



**DEPARTMENT OF THE ARMY**  
MISSISSIPPI VALLEY DIVISION, CORPS OF ENGINEERS  
P.O. BOX 80  
VICKSBURG, MISSISSIPPI 39181-0080

REPLY TO  
ATTENTION OF:

CEMVD-PD-N

06 FEB 2012

MEMORANDUM FOR Commander, New Orleans District

SUBJECT: Review Plan (RP) for Operations and Maintenance  
Projects within the New Orleans District, Rivers and Harbors  
Projects

1. References:

a. Memorandum, CEMVN-ED-E, 3 November 2011, subject as  
above.

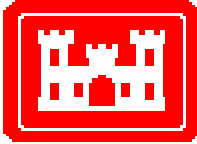
b. EC 1165-2-209, Civil Works Review Policy,  
31 January 2010.

2. The subject Review Plan (RP) provided under Reference 1.a.  
has been reviewed. It is consistent with the purpose and policy  
of EC 1165-2-209. Therefore, the RP is approved.

3. The RP should be posted to the District website.

4. The MVD point of contact is Mincer Minor, CEMVD-PD-N, at  
(601)634-5841.

  
JOHN W. PEABODY  
Major General, USA  
Commanding



US Army  
Corp of Engineers  
New Orleans District

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# **REVIEW PLAN**

## **CIVIL WORKS OPERATIONS AND MAINTENANCE PROJECTS WITHIN THE NEW ORLEANS DISTRICT**

### **RIVERS AND HARBORS PROJECTS**

Mississippi Valley Division  
New Orleans District

**DATE OF PLAN: 30 SEPTEMBER 2011**

REVIEW PLAN FOR CIVIL WORKS OPERATIONS AND MAINTENANCE PROJECTS WITHIN THE  
NEW ORLEANS DISTRICT, RIVERS AND HARBORS PROJECTS

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**REVIEW PLAN  
CIVIL WORKS OPERATIONS AND MAINTENANCE PROJECTS  
WITHIN THE NEW ORLEANS DISTRICT  
RIVERS AND HARBORS PROJECTS**

**1. General.**

a. This programmatic Review Plan was developed in accordance with EC 1165-2-209, dated 31 Jan 10 and will include all appropriate levels of review as required by the EC for routine Operations and Maintenance (O&M) for Civil Works projects as authorized under respective River and Harbor Acts referenced in paragraph 2c. It establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and operation, maintenance, repair, replacement and rehabilitation (OMRR&R). It provides the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) operations and maintenance (O&M) documents and work products. All projects covered by this review plan have been previously constructed, and associated designs are for O&M of the existing project features. The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. This plan covers all routine projects and products under these programs. As the projects develop, this plan will be updated to include newly defined decision and implementation documents (see the "Review Plan Approval and Changes paragraph").

b. Because the projects included in this plan are in the O&M phase of work there are no Project Management Plans. O&M work is guided by the Rivers and Harbors Acts and subsequent planning and design documents already developed for these projects (i.e., Design Memorandums (DM's), General Design Memorandums (GDM's), and Feasibility Studies).

**2. Summary of Programs.**

This review plan is applicable to decision and implementation documents developed for the following programs:

a. Program: Mississippi River and Tributaries (MR&T) Maintenance

(1) Projects:

(a) Old River

(b) Atchafalaya Basin Floodway System

(2) Location: Southern Louisiana, throughout the New Orleans District

(3) Products: TBD – None scheduled to date.

b. Program: Mississippi River and Tributaries (MR&T) Construction

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- (1) Projects:
  - (a) Old River
  - (b) Atchafalaya Basin Floodway System
- (2) Location: Southern Louisiana, throughout the New Orleans District
- (3) Products:
  - (a) P&S for Water Management Units

c. Program: Operations and Maintenance, General

- (1) Projects:
  - (a) Atchafalaya River, Bayous Chene, Boeuf & Black, River and Harbor Act 1968.
  - (b) Barataria Bay Waterway, River and Harbor Act 1958
  - (c) Bayou Bonfouca, River and Harbor Act 1927
  - (d) Bayou Lacombe, River and Harbor Act 1935
  - (e) Bayou Lafourche, River and Harbor Act 1935
  - (f) Bayou Segnette Waterway, River and Harbor Act 1954
  - (g) Bayou Teche, River and Harbor Act 1934
  - (h) Calcasieu River & Pass, River and Harbor Act 1960
  - (i) Chefuncte River and Bougue Falia, River and Harbor Act 1958
  - (j) Empire Waterway, River and Harbor Act 1946
  - (k) Freshwater Bayou, River and Harbor Act 1960
  - (l) Gulf Intracoastal Waterway (GIWW), River and Harbor Act 1946
  - (m) Houma Navigation Channel, River and Harbor Act 1962
  - (n) Mermentau River, Flood Control Act 1941
  - (o) Miss River, Baton Rouge to the Gulf, River and Harbor Act 1962
  - (p) Miss River, Baton Rouge to the Gulf, Supplement Appropriation Act 1985
  - (q) Mississippi River Outlets to Venice, River and Harbor Act 1968
  - (r) Tangipahoa River (Bar Channel), River and Harbor Act 1960
  - (s) Vermilion River, Flood Control Act 1941
  - (t) Waterway from Intracoastal Waterway to Bayou Dulac, River and Harbor Act 1962 (Bayous Grand Caillou and LeCarpe)
- (2) Location: Southern Louisiana, throughout the New Orleans District.
- (3) Products:
  - (a) P&S for Southwest Pass Pile Dikes.
  - (b) P&S for foreshore dike construction.
  - (c) P&S for lock guide walls.
  - (d) P&S for shoreline protection.
  - (e) P&S for lock building repair or replacement.
  - (f) P&S for lock dolphin repair or replacement.
  - (g) P&S for maintenance dredging.
  - (h) P&S for hurricane contingency.
  - (i) P&S for water management units.
  - (j) P&S for jetty repairs.
  - (k) P&S for pumping station repairs or maintenance.

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d. Program: Construction General

(1) Project: Red River

(2) Location: Above Old River

(3) Products: TBD – None scheduled to date.

**3. Description of Programs.**

a. The programs identified in this plan were authorized to maintain navigation channels and associated structures within the New Orleans District. These projects have all been previously designed and constructed. Project limits, channel dredging templates, and design parameters associated with stabilization/contraction structures were designed and approved at the time of authorization; and are used routinely when maintenance efforts are required. Routine work efforts include channel maintenance dredging, rehabilitation of jetties, channel foreshore dikes, bank paving, and similar stone structures, repairs and/or replacement of pile dike structures, and operation and maintenance of associated structures.

b. This plan covers routine projects that are considered to be “non-complex,” relatively low risk and relatively small as described in section 4 of ER 1110-1-12. More importantly, the projects included in this plan consist of O&M to existing authorized and constructed projects, and the vast majority of current and anticipated future work is generally on a repetitive basis. Operations and Maintenance (O&M) dredging is required on all authorized navigation projects within the New Orleans District to assure safe and dependable navigation channels. The frequency of dredging for each specific channel or reach of channel is fairly standard without consideration of emergency dredging efforts resulting from hurricane impacts. O&M on existing channel training structures such as existing channel jetties or shoreline protection is also required on a periodic basis. Designed features of work, including dredging templates and disposal plans have been previously authorized, reviewed, and constructed. In addition, the scopes of work for all projects covered under this review plan are outside of Hurricane and Storm Damage Risk Reduction System (HSDRRS) requirements and resulting construction efforts pose no threat to life or property.

c. Proposals for construction of new navigation channels as well as revisions to existing channel alignments, limits, and/or dimensions normally require new construction authorization. Such efforts would fall outside the coverage of this review plan intent. An independent review plan for coordination of study, design, and P&S preparation efforts would be prepared for such new navigation planning; or if appropriate, this plan may be revised to incorporate such new work.

d. Designs for existing authorized navigation channels are documented within Design Memorandums (DM’s), General Design Memorandums (GDM’s), and Feasibility

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Studies as cited in the references provided in the References paragraph. The associated disposal plans for placement of dredged material, although originally established during the design proceedings, have been generally updated to accommodate environmental considerations (NEPA, Endangered Species, Ocean Dumping Act, etc) which came on line in the late 1960's and early 1970's, and establish beneficial use of the dredged materials where practical. Disposal plans are coordinated with Louisiana Department of Natural Resources (LDNR), to assure compliance with the Louisiana Coastal Resources Program.

e. Stable and dependable channels are crucial for the integrity of the United States navigation system and international trade. Project Management methods for monitoring and maintaining the Districts authorized navigation channels, design procedures, and coordination with the State on beneficial use opportunities have been successful for many years. Consequently, significant changes to these procedures are not expected.

f. No impacts to threatened or endangered species or any adverse impacts on fish and wildlife species or their habitats are expected from navigational O&M work. The presence of various nesting wading birds, brown pelicans, manatees, pallid sturgeon, sea turtles and bald eagles are constantly monitored by USACE and USFWS biologists, and addressed as necessary in all P&S packages prepared. Additionally MVD districts hold annual environmental meetings to obtain USFWS clearance on proposed work.

g. The District's O&M program, continuously seeks to partner with organizations that embody the common goals of the Corps' missions of navigation safety and environmental stewardship. These partnerships include the U.S. Coast Guard, state and federal resource agencies, navigation and shipping industries, and the dredging community. Monthly maintenance forums are held at the New Orleans District to coordinate plans for navigation maintenance and discuss the concerns of all parties.

h. Plans and specifications for the contracted work are prepared based on routine monitoring of the Districts waterways, input from local users, analysis of channel surveys, and available funding. All construction plans and specifications undergo DQC and BCOE reviews, using the DrChecks computer system for documentation and storage of comments submittal and resolution.

#### **4. References.**

The following references cite policy and guidelines regarding quality management and procedures for project document review. In addition, references citing initial design parameters of the major waterways covered under this review plan for O&M proceedings are included. The following USACE publications include Engineering Circulars (EC), Engineering Regulations (ER), Engineering Manuals (EM), Quality Management System Processes, Project Management Business Processes, Design

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Memorandums (DM's), General Design Memorandums (GDM's), Unified Facilities Criteria (UFC), and Feasibility Studies.

- EC 1165-2-209 Water Resources Policies and Authorities – Civil Works Review Policy, 31 January 2010
- ER 5-1-1, Project Management Business Process (11/1/2006)
- ER 1110-1-12, Quality Management, 21 July 2006.
- ER 1110-1-8155, Specifications, dated 10 Oct 2003.
- ER 1110-1-8159, Engineering and Design, DrChecks, dated 10 May 01.
- ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 August 1999.
- EM 385-1-1 Safety and Health Requirements Manual, ENG Form 5044-R, September 2008
- QMS 08502-MVD, Review Plans for Technical Products, dated 6 May 11.
- PMBP Manual, Proc 2000 PMP/PgMP Development
- PMBP Manual, REF8008G Quality Management Plan
- Atchafalaya River and Bayous Chene, Boeuf, and Black; Design Memorandum #1, General Design; February 1972.
- Bayou Lafourche and Lafourche Jump Waterway, Louisiana; Design Memorandum #1; General Design; January 1962
- Lafourche Jump Waterway; General Design Memorandum: Supplement #1; November 1962
- Bayou Lafourche, Port Fourchon Navigation Channel, Feasibility Study; August 1994
- Bayou Lafourche, Louisiana, Belle Pass Jetty Rehabilitation; Design Memorandum #1; December 1960
- Barataria Bay Waterway; General Design Memorandum; September 1959
- Calcasieu River and Pass, Louisiana; Design Memorandum #1, General Design; June 1961
- Calcasieu River at Devil's Elbow, Louisiana; Design Memorandum #1, General Design; November 1974
- Freshwater Bayou, Louisiana; Design Memorandum #1, General Design; August 1961
- Mermentau River Basin, Mermentau River, Louisiana - Flood Control, Irrigation, and Navigation; Definite Project Report; June 1949
- Mermentau River, Gulf of Mexico Navigation Channel through Lower Mud Lake; Federal Assumption of Maintenance, Interim Feasibility Report (Channel & Jetties); June 1975
- Mermentau River, Louisiana, Bayous Nezpique and Des Cannes; Design Memorandum #1, General Design; September 1968
- Chefuncte River and Bogue Falia, Louisiana, Design Memorandum #1, General Design.
- Mississippi River and Tributaries, Baton Rouge Harbor, Louisiana (Devils Swamp), Design Memorandum #1, General Design

### 5. Review Management Organization (RMO) and Coordination.

a. The Mississippi Valley Division Office (MVD) is the RMO for all current implementation documents covered by this edition of this plan (there are currently no decision documents needed for the projects associated with this plan). District Quality Control/Quality Assurance will be performed by the New Orleans District (MVN).

b. The New Orleans District will establish teams to perform DQC/QA, while the RMO will establish review teams for Agency Technical Reviews (ATRs). Any Independent External Peer Reviews (IEPRs, types I or II) that may become required by this review plan will be coordinated with MVD and any appropriate Planning Center of Expertise (PCX) needed. When a PCX is designated as RMO for any ATR or IEPR, MVN will coordinate with MVD and the designated PCX. The appropriate RMO will



coordinate with the Cost Engineering Branch & Directories of Expertise (DX) to conduct any of these other necessary reviews.

## 6. Review Levels.

a. **Nature of Work Relative to Review Levels.** Because the vast majority of the engineering documents covered by this review plan are routine operations and maintenance in nature, most engineering products will undergo DQC reviews only. However, each decision and design document included, or to be included in this plan will be reviewed and screened against the criteria of EC 1165-2-209 to assure the proper levels of review are planned and accomplished based on the following guidance:

b. **DQC Review only:** Routine maintenance design products: Products in this category include repair items, minor modifications to existing structures, ancillary items, etc. (e.g., stoplog repairs and maintenance, replacement of spare miter gates, minor project feature renovation, renovation and construction of new office, shop and other ancillary buildings, etc.). These design products include little to no engineering or design to be done to complete them for repair or construction and do not change the function of the project.

c. **DQC Review by MVN and ATR Lead by another MVD District:** Routine maintenance design products that include significant engineering and design effort. Products in this category include repair items, major modifications to existing structures, etc. (e.g., significant repairs/alterations that do not change or alter the function of a structure, major modifications that do not alter the function or operations of a structure, etc.). These design products include more significant engineering and/or design effort than routine maintenance design products. Because these products don't alter the design or function of a structure, an ATR is necessary to assure engineering and design is reviewed for compliance with standard engineering and design criteria, policy and procedures and an ATR team and team leader from another District within MVD is deemed appropriate for this level of review.

d. **DQC Review by MVN and ATR Lead by another Division:** There may be occasions when maintenance and repair design products include significant engineering and design effort that are major modifications or repairs to structures. Products in this category include major repair items, major modifications to existing structures, etc. (e.g., significant repairs/alterations that change or alter the function of a structure, major modifications that alter the function or operations of a structure, etc.). These design products include more significant engineering and/or design effort relative to the form and function of the civil works project than do routine maintenance and repair design products. Because these products alter the design or function of a structure, an ATR is necessary to assure engineering and design is reviewed for compliance additional parameters such as the basic science of the civil works project, conformity with other project requirements, new or changed customer needs, etc., in addition to standard engineering and design criteria, policy and procedures and a higher level ATR is required with a team leader outside MVD with team members either from a PCX, other

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districts outside MVD, or other districts within MVD as deemed appropriate by the RMO for this level of review.

### **7. District Quality Control (QC) / Quality Assurance (QA).**

a. DQC/QA and Technical Reviews. As required by EC 1165-2-209, all documents shall undergo DQC, an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements. The home district shall manage DQC/QA in accordance with the District Quality Manual.

b. Required DQC/QA Review Expertise. The quality assurance / technical reviewers will be chosen from a pool of reviewers submitted by appropriate technical elements. The team will be made up of individuals who are familiar with the project and documents being produced. A copy of QCPs for each product will be distributed to each member of the Quality Assurance / Technical Review Team. The Team will be comprised of the selected disciplines that have experience in the type of analysis in which they are responsible for reviewing. The makeup of the review team may be modified as the work progresses to meet review requirements.

### **8. DQC/QA Review Table.**

a. All decision and implementation documents for Civil Works O&M will undergo DQC/QA as required by EC 1165-2-209. Appendix A establishes and summarizes the team compositions for each of the current implementation document in development within MVN. DQC reviews will be scheduled on P&S documents (typically at 65% and/or 90% development levels) and will be completed prior to BCOE reviews. BCOE reviews, an integral part of DQC, will be accomplished for each O&M design product.

b. Due to the nature of O&M work, work items are constantly added and deleted due to factors such as funding availability, changing priorities, etc. This list may not be all-inclusive of O&M work within MVN but is a current snapshot to date. Additional decision and implementation documents will be added to this plan as O&M work requirements for the projects develop over time.

c. DQC Review Teams. Due to the nature of this work it is impracticable to establish review teams in advance of products; however, DQC reviewers will be established timely to support review requirements and team members will be derived from senior level design personnel that are not part of the design teams for the products being reviewed. DQC review teams will be established and published in Quality Control Plans that cover each implementation product (i.e., P&S). Reviewers may be requested from other MVD districts as appropriate for coordinated regional workload management. Funding for all reviews will be coordinated by MVN operations managers in coordination with PDT members.

### **9. Agency Technical Reviews (ATRs).**

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a. Based on the criteria of EC 1165-2-209, the Chief, Engineering Division concurs that there are currently no decision or implementation documents for the products covered in this plan that warrant ATR. The products included in this review plan are for general maintenance and operations or routine navigational O&M engineering products and as such, do not include any significant design related to the form or function of the projects they are a part of, do not require NEPA documentation, are of low potential life safety risks, have little consequence of non-performance, do not require a significant investment of public monies, will not affect special features such as cultural resources, historic properties, will not generate hazardous wastes and/or disposal of hazardous materials and will not generate any controversy surrounding Federal action associated with the work products.

b. As these projects progress and new decision and implementation documents are developed to meet the needs of the projects, each new document will be reviewed to assure all necessary reviews are planned for and conducted in accordance with EC 1165-2-209 and this plan will be updated accordingly to include any new decision or implementation document. Any decision or implementation products that involve one or more of the factors established by EC 1165-2-209 will be screened by the Chief, Engineering Division to assure a risk informed analysis and decision is accomplished IAW EC 1165-2-209 as to whether or not an ATR will be required and the project file will be documented accordingly and this review plan will be updated. When an ATR is deemed appropriate for any new decision or implementation document for these projects, the RMO will be requested to establish and manage an ATR team to accomplish appropriate reviews scaled to the complexity and scope of the new work

c. When ATRs are deemed to be necessary for new documents per EC 1165-2-209, ATR will be accomplished to ensure consistency with established criteria, guidance, procedures and policy. ATRs will be managed within USACE by the designated RMO (MVD) and will be conducted by a qualified team from outside MVN and will not have been involved in the day-to-day operations of the project/product. The ATR team will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate. As appropriate for the complexity and scope of the design products, ATR leaders will be designated from either another MVD district or from outside the home MSC to assure independence based on the following guidance:

d. Upon establishment of an ATR team, the organization performing the reviews will provide a cost estimate along with information on how to fund this work to the MVN POC so that funding can be set up.

e. Specific work items shall include but not be limited to the following:

- (1) Review of all documents.
- (2) Review design calculations.
- (3) Enter and resolve all review comments resulting from reviews of the work through Dr. Checks.

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(4) ATR certification upon completion of review. ATR certification requirements are found in EC 1165-2-209. ATR certificates shall be used to certify all reviews. Each certification will include copies of DrChecks review comments showing that all comments are resolved and closed.

(5) Specific submission requirements will be coordinated with the MVN POC.

f. The primary objectives of the review are to ensure that:

(1) The project meets the Government's scope, intent and quality objectives.

(2) Design concepts are valid.

(3) The design is feasible and will be safe, functional, and constructible.

(4) Appropriate methods of analysis were used and basic assumptions are valid and used for the intended purpose.

(5) The source, amount, and level of detail of the data used in the analysis are appropriate for the complexity of the project.

(6) The project complies with accepted practice and design criteria within the industry.

(7) All relevant engineering and scientific disciplines have been effectively integrated.

(8) Content is sufficiently complete for the current phase of the project and provides an adequate basis for future development effort.

(9) Project documentation is appropriate and adequate for the project phase.

g. DrChecks. The DrChecks review tool will be used by the ATR Team in the formal review of the documents. A MVN Engineering Division Project Engineer from the designing office will facilitate DrChecks setup and act as the Review Manager for the reviews. All comments will give a clear statement of the concern, the basis of the concern and, when appropriate, the actions necessary to resolve the concern. Comments will cite appropriate references. The Design Team (USACE or A-E Designer) responses will clearly state concurrence or non-concurrence with the comment. Concurrences shall include what the corrective action is and where and when it will be done. The Design Team will evaluate and respond to each comment in Dr. Checks. Non-concurrences by the Design Engineers will require a mutual resolution between the designer and the ATR Team, before the ATR Team's Certificate of Agency Technical Review is signed. A printout of all DrChecks comments together with the Statement will accompany the submittal of each document noted above. A statement template is attached at the end of this Scope of Work. A formal technical review through the use of DrChecks will take place during major milestones and a final review performed through the 95% level of completion for each document or product.

h. The agency or USACE organization performing the review shall appoint one individual as team lead for the ATR to serve as a single point of contact and liaison between their organization, MVD and MVN.

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i. Certification. The ATR team will certify each of their reviews using the latest version of the ATR certificate found in Appendix C of EC 1165-2-209. The ATR team leader will assure the certificate is completed and forwarded to the RMO for final review and signature. The RMO will review and sign the ATR certificate and forward to the MVN ED POC for final signature by Chief of Engineering in MVN.

### **10. Agency Technical Review Table.**

Appendix B summarizes the ATR team member discipline requirements for all products requiring ATR. When new project features are added to the projects associated by this review plan, they will be reviewed to assure appropriate ATRs are accomplished IAW EC 1165-2-209. Specific and appropriate disciplines and discipline types will be included in all reviews that are determined to be needed. Additionally, disciplines and discipline types may vary from work item to work item. Reviewers from appropriate disciplines will be selected according to each work item requirement.

### **11. Independent External Peer Reviews (IEPRs, Types I & II).**

a. Due to the nature of the programs covered by this plan, there are no IEPR, type I or type II anticipated for the products currently included in this plan. These projects are not hurricane, storm, or flood risk management projects. While economic impacts of non-maintenance on the respective authorized navigation channels is evident, failure to perform required maintenance actions does not pose a direct significant threat to human life, public health, safety or welfare. In fact, various projects and/or specific channel reaches routinely experience lack of project dimensions due to fiscal funding restraints. In general however, maintenance of authorized navigation channels within the New Orleans District has been performed for a number of years with a very high degree of success and makes use of accepted methods and processes. An IEPR would not likely to result in any significant comments.

b. Should any project develop a decision or implementation document for an engineering work product, the PDT will perform a risk based analysis IAW with EC 1165-2-209 and document such decisions in the project files, updating this plan appropriately to include any required IEPRs.

### **12. Independent External Peer Review Table.**

Appendix C summarizes the ATR team member discipline requirements for all products requiring IEPR.

### **13. Tasks, Timing and Sequencing of Reviews.**

Because this review plan is written for a multitude of routine repairs and maintenance, explicitly defining tasks, timing, sequencing etc. DQC Reviews will be appropriately planned during Preconstruction and Engineering (PED). When ATRs and/or IEPRs are determined to be

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required for any new project feature added to these projects, reviews will be appropriately tasked, timed, and sequenced by the project PDTs.

**14. Review Plan Approval and Posting.**

The Mississippi Valley Division Commander is responsible for approving this Review Plan. The Commander’s approval reflects vertical team input to the appropriate scope and level of review for the products. The latest version of the Review Plan, along with the Commanders’ approval memorandum, will be posted on the MVN public webpage at [http://www.mvn.usace.army.mil/pd/pd\\_peerreview.asp](http://www.mvn.usace.army.mil/pd/pd_peerreview.asp) for a minimum period of 30 days and will typically be posted for an indefinite period. Because of the nature of the work covered by this review plan there are normally no public comments; however, when any public comment is made, it will be addressed and resolved in a timely manner.

**15. Review Plan Changes.**

Like a PMP, the Review Plan is a living document and may change as the work progresses. MVN will maintain this Review Plan and add/delete projects without requesting re-approval by MVD unless any significant changes to the plan are needed (e.g., when a new decision document is added, when a work item is added that warrants ATR, or when changes to the scope and/or level of review is needed). When significant changes are needed, the plan will be re-approved by the MSC Commander following the process used for initially approving the plan. Changes to this plan will be annotated in the following table.

Review Plan Changes Summary		
Revision Date	Description of Change	Page / Paragraph Number

**16. Points of Contact.**

The MVN points of contact for this plan are:

- a. Programmatic POCs:

(1) Danny Thurmond, Engineering Division Quality Manager, (504) 862-1214.

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(2) Doyle Hunt, Mechanical Engineer, (504) 862-2306.

b. Technical POCs:

(1) Mathew Crawford, Project Engineer, Control Branch, Engineering  
Division, (504) 862-1428.

(1) Keith O'Cain, Supervisory Civil Engineer, Civil Branch, Engineering  
Division, (504) 862-2746.

(2) Darryl Bonura, Assistant Branch Chief, Structures Branch,  
Engineering Division, (504) 862-2653.

APPENDIX A - REVIEW PLAN FOR CIVIL WORKS OPERATIONS AND MAINTENANCE PROJECTS WITHIN THE NEW ORLEANS DISTRICT, RIVERS AND HARBORS PROJECTS

APPENDIX A - DQC/QA Review Discipline Requirements								
	Title	Number of Each Discipline Needed						
		Geotech	Structural	Civil	Electrical	Mechanical	Architect	Hydraulic
Current Implementation Documents	P&S - New Shops Building at Catfish Pont Control Structure	1	1	1	1	0	1	0
	P&S - Algiers Guidewall and Dolphin	1	1	1	0	0	0	0
	P&S - IHNC, Southwest Floating Guidewall and Dolphin	1	1	1	0	0	0	0
	P&S - Calcasieu Saltwater Barrier, Office and Control Renovations (Mech. & Elec. design only)	1	1	1	1	1	1	0
	P&S - Bayou Sorrel Southwest Guidewall and Dolphin	1	1	1	0	0	0	0
	P&S - Freshwater Bayou, North Gates	1	1	1	0	1	0	0
	P&S - Catfish Point, Gates	1	1	1	0	1	0	0
	P&S - Port Allen Lock, Office Building	1	1	1	1	1	1	0
	P&S - Port Allen Lock, Emergency Warehouse	1	1	1	1	1	1	0
	P&S - IHNC Lock, Stoplog Repairs	1	1	1	0	0	0	0
	P&S - IHNC Lock, Spare Miter Gates	1	1	1	0	1	0	0
	P&S - Calcasieu Lock, Dolphins	1	1	1	0	0	0	0
	P&S – Southwest and South Pass Maintenance Dredging	0	0	1	0	0	0	0
	P&S – MROV, Maintenance Dredging of Tiger Pass and Baptiste Collette	0	0	1	0	0	0	0
	P&S – Calcasieu River and Pass, Maintenance Dredging	1	0	1	0	0	0	0
	P&S – Houma Navigation Canal, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Freshwater Bayou Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Barataria Bay Waterway, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Atchafalaya River & Bayous Chene, Bouef, and Black, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Port Fourchon Navigation Channel, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Northshore Maintenance Dredging (Tickfaw, Tangipahoa, Tchfuncte, Bayou Lacombe)	0	0	1	0	0	0	0
	P&S – Empire Waterway, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Mermentau River, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – GIWW Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Bayou Teche, East and West Calumet, Maintenance Dredging	0	0	1	0	0	0	0
	P&S – Miss River Outlets at Venice, Jetty Repairs and Extensions	1	0	1	0	0	0	1
P&S – Port Fourchon Jetty Repairs	1	0	1	0	0	0	0	
P&S – Calcasieu River and Pass, Foreshore Dike and Jetty Repairs	1	0	1	0	0	0	0	



APPENDIX B – ATR DISCIPLINE REQUIREMENTS

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	Title	Number of Each Discipline Needed						
		Geotech	Structural	Civil	Electrical	Mechanical	Architect	Hydraulic
Current Implementation Documents	NONE CURRENT							

APPENDIX C – IEPR DISCIPLINE REQUIREMENTS

APPENDIX C - IEPR Discipline Requirements								
	Title	Number of Each Discipline Needed						
		Geotech	Structural	Civil	Electrical	Mechanical	Architect	Hydraulic
Current Implementation Documents	NONE CURRENT							