

Exhibit 300: Capital Asset Plan and Business Case Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview (All Capital Assets)

1. Date of Submission:

2. Agency: Department of Commerce

3. Bureau: Noaa (Nesdis)

4. Name of this Capital Asset: NOAA/NESDIS/ Comprehensive Large Array-data Stewardship System (CLASS)

5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-13-01-3205-00

6. What kind of investment will this be in FY 2010? (Please NOTE: Investments moving to O&M in FY 2010, with Planning/Acquisition activities prior to FY 2010 should not select O&M. These investments should indicate their current status.) 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:

CLASS supports the effort to understand climate variability and change to enhance society's ability to plan and respond through the application of modern, proven techniques and technology. By engineering a transition to an enterprise-capable data storage solution, CLASS will afford efficient management of high volumes (petabytes) of data critical to the United States Global Change Research Program and the scientific community. Management of these data requires a rapid expansion in storage capacity at the Data Centers and automation of data ingest, archive, quality control, and access. Significant increases in data volumes over the next 15 years and corresponding growth in the number and sophistication of system users necessitate this shift from the traditional archive paradigm to a fully operational and integrated system managed at the enterprise level. For example, data from the \$4.5 billion NPP and NPOESS programs will utilize CLASS in lieu of building standalone, dedicated data archival systems.

Large portions of the Nation's current archive of environmental data is stored and maintained by the NOAA National Data Centers. These data exist in disparate systems, with non-standard archive and access capabilities. CLASS will provide a standard, integrated solution to data archive and access, resulting in numerous benefits: an easy-to-use access Portal for the Nation to obtain environmental data; integration of data for the user (Search, Browse, Geospatial capabilities); higher quality and volume of environmental data which contributes to improvements in prediction capabilities; and decreased cost of redundant resources. The CLASS program has identified technologies and best practices to efficiently archive the NOAA satellite and observational data; to safely and permanently preserve those valuable data for future generations to use; and to provide rapid data access in a cost-effective manner.

CLASS archiving priorities will be set by the NOAA Observing Systems Council upon the National Research Council report of August 2007.

A new competitive CLASS contract was awarded June 30, 2008. An Initial Baseline Review will be completed by February 2009.

CLASS will close the CL-COA Data Stewardship capability gap of the "inability to integrate data from various observing systems and provide climate-related data...to the user" By closing this gap the Nation will be better prepared to mitigate the effects of climate and weather extremes

9. Did the Agency's Executive/Investment Committee approve this request? Yes

a. If "yes," what was the date of this approval? 3/10/2006

10. Did the Project Manager review this Exhibit? Yes

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? 2/15/2006

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? 9/1/2009

| | |
|---|---|
| 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) | No |
| 1. If "yes," is an ESPC or UESC being used to help fund this investment? | |
| 2. If "yes," will this investment meet sustainable design principles? | |
| 3. If "yes," is it designed to be 30% more energy efficient than relevant code? | |
| 13. Does this investment directly support one of the PMA initiatives? | Yes |
| If "yes," check all that apply: | Expanded E-Government |
| a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s) (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?) | The CLASS project will directly support the President's Management Agenda (PMA) Expanded E-Government initiative by improving the nation's ability to access Weather and Water data. CLASS consolidates and modernizes archive systems to ensure performance and maintainability and reduce government operating costs internally. CLASS is an integrated data archive and an easy-to-use access to archived environmental data. CLASS is an approved shared service provider within NESDIS OSD Ground Systems. |
| 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.) | Yes |
| a. If "yes," does this investment address a weakness found during a PART review? | Yes |
| b. If "yes," what is the name of the PARTed program? | 10003104 - National Oceanic and Atmospheric Administration: Weather and Related Programs |
| c. If "yes," what rating did the PART receive? | Moderately Effective |
| 15. Is this investment for information technology? | Yes |
| If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23. | |
| For information technology investments only: | |
| 16. What is the level of the IT Project? (per CIO Council PM Guidance) | Level 3 |
| 17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? (per CIO Council PM Guidance) | (1) Project manager has been validated as qualified for this investment |
| 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) | No |
| 19. Is this a financial management system? | No |
| a. If "yes," does this investment address a FFMA compliance area? | |
| 1. If "yes," which compliance area: | |
| 2. If "no," what does it address? | |
| 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 | |
| 20. What is the percentage breakout for the total FY2010 funding request for the following? (This should total 100%) | |
| Hardware | 35 |
| Software | 20 |

- Services 45
- Other 0
- 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
- 23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes
- Question 24 must be answered by all Investments:
- 24. Does this investment directly support one of the GAO High Risk Areas? No

Section B: Summary of Spending (All Capital Assets)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

| Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS) | | | | | | | | | |
|--|------------------|---------|---------|---------|--|--|--|--|--|
| (Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions) | | | | | | | | | |
| | PY-1 and earlier | PY 2008 | CY 2009 | BY 2010 | | | | | |
| Planning: | 16.921 | 4.566 | 4.662 | 2.999 | | | | | |
| Acquisition: | 23.59 | 1.141 | 1.166 | 1.831 | | | | | |
| Subtotal Planning & Acquisition: | 40.511 | 5.707 | 5.828 | 4.830 | | | | | |
| Operations & Maintenance: | 8.071 | 3.073 | 3.138 | 4.136 | | | | | |
| TOTAL: | 48.582 | 8.780 | 8.966 | 8.966 | | | | | |
| Government FTE Costs should not be included in the amounts provided above. | | | | | | | | | |
| Government FTE Costs | 0 | 0 | 0 | 0 | | | | | |
| Number of FTE represented by Costs: | 0 | 0 | 0 | 0 | | | | | |

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

- 2. Will this project require the agency to hire additional FTE's? No
 - a. If "yes," How many and in what year?
- 3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes:

Section C: Acquisition/Contract Strategy (All Capital Assets)

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

| Contracts/Task Orders Table: | | | | | | | | | | | | | | | * Costs in millions | |
|-------------------------------|---|-------------------------------------|--|------------------------------------|----------------------------------|---|--|--------------------------------|------------------------------|--|-------------------------------|--|------------|--------------------------------------|---|---|
| Contract or Task Order Number | Type of Contract/ Task Order (In accordance with FAR Part 16) | Has the contract been awarded (Y/N) | If so what is the date of the award? If not, what is the planned award date? | Start date of Contract/ Task Order | End date of Contract/ Task Order | Total Value of Contract/ Task Order (\$M) | Is this an Interagency Acquisition ? (Y/N) | Is it performance based? (Y/N) | Competitively awarded? (Y/N) | What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A) | Is EVM in the contract? (Y/N) | Does the contract include the required security & privacy clauses? (Y/N) | Name of CO | CO Contact information (phone/email) | Contracting Officer FAC-C or DAWIA Certification Level (Level 1, 2, 3, N/A) | If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition ? (Y/N) |
| Contract # EA133E-08-CQ-0020 | IDIQ | Yes | 6/30/2008 | 6/30/2008 | 6/29/2018 | 200 | No | Yes | Yes | NA | Yes | Yes | | Brendon.Johnson@noaa.gov | Level 3 | |

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:

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why not or how this is being done? The Department of Commerce and NOAA Contracting Offices require the inclusion of Section 508 compliance language in the statement of work for all IT development service contracts. In order to procure all COTS equipment and software, requestors are required to include with their purchase order or file the Government purchase card invoices as well as the vendors statement of compliance (Voluntary Product Accessibility Template VPAT)).

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? 8/7/2006

1. Is it Current? Yes

b. If "no," will an acquisition plan be developed?

1. If "no," briefly explain why:

Section D: Performance Information (All Capital Assets)

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov. The table can be extended to include performance measures for years beyond the next President's Budget.

| Performance Information Table | | | | | | | | |
|-------------------------------|---|------------------------------|--------------------------|--|---|--|---|---|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Service Quality | Accuracy of Service or Product Delivered | Increase volume of environmental data files delivered to customers (in percent) | CLASS FY05 data delivery of 4M data files | 4.4M data files | 5.3M data files |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Increase availability of environmental data as measured by number of files in the catalog | 8.3M files available | 9.55M files available. | 10.3M files available |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Processes and Activities | Quality | Complaints | Capability Maturity | CLASS process baseline adequate for Capability Maturity Model Integrated level 2 | Enhance CLASS process baseline for Capability Maturity Model Integrated level 3 | Completed SCAMPI-C Level 3 appraisal for CLASS-WV completed June 30, 2006 |
| 2006 | 3.1 Advance | Technology | Effectiveness | IT Contribution | Hardware and | T3 connectivity | MPLS | Completed |

Exhibit 300: NOAA/NESDIS/ Comprehensive Large Array-data Stewardship System (CLASS) (Revision 19)

| Performance Information Table | | | | | | | | |
|-------------------------------|---|------------------------------|--------------------------|--|--|--|---|--|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | | | to Process, Customer, or Mission | network upgrades | between Suitland (FOB#4) and Asheville (NCDC) | connectivity between CLASS sites. New hardware architecture installed at Suitland (NSOF) and Asheville (NCDC) | 11/30/06. Delay due to NSOF readiness delay |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Service Quality | Accuracy of Service or Product Delivered | Increase volume of environmental data files delivered to customers (in percent). | FY06 data delivery of 5.3M files. | 5.83M data files delivered | 6.0M data files delivered |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Increase availability of environmental data as measured by number of files in the catalog. | 9.55M files available | 10.98M files available | 11.8M files available |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Processes and Activities | Quality | Complaints | Capability Maturity | Capability Maturity Model Integrated Level -2 | Formal independent assessment of Capability Maturity Model Integrated Level -3 | CLASS-Maryland and CLASS-WV achieved CMMI Level 3 in FY2007. |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Technology | Effectiveness | IT Contribution to Process, Customer, or Mission | Hardware and network upgrades | CLASS nodes in Suitland and Asheville | CLASS Nodes in Suitland (NSOF), Asheville (NCDC), Boulder (NGDC) and West Virginia (NASA IV&V) | CLASS NGDC node was moved into operations during FY2007. |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Service Quality | Accuracy of Service or Product Delivered | Increase volume of environmental data files delivered to customers (in percent) | FY07 data delivery target was 5.83M data files | 6.41M data files | 5.57M data files delivered as of 06/30/08 |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Increase available Environmental Data as measured by number of files in catalog | FY07 target was 10.98M files in the catalog | 12.62M files in the catalog | 13.56M files in the catalog as of 06/30/08 |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and | Processes and Activities | Quality | Errors | Operational effectiveness | No ITIL standards applied to CLASS | Study ITIL standards for process improvement | As of 06/30/08: Studied ITIL standards and implemented new Incident Reporting Procedure. |

Exhibit 300: NOAA/NESDIS/ Comprehensive Large Array-data Stewardship System (CLASS) (Revision 19)

| Performance Information Table | | | | | | | | |
|-------------------------------|---|------------------------------|--------------------------|--|--|--|---|---|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | environmental needs. | | | | | | | |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Technology | Information and Data | External Data Sharing | Data Availability | Current configuration of HW and SW for data storage. | Technical improvements to data storage capabilities | New technology tape robotics system purchased and installed summer 2008. Studying possible replacements for metadata servers. |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Service Quality | Accuracy of Service or Product Delivered | Increase volume of environmental data files delivered to customers (in per cent) | FY08 data delivery target 6.41M files | Increase by 10% over baseline to 7.05M files | TBD |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Increase availability of Environmental data as measured by number of files in catalog | FY08 target of 12.62M files | Increase by 15% over baseline to 14.52M files. | TBD |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Processes and Activities | Quality | Errors | Operational effectiveness | IOC for NPP | Full operational capability for NPP | TBD |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Technology | Effectiveness | IT Contribution to Process, Customer, or Mission | Communication Infrastructure | Current communication infrastructure | Re-evaluation of communication infrastructure for GOES-R planning | TBD |
| 2010 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Service Quality | Accuracy of Service or Product Delivered | Increase volume of environmental data files delivered to customers (in percent). | FY09 data delivery target of 7.05M files | Increase by 10% over baseline to 7.76M files. | TBD |
| 2010 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Increase availability of environmental data as measured by number of files in the catalog. | FY09 target was 14.52M files | Increase 15% over baseline to 16.70M files. | TBD |
| 2010 | 3.1 Advance understanding and predict changes in the Earth's | Processes and Activities | Quality | Errors | Operational effectiveness | IOC for new systems | Full operational capability for additional systems' archives added | TBD |

| Performance Information Table | | | | | | | | |
|-------------------------------|---|------------------|----------------------|--|------------------------------|--------------------------------------|---|----------------|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | environment to meet America's economic, social, and environmental needs. | | | | | | to CLASS | |
| 2010 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Technology | Effectiveness | IT Contribution to Process, Customer, or Mission | Communication Infrastructure | Current communication infrastructure | Develop proposed plan for communication infrastructure for GOES-R | TBD |

Section E: Security and Privacy (IT Capital Assets only)

| 8. Planning & Operational Systems - Privacy Table: | | | | | |
|--|---------------------------------|---|--|--|--|
| (a) Name of System | (b) Is this a new system? (Y/N) | (c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N) | (d) Internet Link or Explanation | (e) Is a System of Records Notice (SORN) required for this system? (Y/N) | (f) Internet Link or Explanation |
| CLASS | No | No | The system does not contain or process personal identifying information (PII). | No | No, because there is no PII and the system is not Privacy Act System of records. |

Details for Text Options:
 Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.
 Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.
 Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

Section F: Enterprise Architecture (EA) (IT Capital Assets only)

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture? Yes
 - a. If "no," please explain why?

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. Climate Sequencing Plan
 - b. If "no," please explain why?

3. Is this investment identified in a completed and approved segment architecture? No
 - 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>. 275-000

| 4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov . | | | | | | | | |
|---|--|------------------------------|-------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------|
| Agency Component Name | Agency Component Description | FEA SRM Service Domain | FEA SRM Service Type | FEA SRM Component (a) | Service Component Reused Name (b) | Service Component Reused UPI (b) | Internal or External Reuse? (c) | BY Funding Percentage (d) |
| CL-COA Data Stewardship | Acquisition, quality control, metadata cataloging, validation, reprocessing, storage, retrieval, dissemination, and archival of data | Back Office Services | Data Management | Data Warehouse | | | No Reuse | 20 |
| CL-COA Data Stewardship | Acquisition, quality control, metadata cataloging, validation, reprocessing, storage, retrieval, dissemination, and archival of data | Back Office Services | Data Management | Loading and Archiving | | | No Reuse | 20 |
| MS-SSV-PSO Ingest/Process Satellite Observations | Allow data and observations to be acquired from both NOAA and non-NOAA satellite sources and processed to a level necessary to prepare the data to be further refined into the required product data sets (e.g. level 1B data) | Back Office Services | Data Management | Loading and Archiving | | | No Reuse | 10 |
| MS-SSV-DRA Product Development, Readiness, and Applications Support | This capability ensures the scientific integrity of products/services. It includes developing new satellite derived algorithms, supporting sensor calibration and validation, and planning, risk reduction, and technology transfer. | Back Office Services | Data Management | Meta Data Management | Meta Data Management | 006-48-01-13-01-3209-00 | Internal | 20 |
| MS-SSV-DRA Product Development, Readiness, and Applications Support | This capability ensures the scientific integrity of products/services. It includes developing new satellite derived algorithms, supporting sensor calibration and validation, and planning, risk reduction, and technology transfer. | Business Management Services | Management of Processes | Governance / Policy Management | Governance / Policy Management | 006-48-01-13-01-3209-00 | Internal | 10 |
| MS-SSV-ENO Ensure 24/7 Operations | This capability includes program management functions and program infrastructure items such as IT, Telecommunications, Facilities, | Digital Asset Services | Knowledge Management | Knowledge Distribution and Delivery | | | No Reuse | 20 |

Exhibit 300: NOAA/NESDIS/ Comprehensive Large Array-data Stewardship System (CLASS) (Revision 19)

| 4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov . | | | | | | | | |
|---|--|------------------------|----------------------|-----------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------|
| Agency Component Name | Agency Component Description | FEA SRM Service Domain | FEA SRM Service Type | FEA SRM Component (a) | Service Component Reused Name (b) | Service Component Reused UPI (b) | Internal or External Reuse? (c) | BY Funding Percentage (d) |
| | and Customer Support. This capability allows the Satellite services program to integrate the other components for maximum benefit to the nation. | | | | | | | |

a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

| 5. Technical Reference Model (TRM) Table: To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment. | | | | |
|--|-------------------------------------|--------------------------|--------------------------|---|
| FEA SRM Component (a) | FEA TRM Service Area | FEA TRM Service Category | FEA TRM Service Standard | Service Specification (b) (i.e., vendor and product name) |
| Loading and Archiving | Component Framework | Data Management | Database Connectivity | Object Linking and Embedding/Database (OLE/DB) |
| Meta Data Management | Component Framework | Data Management | Database Connectivity | Servers meeting Federal Geographic Data Committee (FGDC-STD-001-1998) standards for creating and managing metadata. |
| Governance / Policy Management | Component Framework | Data Management | Reporting and Analysis | Operations Research algorithms and statistical analysis software |
| Data Warehouse | Service Access and Delivery | Service Transport | Service Transport | File Transfer Protocol (FTP) |
| Knowledge Distribution and Delivery | Service Platform and Infrastructure | Delivery Servers | Application Servers | Specialized large servers holding catalogs for identifying and finding environmental data files that are available to customers |

a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

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

a. If "yes," please describe.

Exhibit 300: Part II: Planning, Acquisition and Performance Information**Section A: Alternatives Analysis (All Capital Assets)**

Part II should be completed only for investments identified as "Planning" or "Full Acquisition," or "Mixed Life-Cycle" investments in response to Question 6 in Part I, Section A above.

In selecting the best capital asset, you should identify and consider at least three viable alternatives, in addition to the current baseline, i.e., the status quo. Use OMB Circular A-94 for all investments and the Clinger Cohen Act of 1996 for IT investments to determine the criteria you should use in your Benefit/Cost Analysis.

1. Did you conduct an alternatives analysis for this project? Yes
 - a. If "yes," provide the date the analysis was completed? 11/11/2005
 - b. If "no," what is the anticipated date this analysis will be completed?
 - c. If no analysis is planned, please briefly explain why:

Section B: Risk Management (All Capital Assets)

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

1. Does the investment have a Risk Management Plan? Yes
 - a. If "yes," what is the date of the plan? 5/15/2007
 - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
 - c. If "yes," describe any significant changes:

The Risk Management Plan will be rewritten under the new CLASS contract awarded in June 2008.

Note regarding EVM. The Earned Value data that follows is based on earned value data provided by the existing contractor based on performance on a series of bridge contracts that were put in place during the acquisition process. The rebaseline to be completed for the new contract will establish new milestones, budgeted cost, and schedule. The next CLASS OMB 300 EV data will be based on the new baseline.

2. If there currently is no plan, will a plan be developed?
 - a. If "yes," what is the planned completion date?
 - b. If "no," what is the strategy for managing the risks?

3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule:

CLASS applies a continuous risk management approach to identify, analyze and mitigate risks associated with operating and managing the program. The risk management process includes quantification of both risk event likelihood and cost/performance/schedule impact. The Configuration Control Board (CCB) has been established to minimize risk to the development and operational environment. Risks identified by government and/or contractor are evaluated by the Board. For developmental risks and operational programmatic risks, an assessment of the priority of the risk is provided by the originator and an assessment is evaluated by the management team. All risks are evaluated by the CCB. Risk mitigation plans are developed as required and become part of the ongoing prioritization activities that supports the operational environment as well as development environment.

A new multi-year CLASS contract was awarded in June 2008. An Initial Baseline Review (IBR) will be completed by February 2009. As part of the rebaseline process, risk management will be reviewed and a new Risk Management Plan for the new CLASS system will be written by the new contractor.

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

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748? Yes
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 CV or SV or both?

b. If "yes," explain the causes of the variance:

c. If "yes," describe the corrective actions:

3. Has the investment re-baselined during the past fiscal year? No

a. If "yes," when was it approved by the agency head?

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

| Milestone Number | Description of Milestone | Initial Baseline | | Current Baseline | | | | Current Baseline Variance | | Percent Complete |
|------------------|---|--------------------------------------|----------------------------|------------------------------|-----------|------------------|-------------|---------------------------|------------|------------------|
| | | Planned Completion Date (mm/dd/yyyy) | Total Cost (\$M) Estimated | Completion Date (mm/dd/yyyy) | | Total Cost (\$M) | | Schedule (# days) | Cost (\$M) | |
| | | | | Planned | Actual | Planned | Actual | | | |
| 1 | FY 2004 and Prior | 9/30/2004 | \$11.690000 | 9/30/2004 | 9/30/2004 | \$11.690000 | \$11.690000 | 0 | \$0.000000 | 100% |
| 2 | FY2005 CLASS | 9/30/2005 | \$13.600000 | 9/30/2005 | 9/30/2005 | \$13.600000 | \$13.600000 | 0 | \$0.000000 | 100% |
| 2.1 | DME FY05 CLASS | 9/30/2005 | \$11.058000 | 9/30/2005 | 9/30/2005 | \$11.058000 | \$11.058000 | 0 | \$0.000000 | 100% |
| 2.1.1 | DME FY05 Core CLASS Dev. | 9/30/2005 | \$4.791000 | 9/30/2005 | 9/30/2005 | \$4.791000 | \$4.791000 | 0 | \$0.000000 | 100% |
| 2.1.2 | DME FY05 CLASS Campaigns | 9/30/2005 | \$6.142000 | 9/30/2005 | 9/30/2005 | \$6.142000 | \$6.142000 | 0 | \$0.000000 | 100% |
| 2.1.3 | DME FY05 Metadata | 9/30/2005 | \$0.125000 | 9/30/2005 | 9/30/2005 | \$0.125000 | \$0.125000 | 0 | \$0.000000 | 100% |
| 2.2 | SS FY05 Operations & Maintenance | 9/30/2005 | \$2.542000 | 9/30/2005 | 9/30/2005 | \$2.542000 | \$2.542000 | 0 | \$0.000000 | 100% |
| 3 | FY06 CLASS | 9/30/2006 | \$15.802000 | 9/30/2006 | 9/30/2006 | \$14.391000 | \$14.391000 | 0 | \$0.000000 | 100% |
| 3.1 | DME FY06 CLASS | 9/30/2006 | \$12.514000 | 9/30/2006 | 9/30/2006 | \$11.328000 | \$11.328000 | 0 | \$0.000000 | 100% |
| 3.1.1 | Core Development | 9/30/2006 | \$3.075000 | 9/30/2006 | 9/30/2006 | \$6.230000 | \$6.230000 | 0 | \$0.000000 | 100% |
| 3.1.2 | Campaigns | 9/30/2006 | \$9.314000 | 9/30/2006 | 9/30/2006 | \$4.758000 | \$4.758000 | 0 | \$0.000000 | 100% |
| 3.1.3 | Metadata | 9/30/2006 | \$0.125000 | 9/30/2006 | 9/30/2006 | \$0.340000 | \$0.340000 | 0 | \$0.000000 | 100% |
| 3.2 | FY06 Operations & Maintenance | 9/30/2006 | \$3.288000 | 9/30/2006 | 9/30/2006 | \$3.063000 | \$3.063000 | 0 | \$0.000000 | 100% |
| 4 | FY07 CLASS | 9/30/2007 | \$8.901000 | 9/30/2007 | 9/30/2007 | \$8.901000 | \$8.901000 | 0 | \$0.000000 | 100% |
| 4.1 | DME CLASS | 9/30/2007 | \$6.435000 | 9/30/2007 | 9/30/2007 | \$6.435000 | \$6.435000 | 0 | \$0.000000 | 100% |
| 4.1.1 | Core Development | 9/30/2007 | \$2.833000 | 9/30/2007 | 9/30/2007 | \$2.833000 | \$2.833000 | 0 | \$0.000000 | 100% |
| 4.1.2 | Campaigns | 9/30/2007 | \$3.344000 | 9/30/2007 | 9/30/2007 | \$3.344000 | \$3.344000 | 0 | \$0.000000 | 100% |
| 4.1.3 | Metadata | 9/30/2007 | \$0.258000 | 9/30/2007 | 9/30/2007 | \$0.258000 | \$0.258000 | 0 | \$0.000000 | 100% |
| 4.2 | Operations & Maintenance | 9/30/2007 | \$2.466000 | 9/30/2007 | 9/30/2007 | \$2.466000 | \$2.466000 | 0 | \$0.000000 | 100% |
| 5 | FY08 CLASS | 9/30/2008 | \$8.780000 | 9/30/2008 | | \$8.780000 | \$8.077600 | | \$0.000000 | 92% |
| 5.1 | DME - Award Contract & Perform IBR | 3/31/2008 | \$1.141000 | 3/31/2008 | | \$1.141000 | \$1.049720 | | \$0.000000 | 92% |
| 5.2 | DME - Perform Contract-Awarded Activities | 9/30/2008 | \$4.566000 | 9/30/2008 | | \$4.566000 | \$4.200720 | | \$0.000000 | 92% |
| 5.3 | Operations & Maintenance | 9/30/2008 | \$3.073000 | 9/30/2008 | | \$3.073000 | \$2.827160 | | \$0.000000 | 92% |
| 6 | FY09 CLASS | 9/30/2009 | \$8.966000 | 9/30/2009 | | \$8.966000 | | | | 0% |
| 6.1 | DME - Perform Contract-Awarded Activities | 9/30/2009 | \$5.828000 | 9/30/2009 | | \$5.828000 | | | | 0% |

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

| Milestone Number | Description of Milestone | Initial Baseline | | Current Baseline | | | | Current Baseline Variance | | Percent Complete |
|------------------|---|--------------------------------------|----------------------------|------------------------------|--------|------------------|--------|---------------------------|------------|------------------|
| | | Planned Completion Date (mm/dd/yyyy) | Total Cost (\$M) Estimated | Completion Date (mm/dd/yyyy) | | Total Cost (\$M) | | Schedule (# days) | Cost (\$M) | |
| | | | | Planned | Actual | Planned | Actual | | | |
| 6.2 | Operations & Maintenance | 9/30/2009 | \$3.138000 | 9/30/2009 | | \$3.138000 | | | | 0% |
| 7 | FY10 CLASS | 9/30/2010 | \$8.966000 | 9/30/2010 | | \$8.966000 | | | | 0% |
| 7.1 | DME - Perform Contract-Awarded Activities | 9/30/2010 | \$5.740000 | 9/30/2010 | | \$5.740000 | | | | 0% |
| 7.2 | Operations & Maintenance | 9/30/2010 | \$3.226000 | 9/30/2010 | | \$3.226000 | | | | |