

# Facilities & Equipment Maintenance System (FEM)

Budget year: FY2001 or earlier  
Agency: 202

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## Exhibit 300: Capital Asset Plan and Business Case Summary Part I: Summary Information And Justification

### Section A: Overview

1. Date of submission: **Sep 8, 2008**
2. Agency: **202**
3. Bureau: **00**
4. Name of this Capital Asset: **Facilities & Equipment Maintenance System (FEM)**
5. Unique Project (Investment) Identifier: **202-00-01-02-01-1012-00**
6. What kind of investment will this be in FY2010? **Mixed Life Cycle**
7. What was the first budget year this investment was submitted to OMB? **FY2001 or earlier**
8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap: **The Facilities and Equipment Maintenance (FEM) system is a computerized maintenance management system that provides an on-line interactive tool for managing the life cycle activities and costs of assets, facilities, and equipment. The program also provides purchasing, warehouse and inventory management, and other tools for integrated operations and maintenance management. FEM is based on the commercial off the shelf product MAXIMO, and was selected by the DoD Joint Logistics Systems Center as the standard system for managing and maintaining assets and equipment within DoD depot maintenance activities in 1995. FEM will facilitate the planning and documentation of asset operations and maintenance activities and work at the component level across the Corps. Accurate, life cycle operations and maintenance historical data directly supports the Corps Asset Management effort and the President's Management Agenda. The Navy System Support Group (NSSG) is the DoD FEM Program Manager. NSSG provides FEM program management and product support, including contracting services to the Corps. NSSG utilizes appropriate contract vehicles to support the development and implementation of the USACE FEM application. FEM will replace local unique applications at several field activities, as well as automate facility and equipment maintenance management at an estimated 80% of Corps facilities, which had not developed any automation in support of their maintenance management program. Prior capital investments included the procurement of two unlimited user licenses for FEM and program enhancements that**

included interfaces to CEFMS, APPMS, and UPASS. Capital investment during this phase upgrades the program to the web-based MAXIMO 6.x platform and re-establishes the interfaces with CEFMS, APPMS, and UPASS (completed 13 May 08) and develops a time and attendance interface with CEFMS to eliminate double entry of data (estimated completion in FY2010). The upgrade to the MAXIMO 6.x platform was required to allow continued operation of the program on the USACE EIS. The previous version of FEM utilized MAXIMO 4.x which was based upon Oracle 8. The mandate to move to Oracle 10 necessitated the upgrade investment. Additionally, IBM announced they would no longer support MAXIMO 4.x. O&M during this phase of implementation is focused on an aggressive schedule to deploy the program to the remaining 32 Corps Districts as well as to provide continued support of existing users.

9. Did the Agency's Executive/Investment Committee approve this request? **yes**
- a. If "yes," what was the date of this approval? **Feb 22, 2007**
10. Did the Project Manager review this Exhibit? **yes**
11. Contact information of Program/Project Manager?
- |              |                   |
|--------------|-------------------|
| Name         | <b>[Redacted]</b> |
| Phone Number | <b>[Redacted]</b> |
| E-mail       | <b>[Redacted]</b> |
- a. What is the current FAC-P/PM (for civilian agencies) or DAWIA (for defense agencies) certification level of the program/project manager? **Waiver Issued**
- b. When was the Program/Project Manager Assigned? **Jul 15, 2008**
- c. What date did the Program/Project Manager receive the FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification? **Jul 15, 2009**
12. Has the agency developed and/or promoted cost effective, energy efficient and environmentally sustainable techniques or practices for this project. **yes**
- a. Will this investment include electronic assets (including computers)? **yes**
- b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) **[Not answered]**
1. If "yes," is an ESPC or UESC being used to help fund this investment? **[Not answered]**
2. If "yes," will this investment meet sustainable design principles? **[Not answered]**
3. If "yes," is it designed to be 30% more energy efficient than relevant code? **[Not answered]**
13. Does this investment directly support one of the PMA initiatives? **yes**
- Expanded E-Government**
- Real Property Asset Management**
- a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? **Real Property Asset Management: manages costs of assets, facilities, and equipment, providing O&M data, supporting Corps Asset Mgmt and the 6th Objective of the President's Management Agenda for Asset Mgmt. Expanded E-Gov: deployed DoD-wide, replacing many paper and electronic work mgmt processes. It improves O&M work mgmt, captures facility and equipment activities, conditions, costs, and budget projections to address risk and reliability problems.**
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit [www.whitehouse.gov/omb/part](http://www.whitehouse.gov/omb/part).) **yes**
- a. If "yes," does this investment address a weakness found during a PART review? **no**
- b. If "yes," what is the name of the PARTed program? **1000002 - Corps of Engineers: Hydropower**
- c. If "yes," what rating did the PART receive? **Adequate**

15. Is this investment for information technology? **yes**

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) **Level 1**

17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? (per CIO Council PM Guidance) **(4) Project manager assigned but qualification status review has not yet started**

18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4-FY 2008 agency high risk report (per OMB Memorandum M-05-23)? **yes**

19. Is this a financial management system? **no**

a. If "yes," does this investment address a FFMIA compliance area? **[Not answered]**

1. If "yes," which compliance area: **[Not answered]**

2. If "no," what does it address? **[Not answered]**

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52 **[Not answered]**

20. What is the percentage breakout for the total FY2010 funding request for the following?

Hardware **0**

Software **25**

Services **75**

Other **[Not answered]**

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities? **n/a**

22. Contact information of individual responsible for privacy related questions:

Name **[Redacted]**  
 Phone Number **[Redacted]**  
 Title **Privacy Act Officer**  
 E-mail **[Redacted]**

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? **yes**

24. Does this investment directly support one of the GAO High Risk Areas? **yes**

**Section B: Summary of Spending**

1.

<b>Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)</b>									
<small>(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)</small>									
	<b>PY-1 and earlier</b>	<b>PY 2008</b>	<b>CY 2009</b>	<b>BY 2010</b>	<b>BY+1 2011</b>	<b>BY+2 2012</b>	<b>BY+3 2013</b>	<b>BY+4 and beyond</b>	<b>Total</b>
Planning:	5.412	0.084	0.1	0.1	[*]	[*]	[*]	[*]	[*]
Acquisition:	2.975	0.287	0.8	0.8	[*]	[*]	[*]	[*]	[*]
Subtotal Planning & Acquisition:	8.387	0.371	0.9	0.9	[*]	[*]	[*]	[*]	[*]

Operations & Maintenance:	3.032	0.646	3.468	3.468	[*]	[*]	[*]	[*]	[*]
TOTAL:	11.419	1.017	4.368	4.368	[*]	[*]	[*]	[*]	[*]
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	1.412	0.903	0.553	0.553	[*]	[*]	[*]	[*]	[*]
Number of FTE represented by Costs:	12	4	4	4	[*]	[*]	[*]	[*]	[*]

2. Will this project require the agency to hire additional FTE's? **yes**
  - a. If "yes", How many and in what year? [Not answered]
  
3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes: **Project capital costs (funded by the Plant Replacement and Improvement Program) have been updated to reflect the revised project schedule and actual project spending to date. Overall, projected as well as actual planning costs to date have decreased with a corresponding slight increase in acquisition costs. Capital costs for the FEM upgrade to MAXIMO 6.x is complete. Only \$1.8 million remains for enhancements to interface with other USACE AIS systems. O&M costs (funded by appropriated funds) have been revised to reflect actual project spending to date as well as additional costs required to deploy the program to the remaining USACE Districts. FTE projections have been increased to reflect the actual permanent support requirements of the program.**

### Section C: Acquisition/Contract Strategy

1.

<b>Contracts/Task Orders Table:</b>	
<b>Contract or Task Order Number</b>	N00140-05-D-0057
<b>Type of Contract/Task Order (In accordance with FAR Part 16)</b>	Cost Plus Fixed Fee (base year plus four option years)
<b>Has the contract been awarded</b>	yes
<b>If so what is the date of the award? If not, what is the planned award date?</b>	Sep 15, 2005
<b>Start date of Contract/Task Order</b>	Sep 27, 2008
<b>End date of Contract/Task Order</b>	Sep 26, 2009
<b>Total Value of Contract/ Task Order (\$M)</b>	1.2
<b>Is this an Interagency Acquisition?</b>	yes
<b>Is it performance based?</b>	no
<b>Competitively awarded?</b>	yes
<b>What, if any, alternative financing option is being used?</b>	NA
<b>Is EVM in the contract?</b>	no
<b>Does the contract include the required security &amp; privacy clauses?</b>	yes
<b>Name of CO</b>	[Redacted]
<b>CO Contact information (phone/email)</b>	[Redacted]
<b>Contracting Officer FAC-C or DAWIA Certification Level</b>	3
<b>If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition?</b>	[Not answered]
<b>Contract or Task Order Number</b>	N00140-05-C-0029
<b>Type of Contract/Task Order (In accordance with FAR Part 16)</b>	Cost Plus Fixed Fee (base year plus four option years)
<b>Has the contract been awarded</b>	yes
<b>If so what is the date of the award? If not, what is the planned award date?</b>	Mar 29, 2005
<b>Start date of Contract/Task Order</b>	Oct 1, 2008

<b>End date of Contract/Task Order</b>	Sep 30, 2009
<b>Total Value of Contract/ Task Order (\$M)</b>	0.0725
<b>Is this an Interagency Acquisition?</b>	yes
<b>Is it performance based?</b>	no
<b>Competitively awarded?</b>	yes
<b>What, if any, alternative financing option is being used?</b>	NA
<b>Is EVM in the contract?</b>	no
<b>Does the contract include the required security &amp; privacy clauses?</b>	yes
<b>Name of CO</b>	[Redacted]
<b>CO Contact information (phone/email)</b>	[Redacted]
<b>Contracting Officer FAC-C or DAWIA Certification Level</b>	3
<b>If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition?</b>	[Not answered]
<b>Contract or Task Order Number</b>	N00189-06-C-Z018
<b>Type of Contract/Task Order (In accordance with FAR Part 16)</b>	Firm Fixed Price (base year plus four option years)
<b>Has the contract been awarded</b>	yes
<b>If so what is the date of the award? If not, what is the planned award date?</b>	Feb 1, 2007
<b>Start date of Contract/Task Order</b>	Feb 1, 2007
<b>End date of Contract/Task Order</b>	Jan 31, 2008
<b>Total Value of Contract/ Task Order (\$M)</b>	0.373
<b>Is this an Interagency Acquisition?</b>	yes
<b>Is it performance based?</b>	no
<b>Competitively awarded?</b>	yes
<b>What, if any, alternative financing option is being used?</b>	NA
<b>Is EVM in the contract?</b>	no
<b>Does the contract include the required security &amp; privacy clauses?</b>	no
<b>Name of CO</b>	[Redacted]
<b>CO Contact information (phone/email)</b>	[Redacted]
<b>Contracting Officer FAC-C or DAWIA Certification Level</b>	3
<b>If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition?</b>	[Not answered]
<b>Contract or Task Order Number</b>	N00140-04-D-M927
<b>Type of Contract/Task Order (In accordance with FAR Part 16)</b>	Cost Plus Fixed Fee (base year plus four option years)
<b>Has the contract been awarded</b>	yes
<b>If so what is the date of the award? If not, what is the planned award date?</b>	Jan 17, 2004
<b>Start date of Contract/Task Order</b>	Aug 1, 2008
<b>End date of Contract/Task Order</b>	Jul 31, 2009
<b>Total Value of Contract/ Task Order (\$M)</b>	0.109
<b>Is this an Interagency Acquisition?</b>	yes
<b>Is it performance based?</b>	no
<b>Competitively awarded?</b>	yes
<b>What, if any, alternative financing option is being used?</b>	NA
<b>Is EVM in the contract?</b>	no
<b>Does the contract include the required security &amp; privacy clauses?</b>	yes
<b>Name of CO</b>	[Redacted]
<b>CO Contact information (phone/email)</b>	[Redacted]

Contracting Officer FAC-C or DAWIA Certification Level

3

If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition?

[Not answered]

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why: **The contracts used for the acquisition and subsequent maintenance of this project do not meet the requirements for earned value analysis established by DFARs. The total capital cost of the acquisition does not and will not exceed the threshold amount of \$20 million. The risk associated with the procurement of a COTS application, deployed DoD wide, is insufficient to warrant the additional expense of earned value analysis. The use of earned value analysis in firm fixed price contracts is discouraged by DFAR.**
3. Do the contracts ensure Section 508 compliance? **yes**
  - a. Explain why not or how this is being done? **Section 508 language is included in contracts and deliverables are checked for compliance where applicable.**
4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? **yes**
  - a. If "yes," what is the date? **Nov 19, 2002**
    1. Is it Current? **yes**
  - b. If "no," will an acquisition plan be developed? [Not answered]
    1. If "no," briefly explain why: [Not answered]

**Section D: Performance Information**

Performance Information Table							
Fiscal Year	Strategic Goal (s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2008	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of business lines with P3 for asset management using FEM - (6 total)	17%	33.3%	33.3%
2008	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of Regional Business Centers with FEM being utilized for risk based asset management (8 RBCs total)	25%	50%	25%
2008	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of RBCs with critical civil infrastructure security systems managed in FEM (8 RBCs total)	25%	50%	25%
2008	Asset Management	Customer Results	New Customers and Market Penetration	% of RBCs with FEM deployed and available to users for full utilization (8 RBCs total)	25%	50%	25%
2008	Asset Management	Processes and Activities	Management Improvement	% of Regional Business Centers (RBC) with a trained FEM support cell to assist users - (8 RBCs total)	25%	50%	25%
2008	Asset Management	Technology	Availability	% of RBCs with Web Based FEM	25%	50%	25%
2009	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of business lines with P3 for asset management using FEM - (6 total)	33.3%	66.7%	TBD 1Q FY20010
2009	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of Regional Business Centers with FEM being utilized for risk based asset	25%	50%	TBD 1Q FY20010

				management (8 RBCs total)			
2009	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of RBCs with critical civil infrastructure security systems managed in FEM (8 RBCs total)	25%	50%	TBD 1Q FY20010
2009	Asset Management	Customer Results	New Customers and Market Penetration	% of RBCs with FEM deployed and available to users for full utilization (8 RBCs total)	25%	50%	TBD 1Q FY20010
2009	Asset Management	Processes and Activities	Management Improvement	% of Regional Business Centers (RBC) with a trained FEM support cell to assist users - (8 RBCs total)	25%	50%	TBD 1Q FY20010
2009	Asset Management	Technology	Availability	% of RBCs with Web Based FEM	25%	50%	TBD 1Q FY20010
2010	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of business lines with P3 for asset management using FEM - (6 total)	66.7%	100%	TBD 1Q FY20011
2010	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of Regional Business Centers with FEM being utilized for risk based asset management (8 RBCs total)	50%	75%	TBD 1Q FY20011
2010	Asset Management	Mission and Business Results	Facilities, Fleet, And Equipment Management	% of RBCs with critical civil infrastructure security systems managed in FEM (8 RBCs total)	50%	75%	TBD 1Q FY20011
2010	Asset Management	Customer Results	New Customers and Market Penetration	% of RBCs with FEM deployed and available to users for full utilization (8 RBCs total)	50%	100%	TBD 1Q FY20011
2010	Asset Management	Processes and Activities	Management Improvement	% of Regional Business Centers (RBC) with a trained FEM support cell to assist users - (8 RBCs total)	50%	100%	TBD 1Q FY20011
2010	Asset Management	Technology	Availability	% of RBCs with Web Based FEM	50%	100%	TBD 1Q FY20011

### Section E: Security and Privacy

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment?: **yes**
  - a. If "yes," provide the "Percentage IT Security" for the budget year: **5**
2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment?. **yes**

#### 3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):

Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned certification and accreditation (C&A) update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)
<i>There are no Systems in Planning.</i>			

#### 4. Operational Systems - Security Table:

Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level	Has C&A been Completed, using NIST 800-37?	Date Completed: C&A	What standards were used for the Security Controls tests?	Date Completed: Security Control Testing	Date the contingency plan tested
	Government						

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? **no**
  - a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? **[Not answered]**
6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? **no**
  - a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness. **[Not answered]**
7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above? **N/A**

**8. Planning & Operational Systems - Privacy Table:**

Name of System	Is this a new system?	Is there a Privacy Impact Assessment (PIA) that covers this system?	Internet Link or Explanation	Is a System of Records Notice (SORN) required for this system?	Internet Link or Explanation
FEM	no	yes	PIA is at Army and is not to be posted for Public review due to the fact it contains Privacy information.	yes	PIA is at Army and is not to be posted for Public review due to the fact it contains Privacy information.

**Section F: Enterprise Architecture (EA)**

1. Is this investment included in your agency's target enterprise architecture? **yes**
  - a. If "no," please explain why? **[Not answered]**
2. Is this investment included in the agency's EA Transition Strategy? **yes**
  - a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. **FEM - Facility and Equipment Maintenance System**
  - b. If "no," please explain why? **[Not answered]**
3. Is this investment identified in a completed and approved segment architecture? **yes**
  - a. If "yes," provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect. For detailed guidance regarding segment architecture codes, please refer to <http://www.egov.gov>. **114-000**

**4. Service Component Reference Model (SRM) Table :**

Agency Component Name	Agency Component Description	FEA SRM Service Type	FEA SRM Component	Service Component Reused		Internal or External Reuse?	BY Funding Percentage
				Component Name	UPI		
Sourcing Management	Support the supply of goods or services as well as the tracking and analysis of costs for these goods.	Supply Chain Management	Sourcing Management	[Not answered]	[Not answered]	No Reuse	10
Inventory	Provide for the balancing of customer	Supply Chain	Inventory	[Not answered]	[Not	No Reuse	10

management	service levels with inventory management.	Management	management		answered]		
Portfolio Management	Support the administration of a group of investments held by an organization	Investment Management	Portfolio Management	[Not answered]	[Not answered]	No Reuse	5
Information Retrieval	Allow access to data and information for use by an organization and its stakeholders.	Knowledge Management	Information Retrieval	[Not answered]	[Not answered]	No Reuse	10
Information Mapping / Taxonomy	Support the creation and maintenance of relationships between data entities, naming standards and categorization.	Knowledge Management	Information Retrieval	Information Sharing	[Not answered]	No Reuse	5
Standardized / Canned	Support the use of pre-conceived or pre-written reports.	Reporting	Standardized / Canned	Scheduling	[Not answered]	No Reuse	10
Property / Asset Management	Support the identification, planning and allocation of an organization, planning and allocation of an organization physical capital and resources.	Asset / Materials Management	Property / Asset Management	[Not answered]	[Not answered]	No Reuse	10
Data Integration	Support the organization of data from separate data sources into a single source.	Development and Integration	Data Integration	[Not answered]	[Not answered]	No Reuse	5
Asset Cataloging / Identification	Support the listing and specification of available assets.	Asset / Materials Management	Asset Cataloging / Identification	[Not answered]	[Not answered]	No Reuse	10
Facilities Management	Support the construction, management and maintenance of facilities for an organization.	Asset / Materials Management	Asset Cataloging / Identification	[Not answered]	[Not answered]	No Reuse	10
Process Tracking	Allow the monitoring of activities within the business cycle.	Tracking and Workflow	Process Tracking	[Not answered]	[Not answered]	No Reuse	5
Warehouse management	Provide for the storage and movement of material within a warehouse, including these processes: material receipt, order packing, packagin, labeling and shipping.	Supply Chain Management	Warehouse management	[Not answered]	[Not answered]	No Reuse	5
Ordering / Purchasing	Allow the placement of request for a product.	Supply Chain Management	Ordering / Purchasing	[Not answered]	[Not answered]	No Reuse	5

#### 5. Technical Reference Model (TRM) Table:

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification
Sourcing Management	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Sourcing Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Inventory management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Inventory management	Service Platform and	Database / Storage	Database	Oracle Database

	Infrastructure			
Portfolio Management	Service Access and Delivery	Delivery Channels	Web Browser	Microsoft IE 7.X;
Portfolio Management	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Portfolio Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Information Retrieval	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Information Mapping / Taxonomy	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Information Mapping / Taxonomy	Service Access and Delivery	Service Transport	Data Exchange	HTTP
Standardized / Canned	Component Framework	Data Management	Reporting and Analysis	MAXIMO
Property / Asset Management	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Property / Asset Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Data Integration	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Asset Cataloging / Identification	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Asset Cataloging / Identification	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Facilities Management	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Facilities Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Process Tracking	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Process Tracking	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Warehouse management	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Warehouse management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO
Ordering / Purchasing	Service Platform and Infrastructure	Database / Storage	Database	Oracle Database
Ordering / Purchasing	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	MAXIMO

6. Will the application leverage existing components and/or applications across the Government (i.e., USA.Gov, Pay.Gov, etc)? **yes**

a. If "yes," please describe. **Reuse of the Navy's MAXIMO purchase for facilities and equipment management.**

## Part II: Planning, Acquisition And Performance Information

### Section A: Alternatives Analysis

1. Did you conduct an alternatives analysis for this investment? **no**

a. If "yes," provide the date the analysis was completed? [Not answered]

b. If "no," what is the anticipated date this analysis will be completed? [Not answered]

- c. If no analysis is planned, please briefly explain why: **The USACE Information Systems Modernization Program conducted a Structured Requirements Analysis Plan of the USACE maintenance management requirements in 1994. This report received an independent evaluation by Howard University under the auspices of Headquarters, Department of the Army. FEM was designated the USACE corporate standard maintenance management system by the USACE Milestone Decision Authority on 10 December 1998. An additional analysis for the upgrade (Oracle 10) was not performed.**

2. Alternatives Analysis Results:			
Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
Option 1 Baseline FEM2.X	Status quo with existing client server architecture and limited capacity, configuration unsupported by COTS or database versions.	1	1
Option 2 –Upgrade to FEM 3..X	Web based architecture with current version of COTS and database (Oracle 10g) with capacity for entire Corps.	1	1
Option 3 – Complete New System	Abandon existing system and begin at concept phase leading to new development thru deployment	1	1

3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen? **Upgrade to FEM 3.X to maintain technical viability.**
- a. What year will the investment breakeven? (Specifically, when the budgeted costs savings exceeded the cumulative costs.) **2010**
4. What specific qualitative benefits will be realized? **Newest architecture to support eGov and latest technical functionality for FEM as an enabler for asset management.**

5. Federal Quantitative Benefits (\$millions):				
	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
PY-1 and Prior	0	0		
PY	0	0		
CY	0	0		
BY	0	0		
BY+1	0	0		
BY+2	0	0		
BY+3	0	0		
BY+4 and Beyond	0	0		
Total LCC Benefit	0	0	<b>LCC = Life-cycle cost</b>	

6. Will the selected alternative replace a legacy system in-part or in-whole? **no**
- a. If "yes," are the migration costs associated with the migration to the selected alternative included in this investment, the legacy investment, or in a separate migration investment? **[Not answered]**
- b. If "yes," please provide the following information:

List of Legacy Investment or Systems		
Name of the Legacy Investment or Systems	UPI if available	Date of the System Retirement

**Section B: Risk Management (All Capital Assets)**

1. Does the investment have a Risk Management Plan? **yes**
  - a. If "yes," what is the date of the plan? **Jun 11, 2008**
  - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? **yes**
  - c. If "yes," describe any significant changes: **The Risk Management Plan had not yet been completed at the time of last year's submission.**
2. If there currently is no plan, will a plan be developed? [Not answered]
  - a. If "yes," what is the planned completion date? [Not answered]
  - b. If "no," what is the strategy for managing the risks? [Not answered]
3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule: **The life cycle cost estimate has been updated to provide adequate permanent and contract staff to ensure the mitigation of risks outlined in the risk management plan. FY09 and FY10 costs reflect the additional risk of the final deployment of the program throughout the Corps and the completion of the capital investment on the program. Continuing, annual O&M costs include annual maintenance fees to prevent program obsolescence.**

**Section C: Cost and Schedule Performance (All Capital Assets)**

1. Does the earned value management system meet the criteria in ANSI/EIA Standard - 748? **no**
2. Is the CV% or SV% greater than ± 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) **no**
  - a. If "yes," was it the? [Not answered]
  - b. If "yes," explain the causes of the variance: [Not answered]
  - c. If "yes," describe the corrective actions [Not answered]
3. Has the investment re-baselined during the past fiscal year? **no**
  - a. If "yes," when was it approved by the agency head? [Not answered]

**4. Comparison of Initial Baseline and Current Approved Baseline:**

Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
	Planned Completion Date	Total Cost (\$M) Estimated	Completion Date Planned:Actual		Total Cost (\$M) Planned:Actual		Schedule:Cost (# days:\$M)		
Upgrade to FEM 3.0	Aug 7, 2007	1.8	Oct 30, 2007	May 13, 2008	1.8	1.8	196	0	100
Enhancements to FEM 3.X	Sep 30, 2009	4.2	Sep 30, 2010	[Not answered]	4.2	[Not answered]	365	[Not answered]	0
Deploy FEM 3.X Corps wide (includes support costs from FY2004-1st	Sep 30, 2009	8.4	Sep 30, 2010	[Not answered]	8.4	[Not answered]	365	[Not answered]	5

