippi River should address the relationship and impacts of the Missouri River as it is a provider of water flow to that waterway.

The IMPs submitted for PY will be used to develop a standard format template for future use for IMP.

Each MSC will present to HQUSACE and ASA(CW) their individual IMP on 21 August 07.

g. **Dam Safety**. Most Dam safety related work items are below. Site specific conditions must be considered when determining costs for each project, following collaboration between the District Dam Safety and Operations experts. The table is a guide to cover many recurring dam safety program activities. However, it is not a comprehensive list and additional dam safety work items may be programmed.

O&M funded dam safety actions shall be prioritized based on risk. Budgeted dam safety items consider the performance history, potential failure modes, and severity of adverse consequences associated with each operating project.

Operating projects which have been evaluated under the Screening for Portfolio Risk Assessment (SPRA) process shall identify the Dam Safety Action Classification assigned by HQUSACE. See ANNEX B CONSTRUCTION AND FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES - Dam Safety Assurance & Seepage/Stability Correction Program, paragraph B-2.5, Table B-1 for DSAC definitions.

Dam Safety Work Items/Activity:

Minimum Instrumentation Data Collection & Evaluation

Supplemental Instrumentation Data Collection & Evaluation

Emergency Action Plan Notification List Updates

Emergency Action Plan Revisions

Dam Safety Emergency Exercises

Interim Remedial Measures Planning (e.g. Coordination for Operating Restrictions

Inundation Map Updates

Seismic safety Re-evaluations

Hydrologic Reevaluations

Hydraulic Steel Structure Inspection & Testing

Periodic Inspections (PI)

Physical Surveys in Support of Pls

Stilling Basin Inspections in support of PIs

Sedimentation Studies

Tainter Gate Testing

Dam Safety Training

Water Control Management Studies

O&M Manual & As Build Drawing Updates

Project Security Plans

Instrumentation Repairs & Replacement

Foundation Drain Cleaning

Critical Relief Well Maintenance

Other Relief Well Maintenance

Dam Safety Program Tool data Updates

Screening for Portfolio Risk Assessment (Each District shall screen 35% of their inventory in FY 09)

h. Inspections of Completed Work (ICW) - Flood Damage Reduction and Federally Authorized Shore Protection Systems and the Levee Safety Programs. This section provides guidance to develop the PY budget activities for these Programs operated and maintained by non-Federal sponsors, who have responsible for operations, maintenance, repair, replacement and rehabilitation (OMRR&R). Guidance contained in the EC will be used in conjunction with current program implementation guidance when preparing budget submissions for PY for the following inspection program accounts:

- Inspection of Federally authorized, locally maintained Systems under the Inspection of Completed Works (ICW), Operation and Maintenance, General (O&M), appropriation category;
- Inspection of Federally authorized, locally maintained Systems under the Inspection of Completed Works (ICW), Flood Control, Mississippi River & Tributaries (MRT), appropriation category;
- Inspection of non-federal Systems under the Rehabilitation and Inspection Program (RIP), Flood Control and Coastal Emergencies (FCCE) appropriation category.
- (1) Operations and Maintenance (O&M) funding of federally maintained levee safety actions or authorized Hurricane Shore Protection Systems shall be prioritized based on risk. Budgeted safety items consider the performance history, potential failure modes, and severity of adverse consequences associated with each operating project. Inspections of Federal and Non-federal protection systems will be performed in accordance to current policies and direction as established by HQUSACE. Existing site conditions must be considered when determining costs for each project, following collaboration between the District ICW and Levee Safety Program Managers and Operations experts.
- (2) Beginning in the PY the type of inspections conducted and the inspection intervals for all flood damage reduction Systems in the ICW, MR&T and RIP inspection programs will be in accordance with the inspection intervals shown in Table C -1. For the PY budget submission districts should assume that all national levee database GIS data collection activities and Phase I & II I-wall analyses requirements will have been completed and that System risk assessments will be centrally funded by HQUSACE. Budget Increment guidance for Levee Safety Program inspection activities are at Appendix III-5, Budget Increments and Ranking.

Table C-1 Inspection Intervals & Budget Criteria For Flood Damage Reduction Systems				
Current Land Use in the Protected Area*	Project Design Event	Interval of Inspection**	Type of Inspection	
Urban/Rural/ Agricultural ¹	100 year event or greater	Annual	Routine	
		5 yr	Periodic Inspection ²	
		TBD ³	Risk Assessment ⁴	
Urban/Rural	50 to 99 year event	Annual	Routine	
		5 yr	Periodic Inspection ²	
		TBD ³	Risk Assessment ⁴	
Urban/Rural	10 to 49 year event	2 year	Routine	
Agricultural	5 to 99 year event	2 year (rating dependent)	Routine	

^{*} For combined urban, rural, and agricultural levee systems the higher standard governs.

^{**} Consider more frequent interval for levee with water on it all of the time.

^{1.} This applies to high economic consequence agricultural regions.

^{2.} Federal Projects/Systems only.

^{3.1&}lt;sup>st</sup> round of risk assessments will be centrally funded by HQ, but the districts will have to program per HQ direction.

- Risk Assessment for non-Federal Projects only if directed and funded by Congress;
 Initial Risk Assessment for the Federal Projects will be budgeted by Corps Headquarters.
 For increment funding levels see Appendix III, "Flood and Coastal Storm Damage Reduction Business Line"
- i. Relationship to Program Execution. Good program execution is an essential ingredient in securing the resources needed to ensure a viable O&M program and thereby continue to provide the Nation with the benefits for which water resources projects were constructed. Performance of the program is assessed through the Office of Management and Budget's ExpectMore.gov process. Together with OMB, the performance of the program will be assessed and accountability for improvement managed to assure the program is working well for the American people. The Program Assessment Rating Tool, or PART, for short, is a questionnaire designed to help assess the management and performance of programs. It is used to evaluate a program's purpose, design, planning, management, results, and accountability to determine its overall effectiveness. Therefore, development of the program is directly related to program execution. It is imperative to develop a sound and realistic program that can be executed as scheduled in accordance with commitments to customers. The programming process described in this annex has been designed to facilitate both program development as well as execution. If the procedures outlined in this annex are implemented in a consistent manner throughout the Corps, the result should be: (1) a credible program that can be defended within the Administration and Congress, (2) a sufficient allowance of O&M funds and (3) a high degree of fiscal performance.
- j. Operations (Work Category Codes 601XX-608XX). All operations features should be closely examined minimize the required investment levels to reduce costs wherever possible. While there may be some cost fluctuation in investment needs among individual projects, the goal is to reduce, or at least constrain, the aggregate total growth of operations costs in the MSC to no more than inflation. Efficiency improvements should be employed to reduce operations costs, where possible.
- k. **Maintenance (Work Category Codes 611XX-618XX).** Prudent stewardship of available resources is essential to preserve the existing infrastructure. The growing and aging inventory of projects with a resources constrained environment necessarily dictates that resources be concentrated on the most prudent and necessary maintenance features of the program to the maximum extent possible. Just as with operations, the maintenance features should be reviewed and efficiency measures employed to reduce investment needs to the lowest sustainable level.
- I. **Priorities.** The MSC and district commanders must ensure that the program request provides balanced and equitable treatment to all Business Lines (Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply) from a regional, system and watershed perspective.
- m. **O&M Cost Savings Initiative**. This initiative is a methodology that has been developed to reduce the cost of operating and maintaining the Nation's water resources infrastructure, while still providing justified levels of project services. This cost reduction initiative, along with other locally generated cost saving measures, and using a Systems approach should be used to seek more efficient operation and maintenance of projects and to help reduce costs. The savings generated by these initiatives would be applied toward reducing the inventory of unfunded maintenance. All Business Lines should be continually reviewed to achieve cost savings under these initiatives.

C-2.3. Program Development and Review Process.

- a. Work Category Codes (WCCs). The Civil Works O&M program development process reflects the Corps compliance with the requirements of the Government Performance and Results Act of 1993 (GPRA). Therefore, the program will be submitted in a form that reflects the primary business processes/functions established for the O&M mission. These Business Lines are Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply. In addition, each budget activity will be tied to a business performance measure and goal for the program year. The Work Category Codes (WCCs) are aligned by the operation and maintenance areas and by the primary Business Lines within the operations or maintenance areas. The tables are provided in Sub-Appendix D-4 to aid in developing budget activities aligned with appropriate Business Lines, WCCs and sub-WCCs.
 - (1) Table C-4.1 lists WCCs and sub-WCCs in numerical order.
 - (2) Table C-4.2 lists WCCs and sub-WCCs in alphabetical order.
- (3) Table C-4.3a is a matrix that displays the operations Work Category Code structure by each Business Line (embedded Excel file).
- (4) Table C-4.3b is a matrix that displays the maintenance Work Category Code structure by each Business Line



Table 4.3ab.xls

- (5) Table C-4.4 describes and defines each WCC for operations activities.
- (6) Table C-4.5 describes and defines each WCC for maintenance activities.

b. Joint Activities - Joint Costs.

- (1) Joint Activities are activities that cannot be assigned to one specific Business Line at O&M multipurpose projects with power (Cat/Class 300) with multiple authorized purposes. Joint Cost is the cost assigned to Joint Activities. At non-Cat/Class 300 projects, activities previously considered as "Joint Activities" will be included in the project's predominant business line.
- (2) The districts will use P2-Primavera Project Manager to assign the appropriate Work Category Codes to request funds for joint operations activities and for joint maintenance activities at Cat/Class 300 multipurpose with Hydropower projects ONLY. Districts must ensure that joint activities are only assigned to the Hydropower Business Line in P2. The districts must also ensure joint activities are assigned the appropriate phase code (OJ or MJ) in P2 and are placed in the appropriate increment. Joint activities designated as operations and maintenance at multipurpose Cat/Class 300 projects should use Work Category Codes of 606XX for operations and 616XX for maintenance.
- (3) The Hydropower business line will contain two sub-ceilings for O&M activities: hydropower specific and hydropower joint for Cat/Class 300 projects. The Hydropower Business Line Managers at each level will manage all Cat/Class 300 joint activity budget items to ensure accountability of joint activities across business lines. A joint ceiling will be established by HQUSACE that represents the

program's sum total of the O&M joint activities. Each MSC is responsible for ensuring that the most critical O&M joint activities are included in the Initial Increment at Cat/Class 300 projects. These joint activities will be ranked separately by the Hydropower Business Line Manager with input from other Business Line Managers as appropriate. Before submittal of the O&M budget to OMB, joint costs will be "displayed" as business line costs based on the current statutory cost allocation table in P2. However, the joint cost package will NOT be split and allocated across business lines within P2, but will instead remain as a single package or budget activity within the Hydropower Business Line.

- c. **Performance-Based Programming.** Performance measures are described in the Appendices for the Business Lines. Performance data according to these measures will be entered in OFA for each budget item for which funds are requested as explained in paragraph 11 of the main body of this EC. In addition, in accordance with paragraph C-2.16, each budget item will be assigned to a Business Line increment. The districts may cite different performance levels in the funding arguments for different budget activities. For example, funding of the highest priority budget item in the Business Line initial increment may be required to attain 80 percent availability; funding of the next highest priority budget item in a subsequent Business Line increment may enable the project to attain 95 percent availability.
- d. **Risk-Based Condition Assessments.** Risk-based and reliability condition assessments are described in the Business Line appendixes.
- e. **Use of Work Category Codes to Program for Business Lines.** The Work Category Codes are listed as follows:

601XX Operation for Navigation Function

602XX Operation for Flood Damage Reduction Function

603XX Operation for Hydropower Function

604XX Operation for Environmental Stewardship Function

605XX Operation for Recreation Function

606XX Joint Activities for Operations (Cat/Class 300 projects only)

607XX National Emergency Preparedness Program Function

608XX Operation for Water Supply Function

611XX Maintenance for Navigation Function

612XX Maintenance for Flood Damage Reduction Function

613XX Maintenance for Hydropower Function

614XX Maintenance for Environmental Stewardship Function

615XX Maintenance for Recreation Function

616XX Joint Activities for Maintenance (Cat/Class 300 projects only)

617XX Reserved

618XX Maintenance for Water Supply Function

The programming process will allow the estimated costs for a Business Line to be identified. For example:

(1) A Cat/Class 100 Navigation project would have all of its primary purpose budget activities programmed under the 601XX and 611XX WCCs. These WCCs will identify the total navigation costs for the Navigation Business Line at this project. Separable costs specific to the Recreation and Environmental Stewardship Business Lines would be charged to the WCCs for those business lines.

- (2) A Cat/Class 200 Flood Damage Reduction project with Recreation and Water Supply as authorized project purposes would have all its primary purpose budget activities programmed under the 602XX and 612XX WCCs. All Recreation-specific budget activities would be shown in 605XX and 615XX WCCs for Recreation, as appropriate. All Water Supply-specific budget activities would be shown in 608XX and 618XX WCCs for Water Supply, as appropriate. Work Category Codes 60210 and 60221 will no longer be used for Water Supply activities.
- (3) A Cat/Class 300 Multiple Purpose Project with Power will have its specific Hydropower budget activities shown under the 603XX and 613XX WCCs. Budget activities representing specific activities for Navigation, Flood Damage Reduction, Recreation, Environmental Stewardship, or Water Supply will be budgeted under the WCCs for those specific business lines. The budget for Joint Activities (work which cannot be assigned to a single business line) will be shown under the 606XX and 616XX WCCs and will be coded as an "OJ" or "MJ" phase code. This allows Joint Activities at a project to be entered and managed as a single budget activity. The total budgeted amount for Joint Activities can later be "displayed" across specific Business Lines in accordance with the statutory O&M joint cost allocation formula. This "display" of joint costs will not result in a single budget activity being split into multiple activities across multiple business lines. However, this "display" of programmed costs allows the Corps to identify the specific costs for Hydropower O&M, plus that portion of the costs for Joint Activities allocated to Hydropower. This is important because the Federal Power Marketing Administration generally reimburses the Treasury for the power costs incurred by the Corps, which includes the portion of Joint Activities that can be allocated to Hydropower. Following is an example of a joint budget activity at a Cat/Class 300 project: During the programming process, a roof repair budget activity for an administration building at a multipurpose project would have the entire programmed cost entered under a single budget activity under WCC 61610. (Note: Power cost repayment accounting is a separate activity and should not be confused with the programming and execution WCC procedures.)
- f. O&M Power Costs in the Pacific Northwest. Pursuant to the 5 December 1997 Memorandum of Agreement between the Department of Energy, acting by and through the Bonneville Power Administration (BPA), and the Department of the Army, entitled "Direct Funding of Power Operations and Maintenance Costs at Corps Projects", BPA will direct fund O&M Power Costs for Corps projects with hydroelectric power generation facilities for which BPA is the designated Federal power marketing agency. O&M Power Costs include hydropower-specific O&M costs, the power portion of joint O&M activities, and power capital items. The Northwestern Division will prepare an Annual Power Budget in conjunction with the Bonneville Power Administration that specifies O&M Power Costs for each applicable project. A five year Power Budget which includes annual power budgets for five consecutive fiscal years will be developed in conjunction with the Bonneville Power Administration by the Northwestern Division for purposes of inclusion in the BPA rate base and to fund the Corps O&M power costs. O&M Power Costs in the Pacific Northwest will be entered into P2-Primavera Project Manager under a separate type of funds classification (Bonneville Power Appropriation), and submitted concurrently with the O&M program submittal to HQUSACE, in the appropriate funding increment. In addition, budget activities for joint activities will be split into two budget activities to reflect the appropriate allocation of joint activity costs between the O&M and O&M Power Cost appropriations. Budget activities for the power portion of large capital joint activity costs require specific dispensation from ASA(CW) to be funded within the O&M appropriation.
- g. **Budget Activities Primary and Supporting Costs.** In developing a budget activity, all costs required to accomplish the work should be included. This includes the cost of the primary activity as well as all supporting activities that are required to accomplish the work. For example, a dredging budget activity should contain the cost of the actual dredging process plus the costs for before and after

surveys, engineering and design, real estate requirements, contract supervision, water quality monitoring, etc. In this way, a complete and stand-alone decision package is developed, thereby avoiding situations where the primary work is funded without the necessary supporting activities, or vice versa. This process applies to all WCC-based budget activities.

- h. Operation and Maintenance Budget Activities. A continuing effort is required to standardize designations of budget activities as either operation or maintenance-related. To provide uniform guidance for the appropriate placement of such budget activities within operation or maintenance Work Category Codes, detailed definitions of the operation and maintenance elements of each WCC are provided in Table C-2.4. In addition to these definitions, the following general principles should be applied. Operation budget activities may include maintenance that is of a recurring nature, and is integral to continued project operation. Examples include things such as custodial services, removing ice and snow, debris, trash, cleaning; relamping lighting fixtures, routine testing of lubricating and hydraulic oils; replacing packing in valves and glands; replacing electrical brushes and touch-up painting, etc. This work is performed on an annual basis, typically by hired labor or small contract (service contract, purchase order, etc.). All other maintenance work, specifically, non-recurring and non-routine maintenance, should be placed under maintenance Work Category Codes. It is the nature of the work itself which dictates where it should be placed. That is, annual recurring costs for annual recurring work, such as custodial services, belongs under operations Work Category Codes, while annual recurring costs for non-recurring work items, (e.g., minor roof repairs one year, placing signs and markers, painting of guardrails, wall striping, repainting comfort stations, etc.), belong under maintenance Work Category Codes.
- i. Appropriate Levels of Budget Activity Justification. In a performance-based program, every budget activity must relate to an improvement in performance or results, that is, in the outputs or outcomes created by the Business Line. These linkages and the necessity of the budget activity to performance goal attainment must be made clear to all levels of reviewers, both internal and external (e.g., OMB or Congress) to the Corps. The impacts of the budget activity on specific areas of customer service, project performance, infrastructure investment, personnel or public safety, the local community, statutory requirements, or other considerations should be included in the funding argument if not covered in the performance measures.
- j. **Well-Written Descriptions and Funding Arguments.** Care should be taken to write all descriptions and funding arguments clearly and concisely so that the reader can understand and appreciate the work for which funds are being requested. Well-written justifications are essential to convince reviewers who are not familiar with the work to fund your needs.
- C-2.4. **Funding Considerations.** Several adjustments are made to your program after it has been submitted to HQUSACE based on coordination with ASA(CW) and OMB staff. These adjustments depend upon what is included in your program. The MSC's should ensure that every legitimate O&M need is included and properly prioritized within each Business Line so that their final program is based on the complete needs of the MSC.
- C-2.5. **Special Interest Items.** In order to highlight specific activities, the following special interest items have been defined. HQUSACE may add to or delete special interest items as needed in each Program Year. Special interest items are not additional funding levels and any given budget activity may fall into all, none, or any number of special interest item categories. Activity codes have been added to P2-Primavera Project Manager for each special interest item required for the PY budget.

Table C-2-1 Special Interest Items	
Environmental Management Systems	
Correction of Significant Environmental Compliance Findings	

A description of each of these special interest items follows:

- a. **Environmental Management Systems.** Items related to implementation and/or operation of Environmental Management Systems (EMS) are to be highlighted in order to track budgeting and execution of budget activities for EMS related work. These EMS items will be recorded using the appropriate existing Work Category Codes in accordance with current practice, and will be tagged with this special interest item indicator code.
- b. Correction of Significant Environmental Compliance Findings. Items related to corrective action for a significant environmental compliance finding are to be tagged using this special interest item indicator code.
- C-2.6. Operation and Maintenance Unfunded Requirements Reporting Requirements. District and MSC offices are encouraged to develop complete operation and maintenance programs so that they might better anticipate future program management requirements. It is important that all justified requirements funded or unfunded, be identified, so that in the event that additional resources are made available for infrastructure preservation, appropriate funding prioritization decisions can be made about budget activities which may originally have appeared to be below the funding level. Identification of unfunded requirements is critical in order to understand and quantify the condition of the water resources infrastructure, and the quality of associated services. It is equally important that the identified unfunded requirements be a realistic assessment of requirements, and not a "wish list" of nice-to-have enhancements. All requirements within district capability should be included (i.e. they must be executable within the Program Year).
- a. **Unfunded Requirements**. Unfunded Requirements are defined as those unfunded operation and maintenance work items which are required and should have been funded in the PY in order to provide reasonable assurance that project performance goals can continue to be met and that undue risk of failure is avoided. It may occur in any Business Line and is not limited to infrastructure-related budget activities. Deferred maintenance of a project feature or deferred update of a project exhibit for instance, may both be valid examples of unfunded requirements.
- b. **High Priority Unfunded Requirements**. High Priority Unfunded Requirements are a primary concern of respective congressional delegations. MSCs need to be prepared to provide a prioritized listing of unfunded requirements if additional resources were to be made available.

C-2.7. Cost Estimates.

a. **Projections.** Field offices will compute costs based on PY-1 cost projections. All cost estimates will be projected to levels based on inflation factors and assumptions provided in the main part of this EC.

b. **Rounding.** All cost estimates shall be rounded to the nearest one thousand dollars (\$1000). Because of serious complications in aggregating functional, regional and national summaries, it is imperative that everyone at all levels strictly adhere to this requirement without exception.

C-2.8. Rank Assignments.

- a. **Work Groupings.** The smallest increment of work for O&M programming purposes is a work item or task. Examples of tasks are trash pickup at a recreation area, mowing a levee, or painting a lock gate. In P2 tasks at the same project and within the same Work Category Code may be grouped into budget activities if they are of comparable criticality or priority, for example, maintenance of 15 of 30 recreation sites during May through September or painting lock gates at locks 1-4.
- b. **Rankings.** As described in paragraph C-2.16, budget activities in each Business Line will be assigned to a maximum of four Business Line increments. Ranking of individual budget activities will be assigned by the district and MSC within each Business Line. For each project all Increment 1 budget activities will be ranked higher than the budget activities in the next-added Business Line increment. A budget activity in the next-added increment for a high value project/activity can be ranked higher than the initial increment budget activities at less valued projects/activities. To better ensure appropriate rank, each budget activity will contain a code indicating the Business Line increment where the budget activity belongs.
- c. **Final Rankings.** Development of final rankings should be an iterative process that employs all the knowledge and support tools available to the decision maker. In developing the national program, HQUSACE will generally rely on the final rankings assigned by the MSC in OFA provided they meet the business line increment definitions and overall policy. It is therefore important that rank assignments be made in accordance with the relative importance of the work so as to ensure that the highest priority activities can be accomplished within available resource limits. Ranking of work items within the business line increments will follow the priorities for operation and maintenance work items. Each budget activity should be assigned to the appropriate Business Line increment based on consistent and objective application of the Business Line increment definitions and performance measures established for the applicable Business Line. See Business Line Appendices for guidance on ranking budget activities for each program.
- C-2.9. **Navigation Projects.** Beginning in FY 1987, all shallow-draft harbors previously financed as a part of a through-waterway in the inland river systems were, and will continue to be, programmed as separate projects. These projects include all activities on each spur or side channel of the old project and exclude only those activities on the main through channel.
- C-2.10 **Bridge Performance**. Bridges are vital to the nation's highway and transportation systems, especially high-level highway bridges over waterways and canals. Bridges are also mission critical for flood damage reduction projects as well as for public access in our recreation and environmental stewardship lands. The criteria used to prioritize the funding of maintenance of Corps-owned bridges include (1) Federal Highway Administration's (FHWA) Sufficiency Rating, (2) Mission Critical Bridge Structures, such as service bridges to dam control towers (3) Environmental Issues, such as lead based paint remediation, (4) Life and Public Safety Concerns and (5) General Bridge Condition Appraisals.
- C-2.11. **Marginal Projects.** For projects, or segments of projects, that have marginal benefits, special care should be taken to ensure that all resource requests are economically justified. If sufficient study detail is not yet available to develop appropriate funding recommendations, program requests should be

held to levels below historic amounts. Major repairs not essential to structural integrity in the PY should be postponed. Operation activities should be constrained to the lowest level possible.

- C-2.12. **Evaluation Reports**. Dredged Material Management Plans (DMMP's) for dredged material disposal facilities at operating navigation projects will be funded in the O&M account. Evaluation Reports and/or assessments for deficiency correction, and Rehabilitations and Replacements are funded in the O&M account.
- C-2.13. **Cultural Resources.** (NAGPRA/Curation). Funding requirements for activities to ensure compliance with Section 5 7 of the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601) and with 36 CFR Part 79, Curation of Federally-Owned and Administered Archeological Collections, will be budgeted as a Remaining Items activity thus should not be included in the general MSC program submittal. Specific guidance on program year activities will be provided in annual guidance by the Mandatory Center of Expertise (MCX) on how and when to make requests for funding of activities to ensure compliance with Section 5 7 of NAGPRA and with CRF Part 79. All of the requirements will be aggregated by the MCX into the program as a separate line item. All annual maintenance curation costs and cultural resource management costs, other than NAGPRA, should be included in the appropriate Work Category Code, within project work packages.
- C-2.14. **Special Recreation Use Fees (SRUF).** Funds generated from collecting recreation use fees are returned in O&M appropriations for operation, maintenance and improvement of recreation sites and facilities. The construction of new recreation facilities or renovation and/or improvement of existing facilities may be accomplished with these funds if the goal of providing quality public recreation experiences with the most cost efficient management of water resource development projects can be met. Overall budgetary limitations should be carefully considered in determining what activities will be financed with these funds. Routine operation and maintenance of existing sites and facilities should not be compromised to finance new construction or facility improvements. SRUF funded work previously programmed in WCC 60512 and 61512 should now be programmed in WCC 60511 and 61511.
- C-2.15. **Program Development**. The Corps Civil Works program will be developed in increments by Business Line from a zero base. The proposed work included in each increment will be evaluated against the performance criteria specified for each Business Line. The initial increment should provide the greatest benefit for the investment consistent with performance measures. Each subsequent increment should be ordered by the performance benefits to be gained versus the cost of the work contained in the increment.
- C-2.16. **Business Line Increment Limits**. For consistency in the formulation of the Civil Works budget across Business Lines, across appropriations and across Districts, guidelines on the development of work increments are presented in the Definition/Glossary section of the main text and within the business line annexes. Remember that increments can facilitate ranking, but they are not used to rank or prioritize activities. Performance metrics will be used to set funding priorities.

Table C-2-2 is the 5-year average of the O&M President's Budget amount by MSC. The philosophy is to use Increment 1 as the minimum level to account for critical routine activities (both operations and maintenance) and to use Increment 2 to account for critical non-routine activities on our high performing projects.

Table C-2-2 Total for Increments 1 & 2 by MSC based on 75 percent of prior five fiscal year Budgets (Dollars in Thousands)			
MSC	Amounts		
LRD	274,649		
MVD	291,186	·	
NAD	148,508	·	
NWD	179,427		
POD	14,320		
SAD	240,237		
SPD	90,341		
SWD	227,578		
TOTAL	1,466,245		
		·	

C-2.17. **Recreation Service Level**. The Recreation Business Line initial increment has been defined by service level. Accordingly, the electronic tool developed to support Recreation performance measure calculation, Rec-BEST, is also based on service levels. Performance values are calculated for the initial service level, as well as for each budget activity created above initial. Recreation budget activities will be evaluated individually based upon their performance values. All the budget packages will be grouped into the corresponding increments in P2, but separated by "Budget Item" (BEST_ID) in P2 to assure the proper performance measures can be linked to each budget item in P2. Please see Appendix VI, Recreation, for additional information about budget development for the Recreation Business Line.

C-2.18. Environment-Stewardship Budget Evaluation System (E-S BEST). This web-based tool has been developed for field use in calculating Environment-Stewardship performance measure outputs for O&M activities. E-S BEST must be used to support ranking PY Environment-Stewardship O&M and MR&T budget packages. Using E-S BEST, Environment-Stewardship budget activities (as defined by Work Category Codes) may be combined to create budget packages. A budget package is to contain all the budget activities that are necessary to produce a specified and quantified performance output. Performance outputs values will be calculated for all budget packages created in E-S BEST, using information provided by the Operations Manager or appropriate project budget developer. E-S BEST will support the ranking of all the Environment-Stewardship budget packages at the District, MSC, and HQ levels. Environment-Stewardship budget packages will be grouped into increments in accord with the definitions provided in the main portion of the EC. See Sub-Appendix II-3, Environment-Stewardship for additional information about budget development for the Environment-Stewardship Business Line.

- C-2.19. **Projects Previously Funded in Construction.** The PY Civil Works budget will fund five types of previously funded Construction activities in the Operation and Maintenance account. These activities are appropriately funded in the Operation and Maintenance account, both because of the nature of the work they represent and because of their integral connection to operation and maintenance. This reassignment improves accountability and oversight, reflects the full cost of operation and maintenance, and supports an integrated funding strategy for existing projects.
- a. **Biological Opinions**: Activities necessary to comply with Biological Opinions, pursuant to the Endangered Species Act, to avoid jeopardizing listed species at existing projects. Compliance costs will be allocated among the project purposes of the operating projects.
- b. **Rehabilitations**: Work to restore or ensure continuation of project functions or outputs. Rehabilitation of existing projects will compete for funding on a level playing field with other operation and maintenance activities. Fifty percent of the costs of rehabilitations for inland waterway projects will be derived from the Inland Waterways Trust Fund. Section 205 of WRDA 92 defines "rehabilitation," with respect to inland waterway projects, as economically justified, structural restoration of major project features that extends project life more than 2 years, or structural modifications that enhance operational efficiency, and that exceed certain cost thresholds. Continued maintenance may be viewed as the alternative to rehabilitation, and so rehabilitations should compete against maintenance. Also, since rehabilitations are not as large as replacements they can be programmed more easily in the Operation and Maintenance account.
- (1) New Rehabilitation projects will be funded with O&M funds. One-half of the funding for new Rehabilitations projects for inland and intracoastal waterways proposed for funding in the PY will be derived from the Inland Waterways Trust Fund (IWTF).
- (2) The Rehabilitation program consists of work included in only one of two mutually exclusive categories: reliability improvements. The Reliability category encompasses major project feature restoration consisting of structural work on a Corps operated and maintained facility such as a lock, dam, etc., intended to improve the reliability of an existing structure, the result of which will be the deferral of capital expenditures to replace the structure. Rehabilitation will be considered when it can significantly extend the physical life of the feature and can be economically justified by benefit-cost ration analysis. The work will extend over at least two full construction seasons and will require at least \$6.6 million in outlays. For inland waterways projects, the reliability threshold will be \$11 million.
- (3) The proposed Rehabilitation project must have an evaluation report at HQUSACE for review by 15 March of the PY-2 in accordance with Chapter 3 of ER 1130-2-500 and Chapter 3 of EP 1130-2-500 with HQUSACE approval expected by 1 August of the PY-2.
 - (4) The proposed work must not require additional Congressional authorization.
- (5) Dam Safety and Seepage/Stability Correction projects will be included in Construction program.
- (6) Items within the efficiency improvement category are to be included in the Construction program as Replacements.

- c. **Dredged Material Disposal Facilities (DMDFs)**. DMDFs are included for material from maintenance dredging. Funding for the dredged material disposal facilities would be derived from the Harbor Maintenance Trust Fund.
- d. **Beneficial Use of Dredged Material.** Beneficial use of Dredged material from maintenance dredging: Construction of facilities, projects or features that use maintenance dredging material. These include beneficial uses of dredged material for island and marsh creation, shore protection, and other environmental purposes pursuant to the Section 204 / 207 / 933 Continuing Authority Program and specific authorizations.
- e. Renourishment to Restore Sand Lost to Shorelines from Federal Navigation Operation and Maintenance: Replacement of sand lost from shores due to the operation of Federal navigation projects (navigation mitigation). This activity would be carried out pursuant to specific authorizations for shore protection projects that involve navigation mitigation, and pursuant to the Section 111 Continuing Authority Program. Funding for navigation mitigation will be derived from the Harbor Maintenance Trust Fund.

Assume that proposed PY-1 appropriations bill language will enable funding of these activities from the Operation and Maintenance account. Proposed language includes a provision for activities to comply with the Endangered Species Act at existing projects as well as funding for "eligible operations and maintenance" to be derived from the Harbor Maintenance Trust Fund. According to Section 201 of the Water Resources Development Act of 1996, eligible operations and maintenance activities include not only harbor dredging but also the dredged material disposal facilities and navigation mitigation.

f. CCS Codes (Projects Moved from C to O&M)



C-2.20. **Deficiency Corrections.** All deficiencies at Corps of Engineers operated and maintained projects will be corrected using O&M funds. Deficiencies with an estimated total cost of greater than \$5 million were previously included in Construction.

C-2.21. Additional Information

- a. Database System. P2 will be used to submit data for the O&M program. For guidance and instructions on use of P2 refer to paragraph 13 in the main EC, and the document named "CW Program Budget Submission (PBS) Functional Design" which can be obtained from a link on the P2 OFA-CW opening screen or directly from https://p2ofa.usace.army.mil/oew-install/doc/PBS%20Functional%20Design.doc.
- b. **Correction of Program Submittals.** As in past years, districts and MSCs will be asked to make any necessary corrections through automated program systems after HQUSACE review. If a district or MSC is asked to make corrections, the database will be reopened to allow access for updating.

c. Points of Contact.

Table C-2-3 Contact for General/Miscellaneous Items			
Question(s) Referring To Office Telephone			
Policies, procedures, or format of the Project O&M activity.	CECW-IP	202-761- 4130 fax 202-761-4370	
Automated input for the same activity	CECW-IN	202-761 4215 fax 202-761- 5295	
Programs Management staff coordination of Congressional submission of the O&M program.	CECW-IP	202-761- 4130 fax 202-761-4370 (e-mail preferred)	
Curation\Native American Graves Protection Act (NAGPRA)	CECW-PC-NWD	202-761- 4618	

C-2.22. **Submission Requirements.** Submission time schedules for automated data and hard copies are listed in Table 2 of the main text.

TABLE C-2-4 Contacts for Performance Measures for O&M Program Submittal			
ENTRY #	PROPONENT MANAGER	BUSINESS FUNCTION	PERFORMANCE MEASURE
1	CECW-CO 202-761-8648	Navigation	Percent Time Achieve Purpose – Coastal
2	CECW-CO 202-761-8648	Navigation	Percent Time Achieve Purpose – Inland
3	CECW-CP 202-761-4127	Flood Damage Reduction	Availability
4	CECW-CO 202-761-4889	Hydropower	Forced Outage
5	CECW-CO 202-761-4889	Hydropower	Peak Season Availability
6	CECW-CO 202-761-0036	Recreation	Recreation Unit Day Availability
7	CECW-CO 202-761-0036	Recreation	Facility Condition Index

	TABLE C-2-4 Contacts for Performance Measures for O&M Program Submittal			
ENTRY #	PROPONENT MANAGER	BUSINESS FUNCTION	PERFORMANCE MEASURE	
8	CECW-CO 202-761-0036	Recreation	NED Benefit	
9	CECW-CO 202-761-1228 202-761-4704	Environment – Stewardship	Percent of Minimum Level One Natural Resources Inventory Completed	
10	CECW-CO 202-761-4704	Environment – Stewardship	Percent of Healthy and Sustainable Acres on Corps Property	
11	CECW-CO 202-761-4704	Environment- Stewardship	Mitigation Land Meeting Requirements	
12	CECW-CO 202-761-4704	Environment- Stewardship	Percent of Corps-Operated Projects with Master Plans in Compliance with ER 1130-2- 550	
13	CECW-CO 202-761-4690	Environmental – Compliance	a. Significant Findings Corrected b. Major Findings Corrected	

SUB-ANNEX C-3 OPERATION AND MAINTENANCE NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)

C-3.1. **General.** Through the use of the Evaluation and Corrective Action Program and other similar assessment tools, every effort should be made to ensure that your current state of organizational readiness is maintained in a manner which assures that your capability to support the nation in a national emergency is sustained. National Emergency Preparedness Program (NEPP) activities to be programmed are Local Preparedness (Continuity of Operations) 903-510, National Preparedness (primarily the development of Catastrophic Disaster Response Plans (CDRP)) 903-520, Facilities (903-530), the Emergency Water Program (903-540), Continuity of Government (903-550), and NEPP Training/Exercises (903-560). Overall program priorities are:

Preparedness Plans and SOPs (including CDRP's, COOP, COG)
Program Management
Exercises and Training
Emergency Facilities (EOC)

Field organizations should not anticipate any significant mid-year fiscal relief from HQUSACE (CECS-HS) for personnel or other program costs. MSC's should critically review subordinate district requirements to ensure consistency with overall priorities. If necessary, MSC's should propose reprogramming within the Division to accomplish highest priority efforts.

C-3.2. General Program.

- a. **National Emergency Preparedness Program (Code 903-500).** This feature series includes those civil administrative, supervisory and procurement activities at each USACE activity that are concerned solely with developing and maintaining a high state of preparedness for national emergency operations of the Corps of Engineers Civil Works functions.
- b. Continuity of Operations (Code 903-510). This feature series applies to USACE oriented Continuity of Operations (COOP) preparedness planning. Activities in this category include those associated with the identification of specific USACE reconstitution missions, the analysis of required resources, the establishment of organizational and operational procedures, the preparation and publication of contingency plans, and the participation in exercises related to USACE emergency relocation and reconstitution missions as a result of either a natural or manmade disaster. Planning items should include but are not limited to: command succession, identification of alternate relocation/alternate headquarters site(s) (NEPP does not support funding for the acquisition of space), development of appropriate crisis relocation team(s), identification and storage of duplicate emergency files, and other considerations necessary to ensure minimum downtime of the affected organization. This also includes, in conjunction with other appropriate offices, the development of a framework for the individual plans that address the continued operation of Corps civil works projects.
- c. **National Preparedness Planning (Code 903-520).** This feature series consists of activities and services which provide the Corps with the capability to ensure that MSC's and districts can provide support for the nation during national emergency events other than reconstitution. Included are those activities associated with the identification of the USACE national emergency missions, the establishment of organizational and operational procedures, the preparation and publication of catastrophic disaster

response plans. Also included is the necessary planning coordination with related Federal, state, and local entities. Efforts include, but are not limited to, the following:

- (1) Technological and other manmade disasters.
- (2) Anti and Counter Terrorism.
- (3) Military Support to Civil Authorities, including the development of catastrophic disaster response plans.
 - (4) Command, Control, Communications and Computers (C4).
- (5) Individual Mobilization Augmentee (IMA) Program Management. IMA management associated solely with disaster response and the development and maintenance of disaster related TDAs.
 - (6) Port Readiness. Activities associated with maintenance of navigable waterways.
- (7) Resource Management and Administration. Requirements associated with programming, personnel management, and reports.
- d. **Emergency Operations Center Support (Code 903-530).** This feature consists of the exclusive use of space which supports Emergency Operations Centers (EOCs). Included are those activities associated with the operation and maintenance in support of the facilities (rent, supplies, equipment, etc.). This class does not include any labor charges. The EOC will be funded on a joint basis between NEPP and other readiness programs.
- e. **Emergency Water Program (Code 903-540).** This applies to requirements of Executive Order (E.O.) 12656 (For Headquarters, U.S. Army Corps of Engineers (HQUSACE only).
- f. **Continuity of Government (Code 903-550).** Defined as plans to support Federal Emergency Management Agency (FEMA) and other Federal, state and local agencies in their efforts to reestablish civil authority lost as a result of natural or manmade disaster or an attack on the United States (HQUSACE and only as directed).
- g. Catastrophic Disaster Training and Exercises (Code 903-560). The development of and participation in catastrophic disaster exercises and training in the inter- and intra-agency arena. The development and participation in evaluation and corrective action programs related to catastrophic disasters will be funded under this class.
- C-3.3. **Cost Estimates.** Estimates should include overhead costs for both PY-1, PY, and PY+n. PY-1 figures entered in Illustrations C-3.1 and C-3.2 should reflect any recommended increases from the PY-1 program request.
- C-3.4. **Recommended Funding Level.** PY-1 and PY funding levels for all series other than Code 903-520 are expected to be no higher than PY-2 levels, (Code 903-520 funding will be based upon specific scenario based CDRP assignments). MSC's will establish priorities for each major level of effort and identify those areas which cause recommended division/district programs to exceed funding levels defined. Requirements above PY-2 allocations should be specifically addressed. Salary costs for MSC

Emergency Management Chiefs are to be funded under the Expenses appropriation, not Operation and Maintenance, or Flood Control and Coastal Emergencies appropriation accounts.

C-3.5. **Submission Requirements.** HQUSACE will provide electronic versions for Illustrations to MSC's. MSC's will consolidate district's submissions and forward hard copies to the Office of Homeland Security, CECS-HS, not later than 15 June. Although detailed breakdowns of MSC and district programs for PY + n years are not required, districts will provide estimates to division headquarters to justify total programs for PY + n. Questions regarding NEPP program management submissions can be addressed to Germaine Hofbauer, telephone: (202) 761-4970.

ILLUSTRATION C-3.1 NATIONAL EMERGENCY PREPAREDNESS PROGRAM FOUR-YEAR PROGRAM (Dollars in thousands)

Date (Date Prepared)

Class	Title	PY-1	PY	PY+1	PY+2	PY+3	PY+4
510	Continuity of Operations						
520	National Preparedness Planning						
530	Emergency Operations Center Support						
560	Catastrophic Disaster Training/Exercises						
	Totals						

[FOR ILLUSTRATION PURPOSES ONLY -- TYPE AS REQUIRED]

ILLUSTRATION C-3.2 DIVISION NATIONAL EMERGENCY PREPAREDNESS PROGRAM RECOMMENDED PROGRAM SUPPORTINEG DATA (Dollars in thousands)

APPROPRIATION TITLE: Operation and Maintenance. FY		
·	(PY)	
DIVISION OFFICE OR DISTRICT:	, ,	
(Symbol)		
,		Date
		(Date Prepared)

ACTIVITY	MAJOR AREA OF EFFORT	PRIORITY	PY-1	PY	PY+2
510	Continuity of Operations				
520	National Preparedness Planning				
530	Emergency Operations Center Support				
560	Catastrophic Disaster Training/Exercises				
	Totals				

[FOR ILLUSTRATION PURPOSES ONLY -- TYPE AS REQUIRED]

ALL PREVIOUSLY PUBLISHED ILLUSTRATIONS FOR THIS CHAPTER (c-3) HAVE BEEN DELETED

SUB-ANNEX C-4 OPERATION AND MAINTENANCE

WORK CATEGORY CODES

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C-4.3a	Operation Work Category Code Matrix (by Business Line)	
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TABLE C-4.1 WORK CATEGORY CODES - NUMERICALLY ORDERED				
	(See footnotes at end of Table)			
WORK CATEGORY CODE	DESCRIPTION			
601 1/	Operation for Navigation Functions			
60110 **	Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Navigation			
60120 ^{1/}	Studies and Surveys for Navigation			
60121*	Studies and Surveys			
60122	Major Rehabilitation Evaluation Reports			
60123	Environmental Studies and Monitoring for Dredging Purposes			
60130 ^{1/}	Dam Safety for Navigation			
60131**	Instrumentation, Data Collection and Analysis			
60132*	Formal Periodic Inspections and Reports			
60133	Dam Safety Assurance Studies			
60140 ^{1/}	Water Management (Control and Quality) Activities for Navigation			
60141	Water Management (Control and Quality) Activities - Analysis and Studies for Navigation			
60142	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Navigation			
60150*	Real Estate Management for Navigation			
60160	Environmental Compliance Management for Navigation			
60190 ^{1/}	Facility Security for Navigation			
60191	Facility Security Assessments for Navigation			
60192	Facility Security Guards, Monitoring Activities for Navigation			
602 1/	Operation for Flood Damage Reduction Functions			
60210**	Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction			
60220 ^{1/}	Studies and Surveys for Flood Damage Reduction			
60221	Studies and Surveys			
60222	Major Rehabilitation Evaluation Reports			
60223*	Inspections of Completed Works - Local Protection Projects			
60230 ^{1/}	Dam Safety for Flood Damage Reduction			
60231**	Instrumentation, Data Collection and Analysis			
60232*	Formal Periodic Inspections and Reports			
60233	Dam Safety Assurance Studies			

WORK CATEGORY (See footnotes at end of Table) WORK CATEGORY DESCRIPTION CODE Water Management (Control and Quality) Activities for Flood Damage Reduction Water Management (Control and Quality) Activities - Analysis and Studies for Flood Damage Reduction Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Flood Damage Reduction 60242 Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Flood Damage Reduction 60250* Real Estate Management for Flood Damage Reduction 60260 Environmental Compliance Management for Flood Damage Reduction 60291 Facility Security for Flood Damage Reduction 60292 Facility Security Guards, Monitoring Activities for Flood Damage Reduction 603- **V** Operation for Hydropower Functions 60310** Operation of Dams, Power Plants, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower 60311** Operations - Supervision and Engineering 60312** Hydraulic Expenses 60313** Electric Expenses 60314** Miscellaneous Hydraulic Power Generation Expenses 60320 **V** Studies and Surveys - Supervision and Engineering 60321 Studies and Surveys - Hydraulic Expenses 60322 Studies and Surveys - Hydraulic Expenses 60323 Studies and Surveys - Blectric Expenses 60324 Studies and Surveys - Blectric Expenses 60325 Major Rehabilitation Evaluation Reports 60330** Dam Safety for Hydropower 60330** Instrumentation, Data Collection and Analysis 60332* Formal Periodic Inspections and Reports 60330** Water Management (Control and Quality) Activities for Hydropower 60341 Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower 60342 Water Management (Control and Quality) Activities - Operation of	TABLE C-4.1			
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60340 Water Management (Control and Quality) Activities for Hydropower Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower	60332*	Formal Periodic Inspections and Reports		
60341 Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower	60333	Dam Safety Assurance Studies		
Studies for Hydropower	60340 ^{1/}	Water Management (Control and Quality) Activities for Hydropower		
60342 Water Management (Control and Quality) Activities - Operation of	60341	, , , , , , , , , , , , , , , , , , ,		
	60342	Water Management (Control and Quality) Activities - Operation of		

TABLE C-4.1 WORK CATEGORY CODES - NUMERICALLY ORDERED (See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION	
	Water Control Data Systems for Hydropower	
60350*	Real Estate Management for Hydropower	
60360	Environmental Compliance Management for Hydropower	
60390 ^{1/}	Facility Security for Hydropower	
60391	Facility Security Assessments for Hydropower	
60392	Facility Security Guards, Monitoring Activities for Hydropower	
604 ^{1/}	Operation for Environmental Stewardship Functions	
60410 ^{1/}	Operation for Environmental Stewardship	
60411	Management of Natural Resources for Environmental Stewardship	
60412	Management and Curation of Archeological and Cultural Resources	
60413	Management of Natural Resources Mitigation Features	
60414	Fisheries Management - Operation of Fish Hatcheries	
60415	Fisheries Management – Fish Hauling Activities and Fish Passage Structures	
60416	Comprehensive Master Plans	
60417	Shoreline Management	
60418	Management of Special Status Species for Environmental Stewardship	
60419	Pest Management for Environmental Stewardship	
60420 ^{1/}	Studies, Surveys and Inventories for Environmental Stewardship	
60421	Studies, Surveys and Inventories for Environmental Stewardship	
60422	Inspection of Ecosystem Restoration Projects	
60430	Reserved	
60440 ^{1/}	Water Management (Control and Quality) Activities for Environmental Stewardship	
60441	Water Management (Control and Quality) Activities - Analysis and Studies for Environmental Stewardship	
60442	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Environmental Stewardship	
60450*	Real Estate Management for Environmental Stewardship	
60460	Environmental Compliance Management for Environmental Stewardship	
60490 ^{1/}	Facility Security for Environmental Stewardship	
60491	Facility Security Assessments for Environmental Stewardship	

	TABLE C-4.1		
WOF	WORK CATEGORY CODES - NUMERICALLY ORDERED (See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION		
60492	Facility Security Guards, Monitoring Activities for Environmental Stewardship		
605 1/	Operation for Recreation Functions		
60510 ^{1/}	Operation for Recreation		
60511**	Operation/management of Recreation Areas/facilities, Reservoirs, Service Facilities and Equipment, Etc. for Recreation		
60513	Law Enforcement - Costs and Supervision of Law Enforcement Agreements		
60514	Operation/management of Visitor Centers		
60520	Studies and Surveys for Recreation		
60530	Reserved		
60540 ^{1/}	Water Management (Control and Quality) Activities for Recreation		
60541	Water Management (Control and Quality) Activities - Analysis and Studies for Recreation		
60542	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Recreation		
60550*	Real Estate Management for Recreation		
60560	Environmental Compliance Management for Recreation		
60590 ^{1/}	Facility Security for Recreation		
60591	Facility Security Assessments for Recreation		
60592	Facility Security Guards, Monitoring for Recreation		
606 1/	Joint Activities for Operations (Cat/Class 300 Multipurpose Hydropower Projects ONLY)		
60610**	Joint Costs for Operations Activities		
60620 ^{1/}	Joint Costs for Studies and Surveys		
60621*	Joint Costs for Studies and Surveys		
60622	Joint Costs for Major Rehabilitation Evaluation Reports		
60630 ^{1/}	Joint Costs for Dam Safety Activities		
60631**	Joint Costs for Instrumentation, Data Collection and Analysis		
60632*	Joint Costs for Formal Periodic Inspections and Reports		
60633	Joint Costs for Dam Safety Assurance Studies		
60640 ^{1/}	Joint Costs for Water Management (Control and Quality) Activities		
60641	Joint Costs for Water Management (Control and Quality) Activities – Analysis and Studies		

TABLE C-4.1 WORK CATEGORY CODES - NUMERICALLY ORDERED (See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION	
60642	Joint Costs for Water Management (Control and Quality) Activities – Operation of Water Control Data Systems	
60650*	Joint Costs for Real Estate Management Activities	
60660	Joint Costs for Environmental Compliance Management Activities	
60690 ^{1/}	Joint Costs for Facility Security Activities	
60691	Joint Costs for Facility Security Assessments	
60692	Joint Costs for Facility Security Guards, Monitoring Activities	
60710 ^{1/}	National Emergency Preparedness Program (NEPP)	
60711	NEPP Continuity of Operations	
60712	NEPP National Preparedness Planning	
60713	NEPP Support of Emergency Ops Ctrs	
60714	NEPP Emergency Water Program	
60715	NEPP Continuity of Government	
60716	NEPP Training and Exercises	
608 ^{1/}	Operation for Water Supply Functions	
60810 ^{1/}	Operation for Water Supply	
60811	Operation of Project Gates, Specific Water Supply Conduits, Permanent Operating Equipment, Etc. for Water Supply	
60812	Water Supply Agreements	
60820	Studies and Surveys for Water Supply	
611— ^{1/}	Maintenance for Navigation Functions	
61110	Maintenance of Locks, Dams, Reservoirs, Levees, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Navigation	
61120 ^{1/}	Dredging for Navigation	
61121	Dredging Activities for Navigation	
61122	Construction and Maintenance of Dredged Material Disposal Facilities for Navigation	
61130	Dam Safety Remediation of Deficiencies for Navigation	
61140	Purchase/maintenance of Water Management (Control and Quality) Equipment for Navigation	
61150 ^{1/}	Real Estate for Navigation	
61151	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Navigation	

	TABLE C-4.1	
WOR	K CATEGORY CODES - NUMERICALLY ORDERED	
(See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION	
61152	Resolution of Real Estate Encroachments for Navigation	
61153	Boundary Monumentation and Rectification for Navigation	
61160	Environmental Compliance (Remedial Actions) for Navigation	
61170	Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Navigation	
61190 ^{1/}	Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Navigation	
61191	Facility Security Maintenance and Replacement for Navigation	
61192	Facility Security Physical Improvements and Modifications for Navigation	
612— ^{1/}	Maintenance for Flood Damage Reduction Functions	
61210 ^{1/}	Maintenance for Flood Damage Reduction	
61211	Maintenance of Dams, Reservoirs, Other Structures, Service Facilities, permanent Operating Equipment, Etc. for Flood Damage Reduction	
61212	Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for the Mississippi River and Tributaries (MR&T)	
61220 ^{1/}	Dredging for Flood Damage Reduction	
61221	Dredging Activities for Flood Damage Reduction	
61222	Construction and Maintenance of Dredged Material Disposal Facilities for Flood Damage Reduction	
61230	Dam Safety Remediation of Deficiencies for Flood Damage Reduction	
61240	Purchase/maintenance of Water Management (Control and Quality) Equipment for Flood Damage Reduction	
61250 ^{1/}	Real Estate for Flood Damage Reduction	
61251	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Flood Damage Reduction	
61252	Resolution of Real Estate Encroachments for Flood Damage Reduction	
61253	Boundary Monumentation and Rectification for Flood Damage Reduction	
61260	Environmental Compliance (Remedial Actions) for Flood Damage Reduction	
61290 ^{1/}	Facility Security Physical Improvements, Modifications, Maintenance	

	TABLE C-4.1	
WORK CATEGORY CODES - NUMERICALLY ORDERED		
(See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION	
	and Replacement for Flood Damage Reduction	
61291	Facility Security Maintenance and Replacement for Flood Damage Reduction	
61292	Facility Security Physical Improvements and Modifications for Flood Damage Reduction	
613— ^{1/}	Maintenance for Hydropower Functions	
61310 ^{1/}	Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	
61311	Maintenance Supervision for Hydropower	
61312	Maintenance of Hydraulic Structures for Hydropower	
61313	Maintenance of Electric Plant for Hydropower	
61314	Maintenance of Miscellaneous Hydraulic Plant for Hydropower	
61320	Dredging Activities for Hydropower	
61330	Dam Safety Remediation of Deficiencies for Hydropower	
61340	Purchase/maintenance of Water Management (Control and Quality) Equipment for Hydropower	
61350 ^{1/}	Real Estate for Hydropower	
61351	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Hydropower	
61352	Resolution of Real Estate Encroachments for Hydropower	
61353	Boundary Monumentation and Rectification for Hydropower	
61360	Environmental Compliance (Remedial Actions) for Hydropower	
61370 ^{1/}	Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Hydropower	
61371	Comprehensive Replacement Supervision	
61372	Comprehensive Replacement of Structures	
61373	Comprehensive Replacement of Electric Plant	
61374	Comprehensive Replacement of Miscellaneous Hydraulic Plant	
61390 ^{1/}	Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Hydropower	
61391	Facility Security Maintenance and Replacement for Hydropower	
61392	Facility Security Physical Improvements and Modifications for Hydropower	
614— ^{1/}	Maintenance for Environmental Stewardship Functions	

	TABLE C-4.1		
WORK CATEGORY CODES - NUMERICALLY ORDERED			
(See footnotes at end of Table)			
WORK CATEGORY CODE	DESCRIPTION		
61410 ^{1/}	Maintenance for Environmental Stewardship		
61411	Maintenance of Natural Resources Facilities for Environmental Stewardship		
61412	Mitigation of Archeological and Cultural Resources		
61413	Maintenance of Natural Resources Mitigation Features		
61414	Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures		
61418	Maintenance for Special Status Species for Environmental Stewardship		
61420 ^{1/}	Dredging for Environmental Stewardship		
61421	Dredging Activities for Environmental Stewardship		
61422	Construction and Maintenance of Dredged Material Disposal Facilities for Environmental Stewardship		
61430	Reserved		
61440	Purchase/maintenance of Water Management Equipment (Control and Quality) for Environmental Stewardship		
61450 ^{1/}	Real Estate for Environmental Stewardship		
61451	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Environmental Stewardship		
61452	Resolution of Real Estate Encroachments for Environmental Stewardship		
61453	Boundary Monumentation and Rectification for Environmental Stewardship		
61460	Environmental Compliance (Remedial Actions) for Environmental Stewardship Features		
61490 ^{1/}	Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Environmental Stewardship		
61491	Facility Security Maintenance and Replacement for Environmental Stewardship		
61492	Facility Security Physical Improvements and Modifications for Environmental Stewardship		
615—1/	Maintenance for Recreation Functions		
61510 ^{1/}	Maintenance for Recreation		
61511	Maintenance of Recreation Facilities, Other Operating Equipment, Etc.		
61513	Cost Shared Recreation Developments		

TABLE C-4.1 WORK CATEGORY CODES - NUMERICALLY ORDERED		
(See footnotes at end of Table)		
WORK CATEGORY CODE	DESCRIPTION	
61514	Maintenance of Visitor Centers	
61515	Modernization of Recreation Features	
61520	Dredging Activities for Recreation	
61530	Reserved	
61540	Purchase/maintenance of Water Management Equipment (Control and Quality) for Recreation	
61550 ^{1/}	Real Estate for Recreation	
61551	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Recreation	
61552	Resolution of Real Estate Encroachments for Recreation	
61553	Boundary Monumentation and Rectification for Recreation	
61560	Environmental Compliance (Remedial Actions) for Recreation	
61590 ^{1/}	Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Recreation	
61591	Facility Security Maintenance and Replacement for Recreation	
61592	Facility Security Physical Improvements and Modifications for Recreation	
616— ¹⁷	Joint Activities for Maintenance (Cat/Class 300 Multipurpose Hydropower Projects ONLY)	
61610	Joint Costs for Maintenance Activities Excluding Dredging	
61620 ^{1/}	Joint Costs for Dredging	
61621	Joint Costs for Dredging Activities	
61622	Joint Costs for Construction and Maintenance of Dredged Material Disposal Facilities	
61630	Joint Costs for Dam Safety Remediation of Deficiencies	
61640	Joint Costs for Water Management Equipment Activities	
61650 ^{1/}	Joint Costs for Real Estate Activities	
61651	Joint Costs for Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits	
61652	Joint Costs for Resolution of Real Estate Encroachments	
61653	Joint Costs for Boundary Monumentation and Rectification	
61660	Joint Costs for Environmental Compliance (Remedial Actions) Activities	
61690 ^{1/}	Joint Costs for Facility Security Physical Improvements, Modifications, Maintenance and Replacement	

TABLE C-4.1 WORK CATEGORY CODES - NUMERICALLY ORDERED (See footnotes at end of Table)		
WORK CATEGORY DESCRIPTION		
61691	Joint Costs for Facility Security Maintenance and Replacement	
61692	Joint Costs for Facility Security Physical Improvements and Modifications	
618 ^{1/}	Maintenance for Water Supply Functions	
61810	Maintenance of Project Gates, Specific Water Supply Conduits, Permanent Operating Equipment, Etc. for Water Supply	

1/ SUMMARY COST ACCOUNT/WORK CATEGORY CODE - COSTS MAY NOT BE CHARGED DIRECTLY TO THESE ACCOUNTS.

NOTE: PERIODIC INSPECTIONS AND REPORTS, AND INSTRUMENTATION, DATA COLLECTION AND ANALYSIS ARE TO BE INCLUDED IN THE MINIMUM PROGRAM FOR THE PROJECT TO MEET MINIMUM LEGAL RESPONSIBILITIES FOR OPERATIONS AND SAFETY. THIS FOOTNOTE APPLIES TO THE WORK CATEGORY CODES 60131, 60132, 60231, 60232, AND 60331, 60332, 60631 AND 60632.

*Work Category Codes marked with an asterisk require added data in project work description, justification statement, or output measures.

^{**}Although Work Category Codes marked with double asterisk require no description or funding argument, requested resources will be in consonance with the funding increment and prior year experience.

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Boundary Monumentation and Rectification for Environmental Stewardship	61453
Boundary Monumentation and Rectification for Flood Damage Reduction	61253
Boundary Monumentation and Rectification for Hydropower	61353
Boundary Monumentation and Rectification for Navigation	61153
Boundary Monumentation and Rectification for Recreation	61553
Comprehensive Master Plans	60416
Comprehensive Replacement of Electric Plant	61373
Comprehensive Replacement of Miscellaneous Hydraulic Plant	61374
Comprehensive Replacement of Structures	61372
Comprehensive Replacement Supervision	61371
Construction and Maintenance of Dredged Material Disposal Facilities for Flood Damage Reduction	61222
Construction and Maintenance of Dredged Material Disposal Facilities for Environmental Stewardship	61422
Construction and Maintenance of Dredged Material Disposal Facilities for Navigation	61122
Cost Shared Recreation Developments	61513
Dam Safety Assurance Studies	60333
Dam Safety Assurance Studies	60133
Dam Safety Assurance Studies	60233
Dam Safety for Flood Damage Reduction	60230 ^{1/}
Dam Safety for Hydropower	60330 ^{1/}
Dam Safety for Navigation	60130 ^{1/}
Dam Safety Remediation of Deficiencies for Flood Damage Reduction	61230
Dam Safety Remediation of Deficiencies for Hydropower	61330
Dam Safety Remediation of Deficiencies for Navigation	61130
Dredging Activities for Environmental Stewardship	61421
Dredging Activities for Flood Damage Reduction	61221
Dredging Activities for Hydropower	61320
Dredging Activities for Navigation	61121
Dredging Activities for Recreation	61520
Dredging for Environmental Stewardship	61420 ^{1/}

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Dredging for Flood Damage Reduction	61220 ^{1/}
Dredging for Navigation	61120 ^{1/}
Electric Expenses	60313**
Environmental Compliance (Remedial Actions) for Environmental Stewardship Features	61460
Environmental Compliance (Remedial Actions) for Flood Damage Reduction	61260
Environmental Compliance (Remedial Actions) for Hydropower	61360
Environmental Compliance (Remedial Actions) for Navigation	61160
Environmental Compliance (Remedial Actions) for Recreation	61560
Environmental Compliance Management for Environmental Stewardship	60460
Environmental Compliance Management for Flood Damage Reduction	60260
Environmental Compliance Management for Hydropower	60360
Environmental Compliance Management for Navigation	60160
Environmental Compliance Management for Recreation	60560
Environmental Studies and Monitoring for Dredging Purposes	60123
Facility Security Assessments for Environmental Stewardship	60491
Facility Security Assessments for Flood Damage Reduction	60291
Facility Security Assessments for Hydropower	60391
Facility Security Assessments for Navigation	60191
Facility Security Assessments for Recreation	60591
Facility Security for Environmental Stewardship	60490 ^{1/}
Facility Security for Flood Damage Reduction	60290 ^{1/}
Facility Security for Hydropower	60390 ^{1/}
Facility Security for Navigation	60190 ^{1/}
Facility Security for Recreation	60590 ^{1/}
Facility Security Guards, Monitoring Activities for Environmental Stewardship	60492
Facility Security Guards, Monitoring Activities for Flood Damage Reduction	60292
Facility Security Guards, Monitoring Activities for Hydropower	60392
Facility Security Guards, Monitoring Activities for Navigation	60192
Facility Security Guards, Monitoring Activities for Recreation	60592
Facility Security Maintenance and Replacement for Navigation	61191
Facility Security Physical Improvements and Modifications for Navigation	61192
Facility Security Physical Improvements, Modifications, Maintenance and	61190 ^{1/}

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Replacement for Navigation	
Facility Security Maintenance and Replacement for Flood Damage Reduction	61291
Facility Security Physical Improvements and Modifications for Flood Damage Reduction	61292
Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Flood Damage Reduction	61290 ^{1/}
Facility Security Maintenance and Replacement for Hydropower	61391
Facility Security Physical Improvements and Modifications for Hydropower	61392
Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Hydropower	61390 ^{1/}
Facility Security Maintenance and Replacement for Environmental Stewardship	61491
Facility Security Physical Improvements and Modifications for Environmental Stewardship	61492
Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Environmental Stewardship	61490 ^{1/}
Facility Security Maintenance and Replacement for Recreation	61591
Facility Security Physical Improvements and Modifications for Recreation	61592
Facility Security Physical Improvements, Modifications, Maintenance and Replacement for Recreation	61590 ^{1/}
Fisheries Management – Fish Hauling Activities and Fish Passage Structures	60415
Fisheries Management - Operation of Fish Hatcheries	60414
Formal Periodic Inspections and Reports	60232*
Formal Periodic Inspections and Reports	60332*
Formal Periodic Inspections and Reports	60132*
Hydraulic Expenses	60312**
Inspection of Ecosystem Restoration Projects	60422
Inspections of Completed Works - Local Protection Projects	60223*
Instrumentation, Data Collection and Analysis	60131**
Instrumentation, Data Collection and Analysis	60231**
Instrumentation, Data Collection and Analysis	60331**
Joint Activities for Maintenance	616— ^{1/}
Joint Activities for Operations (Cat/Class 300 Multipurpose Hydropower	606—1/

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Projects ONLY)	
Joint Costs for Boundary Monumentation and Rectification	61653
Joint Costs for Construction and Maintenance of Dredged Material Disposal Facilities	61622
Joint Costs for Dam Safety Activities	60630 ^{1/}
Joint Costs for Dam Safety Assurance Studies	60633
Joint Costs for Dam Safety Remediation of Deficiencies	61630
Joint Costs for Dredging	61620 ^{1/}
Joint Costs for Dredging Activities	61621
Joint Costs for Environmental Compliance (Remedial Actions) Activities	61660
Joint Costs for Environmental Compliance Management Activities	60660
Joint Costs for Facility Security	60690 ^{1/}
Joint Costs for Facility Security Assessments	60691
Joint Costs for Facility Security Guards, Monitoring Activities	60692
Joint Costs for Facility Security Physical Improvements, Modifications, Maintenance and Replacement	61690 ^{1/}
Joint Costs for Facility Security Maintenance and Replacement	61691
Joint Costs for Facility Security Physical Improvements and Modifications	61692
Joint Costs for Formal Periodic Inspections and Reports	60632*
Joint Costs for Instrumentation, Data Collection and Analysis	60631**
Joint Costs for Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits	61651
Joint Costs for Maintenance Activities Excluding Dredging	61610
Joint Costs for Major Rehabilitation Evaluation Reports	60622
Joint Costs for Operations Activities	60610**
Joint Costs for Real Estate Activities	61650 ^{1/}
Joint Costs for Real Estate Management Activities	60650*
Joint Costs for Resolution of Real Estate Encroachments	61652
Joint Costs for Studies and Surveys	60621*
Joint Costs for Studies and Surveys	60620 ^{1/}
Joint Costs for Water Management (Control and Quality) Activities - Operation of Water Control Data Systems	60642
Joint Costs for Water Management (Control and Quality) Activities - Analysis and Studies	60641

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Joint Costs for Water Management (Control and Quality) Activities	60640 ^{1/}
Joint Costs for Water Management Equipment Activities	61640
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Flood Damage Reduction	61251
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Environmental Stewardship	61451
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Navigation	61151
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Recreation	61551
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Hydropower	61351
Law Enforcement – Costs and Supervision of Law Enforcement Agreements	60513
Maintenance for Environmental Stewardship	61410 ^{1/}
Maintenance for Environmental Stewardship Functions	614— ^{1/}
Maintenance for Flood Damage Reduction	61210 ^{1/}
Maintenance for Flood Damage Reduction Functions	612— ^{1/}
Maintenance for Hydropower Functions	613— ^{1/}
Maintenance for Navigation Functions	611— ^{1/}
Maintenance for Recreation	61510 ^{1/}
Maintenance for Recreation Functions	615— ^{1/}
Maintenance for Water Supply Functions	608— ^{1/}
Maintenance of Dams, Reservoirs, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction	61211
Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for the Mississippi River and Tributaries (MR&T)	61212
Maintenance of Electric Plant for Hydropower	61313
Maintenance of Electric Plant for Hydropower	6131_
Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures	61414
Maintenance of Hydraulic Structures for Hydropower	61312
Maintenance of Locks, Dams, Reservoirs, Levees, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Navigation	61110
Maintenance of Miscellaneous Hydraulic Plant for Hydropower	61314
Maintenance of Miscellaneous Hydraulic Plant for Hydropower	61314

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Maintenance of Natural Resources Facilities for Environmental Stewardship	61411
Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	61310 ^{1/}
Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	61310 ^{1/}
Maintenance of Project Gates, Specific Water Supply Conduits, Permanent Operating Equipment, Etc. for Water Supply	61810
Maintenance of Recreation Facilities, Other Operating Equipment, Etc.	61511
Maintenance of Special Status Species for Environmental Stewardship	61418
Maintenance of Visitor Centers	61514
Maintenance of Natural Resources Mitigation Features for Enviromental Stewardship	61413
Maintenance Supervision for Hydropower	61311
Major Rehabilitation Evaluation Reports	60122
Major Rehabilitation Evaluation Reports	60325
Major Rehabilitation Evaluation Reports	60222
Management and Curation of Archeological and Cultural Resources	60412
Management of Natural Resources for Environmental Stewardship	60411
Management of Special Status Species for Environmental Stewardship	60418
Management of Natural Resources Mitigation Features	60413
Miscellaneous Hydraulic Power Generation Expenses	60314**
Mitigation of Archeological and Cultural Resources	61412
Modernization of recreation Features	61515
National Emergency Preparedness Program (NEPP)	60710 ^{1/}
NEPP Management and Operations	60711
NEPP Requirements Analysis and Studies	60712
NEPP Support of Emergency Ops Ctr	60713
NEPP Training and Exercises	60716
Operation for Environmental Stewardship	60410 1/
Operation for Environmental Stewardship Functions	604—1/
Operation for Flood Damage Reduction Functions	602—1/
Operation for Hydropower Functions	603—1/
Operation for Navigation Functions	601—1/
Operation for Recreation	60510 ^{1/}

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Operation for Recreation Functions	605— ^{1/}
Operation for Water Supply	60810 ^{1/}
Operation for Water Supply Functions	608— ^{1/}
Operation of Dams, Power Plants, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	60310 ^{1/}
Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction	60210**
Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Navigation	60110 **
Operation of Project Gates, Specific Water Supply Conduits, Permanent Operating Equipment, Etc. for Water Supply	60811
Operation/management of Recreation Areas/facilities, Reservoirs, Service Facilities and Equipment, Etc. for Recreation	60511**
Operation/management of Visitor Centers	60514
Operations - Supervision and Engineering	60311**
Pest Management for Environmental Stewardship	60419
Purchase/maintenance of Water Management (Control and Quality) Equipment for Navigation	61140
Purchase/maintenance of Water Management (Control and Quality) Equipment for Flood Damage Reduction	61240
Purchase/maintenance of Water Management (Control and Quality) Equipment for Hydropower	61340
Purchase/maintenance of Water Management Equipment (Control and Quality) for Environmental Stewardship	61440
Purchase/maintenance of Water Management Equipment (Control and Quality) for Recreation	61540
Real Estate for Environmental Stewardship	61450 ^{1/}
Real Estate for Flood Damage Reduction	61250 ^{1/}
Real Estate for Hydropower	61350 ^{1/}
Real Estate for Navigation	61150 ^{1/}
Real Estate for Recreation	61550 ^{1/}
Real Estate Management for Environmental Stewardship	60450*
Real Estate Management for Flood Damage Reduction	60250*
Real Estate Management for Hydropower	60350*
Real Estate Management for Navigation	60150*

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED	
DESCRIPTION	WORK CATEGORY CODE
Real Estate Management for Recreation	60550*
Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Hydropower	61370 ^{1/}
Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Navigation	61170
Reserved	60530
Reserved	61530
Reserved	60430
Reserved	61430
Resolution of Real Estate Encroachments for Environmental Stewardship	61452
Resolution of Real Estate Encroachments for Flood Damage Reduction	61252
Resolution of Real Estate Encroachments for Hydropower	61352
Resolution of Real Estate Encroachments for Navigation	61152
Resolution of Real Estate Encroachments for Recreation	61552
Shoreline Management	60417
Studies and Surveys	60121*
Studies and Surveys	60221
Studies and Surveys - Electric Expenses	60323
Studies and Surveys - Hydraulic Expenses	60322
Studies and Surveys - Miscellaneous Hydraulic Power Generation Expenses	60324
Studies and Surveys - Supervision and Engineering	60321
Studies and Surveys for Flood Damage Reduction	60220 ^{1/}
Studies and Surveys for Hydropower	60320 ^{1/}
Studies and Surveys for Navigation	60120 ^{1/}
Studies and Surveys for Recreation	60520
Studies and Surveys for Water Supply	60820
Studies, Surveys and Inventories for Environmental Stewardship	60421
Studies, Surveys and Inventories for Environmental Stewardship	60420 ^{1/}
Water Management (Control and Quality) Activities - Analysis and Studies for Flood Damage Reduction	60241
Water Management (Control and Quality) Activities - Analysis and Studies for Environmental Stewardship	60441
Water Management (Control and Quality) Activities - Analysis and Studies for Recreation	60541

TABLE C-4.2 WORK CATEGORY CODES - ALPHABETICALLY ORDERED		
DESCRIPTION	WORK CATEGORY CODE	
Water Management (Control and Quality) Activities - Analysis and Studies for Navigation	60141	
Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower	60341	
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Environmental Stewardship	60442	
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Flood Damage Reduction	60242	
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Recreation	60542	
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Navigation	60142	
Water Management (Control and Quality) Activities – Operation of Water Control Data Systems for Hydropower	60342	
Water Management (Control and Quality) Activities for Environmental Stewardship	60440 ^{1/}	
Water Management (Control and Quality) Activities for Flood Damage Reduction	60240 ^{1/}	
Water Management (Control and Quality) Activities for Hydropower	60340 ^{1/}	
Water Management (Control and Quality) Activities for Navigation	60140 ^{1/}	
Water Management (Control and Quality) Activities for Recreation	60540 ^{1/}	
Water Supply Agreements	60812	

1/ SUMMARY COST ACCOUNT/WORK CATEGORY CODE - COSTS MAY NOT BE CHARGED DIRECTLY TO THESE ACCOUNTS.

2/ PERIODIC INSPECTIONS AND REPORTS, AND INSTRUMENTATION, DATA COLLECTION, AND ANALYSIS ARE TO BE INCLUDED IN THE MINIMUM PROGRAM FOR THE PROJECT TO MEET MINIMUM LEGAL RESPONSIBILITIES FOR OPERATIONS AND SAFETY. THIS FOOTNOTE APPLIES TO THE WORK CATEGORY CODES 60131, 60132, 60231, 60232, AND 60331, 60332, 60631 AND 60632.

*Work Category Codes marked with an asterisk require added data in project work description, justification statement, or output measures.

**Although Work Category Codes marked with double asterisk require no description or funding argument, requested resources will be in consonance with the funding increment and prior year experience.

O&M WORK CATEGORY CODE MATRIXES AND DEFINITIONS

- C-4.3. O&M Work Category Code Matrixes and Definitions.
- C-4.3.a. Operation Work Category Code Matrix by Business Line. See Table 4-3.a.
- C-4.3.b. Maintenance Work Category Code Matrix by Business Line. See Table 4-3.b.

Table 4.3a and Table 4-3.b. Maintenance Work Category Code Matrix (by Business Line). See embedded excel file on pages C-2-8

- C-4.3.c. Work Category Codes and Definitions for Operation Accounts. The Operation functions are broken down into Work Category Codes, together with a description of work to be performed in Table 4-3.c.
- C-4.3.d. Work Category Codes and Definitions for Maintenance Accounts. The Maintenance functions are broken down into Work Category Codes, together with a description of work to be performed in Table 4-3.d.

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Section C-4.3c Work Category Codes and Definitions O&M Operations Accounts By Business Program:

Navigation (601--)
Flood Damage Reduction (602--)
Hydropower (603--)
Environmental Stewardship (604--)
Recreation (605--)
Joint Activities (606--)
NEPP (607--)
Water Supply (608--)

A Breakdown of Work Category Codes (WCCs) and descriptions under these functions is on the following pages:

WORK CATEGORY CODE: **60110** – Operations for Navigation

WORK CATEGORY DESCRIPTION: Operations of Locks, Dams, Reservoirs, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for navigation features.

Includes all costs for the operation; necessary materials, supplies, equipment and transportation costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of lock gates and/or associated equipment; maintaining lock records; removing debris, ice and snow, cleanup of lock facilities; routine adjusting of meters, relays, instruments, radios and regular equipment; lubrication of equipment;

of dam structures and appurtenant equipment such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes all costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to perform reservoir inspections and patrols, removal and control of trash and debris (major periodic or one-time removal of growth and debris from the reservoir should be recorded in Work Category Code 61110); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and routine, recurring maintenance of boundary monumentation at projects without natural resource activities; insect control and elimination of health and safety hazards; of project-owned permanent facilities such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided

as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery are charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories. This activity includes costs of buildings, grounds and utilities related to the operation of the Los Angeles-Long Beach and San Francisco Bay hydraulic models located in South Pacific Division and it does not include costs associated with recreation facilities and areas which will be included in Work Category Code 60511; of all tools and equipment, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project-owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles; for prevention of obstructive and injurious deposits at NAD projects as authorized by the Act approved 29 June 1888, as amended, including all costs for surveillance at harbors, channels, waterfront construction sites, and at overboard ocean dumping sites, costs to administer outstanding enforcement actions on prior noted violations of Federal statutes, and any costs required for ground or aerial surveillance.

WORK CATEGORY CODE: **60121** – Studies and Surveys for the Navigation Function

WORK CATEGORY DESCRIPTION: Studies and Surveys including project condition surveys, dredging studies, etc. for navigation features.

Includes all costs to perform surveys for the purpose of determining elevation, grade and sedimentation conditions in navigation projects, investigation of sunken vessels, and to prepare dredging studies. For program management purposes, all projects with funding requirements (dredging or otherwise) under the Non-deferrable levels should have any needed surveys programmed under the project name. All other surveys should be programmed in aggregation under PWID 14600: Project Condition Surveys. Funding for PWID 14600: Project Condition Surveys, will be adjusted after overall dredging program levels are determined.

WORK CATEGORY CODE: **60122** - Studies and Surveys for Navigation - Major Rehabilitation Evaluation Reports

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for navigation features.

Includes all costs to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction (C) funds are allocated to the project.

WORK CATEGORY CODE: **60123** - Studies and Surveys for Navigation - Environmental Studies and Monitoring for Dredging Purposes

WORK CATEGORY DESCRIPTION: Environmental Studies and Monitoring for Dredging Purposes.

Includes all costs for environmental studies and monitoring for dredging purposes including all costs of study and analysis activities associated with long range environmental activities related to waterways. These activities are needed to ensure that appropriate information and requirements are fulfilled so that

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E&D for dredging can be completed on a timely basis. Dredged Material Management Plans (DMMPs) are included in this Work Category. Environmental requirements to perform maintenance dredging of Federal channels (e.g. water quality certification, bio-assays, water quality testing, Environmental Impact Statements, and environmental assessments) should also be included in this Work Category.

WORK CATEGORY CODE: **60131** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Navigation Function

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to navigation features.

Includes all costs for the operation of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **60132** - Formal Periodic Inspections and Reports for Dam Safety related to the Navigation Function

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to navigation features.

Includes all costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

- (a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.
- (b) Public Bridges.
- (c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.
- (d) Other projects where known conditions warrant inspections at a frequency more often than normal including revetments, dikes, groins, breakwaters, jetties, seawalls, piers and other similar structures provided in seas, lakes, rivers, canals, exposed tidal waters and harbors.

WORK CATEGORY CODE: **60133** - Dam Safety Assurance Studies related to the Navigation Function

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety related to navigation features.

Includes all costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60141** - Water Management (Control and Quality) Activities for Navigation - Analysis and Studies

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for navigation features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and decision support models within the new Corps Water Management System (CWMS). Costs for data collection are included in Work Category Code 60142.

WORK CATEGORY CODE: **60142** - Water Management (Control and Quality) Activities for Navigation - Operation of Water Control Data Systems

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for navigation features. Includes all costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies, and other associated costs required for operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61140.

WORK CATEGORY CODE: 60150 - Real Estate Management for the Navigation Function

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for navigation features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where noncompliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government, and real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

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WORK CATEGORY CODE: **60160** - Environmental Compliance Management for the Navigation Function

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for navigation features.

Includes all Navigation operational costs to comply with applicable Federal environmental laws and regulations, including the National Environmental Policy Act (NEPA), Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations. Includes cost to complete annual environmental compliance assessment (external or internal). Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance operational activities related to the Navigation function. Includes costs associated with the following activities environmental compliance activities for maintenance shops supporting Navigation; environmental baseline inspection of outgrants and right-ofways on lands allocated for operations; required personnel environmental training; development and update of required environmental plans for spill prevention, hazard communication, pollution prevention, hazardous material management; storage and handling of petroleum-oil & lubricants and preparation of pesticide reports and corresponding documentation. Includes costs associated with implementation and maintaining an Environmental Management System (EMS) which may be cost shared with other functions. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 60170

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60180

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60191** – Facility Security Assessments for Navigation

WORK CATEGORY DESCRIPTION: Facility Security – Assessments, reviews, studies and analyses for navigation features.

Includes all costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness for navigation features. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Costs for guards and surveillance activities are included in Work Category Code 60192, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61190.

WORK CATEGORY CODE: 60192 – Facility Security Guards, Monitoring Activities for Navigation

WORK CATEGORY DESCRIPTION: Facility Security - Guards and Monitoring Activities for navigation

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features.

Includes all costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Costs for assessments are included in Work Category Code 60191, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61190.

WORK CATEGORY CODE: 60210 - Operations for Flood Damage Reduction

WORK CATEGORY DESCRIPTION: Operations of Dams, Reservoirs, Levees, Hurricane Barrier Gates, and Other Flood Damage Reduction Non-Dam Structures, Pumping Plants, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for flood damage reduction features.

Includes all costs for the operation; necessary materials, supplies, equipment and transportation costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of dam structures and appurtenant equipment such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes all costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to perform reservoir inspections and patrols, removal and control of trash and debris (major periodic or one-time removal of growth and debris from the reservoir should be recorded under Work Category Code 61210); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and routine, recurring maintenance of boundary monumentation at projects without natural resource activities, insect control and elimination of health and safety hazards;

of levees, hurricane barrier gates, and other gated non-dam flood damage reduction structures; vegetation control on flood damage reduction structures; removal of snow and ice from structures:

of pumping plants, pumps and associated equipment; collecting and maintaining operational records; routine replacement, purification and testing of insulating, lubricating and hydraulic oils; lubricants and lubricating equipment; minor maintenance of electrical equipment, cleaning, testing, and adjustment of motor starters, relays, meters, and similar equipment; minor maintenance and repair of pumps, motors, engines, trash raking equipment, gate hoists, gates, fire fighting, and other equipment required for operation; minor maintenance of buildings, roads, and grounds; removal of debris, ice, and snow;

of project-owned permanent facilities such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility

facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery are charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories. This activity does not include costs associated with recreation facilities and areas which will be included in Work Category Code 60511;

of all tools and equipment, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project-owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles.

Does not include specific Water Supply activities as in the past. Water Supply activities including that required by water supply contracts, collections including delinquencies and the renegotiation of existing water supply contracts are now included in WCCs 60811 and 60812.

WORK CATEGORY CODE: 60221 - Studies and Surveys for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Non-Navigation Project Condition Studies, including Dredging Studies, for flood damage reduction features.

Includes all costs to prepare reconnaissance reports or studies related to the maintenance and rehabilitation of Civil Works projects such as foundation reports, embankment criteria, O&M manuals, sediment surveys at flood damage reduction projects, surveillance of northern boundary waters, and hydraulic model analyses prior to the engineering and design phase. Does not include Water Supply reallocation study costs as in the past. Water Supply reallocation study costs are now included in WCC 60820.

WORK CATEGORY CODE: 60222 - Studies and Surveys for Flood Damage Reduction - Major Rehabilitation Evaluation Reports

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for flood damage reduction features.

Includes all costs to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction (C) funds are allocated to the project.

WORK CATEGORY CODE: **60223** – Studies, Surveys and Inspections of Completed Works - Local Protection Projects

WORK CATEGORY DESCRIPTION: Studies, Surveys and Inspections of Local Protection Projects for flood damage reduction features.

Includes all costs related to the inspection of Federally constructed, locally operated and maintained projects to ensure compliance with local cooperative agreements. This Work Category does not include costs for projects covered by PL 84-99. Includes all costs for technical review and approval of sponsor-proposed alterations, improvements, excavation or construction within the limits of the project right-of-way; advice given to sponsors related to the effects of such activities on the function/operation of the project and information on acceptable construction methods; all costs to update O&M Manuals; initial funding of reconnaissance or evaluation reports; and PED for major rehabilitation, dam safety assurance, deficiency correction and reconstruction as applicable until Construction (C) funds are allocated.

WORK CATEGORY CODE: **60231** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to flood damage reduction features.

Includes all costs for the operation of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **60232** - Formal Periodic Inspections and Reports for Dam Safety related to the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to flood damage reduction features.

Includes all costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

- (a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.
 - (b) Public Bridges.
- (c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.
- (d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: 60233 - Dam Safety Assurance Studies related to the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety related to flood damage reduction features.

Includes all costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60241** - Water Management (Control and Quality) Activities for Flood Damage Reduction - Analysis and Studies

60241 - Water Management (Control and Quality) Activities for Flood Damage Reduction - Analysis and Studies

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and decision support models within the new Corps Water Management System (CWMS). Costs for data collection are included in Work Category Code 60242.

WORK CATEGORY CODE: **60242** - Water Management (Control and Quality) Activities for Flood Damage Reduction - Operation of Water Control Data Systems

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for flood damage reduction features. Includes all costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies, and other associated costs required for operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61240.

WORK CATEGORY CODE: **60250** - Real Estate Management for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for flood damage reduction features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of, and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after

vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government. Includes reconciliation of financial records with flood damage reduction land and mineral lease receipts, andreal property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60260** - Environmental Compliance Management for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for flood damage reduction features.

Includes all Flood Damage Reduction operational costs to comply with applicable Federal environmental laws and regulations, including the National Environmental Policy Act (NEPA), Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148. and applicable state and local regulations. Includes cost to complete annual environmental compliance assessment, external and internal. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance operational activities related to the Flood Damage Reduction Function. Includes costs associated with the following activities environmental compliance activities for maintenance shops supporting Flood Damage Reduction; environmental baseline inspection of outgrants and right-of-ways on lands allocated for operations; required personnel environmental training; development and update of required environmental plans for spill prevention, hazard communication, pollution prevention, hazardous material management; underground storage tanks, storage and handling of pesticides and petroleum-oil & lubricants. Includes costs associated with implementation and maintaining an Environmental Management System (EMS) which may be cost shared with other business lines. Includes costs associated with implementation and maintaining an Environmental Management System (EMS) which may be cost shared with other functions. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. This Work Category also includes all costs for the management and curation of Orphan Collections and archeological materials collected from early local protection projects and subsequently turned over to local sponsors for operation and maintenance. All other costs for management and curation of archeological resources are included in Work Category Code 60412.

WORK CATEGORY CODE: 60270

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60280

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60291 – Facility Security Assessments for Flood Damage Reduction

WORK CATEGORY DESCRIPTION: Facility Security – Assessments, reviews, studies and analyses for flood damage reduction features.

Includes all costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness for flood damage reduction features. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Costs for guards and surveillance activities are included in Work Category Code 60292, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61290.

WORK CATEGORY CODE: 60292 – Facility Security Guards, Monitoring Activities for Flood Damage Reduction

WORK CATEGORY DESCRIPTION: Facility Security – Guards and Monitoring Activities for flood damage reduction features.

Includes all costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Costs for assessments are included in Work Category Code 60291, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61290.

WORK CATEGORY CODE: **60310 (60311-60314)** - Hydropower Operations. Costs for this function will be sub-divided as follows:

60311 - Hydropower Operations - Supervision and Engineering, FERC #535. Costs for labor, materials and other expenses incurred in the general supervision of the operation of hydraulic generating stations. Direct supervision of specific activities will be charged to the appropriate accounts:

60312 - Hydropower Operations - Hydraulic Expenses, FERC #537. Costs for labor, materials and other expenses incurred in operating power intake works whether or not the powerhouse is an integral part of the intake dam;

60313 - Hydropower Operations - Electric Expenses, FERC #538. Costs for labor, materials and other expenses incurred in operating turbines, generators, auxiliary apparatus, switchgear and other electric equipment to the point where electricity leaves for transmission by the marketing agency or other project. Keeping plant logs and records, and preparing reports of operation are included herein;

60314 - Hydropower Operations - Miscellaneous Hydraulic Power Generation Expenses, FERC #539. Costs for labor, materials and other expenses not specifically provided for in other power plant operation accounts. Includes costs for custodial and other administrative services.

WORK CATEGORY DESCRIPTION: Operations of Power Plants.

Includes specific costs for the general supervision and engineering associated with the operation; routine materials, supplies, equipment and transportation costs; associated hired labor and contract support; and other costs: :

of power plants including hydraulic generating stations, and their associated power intake structures, turbines, generators, auxiliary apparatus, switchgear, and other electrical or electronic equipment to the point where electricity leaves for transmission by the marketing agency or project. Includes miscellaneous costs such as custodial, administrative services and training power plant trainees including labor. Costs not specific to hydropower will be included in Work Category Code 60610.

WORK CATEGORY CODE: **60320 (60321-60324)** - Studies and Surveys for the Hydropower Function Costs for this function will be sub-divided as follows:

60321 - Studies and Surveys - Supervision and Engineering, FERC #535. Costs for labor, materials and other expenses incurred in the general supervision of the operation of hydraulic generating stations. Direct supervision of specific activities will be charged to the appropriate accounts;

60322 - Studies and Surveys - Hydraulic Expenses, FERC #537. Costs for labor, materials and other expenses incurred in operating power intake works whether or not the powerhouse is an integral part of the intake dam;

60323 - Studies and Surveys - Electric Expenses, FERC #538. Costs for labor, materials and other expenses incurred in operating turbines, generators, auxiliary apparatus, switchgear and other electric equipment to the point where electricity leaves for transmission by the marketing agency or other project;

60324 - Studies and Surveys - Miscellaneous Hydraulic Power Generation Expenses, FERC #539. Costs for labor, materials and other expenses not specifically provided for in other power plant operation accounts.

WORK CATEGORY DESCRIPTION: Studies and Surveys for hydropower features.

Includes all costs to prepare reconnaissance reports or studies related to the maintenance and rehabilitation of hydropower projects such as foundation reports, embankment criteria, O&M manuals, sediment surveys and hydraulic model analyses prior to the engineering and design phase.

WORK CATEGORY CODE: **60325** - Studies and Surveys for Hydropower - Major Rehabilitation Evaluation Reports

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for hydropower features.

Includes all costs for specific hydropower purposes to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction (C) funds are allocated to the project.

WORK CATEGORY CODE: **60331** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Hydropower Function, FERC #537

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to hydropower features.

Includes all specific costs for the operation of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an

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approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **60332** - Formal Periodic Inspections and Reports for Dam Safety related to Hydropower Activities, FERC #537

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to hydropower features.

Includes all specific costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

- (a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.
 - (b) Public Bridges.
- (c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.
- (d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: **60333** - Dam Safety Assurance Studies related to the Hydropower Function, FERC #537

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety activities related to hydropower features.

Includes all specific costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60341** - Water Management (Control and Quality) Activities for Hydropower - Analysis and Studies, FERC #537

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for hydropower features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and

decision support models within the new Corps Water Management System (CWMS). Costs for data collection are included in Work Category Code 60342.

WORK CATEGORY CODE: **60342** - Water Management (Control and Quality) Activities for Hydropower - Operation of Water Control Data Systems, FERC #537

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for hydropower features.

Includes all costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61340.

WORK CATEGORY CODE: **60350** - Real Estate Management for the Hydropower Function, FERC #537

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for hydropower features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where noncompliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government, and real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA) 1166).

WORK CATEGORY CODE: **60360** - Environmental Compliance Management for the Hydropower Function, FERC #539

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for hydropower features.

Includes all Hydropower operational costs to comply with applicable Federal environmental laws and regulations, including the National Environmental Policy Act (NEPA) Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations. Includes cost to complete annual environmental compliance

assessment, external and internal. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance operational activities. related to the Hydropower function. Includes costs associated with implementation and maintaining and Environmental Management System (EMS). Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 60370

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60380

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60391 – Facility Security Assessments for Hydropower

WORK CATEGORY DESCRIPTION: Facility Security – Assessments, reviews, studies and analyses for hydropower features.

Includes all costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness for hydropower features. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Costs for guards and surveillance activities are included in Work Category Code 60392, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61390.

WORK CATEGORY CODE: 60392 – Facility Security Guards, Monitoring Activities for Hydropower

WORK CATEGORY DESCRIPTION: Facility Security – Guards and Monitoring Activities for hydropower features.

Includes all costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Costs for assessments are included in Work Category Code 60391, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61390.

WORK CATEGORY CODE: **60411** - Management of Natural Resources for Environmental Stewardship

WORK CATEGORY DESCRIPTION: Management of Natural Resources and Operational Management Plans.

Includes all costs for the management and operations;

of natural resources to foster healthy and sustainable lands and waters, including the conservation and protection of soil, water, wetland, forest, vegetation, waterfowl, fish and wildlife, grasslands and range,

and other resources essential to the total management of specific projects; salaries, equipment, supplies; managing areas under license or outlease, spawning beds, fish shelters, fish and waterfowl impoundments; forest/woodland management activities, timber salvage, timber trespass surveillance, timber cruising, stand improvement, development and maintenance of fire lines, forest fire suppression, prescribed burning and haul road maintenance; conducting vegetation plantings, fertilization, maintain riparian vegetation, establishing wildlife food plots, manipulating vegetation; conducting wildlife habitat preservation management or improvement activities; range management; erosion control; conducting citation authority programs outside developed recreation areas that involve the protection of natural resources; conducting interpretive programs for the stewardship of natural resources; and boundary surveillance and routine, recurring maintenance of boundary monumentation required for protection of managed stewardship lands or environmentally sensitive areas. This Work Category excludes costs associated with fish hatcheries and fish passage. Natural resources activities conducted for the enhancement of recreation areas, e.g. management or control of nuisance wildlife including geese, nutria, woodchucks, and swallows in recreation areas, will be charged to Work Category Code 60511;

of Operational Management Plans, including all costs for salaries, supplies and materials, and equipment related to the preparation and updating of Operational Management Plans and supplements. Charges may include field units that perform data collection and analysis.

WORK CATEGORY CODE: **60412** - Management and Curation of Archeological and Cultural Resources

WORK CATEGORY DESCRIPTION: Management and Curation of Archeological and Cultural Resources.

Includes all costs for the management of, and annual maintenance curation costs for, archeological and cultural resources including identification, surveillance, studies, literature searches, reconnaissance surveys, inventory, subsurface testing, development and update of management plans and agreements for historical, archaeological and cultural resources, archeological and cultural resources outreach and educational programs, coordination with Tribal interests, operations activities associated with identified historical, archaeological and cultural resources, and enforcement of Title 36 Code of Federal Regulations, the National Historic Preservation Act of 1966, the Archeological Resources Protection Act of 1979 and other applicable laws and regulations. (Do not include funding requirements for activities to ensure compliance with Section 5-7 of the Native American Graves Protection and Repatriation Act (NAGPRA). These costs will be budgeted as a Remaining Items Activity. See para. C-2.13 of this Annex.). Costs for Orphan Collections are included in Work Category Code 60260.

WORK CATEGORY CODE: 60413 - Management of Natural Resources Mitigation Features

WORK CATEGORY DESCRIPTION: Management of Natural Resources Mitigation Features.

Includes all costs for the management and operations of authorized mitigation activities including costs to comply with mitigation requirements specified in Federal law, Congressional legislation, or in HQ approved project authorization decision document, to offset unavoidable natural resources and ecological losses caused by the construction of the project or by project operation activities. This Work Category does not include acquisition costs.

WORK CATEGORY CODE: 60414 - Fisheries Management - Operation of Fish Hatcheries

WORK CATEGORY DESCRIPTION: Fisheries Management – Operation of Fish Hatcheries.

Includes all costs for salaries, equipment, supplies and all costs associated with the operation, of fish hatcheries, egg collecting stations and related facilities for provision of fish propagation. It excludes fisheries development activities included in Work Category Code 60411.

WORK CATEGORY CODE: **60415** - Fisheries Management - Fish Hauling Activities and Fish Passage Structures

WORK CATEGORY DESCRIPTION: Fisheries Management - Fish Hauling Activities and Fish Passage Structures.

Includes all costs associated with operation of facilities and equipment for collecting, trapping, transportation and passage of fish at dams and navigation facilities. Facilities include ladders, nets, elevators and locks. It excludes fisheries development activities included in Work Category Code 60411.

WORK CATEGORY CODE: **60416** - Comprehensive Master Plans

WORK CATEGORY DESCRIPTION: Preparation and Updating of Comprehensive Master Plans and Master Plan Supplementals.

Includes all costs to initiate new, or continue ongoing, comprehensive Master Plans, including all costs for salaries, supplies and materials, and equipment related to the preparation and updating of Master Plans and Master Plan Supplements. Charges may include field units that perform data collection and analysis.

WORK CATEGORY CODE: 60417 – Shoreline Management

WORK CATEGORY DESCRIPTION: Shoreline Management

Includes all costs associated with managing permits issued under authority of Title 36 CFR, the Shoreline management Program. Includes costs for salaries, contracts, supplies, materials and equipment.

WORK CATEGORY CODE: **60418** – Management of Special Status Species for Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Management of Special Status Species for Environmental Stewardship

Includes all environmental stewardship program function costs for management and operations to support special status species. Includes costs for salaries, contracts, supplies, materials, and equipment to manage the conservation and recovery of special status species such as Federally or state listed endangered, threatened, rare or sensitive species, including activities in areas under license, lease or outgrant. Includes activities to determine and document the state or condition of a resource or population (e.g. surveys, inventories); activities to increase understanding and appreciation of special status species such as interpretive programs, signs, surveillance activities, GPS/GIS mapping, marking populations boundaries and exclusion zones. Also includes costs to prepare or update Management Plans for Special Status Species, such as data collection and analysis, plan development, review and coordination.

WORK CATEGORY CODE: 60419 – Pest Management for Environmental Stewardship

WORK CATEGORY DESCRIPTION: Pest Management

Includes all costs for management and operations to support integrated pest management activities for the health and sustainability of natural resources. Includes costs of salaries, contracts, supplies,

materials, and equipment to control pests, control invasive exotic species, control noxious weeds and animals. Includes activities undertaken to determine the state or condition of a resource, or to determine population densities to assess the likelihood of resources damage by pests, and activities to increase understanding and appreciation of pest management activities.

WORK CATEGORY CODE: **60421** – Studies, Surveys and Inventories for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Natural Resources Studies, Surveys and Inventories for environmental stewardship features, including Fisheries and Wildlife Development Activities.

Includes all costs of fish and wildlife studies, including fish hauling and passage analyses to support longrange development and modification of existing structures, applicable to a specific project and pro rata share of basin-wide fish and wildlife studies; inventorying the natural resources base through Level One and Level Two Natural Resources Inventories; includes all costs to conduct surveys of fish and wildlife; and all costs to perform population dynamics and other studies.

WORK CATEGORY CODE: **60422** – Studies, Surveys and Inspections of Completed Works – Ecosystem Restoration

WORK CATEGORY DESCRIPTION: Studies, Surveys and Inspections of Ecosystem Restoration Features at Completed Projects Operated by Others.

Includes all costs related to the inspection of Federally constructed, locally operated and maintained projects to ensure compliance with Project Cooperative Agreements. Includes inspection of ecosystem restoration features, observations regarding compliance with any access or easement restrictions, and minimal documentation of the condition of the ecosystem. Includes all costs for technical review and approval of sponsor-proposed alterations, improvements, excavation or construction within the project boundaries; advice given to sponsors related to the effects of such activities on the function/operation of the project and information on acceptable construction methods; all costs to update O&M Manuals; initial funding of reconnaissance or evaluation reports; PED for deficiency correction and reconstruction as applicable until Construction (C) funds are allocated.

WORK CATEGORY CODE: 60430

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60441 - Water Management (Control and Quality) Activities for

Environmental Stewardship - Analysis and Studies

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for environmental stewardship features.

Includes all water management activity costs related to the conservation, protection, or enhancement of environmental stewardship features, e.g. natural aquatic communities, wetlands, including associated costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of

water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and decision support models within the new Corps Water Management System (CWMS). Costs for data collection are included in Work Category Code 60442.

WORK CATEGORY CODE: **60442** - Water Management (Control and Quality) Activities for Environmental Stewardship - Operation of Water Control Data Systems

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for environmental stewardship features.

Includes all costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61440.

WORK CATEGORY CODE: **60450** - Real Estate Management for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for environmental stewardship features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for environmental stewardship program purposes such as fish and wildlife habitat management, disposal of timber, and selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, as they relate to natural resources utilization or lands managed for natural resources. The general granting of land use to others and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits not supporting the environmental stewardship mission shall, in most instances, be charged to the grantee as administrative costs, including NEPA documentation costs In cases where it is in the public interest for the Corps to absorb the costs, those costs should be charged to the primary mission of the project such as flood damage reduction or navigation. Also includes the preparation of Report of Availability (ROAs); Environmental Baseline Surveys (EBSs); Finding of Suitability to Lease (FOSLs) or Finding of Suitability to Transfer (FOSTs) for real estate transactions when such action primarily concerns the stewardship of natural resources and fish and wildlife activities.

WORK CATEGORY CODE: **60460** - Environmental Compliance Management for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for environmental

stewardship features.

Includes all Environment Stewardship operational costs to comply with applicable Federal laws and regulations as they relate to the management of natural resources, including the National Environmental Policy Act (NEPA) Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations. [Environment Stewardship program costs to comply with requirements of the Endangered Species Act (ESA) should be charged to WCC 60418.] Includes cost to complete portions of annual external or internal environmental compliance assessment that are related to natural features or lands managed for fish and wildlife in accordance with Federal, DOD and Corps of Engineers requirements as described in the ERGO/TEAM environmental assessment manuals. Environmental compliance and inspections associated with Recreation such as concession inspections, visitor center inspections, maintenance shops that service recreation areas, marina inspections shall be charged to 60560. Cost associated with compliance and inspections for facilities associated with dam operations, levee works, pump station or maintenance areas that serve these functions shall be charged to 60560. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 60470

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60480

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60491 – Facility Security Assessments for Environmental Stewardship

WORK CATEGORY DESCRIPTION: Facility Security – Assessments, reviews, studies and analyses for environmental stewardship features.

Includes all costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness for environmental stewardship features. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Costs for guards and surveillance activities are included in Work Category Code 60492, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61490.

WORK CATEGORY CODE: **60492** – Facility Security Guards, Monitoring Activities for Environmental Stewardship

WORK CATEGORY DESCRIPTION: Facility Security – Guards and Monitoring Activities for environmental stewardship features.

Includes all costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Costs for assessments are included in Work Category Code 60491, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61490.

WORK CATEGORY CODE: 60511 - Operations for the Recreation Function

WORK CATEGORY DESCRIPTION: Operations and Management of Recreation Areas and Facilities, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for recreation features.

Includes all costs for the management and operation; necessary materials, supplies, equipment, transportation and rental costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of recreation areas and facilities including all costs for salaries, per diem, travel, signs collecting and administering user fees, brochures, maps, participation in public and special events and exhibitions, costs of trash removal, cleanup, mowing, and gate or park attendants. Also includes operations costs for buildings, grounds, landscaping, removal of hazardous trees, control of vegetation, roads, bridges, parking areas, grills, tables, trails, playgrounds and permanent operating equipment utilized for recreation purposes;

to perform reservoir inspections and patrols for recreation purposes;

of project-owned permanent facilities for recreation purposes;

of all tools and permanent operating equipment including direct costs of automotive and other equipment assigned to the recreation function. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles.

Costs previously included in 60512, Operations and Management for the Recreation Function using Special Recreation Users Fee (SRUF) Funds, should be included here.

Costs previously included here for Visitor Centers operations and management should now be included in Work Category Code 60514.

WORK CATEGORY CODE:

60513 - Operations for the Recreation Function - Law Enforcement Agreements

WORK CATEGORY DESCRIPTION: Operations for recreation features - Costs and Supervision of Law Enforcement Agreements.

Includes all costs for cooperative agreements for law enforcement with states and their political subdivisions under PL 94-587, and all costs for technical and administrative charges, including project and district costs for administration of law enforcement agreements and activities.

WORK CATEGORY CODE: **60514** – Operation/management of Visitor Centers

WORK CATEGORY DESCRIPTION: Operations and Management of Visitors Centers. Includes all costs for the management and operation; necessary materials, supplies, equipment, transportation and rental costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs of visitor centers. Includes all costs associated with visitor center operations, such as all personnel costs, custodial duties, supporting costs of cooperating

associations, snow, ice and debris removal, lawn and shrubbery maintenance, landscaping, utilities, exhibits, grounds, heating and cooling systems, audio visual programs, building material, and equipment costs. These costs were formerly included in WCC 60511

WORK CATEGORY CODE: 60520 - Studies and Surveys for the Recreation Function

WORK CATEGORY DESCRIPTION: Studies and Surveys for recreation features.

Includes all costs to prepare visitor surveys, reports or studies related to the operation, maintenance and rehabilitation of recreation facilities.

WORK CATEGORY CODE: 60530

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60541 - Water Management (Control and Quality) Activities for

Recreation - Analysis and Studies

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for recreation features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and decision support models within the new Corps Water Management System (CWMS). Costs for data collection are included in Work Category Code 60542.

WORK CATEGORY CODE: **60542** - Water Management (Control and Quality) Activities for Recreation - Operation of Water Control Data Systems

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for recreation features.

Includes all costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for

operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61540.

WORK CATEGORY CODE: 60550 - Real Estate Management for the Recreation Function

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for recreation features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property used for recreational purposes such as commercial concessions, public park and recreation, quasi-public and group camps. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, power line, and communication rights-of-way and other uses covered by easement, licenses, and permits that impact the recreational features of a project. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrant's, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states) on lands that support the recreational features of a project. Includes costs of utilization inspections of real property used for recreation under the control of or subject to a service agreement with the Corps of the Government and real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166) for lands that support the recreation program of a project.

WORK CATEGORY CODE: 60550 - Real Estate Management for the Recreation Function

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for recreation features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required,

and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government and real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60560** - Environmental Compliance Management for the Recreation Function

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for recreation features.

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for Recreation features. Includes all Recreational operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for recreation facilities and visitor centers. Includes cost to complete annual environmental compliance assessment, external and internal as inspections and findings related to recreational activities and in accordance with Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for recreation operations activities such as maintenance shops that support recreation, inspection of outgrants and concessions such as marinas, personnel training and management plans in spill prevention, hazard communication, pollution prevention, hazardous material, water resources, storage and handling of oil and pesticide management that support recreational activities. Includes costs associated with implementing and maintaining an Environmental Management System (EMS) for the recreational activities and support facilities (may be cost shared with other functions). Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 60570

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60580

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60591 – Facility Security Assessments for Recreation

WORK CATEGORY DESCRIPTION: Facility Security – Assessments, reviews, studies and analyses for recreation features.

Includes all costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness for recreation features. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Costs for guards and surveillance activities are included in Work Category Code 60592, and costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61590.

WORK CATEGORY CODE: 60592 – Facility Security Guards, Monitoring Activities for Recreation

WORK CATEGORY DESCRIPTION: Facility Security – Guards and Monitoring Activities for recreation features.

Includes all costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Costs for assessments are included in Work Category Code 60591, and costs to acquire, install and maintain structural and physical improvements for

security are included in Work Category Code 61590.

WORK CATEGORY CODE: **60610** - Joint Activities for Operations, FERC #535, #537, #538 and #539

WORK CATEGORY DESCRIPTION: Joint costs for Operations activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply. These activities may include the operation of Dams, Reservoirs, Levees, Other Non-Dam Multi-purpose Structures, Pumping Plants, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), gates, conduits, Permanent Operating Equipment, etc.

Includes all joint costs for the operation routine materials, supplies, equipment and transportation costs; hired labor and contract support associated with operations; and other costs:

of dam structures and appurtenant equipment such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to perform reservoir inspections and patrols, removal and control of trash and debris (excluding major periodic or one-time removal of growth and debris from the reservoir which should be included in maintenance accounts); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and routine, recurring maintenance of boundary monumentation at projects without natural resource activities, insect control and elimination of health and safety hazards:

of levees and other non-dam multi-purpose structures; vegetation control, removal of snow and ice from multi-purpose structures;

of pumping plants, pumps and associated equipment; collecting and maintaining operational records; routine replacement, purification and testing of insulating, lubricating and hydraulic oils; lubricants and lubricating equipment; minor maintenance of electrical equipment, cleaning, testing, and adjustment of motor starters, relays, meters, and similar equipment; minor maintenance of pumps, motors, engines, trash raking equipment, gate hoists, gates, fire fighting, and other equipment required for operation; minor maintenance of buildings, roads, and grounds; removal of debris, ice, and snow;

of project-owned permanent facilities such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from

project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Where space in other basic structures, such as a dam or powerhouse, is used in lieu of any above mentioned facilities, such allocated space is not separated from the basic structure. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery is charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories of all tools and equipment, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment not assigned to specific features. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles. Operating costs of permanent equipment assigned to specific functions will be charged to those functions.

WORK CATEGORY CODE: **60621** - Joint Activities for Studies and Surveys, FERC #535, #537, #538 and #539

WORK CATEGORY DESCRIPTION: Joint costs for Studies and Surveys including project condition surveys, dredging studies, etc. NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs to perform studies or surveys for multi-purpose projects including sedimentation conditions and dredging studies.

WORK CATEGORY CODE: **60622** - Joint Activities for Studies and Surveys - Major Rehabilitation Evaluation Reports, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs for Studies and Surveys - Major Rehabilitation Evaluation Reports NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction (C) funds are allocated to the project.

WORK CATEGORY CODE:

60631 - Joint Activities for Instrumentation, Data Collection and Analysis for Dam Safety, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs of Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for the operation of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: 60632 - Joint Activities for Formal Periodic Inspections and Reports for Dam Safety, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs for Formal Periodic Inspections and Reports for Dam Safety NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

- (a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.
 - (b) Public Bridges.
- (c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.
- (d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: 60633 - Joint Activities for Dam Safety Assurance Studies, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs for Dam Safety Assurance Studies NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60641** - Joint Activities for Water Management (Control and Quality) - Analysis and Studies, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs for Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Included also are costs to calibrate and make operational the forecasting and decision support models within the new Corps Water Management System (CWMS). Joint costs for data collection are included in Work Category Code 60642.

WORK CATEGORY CODE: 60642 - Joint Activities for Water Management (Control and Quality) -

Operation of Water Control Data Systems, FERC #537

WORK CATEGORY DESCRIPTION: Joint costs for Water Management (Control and Quality) Activities - Operation of Water Control Data Systems NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for the operation of equipment, personnel and space to collect and process the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems including the new Corps Water Management System (CWMS). Includes costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61640.

WORK CATEGORY CODE: 60650 - Joint Activities for Real Estate Management, FERC #539

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate Management including Compliance, and Utilization Inspections NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where noncompliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government. Includes reconciliation of financial records with flood damage reduction land and mineral lease receipts, and real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60660** - Joint Activities for Environmental Compliance Management, FERC #539

WORK CATEGORY DESCRIPTION: Joint costs for Environmental Compliance Management activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations. Includes cost to complete annual environmental compliance assessment, external or internal. Federal, DOD and Corps of Engineers

requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Includes costs associated with implementing and maintaining an Environmental Management System (EMS). Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 60670

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60680

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 60691 – Joint Activities for Facility Security Assessments

WORK CATEGORY DESCRIPTION: Joint Costs for Facility Security – Assessments, reviews, studies and analyses NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs to conduct and prepare security risk assessments, reviews, evaluations, studies and analyses for facility security related to criminal and terrorist activities. Includes costs to evaluate threats, consequences and security system effectiveness. Also includes costs to prepare or revise Emergency Action Plans and plans to address facility protection and security, training and appropriate coordination with other agencies as they relate to criminal and terrorist activities. Joint costs for guards and surveillance activities are included in Work Category Code 60692, and joint costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61690.

WORK CATEGORY CODE: 60692 - Joint Activities for Facility Security Guards, Monitoring Activities

WORK CATEGORY DESCRIPTION: Joint Costs for Facility Security – Guards and Monitoring Activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for guards and security system monitoring activities including training of personnel for facility security related to criminal and terrorist activities. Joint costs for assessments are included in Work Category Code 60691, and joint costs to acquire, install and maintain structural and physical improvements for security are included in Work Category Code 61690.

WORK CATEGORY CODE: **60711** - National Emergency Preparedness Program (NEPP) - Continuity of Operations

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Continuity of Operations activities.

Includes all costs required to develop, maintain and exercise Continuity of Operations Plans (COOP). Includes personnel and contracting costs for development of plans and Standard Operating Procedures (SOPs), training, participation in exercises and program management associated with USACE relocation

and reconstitution missions as a result of either a natural or manmade (caused) disaster or emergency.

WORK CATEGORY CODE: **60712** - National Emergency Preparedness Program (NEPP) - National Preparedness Planning

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - National Preparedness Planning activities.

Includes all costs associated with, or in support of, deliberate planning for assigned catastrophic disaster response plans which ensure that Corps MSCs and districts can support the Nation during national emergency events. Includes personnel and contracting costs for deliberate planning, development of Standard Operating Procedures (SOPs), training, exercises, program management and coordination with related Federal, State, and local entities. Also includes costs associated with preparedness planning for Port Readiness and Military Assistance to Civil Disturbances.

WORK CATEGORY CODE: 60713 - National Emergency Preparedness Program (NEPP) - Support of Emergency Operations Centers (EOCs)

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Support of Emergency Operations Centers (EOCs)

WORK CATEGORY CODE: **60714** - National Emergency Preparedness Program (NEPP) - Emergency Water Program

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Emergency Water Program.

Includes all personnel and contracting costs for those activities required to execute E.O. 12656 related to the Emergency Water Program. (For HQUSACE use only.)

WORK CATEGORY CODE: **60715** - National Emergency Preparedness Program (NEPP) - Continuity of Government

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Continuity of Government.

Includes all personnel and contracting costs for those activities associated with Continuity of Government, including plans to support the Federal Emergency Management Agency (FEMA) and other Federal, State and local agencies in their efforts to reestablish civil authority lost as a result of natural or manmade (caused) disaster or an attack on the United States. (For HQUSACE use only as directed.)

WORK CATEGORY CODE: 60716 - National Emergency Preparedness Program (NEPP) - Training and Exercises

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Training and Exercises.

Includes all costs for the development of and the participation in catastrophic disaster training and exercises in the inter- and intra-agency arena.

WORK CATEGORY CODE: 60811 - Operations for Water Supply

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WORK CATEGORY DESCRIPTION: Operations of Project Gates, Specific Water Supply Conduits, Permanent Operating Equipment, etc. for water supply features.

Includes all costs for the operation; necessary materials, supplies, equipment and transportation costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs: of project gates, specific water supply conduits and permanent operating equipment specifically for water supply. Prior to FY 07, these costs have been included in WCC 60210.

WORK CATEGORY CODE: 60812 - Water Supply Agreements

WORK CATEGORY DESCRIPTION: Development and Renegotiation of Water Supply Agreements.

Includes all labor and associated costs involved in the development of new water supply agreements and for costs required for existing water supply agreements such as billings and collections including delinquencies, lawsuits and modifications and renegotiations of such agreements. Prior to FY 07, these costs have been included in WCC 60210.

WORK CATEGORY CODE: 60820 - Studies and Surveys for the Water Supply Function

WORK CATEGORY DESCRIPTION: Studies and Surveys for water supply features.

Includes all costs to prepare new or continuing reports associated with the reallocation of an existing project purpose to water supply. Prior to FY 07, these costs have been included in WCC 60221.

Section C-4.3d Work Category Codes and Definitions O&M Maintenance Accounts By Business Line:

Navigation (611--)
Flood Damage Reduction (612--)
Hydropower (613--)
Environmental Stewardship (614--)
Recreation (615--)
Joint Activities (616--)
Reserved (617--)
Water Supply (618--)

A Breakdown of Work Category Codes (WCCs) and descriptions under these functions is on the following pages:

WORK CATEGORY CODE:

61110 - Maintenance for the Navigation Function

WORK CATEGORY DESCRIPTION: Maintenance of Locks, Dams, Reservoirs, Dikes, Revetments, Breakwaters, Jetties, Seawalls, Piers, Levees and Similar Structures, Service Facilities, Permanent Operating Equipment, etc. excluding dredging activities for navigation features.

Includes all direct costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of; related costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment for non-Water Management activities:

of lock and salt water control structures and facilities for passage of waterborne traffic, including gates, valve operating machinery, lock walls, and guide and guard-walls including dolphins within the lock approaches for tie up, guard, or guide purposes;

of facilities and equipment for dams, spillways, outlet works and auxiliary dams;

of reservoirs and facilities including floating trash booms, trash racks, erosion control, drainage, major periodic or one time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60110); rim grouting or mine sealing, etc., to prevent leakage;

of revetments, dikes, groins, breakwaters, jetties, seawalls, piers, levees and similar structures provided in seas, lakes, rivers, canals, exposed tidal waters, and harbors;

of non-dredging navigation channel maintenance including snagging, clearing, aquatic plant removal, removal of sunken vessels, drift removal, rock and other debris removal;

of buildings, grounds, utilities, and roads, railroads and bridges, such as administration and shop

buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes direct costs for project utilities including electrical, gas, water, and sewer systems;

of permanent operating equipment;

of buildings, grounds and utilities that are part of the hydraulic models in South Pacific Division;

and for instrumentation on lock facilities and dam structures including all costs for the installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: 61121 - Dredging Activities for the Navigation Function

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for navigation activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all costs for maintenance dredging and disposal activities of navigation channels and canals, except project condition sediment survey costs which are included in Work Category Code 60121. Includes costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. Costs for long-range environmental requirements are included in Work Category Code 60123. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

NOTE: Line item submissions for Corps-owned hopper dredges should be separate from line item submissions for any other dredges.

WORK CATEGORY CODE: 61122 - Dredging - Construction and Maintenance of Dredged Material Disposal Facilities for the Navigation Function

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for navigation features.

Includes all costs for the construction and the maintenance of dredged material disposal facilities including confined disposal facilities, and costs for required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation, and equipment usage.

WORK CATEGORY CODE: **61130** – Dam Safety Remediation of Deficiencies for the Navigation Function

WORK CATEGORY DESCRIPTION: Remediation of Safety Deficiencies for Dams, Levees and Other Structures as appropriate for navigation features.

Includes all direct costs for the non-routine repair, replacement and corrections to all dams included in the

National Inventory of Dams plus any levees, diversion structures and related appurtenances maintained at Federal expense to remediate dam safety deficiencies. Includes related costs for contracts, parts, replacements, special tools, supplies and materials, government plant, hired labor to include contract support, transportation costs and other costs required to perform this work. Specifically, this includes non-routine maintenance and/or repair work for dams and pertinent structures and levees that have either been identified by any means as having a Dam Safety Deficiency or has been concurred to be deficient by the District Commander, his appointed Dam Safety Officer or District Dam Safety Program Manager. Dam Safety maintenance or repair work may be identified by any means such as a study, criteria review, or any scheduled or unscheduled inspection. Dam safety related work such as inspections, inspection reports, rehabilitation reports, studies, surveys, and instrumentation will be categorized under the existing Work Category Codes in accordance with current practice. Only the actual work to include the associated plans and specifications (P&S), engineering and design (E&D) for the repairs or remedial corrections will be included in this Work Category Code as appropriate. For those business programs that do not specifically have a Work Category Code for Dam Safety (61130, 61230 and 61330) yet may encounter dam safety related work, the costs should be included in the primary business program for that project. In previous years these costs were included in WCC 61110. Costs are only included in this Work Category Code if they meet the above definition for Dam Safety. Costs for regular, recurring maintenance activities will not be included in this WCC.

WORK CATEGORY CODE: **61140** - Water Management (Control and Quality) Equipment for the Navigation Function

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for navigation features.

Includes all costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments, or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the new Corps Water Management System (CWMS). This also includes costs for maintenance and support of CWMS.

WORK CATEGORY CODE: 61151 - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Navigation Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities. Settlement of Claims, and Audits for navigation features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: 61152 - Real Estate - Resolution of Real Estate Encroachments for the Navigation Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for navigation features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. The costs for boundary line surveys and remarking are included in Work Category Code 61153.

WORK CATEGORY CODE: 61153 - Real Estate - Boundary Monumentation and Rectification for the Navigation Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for navigation features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61160** - Environmental Compliance (Remedial Actions) for the Navigation Function

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Locks, Dams, Reservoirs, Breakwaters, Jetties, Seawalls, Piers, Levees, Other Control Structures, Pumping Plants, Other Facilities, Channels and Canals for navigation features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal environmental laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for locks, dams, reservoirs, breakwaters, jetties, seawalls, piers, levees, other control structures, pumping plants, other facilities, channels and canals. Includes cost for corrective actions related to environmental compliance assessment findings related to the Navigation function. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 61170 - O&M Major Rehabilitation Projects for the Navigation Function

WORK CATEGORY DESCRIPTION: Remaining O&M Funded Major Rehabilitation projects for navigation features.

Includes all major rehabilitation costs such as repair, replacement, additions and efficiency improvements to lock structures and facilities for passage of waterborne traffic, and all costs for facilities and equipment for dams, spillways, outlet works and auxiliary dams including gates, valve operating machinery, lock walls, and guide and guard-walls including dolphins within the lock approaches for tie up, guard, or guide purposes.

NOTE: Major rehabilitation, deficiency correction, and reconstruction projects are programmed for initial

Construction (C) appropriation and Inland Waterways Trust Fund moneys, as appropriate, only after applicable reconnaissance and/or evaluation reports have been approved. Work items for Major Rehabilitation Evaluation Reports are included in Work Category Code 60122. This Work Category will be used only until O&M funded Major Rehabilitation projects are completed.

WORK CATEGORY CODE: 61180

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61191 – Facility Security Maintenance and Replacement for Navigation

WORK CATEGORY DESCRIPTION: Facility Security – Maintenance and Replacement for navigation features.

Includes all costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes costs to maintain, repair or replace permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Costs for assessments are included in Work Category Code (WCC) 60191, and costs for guards and surveillance activities are included in WCC 60192. Costs for improvements and modifications are included in WCC 61192. Includes some costs formerly included in WCC 61190.

WORK CATEGORY CODE: **61192** – Facility Security Physical Improvements and Modifications for Navigation

WORK CATEGORY DESCRIPTION: Facility Security – Physical Improvements and Modifications for navigation features.

Includes all costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes costs for permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Includes some costs formerly included in WCC 61190.

WORK CATEGORY CODE: 61211 - Maintenance for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Maintenance of Dams, Reservoirs, Levees, Floodwalls, Hurricane Barriers, and Other Flood Damage Reduction Structures; Snagging, Clearing, Aquatic Plant Removal, Rock and Other Debris Removal, and Other Non-Dredging Flood Damage Reduction Channel Maintenance; Pumping Plants, Other Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Maintenance and Purchase of Permanent Operating Equipment for Non-Water Control Management Activities; etc. excluding dredging for flood damage reduction features.

Includes all direct costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of; related costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment for non-Water Management activities:

of facilities and equipment for dams, spillways, outlet works and auxiliary dams;

of reservoirs and facilities including floating trash booms, trash racks, erosion control, drainage, major periodic or one-time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60210); and rim grouting or mine sealing, etc., to prevent leakage;

of levees, floodwalls, hurricane barriers, embankments, walls, in-channel structures, and other flood damage reduction structures to protect areas from inundation; and snagging, clearing, debris removal, and non-dredging flood damage reduction channel maintenance. This includes direct costs for removal of trees, brush, accumulated snags, drifts, and debris from canals and waterways for flood damage reduction and major drainage purposes; and channel improvement structures and revetments, linings, dikes, jetties, bulkheads, and buildings (when provided for flood damage reduction);

of pumping plants including such items as buildings, pumps, and prime movers including power supplies, controls, piping, and all other associated facilities;

of buildings, grounds, utilities, and roads, railroads and bridges, such as administration and shop buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes direct costs for project utilities including electrical, gas, water, and sewer systems; of permanent operating equipment;

and for instrumentation on dam structures and levees, floodwalls, hurricane barriers, and other flood damage reduction structures including all costs for the installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

Costs for Water Supply activities formerly charged to this Work Category Code should now be charged to Work Category Code 61810.

WORK CATEGORY CODE:

61212 - Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for Mississippi River and Tributaries (MR&T) Flood Damage Reduction

WORK CATEGORY DESCRIPTION: Maintenance of Dikes, Revetments, Groins, Breakwaters, Jetties, Seawalls and Similar Structures for MR&T flood damage reduction purposes.

Includes all costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of revetments, dikes, groins, breakwaters, seawalls, piers, linings, training dikes, bulkheads and similar structures. Also includes related costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs, equipment usage, associated government plant and hired labor for project maintenance, contract support, and other costs.

WORK CATEGORY CODE: 61221 - Dredging Activities for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for flood damage reduction

activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all costs for dredging, excavation and disposal activities for the maintenance and efficiency improvements of channels and canals for flood damage reduction purposes, except project condition sediment survey costs which are included in Work Category Code 60221. Includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; and creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: 61222 - Dredging - Construction and Maintenance of Disposal Facilities for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for flood damage reduction features.

Includes all costs for the construction and the maintenance of dredged material disposal facilities including confined disposal facilities, and required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: **61230** - Dam Safety Remediation of Deficiencies for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Remediation of Safety Deficiencies for Dams, Levees and Other Structures as appropriate for navigation features.

Includes all direct costs for the non-routine repair, replacement and corrections to all dams included in the National Inventory of Dams plus any levees, diversion structures and related appurtenances maintained at Federal expense to remediate dam safety deficiencies. Includes related costs for contracts, parts, replacements, special tools, supplies and materials, government plant, hired labor to include contract support, transportation costs and other costs required to perform this work. Specifically, this includes non-routine maintenance and/or repair work for dams and pertinent structures and levees that have either been identified by any means as having a Dam Safety Deficiency or has been concurred to be deficient by the District Commander, his appointed Dam Safety Officer or District Dam Safety Program Manager. Dam Safety maintenance or repair work may be identified by any means such as a study, criteria review. or any scheduled or unscheduled inspection. Dam safety related work such as inspections, inspection reports, rehabilitation reports, studies, surveys, and instrumentation will be categorized under the existing Work Category Codes in accordance with current practice. Only the actual work to include the associated plans and specifications (P&S), engineering and design (E&D) for the repairs or remedial corrections will be included in this Work Category Code as appropriate. For those business programs that do not specifically have a Work Category Code for Dam Safety (61130, 61230 and 61330) yet may encounter dam safety related work, the costs should be included in the primary business program for that project. In previous years these costs were included in WCC 61110. Costs are only included in this Work Category Code if they meet the above definition for Dam Safety. Costs for regular, recurring maintenance activities will not be included in this WCC.

WORK CATEGORY CODE: 61240 - Water Management (Control and Quality) Equipment for the

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Flood Damage Reduction Function

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for flood damage reduction features.

Includes all costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments, or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the new Corps Water Management System (CWMS). This also includes costs for maintenance and support of CWMS.

WORK CATEGORY CODE: 61251 - Real Estate - Land Acquisition and Disposal Management

Activities, Settlement of Claims, and Audits for the Flood Damage

Reduction Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for flood damage reduction features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: 61252 - Real Estate - Resolution of Real Estate Encroachments for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for flood damage reduction features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking are included in Work Category Code 61253.

WORK CATEGORY CODE: **61253** - Real Estate - Boundary Monumentation and Rectification for the Flood Damage Reduction Function

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for flood damage reduction features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. Under normal circumstances

there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: 61260 - Environmental Compliance (Remedial Actions) for the Flood

Damage Reduction Function

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Dams, Breakwaters, Jetties, Seawalls, Levees, Floodwalls, Hurricane Barriers, Other Flood Damage Reduction Structures, Pumping Plants, Other Facilities, Channels and Canals for flood damage reduction features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal environmental laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for dams, breakwaters, jetties, seawalls, levees, floodwalls, hurricane barriers, other flood damage reduction structures, pumping plants, other facilities, channels and canals. Includes cost for corrective actions related to environmental compliance assessment findings related to flood damage reduction activities. Costs include salaries of environmental compliance coordinators and administration, contaminant detection, waste analysis, site investigations, site remediation of recent and past releases or contamination resulting from Flood Damage Reduction activities; treatment system installation, repair or renovation, erosion protection of structures or pool, responding to spills from FDR facilities, disposal of unclaimed barrels or containers, and responding or clean-up of pesticide or chemical releases that flood damage reduction activities on Corps or outgranted lands. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 61270

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61280

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61291 – Facility Security Maintenance and Replacement for Flood

Damage Reduction

WORK CATEGORY DESCRIPTION: Facility Security – Maintenance and Replacement for flood damage reduction features.

Includes all costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes costs to maintain, repair or replace permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Costs for assessments are included in Work Category Code (WCC) 60291, and costs for guards and surveillance activities are included in WCC 60292. Costs for improvements and modifications are included in WCC 61292. Includes some costs formerly included in WCC 61290.

WORK CATEGORY CODE: 61292 – Facility Security Physical Improvements and Modifications for

Flood Damage Reduction

WORK CATEGORY DESCRIPTION: Facility Security - Physical Improvements and Modifications for

flood damage reduction features.

Includes all costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes costs for permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Includes some costs formerly included in WCC 61290.

WORK CATEGORY CODE: **61310 (61311-61314)** Maintenance for the Hydropower Function Costs for this function will be sub-divided as follows:

61311 Maintenance Supervision, FERC #541. Costs for labor, materials and expenses incurred in the general supervision of maintenance of hydraulic power generating stations. Direct supervision of specific jobs is charged to the appropriate maintenance feature;

61312 Maintenance of Hydraulic Structures, FERC #542. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the powerhouse, and power intake works whether or not the powerhouse is an integral part of the intake dam;

61313 Maintenance of Electric Plant, FERC #544. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant generating and accessory electrical and mechanical equipment, and switchyard electrical and mechanical equipment;

61314 - Maintenance of Miscellaneous Hydraulic Plant, FERC #545. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant and switchyard hydraulic plant.

WORK CATEGORY DESCRIPTION: Maintenance of Power Plants, excluding dredging for hydropower features.

Includes all costs for power plant maintenance and repair, replacements, additions and efficiency improvements to, and retirement of all power plant structures; of facilities and equipment required for production, transmission, and distribution of electrical power, including but not limited to the power plant, spillway, low flow bypass systems, storage facilities, turbines, motors, pumps, generators, and governors; of all accessory electrical or electronic equipment and control systems; of all water, air, and oil systems; of all intake structures with electrical and mechanical equipment; of the tailrace, switchyard, transformer yard, elevators, trash racks; and of lighting and interior power distribution systems, cable tunnels and conduit runs; and installation of instrumentation. Includes spare parts, special and regular tools, supplies and equipment, scaffolding, and rental of specialized equipment. Includes labor and materials, and incidental expenses incurred to maintain maintenance records; expenses incurred by the power plant management and support staff in the general supervision of the maintenance of the hydraulic generating station; and transportation and per diem costs required to perform power plant maintenance functions. Dredging is included in Work Category Code 61320.

WORK CATEGORY CODE: 61320 - Dredging Activities for the Hydropower Function, FERC #543

WORK CATEGORY DESCRIPTION: Dredging for hydropower activities including all disposal activities.

Includes all costs for maintenance dredging and disposal activities, except project condition sediment

survey costs which are included in Work Category Code 60321. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: 61330 – Dam Safety Remediation of Deficiencies for the Hydropower Function

WORK CATEGORY DESCRIPTION: Remediation of Safety Deficiencies for Dams, Levees and Other Structures as appropriate for hydropower features.

Includes all direct costs for the non-routine repair, replacement and corrections to all dams included in the National Inventory of Dams plus any levees, diversion structures and related appurtenances maintained at Federal expense to remediate dam safety deficiencies. Includes related costs for contracts, parts, replacements, special tools, supplies and materials, government plant, hired labor to include contract support, transportation costs and other costs required to perform this work. Specifically, this includes non-routine maintenance and/or repair work for dams and pertinent structures and levees that have either been identified by any means as having a Dam Safety Deficiency or has been concurred to be deficient by the District Commander, his appointed Dam Safety Officer or District Dam Safety Program Manager. Dam Safety maintenance or repair work may be identified by any means such as a study, criteria review, or any scheduled or unscheduled inspection. Dam safety related work such as inspections, inspection reports, rehabilitation reports, studies, surveys, and instrumentation will be categorized under the existing Work Category Codes in accordance with current practice. Only the actual work to include the associated plans and specifications (P&S), engineering and design (E&D) for the repairs or remedial corrections will be included in this Work Category Code as appropriate. For those business programs that do not specifically have a Work Category Code for Dam Safety (61130, 61230 and 61330) yet may encounter dam safety related work, the costs should be included in the primary business program for that project. In previous years these costs were included in WCCs 61311-61314. Costs are only included in this Work Category Code if they meet the above definition for Dam Safety. Costs for regular, recurring maintenance activities will not be included in this WCC.

WORK CATEGORY CODE: **61340** - Water Management (Control and Quality) Equipment for the Hydropower Function, FERC #542

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for hydropower features.

Includes all costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments, or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the new Corps Water Management System (CWMS). This also includes costs for maintenance and support of CWMS.

WORK CATEGORY CODE: 61351 - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Hydropower Function, FERC #545

WORK CATEGORY DESCRIPTION: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for hydropower features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: 61352 - Real Estate - Resolution of Real Estate Encroachments for the Hydropower Function, FERC #545

WORK CATEGORY DESCRIPTION: Real Estate - Resolution of Real Estate Encroachments for hydropower features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. The costs for boundary line surveys and remarking are not included in this Work Category.

WORK CATEGORY CODE: **61353** - Real Estate - Boundary Monumentation and Rectification for the Hydropower Function, FERC #545

WORK CATEGORY DESCRIPTION: Real Estate - Boundary Monumentation and Rectification for hydropower features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61360** - Environmental Compliance (Remedial Actions) for the Hydropower Function, FERC #545

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Dams, Levees, Other Control Structures, Power Plants, Pumping Plants, and Other Facilities for hydropower features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal environmental laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for dams, levees, other control structures, power plants, pumping plants, and other facilities. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Includes cost for corrective actions related to environmental compliance assessment findings related to the Hydropower function

WORK CATEGORY CODE: 61370 (61371-61374) - O&M Major Rehabilitation Projects for the

Hydropower Function Costs for this function will be further subdivided as

follows:

61371 - Comprehensive Replacement Supervision, FERC #541. Costs for labor, materials and expenses incurred in the supervision of the comprehensive replacement of hydraulic power generating stations. Direct supervision of specific jobs is charged to the appropriate maintenance feature:

61372 - Comprehensive Replacement of Structures, FERC #542. Costs for labor, materials and expenses incurred in the comprehensive replacement of the powerhouse, switchyard, and power intake works whether or not the powerhouse is an integral part of the intake dam;

61373 - Comprehensive Replacement of Electric Plant, FERC #544. Costs for labor, materials and expenses incurred in the comprehensive replacement of the power plant generating and accessory electrical and mechanical equipment, and switchyard electrical and mechanical equipment;

61374 - Comprehensive Replacement of Miscellaneous Hydraulic Plant, FERC # 545. Costs for labor, materials and expenses incurred in the comprehensive replacement of the power plant and switchyard hydraulic plant.

WORK CATEGORY DESCRIPTION: Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) projects for hydropower features.

Includes all costs for comprehensive major rehabilitation, replacement, repair, additions and efficiency improvements, including supervision, of all power plant structures, electric plant, miscellaneous hydraulic plant, power plant intake works; of facilities and equipment required for production, transmission, and distribution of electrical power, including but not limited to the power plant, spillway, low flow bypass systems, storage facilities, turbines, motors, pumps, generators, and governors; of all accessory electrical or electronic equipment and control systems; of all water, air, and oil systems; of all intake structures with electrical and mechanical equipment; of the tailrace, switchyard, transformer yard, elevators, trash racks; and of lighting and interior power distribution systems, cable tunnels and conduit runs. Includes labor and materials, special and regular tools, supplies and equipment, scaffolding, and rental of specialized equipment. See Work Category Codes 61310 (61311-61314) and 613N0 (613N1-613N4).

NOTE: Major Rehabilitation work is now funded under the Construction (C) appropriation. Work items for Major Rehabilitation Evaluation Reports are included in Work Category Code 60325. This Work Category will be used only until current O&M funded Major Rehabilitation projects are completed.

WORK CATEGORY CODE: 61380

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61391 – Facility Security Maintenance and Replacement for Hydropower

WORK CATEGORY DESCRIPTION: Facility Security – Maintenance and Replacement for hydropower features.

Includes all costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes costs to maintain, repair or replace permanent or

temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Costs for assessments are included in Work Category Code (WCC) 60391, and costs for guards and surveillance activities are included in WCC 60392. Costs for improvements and modifications are included in WCC 61392. Includes some costs formerly included in WCC 61390.

WORK CATEGORY CODE: **61392** – Facility Security Physical Improvements and Modifications for Hydropower

WORK CATEGORY DESCRIPTION: Facility Security – Physical Improvements and Modifications for hydropower features.

Includes all costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes costs for permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Includes some costs formerly included in WCC 61390.

WORK CATEGORY CODE: **61411** - Maintenance of Natural Resource Facilities for Environmental Stewardship function

WORK CATEGORY DESCRIPTION: Maintenance of Natural Resource Facilities.

Includes all costs to perform maintenance needed to foster healthy and sustainable lands and waters, and to conserve and protect natural resources and associated facilities located on project lands. This Work Category only includes costs during the conservation or protection effort.

WORK CATEGORY CODE: 61412 - Mitigation of Archeological and Cultural Resources

WORK CATEGORY DESCRIPTION: Mitigation of Archeological and Cultural Resources such as Sites, Structures, and Objects.

Includes all costs to manage, curate, maintain and rehabilitate identified archeological collections and associated documentation and long term collections management. Also includes cultural resources mitigation costs to protect, recover, preserve or otherwise mitigate significant archaeological, historical, and cultural buildings, sites, structures or objects. This Work Category only includes costs during the recovery, preservation, or mitigation effort.

WORK CATEGORY CODE: 61413 - Maintenance of Natural Resources Mitigation Features

WORK CATEGORY DESCRIPTION: Maintenance of Natural Resources Mitigation Features.

Includes all costs for the maintenance and repair of natural resources mitigation features to comply with mitigation requirements specified in Federal law, Congressional legislation, or in HQ approved project authorization decision document,. to offset unavoidable natural resources and ecological losses caused by the construction of a project or by project operation activities. This Work Category only includes costs during the mitigation effort.

WORK CATEGORY CODE: **61414** - Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures

WORK CATEGORY DESCRIPTION: Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures for environmental stewardship features.

Includes all costs for maintenance and repair of fish hatcheries, egg collection stations, transportation equipment, and fish passage facilities.

WORK CATEGORY CODE: 61418 – Maintenance of Special Status Species for Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Maintenance of Special Status Species for environmental stewardship features.

Includes all costs for maintenance of resources and features supporting special status species. Includes costs of salaries, contracts, equipment, supplies and materials to protect and maintain species of special concern such as Federal or state listed endangered, threatened, rare or sensitive species, including activities in areas under license, lease, or outgrant. Includes activities undertaken to maintain a resource, population, habitat or management feature, such as vegetation manipulation, timber management, prescribed burning, and activities to protect populations and individual specimens (e.g. citation authority program, surveillance activities, identifying and monitoring exclusion zones). The cost of special status species maintenance that is a function of activities of another business line, e.g. navigation, shall be funded by that business line as a cost of doing business, using work category codes associated with the appropriate business line.

WORK CATEGORY CODE: 61421 - Dredging Activities for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for environmental stewardship activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all costs for maintenance dredging of project channels and canals, and disposal activities, except project condition sediment survey costs which are included in Work Category Code 60420. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; and creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: 61422 - Dredging - Construction and Maintenance of Disposal Facilities for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for environmental stewardship features.

Includes all costs for the construction and the maintenance of disposal facilities including confined disposal facilities, and required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

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WORK CATEGORY CODE: 61430

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61440 - Water Management (Control and Quality) Equipment for the

Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for environmental stewardship features.

Includes all costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments, or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the new Corps Water Management System (CWMS). This also includes costs for maintenance and support of CWMS.

WORK CATEGORY CODE: 61451 - Real Estate - Land Acquisition and Disposal Management

Activities, Settlement of Claims, and Audits for the Environmental

Stewardship Function

WORK CATEGORY DESCRIPTION: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for environmental stewardship features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management which is included in Work Category Code 60411.

WORK CATEGORY CODE: 61452 - Real Estate - Resolution of Real Estate Encroachments for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Real Estate - Resolution of Real Estate Encroachments for environmental stewardship features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking are included in Work Category Code 61453.

WORK CATEGORY CODE: **61453** - Real Estate - Boundary Monumentation and Rectification for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Real Estate - Boundary Monumentation and Rectification for environmental stewardship features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61460** - Environmental Compliance (Remedial Actions) for the Environmental Stewardship Function

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) of Natural Resources including Other Service Facilities for environmental stewardship features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for natural resources and other environmental stewardship features. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 61470

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61480

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61491 – Facility Security Maintenance and Replacement for

Environmental Stewardship

WORK CATEGORY DESCRIPTION: Facility Security – Maintenance and Replacement for environmental stewardship features.

Includes all costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes costs to maintain, repair or replace permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Costs for assessments are included in Work Category Code (WCC) 60491, and costs for guards and surveillance activities are included in WCC 60492. Costs for improvements and modifications are included in WCC 61492. Includes some costs formerly included in WCC 61490.

WORK CATEGORY CODE: **61492** – Facility Security Physical Improvements and Modifications for Environmental Stewardship

WORK CATEGORY DESCRIPTION: Facility Security – Physical Improvements and Modifications for environmental stewardship features.

Includes all costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes costs for permanent or temporary barriers, fencing, traffic signs, lighting,

communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Includes some costs formerly included in WCC 61490.

WORK CATEGORY CODE: 61511 - Maintenance of Recreation Features

WORK CATEGORY DESCRIPTION: Maintenance of Recreation areas and Facilities, Service Facilities – (Buildings, Grounds, Utilities, Roads and Bridges), Erosion Control in Recreation Areas, and Maintenance and Purchase of Permanent Operating Equipment for recreation features.

Includes all costs for the maintenance and repair, replacement, additions and efficiency improvements to. or retirement of, recreation facilities and structures such as grills, tables, playgrounds, trails, campgrounds, picnic areas, restrooms, showers, boat ramps, parking areas, roads, grounds, utilities associated with recreation use, buildings used for recreation purposes or the collection of fees and other structures used to support the recreation function. Also included are the costs for realignment, overlay, grading, and widening, of roads, parking areas, bridges and walkways associated with recreational development, and all costs for control of erosion endangering recreational areas or facilities, including seeding, sodding, riprap, gabions, vegetation, retaining walls and other measures. Also includes the costs for permanent operating equipment such as backhoe, trencher, bucket truck, tractor loader, vehicles, communications equipment, and computers used to support the recreation function of the project. This Work Category also includes costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs and equipment usage, and costs to bring facilities up to modern design standards and to provide accessibility for persons with disabilities as required. Includes costs for new recreation facilities, if the goal of providing quality public recreation experiences with the most cost efficient management of water resources development projects can be met.

This Work Category Code includes costs previously included in Work Category Code 61512, Maintenance of Recreation Facilities using SRUF funds (see paragraph C-2.15 SRUF).

SRUF costs previously included under Work Category Code 61512 should now be included under Work Category Code 61511.

WORK CATEGORY CODE: 61513 - Maintenance of Recreation Features - Cost Shared Recreation Developments

WORK CATEGORY DESCRIPTION: Cost Shared Recreation Developments - Contracts and Negotiations.

Includes all recreation cost share agreements and contract costs; costs to reimburse local sponsors; and costs for monitoring and negotiating agreements related to cost sharing.

WORK CATEGORY CODE: 61514 – Maintenance of Visitor Centers

WORK CATEGORY DESCRIPTION: Maintenance of Visitor Centers for recreation features.

Includes all costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of, visitor center buildings, displays, audiovisual systems, heating and cooling systems, landscaping, grounds, exhibits and utilities. Also includes costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs and equipment usage. These costs were formerly included in WCC 61511.

WORK CATEGORY CODE: 61515 – Modernization of Recreation Features

WORK CATEGORY DESCRIPTION: Modernization of recreation features.

Includes all costs for the modernization, replacement or additions for modernization to recreation facilities and structures such as trails, campgrounds, picnic areas, restrooms, showers, boat ramps, parking areas, roads, grounds, utilities associated with recreation use, buildings used for recreation purposes or the collection of fees and other structures used to support the recreation function. Also includes costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs and equipment usage, and costs to bring facilities up to modern design standards and to provide accessibility for persons with disabilities as required. Also, includes costs for E&D and P&S for the Recreation Modernization Program. Work should be included in this Work Category Code (WCC) rather than WCC 61511 if the primary reason for the work is to update existing facilities to meet current guidelines and user needs, as well as modifying facilities and services to improve efficiency and effectiveness. If the primary reason to do work is non-operational maintenance, it should be included in WCC 61511, even if some modernization will be accomplished in conjunction with the work. These costs were formerly included in WCC 61511.

WORK CATEGORY CODE: 61520 - Dredging Activities for the Recreation Function

WORK CATEGORY DESCRIPTION: Dredging for recreation activities including all disposal activities.

Includes all costs for maintenance dredging and disposal activities for the recreation function, except project condition sediment survey costs which are included in Work Category Code 60520. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. Also includes all costs associated with the disposal of dredged materials as sand on beaches, and related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: 61530

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61540 - Water Management (Control and Quality) Equipment for the

Recreation Function

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for recreation features.

Includes all costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality) for the recreation function. This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the Corps new Water Management System (SWMS). This also includes costs for maintenance and support of CWMS.

.....EC 11-2-187 11 May 07

WORK CATEGORY CODE: 61551 - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Recreation Function

WORK CATEGORY DESCRIPTION: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for recreation features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping surveying, title evidence, inspection, closing, audits and temporary permits necessary to acquire or dispose of lands and interests that support the recreational features of a project.

WORK CATEGORY CODE: 61552 - Real Estate - Resolution of Real Estate Encroachments for the Recreation Function

WORK CATEGORY DESCRIPTION: Real Estate - Resolution of Real Estate Encroachments for recreation features.

Includes all costs for the resolution of all encroachments on projects lands classified for recreational use and degradation of public lands and encroachments adversely affecting the recreational use of the project; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking should be included in Work Category Code 61553.

WORK CATEGORY CODE: 61553 - Real Estate - Boundary Monumentation and Rectification for the Recreation Function

WORK CATEGORY DESCRIPTION: Real Estate - Boundary Monumentation and Rectification for recreation features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed on lands classified for recreational use at a project.

WORK CATEGORY CODE: **61560** - Environmental Compliance (Remedial Actions) for the Recreation Function

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for recreation features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal environmental laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for recreation facilities and visitor centers. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, and modification. Other costs associated with complicance include activities such as responding to marinas spills, updating hazard communication, disposal of unclaimed barrels or containers, and responding or clean-up of pesticide or chemical releases that support recreational activities on Corps owned land. Costs associated with medical surveillance and other employee health and safety requirements are not included.

WORK CATEGORY CODE: 61570

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61580

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61591 – Facility Security Maintenance and Replacement for Recreation

WORK CATEGORY DESCRIPTION: Facility Security – Maintenance and Replacement for recreation features.

Includes all costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes costs to maintain, repair or replace permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Costs for assessments are included in Work Category Code (WCC) 60591, and costs for guards and surveillance activities are included in WCC 60592. Costs for improvements and modifications are included in WCC 61592. Includes some costs formerly included in WCC 61590.

WORK CATEGORY CODE: 61592 – Facility Security Physical Improvements and Modifications for Recreation

WORK CATEGORY DESCRIPTION: Facility Security – Physical Improvements and Modifications for recreation features.

Includes all costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes costs for permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Includes some costs formerly included in WCC 61590.

WORK CATEGORY CODE: **61610** - Joint Activities for Maintenance excluding Dredging, FERC #541, #542, #543, #544 and #545

WORK CATEGORY DESCRIPTION: Joint costs for Maintenance activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply. These activities include maintenance of Dams, Reservoirs, Levees, Floodwalls, Hurricane Barriers, and Other Control Structures; Snagging, Clearing, Aquatic Plant Removal, Rock and Other Debris Removal, and Other Non-Dredging Channel Maintenance; Pumping Plants, Other Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Gates, Conduits, Maintenance and Purchase of Permanent Operating Equipment, etc. excluding dredging.

Includes all joint costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of; related joint costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment:

of joint use facilities and equipment for dams, spillways, outlet works and auxiliary dams;

of reservoirs and facilities including floating trash booms, trash racks, erosion control, drainage, major periodic or one time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60610); and rim grouting or mine sealing, etc., to prevent leakage;

of levees, floodwalls, hurricane barriers, embankments, walls, in-channel structures, and other control structures to protect areas from inundation; snagging, clearing, debris removal; and nondredging channel maintenance. This includes costs for removal of trees, brush, accumulated snags, drifts, and debris from canals and waterways; and channel improvement structures, revetments, linings, dikes, jetties, bulkheads, and buildings;

of pumping plants including such items as buildings, pumps, and prime movers including power supplies, controls, piping, and all other associated facilities;

of non-dredging channel maintenance including snagging, clearing, aquatic plant removal, removal of sunken vessels, drift removal, rock and other debris removal;

of buildings, grounds, utilities, and roads, railroads and bridges, such as administration and shop buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes costs for project utilities including electrical, gas, water, and sewer systems;

of permanent operating equipment;

and for instrumentation on dam structures, levees, floodwalls, hurricane barriers, and other control structures including costs related to installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: 61621 - Joint Activities for Dredging, FERC #543

WORK CATEGORY DESCRIPTION: Joint costs for Dredging of Channels and Canals NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply. These activities include all disposal activities such as confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all joint costs for maintenance dredging of project channels and canals, and disposal activities, except for project condition sediment survey costs which are included in Work Category Code 60621. Also included are joint costs to obtain environmental clearances to perform the associated dredging. Long-range environmental requirements and costs for initial project condition surveys are included in related operations accounts. Also includes joint costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; the creation or restoration of wetlands or other aquatic habitat using dredged material; and the creation of land using dredged material. Also includes related joint costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: 61622 - Joint Activities for Dredging - Construction and Maintenance of

Dredged Material Disposal Facilities, FERC #543

WORK CATEGORY DESCRIPTION: Joint costs for the Construction and Maintenance of Disposal Facilities for Dredged Materials NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for the construction and the maintenance of disposal facilities, including confined disposal facilities, for dredged materials. Also includes related joint costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: 61630 - Joint Activities for Dam Safety Remediation of Deficiencies

WORK CATEGORY DESCRIPTION: Joint costs for Remediation of Safety Deficiencies for Dams, Levees and Other Structures as appropriate NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all direct costs for the non-routine repair, replacement and corrections to all dams included in the National Inventory of Dams plus any levees, diversion structures and related appurtenances maintained at Federal expense to remediate dam safety deficiencies. Includes related costs for contracts, parts, replacements, special tools, supplies and materials, government plant, hired labor to include contract support, transportation costs and other costs required to perform this work. Specifically, this includes non-routine maintenance and/or repair work for dams and pertinent structures and levees that have either been identified by any means as having a Dam Safety Deficiency or has been concurred to be deficient by the District Commander, his appointed Dam Safety Officer or District Dam Safety Program Manager. Dam Safety maintenance or repair work may be identified by any means such as a study, criteria review, or any scheduled or unscheduled inspection. Dam safety related work such as inspections, inspection reports, rehabilitation reports, studies, surveys, and instrumentation will be categorized under the existing Work Category Codes in accordance with current practice. Only the actual work to include the associated plans and specifications (P&S), engineering and design (E&D) for the repairs or remedial corrections will be included in this Work Category Code as appropriate. For those business programs that do not specifically have a Work Category Code for Dam Safety (61130, 61230 and 61330) yet may encounter dam safety related work, the costs should be included in the primary business program for that project. Costs are only included in this Work Category Code if they meet the above definition for Dam Safety. Costs for regular, recurring maintenance activities will not be included in this WCC.

WORK CATEGORY CODE: 61640 - Joint Activities for Water Management Equipment, FERC #542

WORK CATEGORY DESCRIPTION: Joint costs for the Purchase and Maintenance of Water Management (Control and Quality) Equipment NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for the purchase of new or replacement hardware, software, and equipment (upgrades, betterments or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP). This includes PRIP payback for equipment purchase, software development, and system betterment for the Corps new Water Management System (SWMS). This also includes costs for maintenance and support of CWMS.

WORK CATEGORY CODE: 61651 - Joint Activities for Real Estate - Land Acquisition and Disposal

Management Activities, Settlement of Claims, and Audits, FERC #545

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests, real estate payments for acquisition of real property and interests therein, and costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired.

WORK CATEGORY CODE: 61652 - Joint Activities for Real Estate - Resolution of Real Estate Encroachments, FERC #545

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Resolution of Real Estate Encroachments NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting.

WORK CATEGORY CODE: 61653 - Joint Activities for Real Estate - Boundary Monumentation and Rectification, FERC #545

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Boundary Monumentation and Rectification NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions; and costs to survey and mark boundary lines where not previously completed.

WORK CATEGORY CODE: **61660** - Joint Activities for Environmental Compliance (Remedial Actions), FERC #545

WORK CATEGORY DESCRIPTION: Joint costs for Environmental Compliance (remedial actions) NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply. These activities include actions for Dams, Levees, Other Control Structures, Pumping Plants and Other Project Facilities.

Includes all joint costs maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), EO 13148, and applicable state and local regulations for dams, reservoirs, levees, other control structures, pumping plants and other joint use project facilities. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety

requirements are not included.

WORK CATEGORY CODE: 61670

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61680

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: 61691 – Joint Activities for Facility Security Maintenance and

Replacement

WORK CATEGORY DESCRIPTION: Joint Costs for Facility Security – Maintenance and Replacement NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs to maintain and replace structural improvements for facility protection and security related to criminal and terrorist activities. Includes joint costs to maintain, repair or replace permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Joint costs for assessments are included in Work Category Code 60691, and costs for guards and surveillance activities are included in Work Category Code 60692.

WORK CATEGORY CODE: 61692 – Joint Activities for Facility Security Physical Improvements and

Modifications

WORK CATEGORY DESCRIPTION: Joint Costs for Facility Security – Physical Improvements and Modifications NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, Recreation and Water Supply.

Includes all joint costs for engineering and design, and to acquire and install structural improvements, modifications and physical improvements for facility protection and security related to criminal and terrorist activities. Includes joint costs for permanent or temporary barriers, fencing, traffic signs, lighting, communications equipment, intrusion detection systems such as video surveillance equipment and cameras, and access control. Joint costs for assessments are included in Work Category Code 60691, and costs for guards and surveillance activities are included in Work Category Code 60692.

WORK CATEGORY CODE: 61810 - Maintenance for the Water Supply Function

WORK CATEGORY DESCRIPTION: Maintenance of Project Gates, Water Supply Conduits, Permanent Operating Equipment, etc. excluding dredging activities for water supply features.

Includes all direct costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of; related costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment for non-Water Management activities: of project gates and specific water supply conduits; and permanent operating equipment. Prior to FY 07, these costs were included in WCC 61211.

SUB-ANNEX C-5 SYSTEMS AND JUSTIFICATION OF ESTIMATES

C-5.1 **Operations and Maintenance Systems and Regions**. The PY O&M budget will be formulated on a system basis and, if Congress concurs on the benefit of planning and carrying out the O&M program in accordance with system-wide priorities, the O&M program would be managed by system and business line, rather than project-by-project. Operation and maintenance work funded in this manner will allow managers in the field more flexibility to address uncertainties and change conditions throughout the fiscal year, consistent with budget and appropriations decisions. The work is accomplished in the following water resource systems as delineated by watershed boundaries. Proposed PY funding will be consolidated according to Civil Works program areas, such as commercial navigation and flood damage reduction, for each of the systems as developed in the United States, using HUC sub-regions as established by the US Geological Survey. Specific projects that would receive funding in each system will also be identified by name.

C-5-2. Narrative and Supporting Data.

a. **Justification of Estimates Congressional Submission.** Each MSC shall prepare and submit *Justification of Estimate* sheets based on amounts provided by CECW-IP for the System, using a format to be provided in final form. To avoid illogical precision, no amounts should be rounded to less than \$1,000, using the 5/4 rule. This is a widely read document. To preclude misinterpretations by Congressional and other reviewers, do not use vague, stereotyped, descriptions in the Reason for Change and Maintenance Item column. Standard phraseology is acceptable, if used judiciously, such that the descriptions are clear and understandable to the reader. Be as specific as possible using a condensed version of what the testifying officer would answer if asked by the Sub-Committee the reason for changes from prior year. The tone of statements must reflect a full support of the President's Program request with no hints that amounts may not be adequate. Accordingly, a remark explaining higher amounts is preferable. The typed material in the body will be confined to 6 1/2 inches vertically and 10 inches horizontally, leaving 1/2 inch margins on the left and right sides and 0.607 inch margins at the top and bottom of an 11 X 8-1/2 inch page size. Justification sheets must be submitted as Microsoft Word documents over the Corps Outlook Electronic Mail. ASCII format is not acceptable because it deletes control codes for formatting. In addition, Project status maps are required for all Major Rehabilitation work that is being funded under the O&M, appropriation. To avoid allocation problems associated with roll-ups, projects spanning more than one district should be entered separately with titles showing the district name, for example:

OHIO RIVER LOCKS AND DAMS, PA (Pittsburgh Dist.)
OHIO RIVER LOCKS AND DAMS, WV (Huntington Dist.)
OHIO RIVER LOCKS AND DAMS, KY, IL, IN, OH, & WV (Louisville Dist.)

(Other projects include Ohio River Open Channel Work, McClellan-Kerr, Missouri River and the Upper Mississippi River or district-wide activities such as Inspection of Completed Works or Scheduling Reservoir Activities) If a state is included in more than one district, only the primary district should show that state in the title.

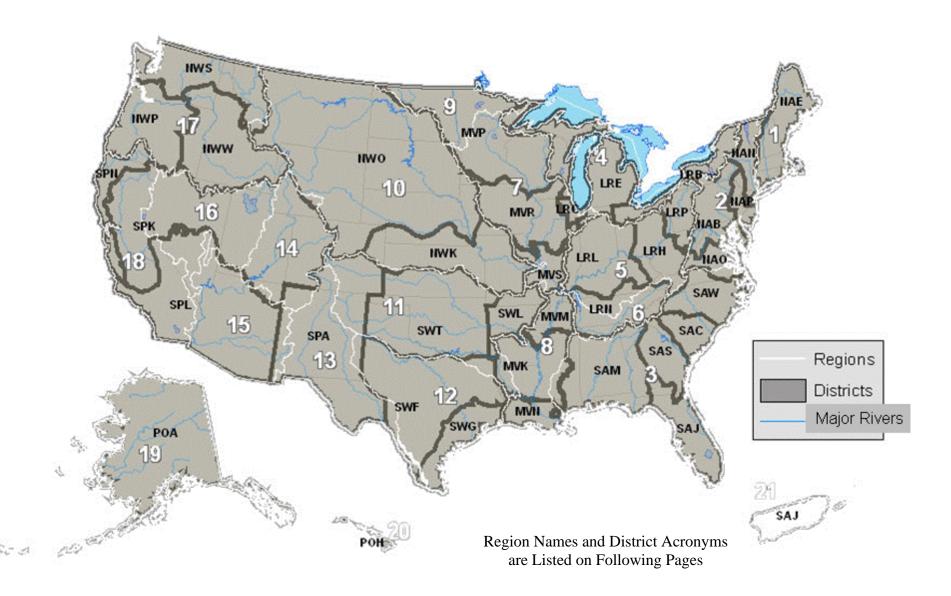
b. **State Designation for Inspection of Completed Works (ICW),** Project Condition Surveys (PCS), Scheduling Reservoir Operations (SRO), Surveillance of Northern Boundary Waters (SNBW) and Inspection of Ecosystem Restoration Projects.

Each of these programs will have a budget activity per state per funding increment. In those cases where these programs are performed in more than one state, the district will have a budget activity for each state. The budget activities do not necessarily have to be in the same funding increment. For example, Little Rock District (SWL) has projects in Missouri and Arkansas therefore SWL should have at least two IWC budget activities, one for Missouri and one for Arkansas. Some SWL projects cross state lines such as Table Rock Lake. All the ICW for this project should be included for its primary state, which is Missouri. The justification/Remarks will indicate how many surveys, inspections, actions, etc. of that districts total will be performed for the respective Business Program funding increment. For example the Business Line initial increment ICW budget activity for SWL for Missouri would state five critical inspections would be conducted out of a total of 10 in the PY. Additional ICW budget activity(s) would be included in next-added Business Line increments as justified by increased performance or benefits.

C-5.3. **Definitions.** R=Reconnaissance; F=Feasibility; P=PED; C=Construction; CR=Replacement; O=Operations; M=Maintenance (regular, not major or rehab); MM=Major Maintenance; MR= Rehabilitation; OJ=Operation Joint Activities; MJ=Maintenance Joint Activities;



Table C-5.1 Systems.xls



The work is accomplished in the following water resource Systems as delineated by watershed boundaries (HUC subregions):

GLOSSARY OF DISTRICT ACRONYMS

LRB	Buffalo District	NAD N	Iorth Atlantic Division	SAJ	Jacksonville District
LRC	Chicago District	NAE N	lew England District	SAM	Mobile District
LRD	Great Lakes & Ohio River Division	NAN N	lew York District	SAS	Savannah District
LRE	Detroit District	NAO N	Norfolk District	SAW	Wilmington District
LRH	Huntington District	NAP P	hiladelphia District	SPA	Albuquerque District
LRL	Louisville District	NWD N	Northwestern Division	SPD	South Pacific Division
LRN	Nashville District	NWK K	Kansas City District	SPL	Los Angeles District
LRP	Pittsburgh District	NWO C	Omaha District	SPK	Sacramento District
MVD	Mississippi Valley Division	NWP P	Portland District	SPN	San Francisco District
MVK	Vicksburg District	NWS S	Seattle District	SWD	Southwestern Division
MVM	Memphis District	NWW V	Walla Walla District	SWF	Fort Worth District
MVN	New Orleans District	POA AI	laska District	SWG	Galveston District
MVP	St. Paul District	POD P	Pacific Ocean Division	SWL	Little Rock District
MVR	Rock Island District	POH H	Ionolulu District	SWT	Tulsa District
MVS	St. Louis District	SAC CI	Charleston District		
NAB	Baltimore District	SAD So	outh Atlantic Division		

The Flood Control, Mississippi River and Tributaries (MR&T) appropriation funds planning, construction, and operation and maintenance activities associated with projects to reduce flood damage in the lower Mississippi River alluvial valley below Cape Girardeau, Missouri. The entire MR&T area is included in the Lower Mississippi Region - The drainage of: (a) the Mississippi River below its confluence with the Ohio River, excluding the Arkansas, Red, and White River Basins above the points of highest backwater effect of the Mississippi River in those basins; and (b) coastal streams that ultimately discharge into the Gulf of Mexico from the Pearl River Basin boundary to the Sabine River and Sabine Lake drainage boundary. Includes parts of Arkansas, Kentucky Louisiana, Mississippi, Missouri, and Tennessee. Projects funded in the PY budget for operation, maintenance, and rehabilitation are as follows:

Arkansas

Helena Harbor, Phillips County, AR Inspection Of Completed Works, AR Lower Arkansas River, North Bank, AR Lower Arkansas River, South Bank, AR White River Backwater, AR

Illinois

Inspection Of Completed Works, IL

Kentucky

Inspection Of Completed Works, KY

Louisiana

Atchafalaya Basin, Floodway System, LA Atchafalaya Basin, LA Baton Rouge Harbor, Devil Swamp, LA Bayou Cocodrie And Tributaries, LA

Bonnet Carre, LA

Inspection Of Compelted Works, LA Lower Red River, South Bank Levees, LA

Mississippi Delta Region, LA

Old River, LA

Tensas Basin, Boeuf And Tensas Rivers, AR

& LA

Tensas Basin, Red River Backwater, LA

Missouri Inspection Of Completed Works, MO St Francis Basin, AR & MO Wappapello Lake, MO

Mississippi

Greenville Harbor, MS

Inspection Of Completed Works, MS

Vicksburg Harbor, MS

Yazoo Basin, ARkabutla Lake, MS Yazoo Basin, Big Sunflower River, MS

Yazoo Basin, Enid Lake, MS Yazoo Basin, Greenwood, MS Yazoo Basin, Grenada Lake, MS Yazoo Basin, Main Stem, MS Yazoo Basin, Sardis Lake, MS

Yazoo Basin, Sardis Lake, MS Yazoo Basin, Tributaries, MS

Yazoo Basin, Will M Whittington Aux Chan,

MS

Yazoo Basin, Yazoo Backwater Area, MS

Yazoo Basin, Yazoo City, MS

Tennessee

Inspection Of Completed Works, TN Memphis Harbor, Mckellar Lake, TN

Mississippi River Levees Revetments And Dikes

Dredging

ILLUSTRATION C-5.2 MAJOR SUBORDINATE COMMAND (MSC) SUPPLEMENTAL JUSTIFICATION SHEET MAJOR MAINTENANCE

- (1) **DESCRIPTION OF WORK:** (Describe specific items of work to be included in the overall package.)
- (2) **JUSTIFICATION**: (Provide justification for the total work to be accomplished, including economic evaluation. Quantify benefits when possible. In last paragraph of justification, provide arguments on why the work should be started in the program year, either design or construction; and the impact of not starting the work in the program year. For ongoing work, include the impacts of not continuing the work in the program year. These paragraphs must be in sufficient detail to permit a decision to be made on the investment.)
- (3) **ESTIMATED COST AND SCHEDULE:** (Provide the basis of the estimated cost, i.e., based on cost of XYZ PROJECT IN FY 1990 indexed to current price levels, reconnaissance level estimate, e.g. *Design Memorandum D-28 approved 22 January 1993, etc;* and include the amount of contingencies included in the estimate. The cost estimate should be broken down to reflect individual DDRs, procurements, contracts, installations, etc. Schedule dates should be shown only to the month and year, e.g.,11/01, and all dollar amounts in even thousands, i.e., \$10,000 to be shown as 10. The estimate and schedule should include required fund requirements for engineering and design during construction and other related costs for completion of a total package. If contributed funds are required for Corps construction activities, include in cost estimate and add a line to the schedule with minus entries; so that the total line will reflect Total Federal fund requirements by year.)

This illustration is included to show the additional information required for major maintenance activities. This information will be provided in the format shown in the expanded funding argument field.

ILLUSTRATION C-5.3a MAJOR SUBORDINATE COMMAND JUSTIFICATION OF ESTIMATE

APPROPRIATION TITLE: Operation and Maintenance, FY (PY)

I. Navigation

Channels and Harbors. The program estimate of \$ provides for essential operation and maintenance work on xx channel and harbor projects named in the list which follows. The work to be accomplished under this activity consists of operating and maintaining the coastal navigation channels, harbors and anchorages by means of dredging, constructing bulkheads and spoil disposal areas, snagging, and repairing channel stabilization works, navigation structures, and harbor jetties, all as authorized in the laws pertaining to river and harbor projects.

System XYZ.

Projects funded in the PY budget for operation, maintenance, and rehabilitation are as follows:

	Connecticut			Project C	
Project A			Maine	·	Rhode Island
Project B		Project A		Project A	
Project C		Project B		Project B	
•		Project C		Project C	
	Massachusetts	•		·	Vermont
Project A		Ne	w Hampshire	Project A	
Project B		Project A	•	Project B	
Project C		Project B		Project C	

^{1/} Projects funded in the PY budget for minimal operation and maintenance.

In addition, funding may be reallocated to the following projects that were included in the PY-1 budget, where necessary to complete a useful increment of work for which PY funding proves to be insufficient.

Maine

Maine Project 1 Maine Project 2

Massachusetts

Massachusetts Project 1

The PY budget includes funding for operation, maintenance, and rehabilitation in System XYZ by business line as follows:

	North Atlantic Division (NAD) (Dollars in Thousands)							
Business Line Navigation State/Project Name		FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	Reason for Change and Major Maintenance Items 1. Reasons for change in Operations from PY-1 to PY (10% +/-) 2. Major Maintenance Items Programmed in PY (Threshold \$3,000,000)				
		•	State 1					
Project A	Total O M							
Project B	Total O M							
			State 2					
Project A	Total O M							
Project B	Total O M							
NAD Division Total in System	Total O M							

ILLUSTRATION C-5.3a MAJOR SUBORDINATE COMMAND JUSTIFICATION OF ESTIMATE

APPROPRIATION TITLE: Operation and Maintenance, FY (PY)

I. Navigation

Channels and Harbors. The program estimate of \$ provides for essential operation and maintenance work on xx channel and harbor projects named in the list which follows. The work to be accomplished under this activity consists of operating and maintaining the coastal navigation channels, harbors and anchorages by means of dredging, constructing bulkheads and spoil disposal areas, snagging, and repairing channel stabilization works, navigation structures, and harbor jetties, all as authorized in the laws pertaining to river and harbor projects.

System XYZ

Projects funded in the PY budget for operation, maintenance and rehabilitation are as follows:

	District Of Columbia	Project C 1/	Project A
Project A			Project B
Project B		New Jersey	Project C
Project C		Project A	•
		Project B	Virginia
	Delaware	Project C 1/	Project A
Project A	1/	•	Project B
Project B		New York	Project C
Project C		Project A	
		Project B	West Virginia
	Maryland	Project C 1/	Project A
Project A	-		Project B
Project B		Pennsylvania	Project CMD & Wv

^{1/} Projects funded in the PY budget for minimal operation and maintenance.

In addition, funding may be reallocated to the following projects that were included in the PY-1 budget, where necessary to complete a useful increment of work for which PY funding proves to be insufficient.

Maryland

Maryland Project 1

System XYZ - Continued

The PY budget includes funding for operation, maintenance, and rehabilitation in System XYZ by business line as follows:

	Great Lakes and Ohio River Division (LRD) (Dollars in Thousands)							
Business Line Navigation State/Project Name		FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	Reason for Change and Major Maintenance Items 1. Reasons for change in Operations from PY-1 to PY (10% +/-) 2. Major Maintenance Items Programmed in PY (Threshold \$3,000,000)				
			Sate 1					
Project A	Total O M							
Project B	Total O M							
			State 2					
Project A	Total O M		State 2					
Project B	Total O M							
LRD Division Total in System	Total O M							

System XYZ - Continued

The PY budget includes funding for operation, maintenance, and rehabilitation in System XYZ by business line as follows:

	Nort	h Atlantic Divisio	on (NAD) (Dollar	s in Thousands)
Business Line Navigation State/Project Name		FY (PY-1) Total (operations)	FY (PY) Total (operations)	Reason for Change and Major Maintenance Items 1. Reasons for change in Operations from PY-1 to PY (10% +/-) 2. Major Maintenance Items Programmed in PY
,		(Maintenance)	(Maintenance)	(Threshold \$3,000,000)
			State 1	
	Total			
Project A	0			
	M			
	Total			
Project B	0			
	M			
			State 2	
	Total			
Project A	0			
	M			
	Total			
Project B	0			
	M			
	Total			
NAD Division Total in System	0			
	М			

System XYZ - Continued

The PY budget includes funding for operation, maintenance, and rehabilitation in System XYZ 2 by business line as follows:

		Sys	stem XYZ Total	
Business Line Navigation		FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	 Reason for Change and Major Maintenance Items Reasons for change in Operations from PY-1 to PY (10% +/-) Major Maintenance Items Programmed in PY (Threshold \$3,000,000)
	Total			
System XYZ Total	0			
	M			

ILLUSTRATION C-5.3b MAJOR SUBORDINATE COMMAND JUSTIFICATION OF ESTIMATE

APPROPRIATION TITLE: Operation and Maintenance, FY (PY)

2. Flood Control

a. **Reservoirs: Scheduling Reservoir Operations.** The \$ requested in FY (PY) supports preparation, review and updating of water control manuals, real-time data collection to monitor hydrologic conditions, and the issuance of gate regulation instructions as necessary at non-Corps dam and reservoir projects at which the Corps is responsible for flood control or navigation.

System XYZ

Projects funded in the PY budget for operation, maintenance and rehabilitation are as follows:

Arkansas Louisiana Texas

Colorado Missouri Kansas Oklahoma

1/ Projects funded in the PY budget for minimal operation and maintenance.

In addition, funding may be reallocated to the following projects that were included in the PY-1 budget, where necessary to complete a useful increment of work for which PY funding proves to be insufficient.

Arkansas

Arkansas Project 1 Arkansas Project 2

Texas

Texas Project 1

The PY budget includes funding for Scheduling Reservoir Operations in System XYZ as follows:

Business Program Flood Control Scheduling Reservoir Operations State/Project Name	FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	 Reason for Change and Major Maintenance Items Reasons for change in Operations from PY-1 to PY (10% +/-) Major Maintenance Items Programmed in PY (Threshold \$3,000,000)
Arkansas			
Colorado			
Kansas			
Louisiana			
Missouri			
Oklahoma			
Texas			

b. Channel Improvement: Inspection of Completed Works. The \$ requested in FY (PY) supports inspections at flood control projects constructed by the Corps and operated and maintained by non-Federal interests. The inspections are conducted to determine the extent of compliance with legal standards and to advise local interests, as necessary, of corrective measures required to ensure that project structures and facilities will continue to safely provide flood protection benefits. These projects consist of features such as channels, levees, flood walls, drainage structures and pumping plants.

The PY budget includes funding for Inspection of Completed Works in System XYZ as follows:

Business Program Flood Control	FY (PY-1) Total	FY (PY) Total	Reason for Change and Major Maintenance Items 1. Reasons for change in Operations from PY-1 to PY
Inspection of Completed Works State/Project Name	(operations) (Maintenance)	(operations) (Maintenance)	(10% +/-) 2. Major Maintenance Items Programmed in PY (Threshold \$3,000,000)
Arkansas			
Colorado			
Kansas			
Louisiana			
Missouri			
Oklahoma			
Texas			
SWD Division Total in System			

ILLUSTRATION C-5.3c MAJOR SUBORDINATE COMMAND JUSTIFICATION OF ESTIMATE

APPROPRIATION TITLE: Operation and Maintenance, FY (PY)

4. Protection of Navigation

a. **Project Condition Surveys**. The \$ requested in FY (PY) supports hydrographic surveys, inspections, and studies to determine the condition of navigation channels that do not have any other maintenance work included in the program request and disseminate the information to users of the projects. For the projects that do not require maintenance, surveys are performed at many of them in order to determine the degree of sedimentation so that users can be advised of channel conditions and future maintenance can be scheduled.

System XYZ

Projects funded in the PY budget for operation, maintenance and rehabilitation are as follows:

Illinois Minnesota Pennsylvania Indiana New York Wisconsin Michigan Ohio

1/ Projects funded in the PY budget for minimal operation and maintenance.

In addition, funding may be reallocated to the following projects that were included in the PY-1 budget, where necessary to complete a useful increment of work for which PY funding proves to be insufficient.

Indiana Indiana Project 1 Indiana Project 2

New York

New Yorks Project 1

The PY budget includes funding for Scheduling Reservoir Operations in System XYZ as follows:

Business Program Protection of Navigation Project Condition Surveys State/Project Name	FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	 Reason for Change and Major Maintenance Items Reasons for change in Operations from PY-1 to PY (10% +/-) Major Maintenance Items Programmed in PY (Threshold \$3,000,000)
Illinois			(
Indiana			
Michigan			
Minnesota			
New York			
Ohio			
Pennsylvania			
Wisconsin			

b. Surveillance of Northern Boundary Waters. The \$ requested in FY (PY) supports meeting US obligations under provisions of boundary water treaties and other international agreements. Data collection includes current velocity measurements, presence and intensity of ice, water levels, land use patterns and estimating potential damages caused by extreme levels. This information can be used to enhance water level forecasts, develop crises response plans, and provide advance warning to area residents and waterway users of impending floods or ice jams.

The PY budget includes funding for Surveillance of Northern Boundary Waters in System XYZ as follows:

Great Lakes and Ohio River Division (LRD) (Dollars in Thousands)								
Business Program Protection of Navigation Surveillance of Northern Boundary Waters State/Project Name	FY (PY-1) Total (operations) (Maintenance)	FY (PY) Total (operations) (Maintenance)	Reason for Change and Major Maintenance Items 1. Reasons for change in Operations from PY-1 to PY (10% +/-) 2. Major Maintenance Items Programmed in PY (Threshold \$3,000,000)					
Illinois								
Indiana								
Michigan								
Minnesota								
New York								
Ohio								
Pennsylvania								
LRD Division Total in System								

ANNEX D EXPENSES TABLE OF CONTENTS

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SUBA-NNEX D-2. PROGRAM GUIDANCE		
Program Objective	D-2.1	D-2-1
Supporting Data	D-2.2	D-2-3
Submission Requirements	D-2.3	D-2-4
ILLUSTRATIO	ONS	
	Illustration	Page
Program and Financing Summary	D-2.1	D-2-5
Personnel Summary	D-2.2	D-2-6
Summary of MSC/FOA Program	D-2.3	D-2-7
CEEMIS Access		

SUB-ANNEX D-1 EXPENSES APPLICABILITY

- D-1.1. Appropriation Title. Expenses 96X3124
- D-1.2. **Purpose.** This annex provides guidance for development of the Expenses (E) Program for Headquarters, U. S. Army Corps of Engineers (HQUSACE), Major Subordinate Commands (MSCs), and other command and control support activities.
- D-1.3. **Activities Included.** The CCS codes for use with this program submission are in Table 3 of the main part of the EC.

SUB-ANNEX D-2 EXPENSES PROGRAM GUIDANCE

- D-2.1. **Program Objective.** The objective of the Expenses (E) Program is to resource the Civil Works Executive Direction and Management (ED&M) activities of the US Army Corps of Engineers (USACE).
 - a. ED&M is comprised of five functions:
- (1) Command and Control Exercise of command and control of USACE Civil Works Program operations;
- (2) Policy and Guidance Development, coordination and issuance of policy and guidance that will guide headquarters, regional, and field operations;
 - (3) Program Management Development, defense and execution of the Civil Works Programs;
- (4) National Level Coordination Coordination with the Administration, federal and state agencies, national stakeholders, and other interest groups to facilitate development of program policy and guidance and efficient execution of the Civil Works Program; and
- (5) Quality Assurance Assurance that the Civil Works Program is being executed in accordance with law, policy and guidance.
 - b. Support activities outside of the headquarters are accomplished by:
- (1) Institute of Water Resources (IWR) providing forward-looking analysis and research in development of planning methodologies for the Civil Works Program.
- (2) Humphreys Engineer Center Support Activity (HECSA) providing administrative and operational support to HQUSACE for the Civil Works Program.
- (3) Engineering Research and Development Center (ERDC) conducting research and development as support of the Civil Works Program; and
- (4) USACE Finance Center providing finance & accounting support for the Civil Works Program.
 - c. Support activities within the headquarters are accomplished by:
 - (1) CECC Office of the Chief Counsel
 - (2) CECI Office of the Deputy Chief of Staff for Corporate Information
 - (3) CECS Chief of Staff
 - (4) CECW Directorate of Civil Works
 - (5)CEEO Office of Equal Employment Opportunity
 - (6) CEHO Office of History

- (7) CEHR Directorate of Human Resources
- (8) CEIG Office of the Engineer Inspector General
- (9) CEIR Directorate of Internal Review
- (10) CELD Directorate of Logistics
- (11) CEMP Directorate of Military Programs
- (12) CEPA Office of Public Affairs
- (13) CEPR Office of the Principal Assistant Responsible for Contracting
- (14) CERD Directorate of Research and Development
- (15) CERM Headquarters, Directorate of Resource Management
- (16) CESB Headquarters, Small Business Office (17) CESI Strategy and Integration Directorate
 - (18) CESO Headquarters, Safety and Occupational Health Office
- d. Program and Financing. The E Program will be developed for the accomplishment of the program objective by HQUSACE, Major Subordinate Commands (MSCs), and other USACE command and control support activities. The E Program will reflect any carry-over from prior fiscal years and the USACE Consolidated Command Guidance (CCG), last updated on 8 Jan 07, the Command Priorities and Budget Guidance Memo, as well as any new initiatives approved by the Chief of Engineers' and/or directed by Assistant Secretary of Army (ASA) for Civil Works (CW)/Office of Management and Budget (OMB)/Congress. Further program formulation for FY 08/09/10 will be developed in the ED&M Budget model in the Corps of Engineers Enterprise Management Information System (CEEMIS). Instructions for the model data entry access are reflected by Illustration D-2.4. Further instructions for the budget formulation will be provided in a separate memo.
- e. Audit costs formally budgeted through the Expense Account will be funded through the Revolving Fund Account.
 - f. Labor Requirements and Funding.
- (1) Labor Requirements. Estimates of labor requirements for Program Year (PY) (2009) will reflect the most efficient utilization of personnel necessary to achieve the program objective. Staffing will be at the 2012 authorized level published in the CCG.
- (2) Labor Funding. Funding requests for PY will include base labor cost as of 1 Oct, PY-2 (2007), plus projected inflation rates which will be provided. The rates will reflect the national and locality pay raises, plus agency contributions for employee benefits. In preparing estimates for overtime, analyze the use of overtime to ensure it is prudent and efficient; explore all reasonable alternatives to overtime, such as flexible scheduling; and assure that adequate approval, monitoring, and audit procedures are in place to avoid abuses. Total labor funding requirements should be adjusted to include incentive awards as well as projected hire lag. Costs for employees in the Student Educational Employment Program and costs for E-funded military/uniformed-officers will be included in estimating total labor/personnel-compensation costs.

- (3) Non-labor Requirements and Funding. Non-labor requirements will be model generated. Instructions for access into the model are reflected by Illustration D-2.3.
- D-2.2. **Supporting Data.** The PY E Program request will be comprised of a Transmittal Letter, Program Justification Statement, two detail summaries, a rollup program summary, and model data. However, consistent with the ASA(CW) Memorandum for the Director of Civil Works, Feb. 27, 2007, Subject: Fiscal Year 2009 Army Civil Works Budget Guidance, two program submissions are required. A 'Ceiling' program will be submitted to reflect no more than the amount needed to maintain "current services" compared to the FY 2008 budget. A second 'Recommended' program will be developed to accomplish performance targets over five years. The performance target for the Expenses program can be determined by dividing the fiscal year 2006 FTE by 880. The resulting percentage is then multiplied by 997 to obtain the FTE performance target. Five-year estimates for the costs to attain and maintain the performance target are to be reflected in the 'Recommended' program. The recommended amounts are only predetermined to the extent that the goal is to accomplish performance targets.
- a. Transmittal Letter. The Program request will be transmitted by a letter signed by the MSC Commander/Director or Separate Office/Activity or authorized delegate. This transmittal letter will confirm compliance with this guidance and the accuracy and adequacy of the request.
- b. Program Justification Statement. This statement will explain any extraordinary requirements above inflation, and the negative impact of not funding them. If you are planning additional restructuring, consolidation or downsizing initiatives or co-location with another Corps activity, include justification showing estimated savings, and your funding timetable, with anticipated 2009 costs broken out between civil and military programs functions. In addition, if your requirements exceed the 2012 FTE guidance, you must justify the positions individually and explain why these cannot be accommodated within the guidance. The name, office symbol, and telephone number of the preparer will be provided in the narrative or transmittal letter.
- c. Program and Financing Summary (Illustration D-2.1). This is a summary of E Program funding broken down by feature/sub-feature, as shown. The year 2007 funding total equals the amount of the Funding Authorization Document (FAD) received in the PY-2 plus any prior year carry-over, and includes any adjustments to your program since the last CCG. The sum of amount shown in O/C 11 and O/C 12 equals the salaries and benefits for the E Program staff reflected under Item III of Illustration D-2.2. Following are specific instructions on the treatment of several expenses which have caused confusion in the past.
- (1) Permanent Change of Station (PCS) costs should be recorded as follows: Temporary Quarters Quarters Supplemental Expenses, sale of residence allowance and miscellaneous moving expenses under O/C 12.1; Transportation and Per Diem while on travel status under O/C 21; Transportation of Household Goods (HHG) under O/C 22; and, Storage of HHG under O/C 25.7. The total (E) projected costs of PCS for each year should be footnoted at the bottom of the page.
- (2) Training costs should be recorded as follows: payments to private sector for training courses under O/C 25.01; tuition payments to universities or colleges leading to a degree and payments for attendance at conferences under O/C 25.02; and payments to other Federal Government agencies for training under O/C 25.03. The total (E) projected costs of training for each year should also be footnoted at the bottom of the page.

- d. Personnel Summary (Illustration D-2.2). This is a summary of ED&M labor, expressed in FTE workyears and full-time permanent (FTP) positions. Item III equals the sum of Items I and II, while Item IV reflects all non-E Program labor, broken out by civil and military program functions. These categories are further broken out by direct-funded (funded by direct obligation authority appropriated to the Corps) and reimbursable-funded (funded by reimbursable obligation authority established upon acceptance of customer orders and/or funds received from other programs or agencies, e.g. Department of Energy, Air Force, etc.). Item V is the sum of Items III and IV, which equals the total ED&M labor.
- e. Summary of MSC/FOA Program (Illustration D-2.3). This is a rollup summary of the MSC/FOA total E program. All items should be addressed to the fullest extent applicable. The larger items of contracts and equipment should reflect multiple lines to identify the contracts and equipment components. If an item on the PY (FY09) program exceeds the PY-2 (FY07) program by more than 7%, then the rationale for the increase must be addressed as part of the justification reflected by para D-2.2 b.
- D-2.3. **Submission Requirements.** Supporting data, described above, will be submitted in hard copy to the Director of Resource Management (CERM-ZA), WASH DC 20314-1000, and by electronic mail to CERM-B (Attention Mrs. Eloisa Brown) and CECW-IN by July 01 of PY- 2. Data reflected by the three illustrations must be consistent and supportive of one another as well as the data input the into the CEEMIS model. If there are any problems complying with these submission requirements, contact Mrs. Brown at 202-761-0406, or Mrs. Charlene Kalinich at 202-761-1104.

ILLUSTRATION D-2.1 EXPENSES PROGRAM AND FINANCING SUMMARY (\$000)

		Date <u>:</u>		
/ ure <u>Title</u>	Current Program PY-2	Assumed Budget PY-1	Budget Request PY	
CT OBLIGATIONS:				
Full Time Permanent (FTP) Other than FTP Other Personnel Compensation Military Officer's Pay (Incl BAS/BAQ) Civilian Personnel Benefits Military Benefits Former Personnel Benefits I Labor Travel/Transportation of Persons Transportation of Things I Travel/Transportation				
Rental Payments to GSA Rental Payments to Others Communications, Utilities & Miscellaneous I Rent/Comm/Utilities & Misc Charges				
Printing & Reproduction				
Advisory & Assistance Services Other Services Purchase of Goods & Services from Government Accts O&M of Facilities O&M of Equipment by non-government I Other Contracts				
Supplies & Materials Equipment				
Lands and Structures				
DIRECT OBLIGATIONS				
IMBURSABLE OBLIGATIONS				
	CT OBLIGATIONS: Full Time Permanent (FTP) Other than FTP Other Personnel Compensation Military Officer's Pay (Incl BAS/BAQ) Civilian Personnel Benefits Military Benefits Former Personnel Benefits I Labor Travel/Transportation of Persons Transportation of Things I Travel/Transportation Rental Payments to GSA Rental Payments to Others Communications, Utilities & Miscellaneous I Rent/Comm/Utilities & Misc Charges Printing & Reproduction Advisory & Assistance Services Other Services Purchase of Goods & Services from Government Accts O&M of Facilities O&M of Facilities O&M of Equipment by non-government I Other Contracts Supplies & Materials Equipment Lands and Structures DIRECT OBLIGATIONS	CT OBLIGATIONS: Full Time Permanent (FTP) Other than FTP Other Personnel Compensation Military Officer's Pay (Incl BAS/BAQ) Civilian Personnel Benefits Military Benefits Former Personnel Benefits I Labor Travel/Transportation of Persons Transportation of Things I Travel/Transportation Rental Payments to GSA Rental Payments to Others Communications, Utilities & Miscellaneous I Rent/Comm/Utilities & Misc Charges Printing & Reproduction Advisory & Assistance Services Other Services Purchase of Goods & Services from Government Accts O&M of Facilities O&M of Equipment by non-government I Other Contracts Supplies & Materials Equipment Lands and Structures DIRECT OBLIGATIONS	CT OBLIGATIONS: Full Time Permanent (FTP) Other than FTP Other Personnel Compensation Military Officer's Pay (Incl BAS/BAQ) Civilian Personnel Benefits Military Benefits Former Personnel Benefits I Labor Travel/Transportation of Persons Travel/Transportation of Persons I Travel/Transportation Rental Payments to GSA Rental Payments to Others Communications, Utilities & Miscellaneous I Rent/Comm/Utilities & Misc Charges Printing & Reproduction Advisory & Assistance Services Other Services Purchase of Goods & Services from Government Accts O&M of Facilities O&M of Facilities O&M of Equipment by non-government I Other Contracts Supplies & Materials Equipment Lands and Structures DIRECT OBLIGATIONS	

ILLUSTRATION D-2.2 EXECUTIVE DIRECTION AND MANAGEMENT PERSONNEL SUMMARY

MS	SC/Other Activity:								Date:	
		A	CTUAL PY	-2	E	STIMATE F	PY-1	ES	TIMATE PY	<i>(</i>
		FTE Work	Total FTP	Salaries and	FTE Work	Total FTP	Salaries and	FTE Work	Total FTP	Salaries and
	<u>Title</u>	<u>Years</u>	<u>Posn</u>	<u>Benefits</u>	<u>Years</u>	<u>Posn</u>	<u>Benefits</u>	Years _	<u>Posn</u>	<u>Benefits</u>
I.	E-funded civilians									
	E-funded military									_
	Total E-funded staff		-	_				-		
IV.	Remaining Staff									
a.	Military functions:									
	Direct-funded							-		
	Reimbursable									
	Reimbursable						<u> </u>			_
	b. Civil functions:									
	Direct-funded									
	Reimbursable									
\/	TOTAL MSC/SFOA STAFFIN	ıc								
	UM of III, IVa. & IVb.)									

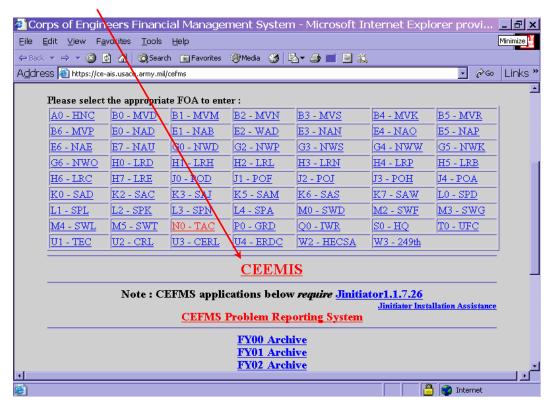
ILLUSTRATION D-2.3 EXPENSES SUMMARY OF MSC/FOA PROGRAM (\$000)

<u>TEM</u>	PY-2	Assumed Budget PY-1	Budget Request PY
FTE			
Labor			
Civilian Pay			
Mil Officer			
FIXED COST			
Rent & Facility O&M			
Commo & Utilities			
CFO Audit			
CPAC/CPOC			
DFAS Payroll			
ufc			
AIS			
Motor Pool			
Mailroom			
PRIP Payback			
IM/IT Transition			
IM/IT Sustainment LOG HPO Sustainment			
FIXED COST Subtotal			
FIXED COST Subtotal			
VARIABLE COSTS			
Travel			
Training & Pro Dev			
Printing & Publications			
Supplies			
Equipment			
Outsourced Services			
Airplane			
Contracts			
PCS			
SES PCS			
Transportation			
Union Activity			
VARIABLE COST Subtotal			

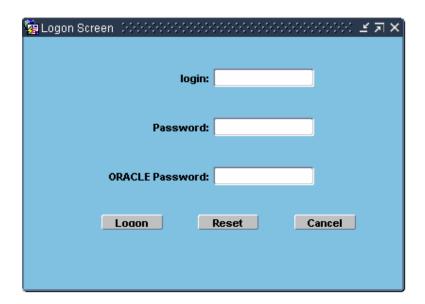
ILLUSTRATION D-2.4

CEEMIS ACCESS

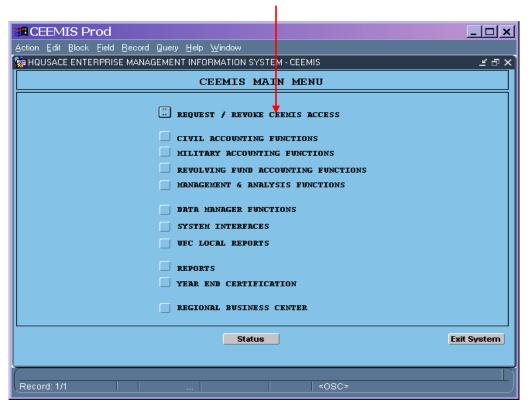
- The first thing you will need, if you do not already have it, is UPASS access to the CEEMIS database. You must contact you Local UPASS Administrator and request the following:
 - o CPC25 SUN 6000 FAMILY HQUSACE
 - o CEEMIS 8I SID S0HQRPP2 ON CPC25
- Once you have gained the above permissions you will need your Userid, UNIX password and ORACLE password to access CEEMIS.
- Click on "CEEMIS" link located at the bottom of the CEFMS menu.



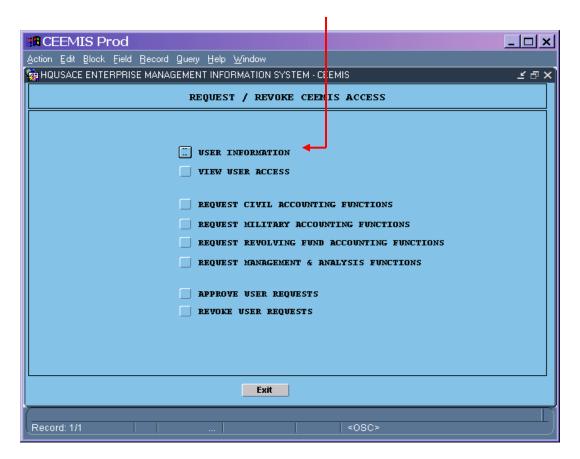
This will take you to the CEEMIS logon page. Enter your USERID in login: and Unix password in the first Password block and your ORACLE Password in the next block then press the LOGON button located at the bottom of the screen.



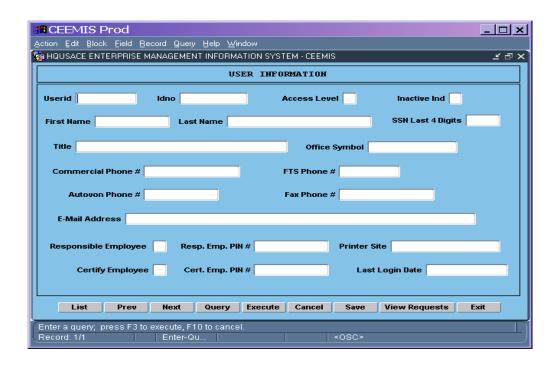
If this is your first time accessing CEEMIS, the system will give you a message telling you that you do not have an access record yet, so you will need to select the first menu option "REQUEST / REVOKE CEEMIS ACCESS".



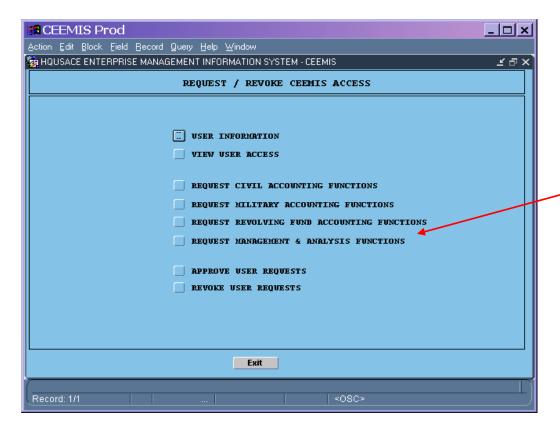
Then choose the first menu option again "USER INFORMATION".



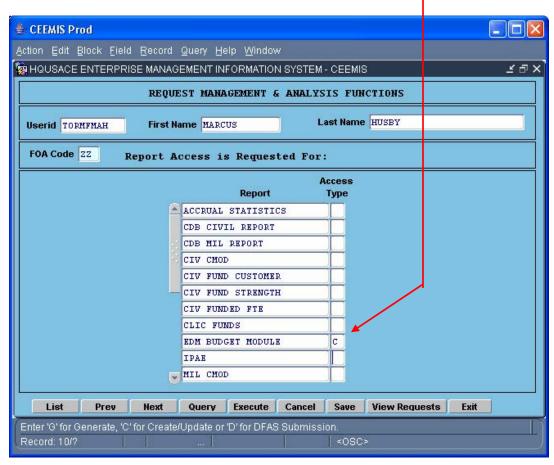
In the USER INFORMATION screen you will be required to fill out the user information screen blocks with your information through the email address block. The system will automatically populate the first line, so don't worry about it. After you have finished filling out your user information hit the save button located at the bottom of the screen and then exit back to the "REQUEST / REVOKE CEEMIS ACCESS" sub-menu.



From the REQUEST / REVOKE CEEMIS access sub-menu, select the "REQUEST MANAGEMENT & ANALYSIS FUNCTIONS" module.



-In the REQUEST MANAGEMENT & ANALYS FUNCTIONS Screen input your FOA, then in the block located next to each report that you need access to, enter a "(C)reate" for the "ACCESS TYPE" if you will be inputting data into the model. If you will only be querying or viewing data then you should enter a "(G)enerate". This will give you permissions to create or generate the report once the access request is approved.



Once you have finished selecting the reports you need permissions to press the Save button located at the bottom of the screen. At this point you are finished and can exit the system. The CEEMIS Office will need to approve the request. Requests are checked daily for approval by the CEEMIS Office personnel. However, if you need immediate access contact Jeff Payne at (901)874-8520 or Marcus Husby at (901)874-8544. For questions regarding the EDM Budget Module contact Richard Robinson at (718)765-7037.

ANNEX E REVOLVING FUND PLANT REPLACEMENT AND IMPROVEMENT PROGRAM (PRIP) TABLE OF CONTENTS

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Purpose and Scope	E-1.1	E-1-1
Program Development Concepts	E-1.2	E-1-1
Program and Budget Guidance	E-1.3	E-1-1
Submission Requirements and Dates	E-1.4	E-1-2

Annex E PLANT, REVOLVING FUND PLANT REPLACEMENT AND IMPROVEMENT PROGRAM (PRIP)

E-1.1. **Purpose and Scope.** This annex provides policy and general procedural guidance for Plant Replacement and Improvement Program (PRIP) development. To provide a uniform approach for program development and justification, the various plant items have been grouped into categories. Guidance for the electronic transmission of automated data for submittal of limited program recommendations is contained in the 1130 series of Engineer Regulations (ERs). Procedures for preparing input, for generating these reports, and for updating data are also included in the ER 1130 series. From time to time, additional detailed guidance will be provided by CERM-B in supplemental memoranda.

E-1.2. Program Development Concepts.

- a. **Categories.** All plant items should be identified by category. Detailed definitions for the categories and subcategories can be found in Annex G, ER 37-1-29, Financial Administration, Financial Management of Capital Investments. The categories and subcategories authorized for use with this program submission are in Table 3 of the main part of the EC.
- b. **Major and Minor Items.** For programming purposes all items of plant will be classified as either major or minor items. Major Items will be further classified as either new or continuing items.
- (1) **Major Items.** New Major Items consist of those items which exceed HQUSACE authority and which require submittal through the Assistant Secretary of the Army (CW) to the Office of Management and Budget (OMB) and the Congressional Committees on Appropriations for concurrence. The limit of Chief of Engineers authority is \$700,000. However, for purposes of the FY 09 program submission, all new requirements estimated to cost \$525,000 or more will be treated as New Major Items, and submitted with full justification for Congressional review. Continuing Major Items consist of those acquisitions costing more than \$700,000, which were previously submitted to and concurred in by OMB; and authorized by the Congressional committees. An update shall be submitted on all continuing major items with scheduled obligations in FY09. Continuing Major Items with cost increases of 10% or more require re-authorization. Documentation to support the increase will be submitted along with an updated Economic Analysis. In the absence of Congressional action on the current year PRIP budget request, the President's current year program will be used for planning purposes with the assumption that the program request for continuing items and new starts will be enacted by 1 October of the current year. In the case that appropriations are not made by the Congress, but that a continuing resolution is instituted, major item new start projects will not be executed until full year appropriations are enacted.
- (2) **Minor Items.** For FY09 minor items are those items which exceed the capitalization threshold of \$250,000 but which do not exceed the Chief of Engineers authority level.
- E-1.3. **Program Budget Guidance.** Major Subordinate Command (MSC) Commanders will develop and submit a total PRIP for their command to include district requirements. Tabulation of program requirements will reflect the total MSC program and will show both MSC and district priorities for each item of plant. Each item of plant (major and minor) shall be submitted with full justification. This justification shall be submitted on ENG Form 4613-R for major items and ENG Form 4943-R for minor items. Electronic facsimiles of these forms are acceptable. In addition, major item new starts proposed for FY 09

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shall be submitted in accordance with ER 37-1-29 and are to be accompanied by economic and affordability analyses. A five year PRIP <u>plan</u> will be submitted annually, showing the current year, the program year, and the follow- on three out-years using ENG Form 1978-R or an approved electronic facsimile. The-PRIP plan shall be updated only after the mid-year review at the end of the second fiscal quarter or whenever significant changes occur. A copy of the semiannual update and changes shall be forwarded to CERM-B in accordance with the HQ mid-year review calendar published each fiscal year by CERM-B.

E-1.4. Submission Requirements and Dates. See Table 2 of the main part of this EC.

ANNEX F AUTOMATION PROGRAM TABLE OF CONTENTS

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Background	F-1.1	F-1-1
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Program and Budget Guidance	F-1.3	F-1-1
Submission Dates and Requirements	F-1.4	F-1-2

Annex F AUTOMATION PROGRAM

- F-1.1. **Background.** House Report 103-135, June 17, 1993, accompanying the Energy and Water Development Appropriations Bill, 1994, directs the Corps to "provide separate and distinct data for automation costs" in future program requests. The basis for this request is the Committee's belief that "the cost attributable to the development and implementation of automated programs of the Corps of Engineers is entirely unreasonable." In accordance with this direction, the Civil Works Directorate provides Congress with a display of estimated automation costs with its annual program submissions.
- F-1.2. **Program Development Concepts.** For PY (FY 09), the Corps will provide a display similar to that of PY-1, organizing CW automation costs according to the Programs for major investments.
- a. The Programmatic management of major IT investment enables the Corps to achieve greater efficiencies within these investments. The programs are:
 - Financial Management Services Program
 - Asset Management Services Program
 - Emergency Preparedness and Response Program
 - Business Management Tools Program
 - Acquisition Services Program
 - Science and Engineering Technology Program
 - Real Estate Management Program
 - IT Infrastructure and Office Automation Program
- b. Additionally, we will distinguish between items proposed for PRIP acquisition (i. e., items supporting more than one project or program and costing more than \$250,000), also displayed under the Revolving Fund section of the program; and items costing less than \$250,000, and expensed, or acquired using specific study, project or program funds.
- F-1.3. **Program and Budget Guidance.** Information Technology Investment Portfolio System (ITIPS) must be maintained up-to-date and reflect your best estimate of what actual requirements will be since it is the data source for the estimate of our automation costs being reported to Congress. The PRIP Five-Year Plan remains primarily a planning tool, but since the data in it is used to prepare our automation costs estimate it is important that it too reflect your best estimate of what actual requirements will be. Justifications to support PY PRIP requirements in plan are to be submitted with the PRIP budget submittal due 1 Jun. Refer to ER 37-1-29 for instructions for preparing, justifying and submitting PRIP budget requirements.
- **SPECIAL NOTE FOR AUTOMATED ENGINEERING TOOLS** (ITIPS classification). The Automated Engineering Tools (AET) classification represents an aggregation of field-level initiatives of individual offices throughout USACE for procurement and support of AIS products in support of assigned technical functions. Nearly three-quarters of this funding item is identified for Computer Aided Design (CAD) and Geographic Information System (GIS) tools. The remainder includes surveying, mapping, global

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positioning systems, data management, and remote lock and dam operating systems. AET represents the largest single cost item under the Science and Engineering Technology Program, approximately \$40M USACE-wide in PY. Please pay particular attention to the accuracy of this line item in the update of your ITIPS record. We will be utilizing these numbers to better define the magnitude of our Science and Engineering (S&E) tools investments, as part of the ongoing USACE efforts to improve the support of S&E.

F-1.4. Submission Dates and Requirements.

- a. Information Technology Investment Portfolio System (ITIPS). In the case of the ITIPS, which is updated annually as part of the Corps' Capital Planning and Investment Control Process (CPIC), the most important data elements for the Civil Works automation budget are contained in the PY Requirements Tabs (Direct, Site, and PRIP) for development, modernization, operations and support. Although ITIPS is continually available for updating, the Requirements Tabs (for financial data input) are only open during the 1st quarter of the FY to coincide with the start of the CPIC process. Please ensure that the ITIPS is kept up to date and all cost data are entered during the aforementioned update period. (In accordance with ER 25-1-2, the functional proponent has Life Cycle Management of Information Systems (LCMIS) responsibility for any Automated Information System AIS. Although this party may not be responsible for entering data into the ITIPS, it is responsible for the accuracy of the data.).
- b. **PRIP Five-year Plan.** A new PRIP Five-year Plan must be submitted annually on 31 Jul. Please ensure that your annual PRIP Five-year Plan contains accurate FY 09 estimates for Categories 80 (Software) and 90 (Hardware). Refer to ER 37-1-29 for instructions for preparing the PRIP Five-Year Plan and update submission requirements.

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ANNEX G CONTINUING AUTHORITIES PROGRAM

G-1. General.

- a. The CAP is a group of 10 legislative authorities under which the Secretary of the Army, acting through the Chief of Engineers, is authorized to plan, design, and implement certain types of water resources projects without additional project specific congressional authorization. The purpose of the CAP is to plan and implement projects of limited size, cost, scope, and complexity. Although there is no specific minimum project size or cost, very small projects are not pursued under CAP as they should be implemented by other Federal or non-Federal entities, and large or complex problems are pursued under the specifically authorized programs. The table below lists the CAP authorities and their project purposes.
- b. General Requirements. Projects recommended for implementation pursuant to CAP authorities must be justified, formulated, and implemented in accordance with the requirements discussed in ER 1105-2-100. There are two phases for CAP projects.
 - (1) Feasibility Phase.
 - (2) Design and Implementation Phase.

CAP AUTHORITIES

AUTHORITY	PROJECT PURPOSE
Section 14, Flood Control Act of 1946, as amended	Streambank and shoreline erosion protection of public works and non-profit public services
Section 103, River and Harbor Act of 1962, as amended (amends Public Law 79-727)	Beach erosion and hurricane and storm damage reduction
Section 107, River and Harbor Act of 1960, as amended	Navigation improvements
Section 111, River and Harbor Act of 1968, as amended	Shore damage prevention or mitigation caused by Federal navigation projects
Section 145, Water Resources Development Act of 1976, as amended	Placement of dredged material on beaches
Section 204, Water Resources Development Act of 1992, as amended	Beneficial uses of dredged material
Section 205, Flood Control Act of 1948, as amended	Flood control
Section 206, Water Resources Development Act of 1996, as amended	Aquatic ecosystem restoration
Section 208, Flood Control Act of 1954, as amended (amends Section 2, Flood Control Act of August 28, 1937)	Removal of obstructions, clearing channels for flood control
Section 1135, Water Resources Development Act of 1986, as amended	Project modifications for improvement of the environment

G-2. CAP Budget Restrictions.

- a. Categorical Restrictions. In accordance with ER 1105-2-100, the following categories of work shall not be submitted for budgeting in CAP unless specific legislative direction is provided. If projects of these types are proposed for CAP budgeting, the legislative authority must be specified in the remarks data field.
 - Study only activities.
 - Projects to implement or replace any portion of a project specifically authorized by Congress.
 - Projects that nullify or change an existing condition of non-Federal responsibility required for a
 project specifically authorized by Congress or implemented under a CAP authority.
 - Adoption of a non-Federal project for future maintenance at Federal expense.

- Restoration of completed Corps projects to their authorized dimensions.
- Required non-Federal maintenance at a Federally constructed project.
- Correction of design deficiencies on another CAP project or a specifically authorized project.
- b. Funding Limits.
- (1) Feasibility Phase Funding Limits. For projects without an FCSA date scheduled prior to October 2008, the cumulative total of prior feasibility allocations plus the amounts requested for feasibility in increments 1-8 will not exceed the amounts shown below. Any project specific waivers to this restriction will be documented in the remarks. Place any additional feasibility capability in increment 9.
 - For Sections 206 and 1135 projects with Feasibility phase initiated after January 2006, not more than \$100,000.
 - For all other Sections not more than \$100,000.
 - (2) D&I Phase Funding Limits.

For CAP projects with an executed PCA, the total cumulative request for the D&I phase in increments 1-3 will not exceed the PY obligation capability. Place additional capability amounts in increments 4-8.

For CAP projects without a PCA date scheduled prior to October 2008, the cumulative D&I requests in increments 1-8 will equal one of the following options.

- The amount required to complete full funding of the D&I phase. Or,
- For projects continuing design pursuant to the provisions of Appendix F, the PY obligation capability for design. Or,
- Not more than \$50,000 (cumulative) to initiate D&I and negotiate a PCA. If this option is chosen, then place any additional D&I capability in increment 9.
- c. Federal Participation Limits. CAP budget submissions shall comply with the limits given in ER 1105-2-100, Table F-2. The table is reproduced here for emphasis.

ER 1105-2-100, TABLE F-2 STATUTORY FEDERAL PARTICIPATION LIMITS

Authority	Per Project Limit (\$)	Annual Program Limit (\$)
Sec 14	1,000,000	15,000,000
Sec 103	3,000,000	30,000,000
Sec 107	4,000,000	35,000,000
Sec 111	5,000,000	N/A
Sec 145	N/A	N/A
Sec 204	N/A	15,000,000
Sec 205	7,000,000	50,000,000
Sec 206	5,000,000	25,000,000
Sec 208	500,000	7,500,000
Sec 1135	5,000,000	25,000,000

G-3. Coordination Account. Coordination account funds are not budgeted against specific projects. Coordination account funds will be prepared by HQ. Coordination activities related to on-going projects are funded in budget activities for that project's funding account.

G-4. Appropriation Account. CAP projects will be budgeted in accordance with the table shown below. Budget instructions for the applicable account apply. For example, include sections 111, 145, and 204 when applying the 75% limit given in the O&M instructions. CCS codes to use for sections 111, 145, and 204 are given in the O&M instructions.

CAP Section	Appropriation Account for Budgeting	
14	Construction	
103	Construction	
107	Construction	
111	O & M	
145	O & M	
204	O & M	
205	Construction	
206	Construction	
208	Construction	
1135	Construction	

G-5. Increments Criteria. CAP budget items shall be assigned to Increments and ranked using a performance based analysis of incremental benefits to be realized by incremental increases in overall program funding. Put unbudgetable items in increment 9. For each increment, if there are multiple independent activities or contracts for a given project, then itemize requests for each separable activity or contract. Only items meeting the inclusion criteria may be included in a given increment. As stated in the Main EC, contracts of \$20 million or less are to be fully fund.

- a. Increment 1 Inclusion and exclusion criteria:
- Includes continuing or new items for phases that were budgeted for in PY-1.
- Excludes new phases and items requiring initiation of new phases.
- Excludes items for projects that have been terminated, completed, funded for completion, or which are no longer likely to produce an eligible project.
- Excludes unbudgetable items.
- **b.** Increment 2 Inclusion and exclusion criteria:
- Includes items for previously funded phases.
- Excludes new phases and items requiring initiation of new phases.
- Excludes unbudgetable items.
- **c.** Increment 3 Inclusion and exclusion criteria:
- Includes items for continuing or new phases to sustain the efficient PMP project schedule.
- Excludes items which advance the efficient project schedule.
- Excludes unbudgetable items.
- **d. Increments 4-8** Inclusion and exclusion criteria:

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- Includes additional capability amounts for continuing or new phases to enhance or advance the PMP project schedule.
- Excludes unbudgetable items.
- e. Increment 9 Inclusion and exclusion criteria:
- Includes unbudgetable items. Explain in remarks why the item is not budgetable.
- Excludes budgetable items.
- **G-6. Program Ranking Criteria.** All CAP budget items shall be ranked using performance based analysis. District and MSC Rankings shall use consecutive integer numbers beginning with the number one. The entire CAP Program shall be ranked across all CAP Sections. Each item must have a unique ranking number.

G-7. Data Elements and Ranking Method.

- a. General.
- (1) Unless specified otherwise, all costs are to be entered in units of \$1,000.
- (2) All dates are entered in calendar date form as YYYY-MM-DD. (http://www.iso.org/iso/en/prods-services/popstds/datesandtime.html)
 - (3) If data is not available or not applicable, then enter NA.
 - b. Data definitions and ranking method are given in the attached Excel workbook.

