

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: National Oceanic And Atmospheric Administration

4. Name of this Capital Asset: NOAA/NESDIS CS/ NOAA National Data Centers (NNDC)

5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-13-01-3209-00

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.) Operations and Maintenance

7. What was the first budget year this investment was submitted to OMB? FY2002

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:

NOAA is the Federal Agency with statutory responsibility for long-term archive management of the Nation's collection of environmental data and information. NOAA's Data Centers are responsible for the perpetual stewardship, archiving, and dissemination of climatological and environmental data. Today there are significant demands on the NNDC to provide information to the Nation and the World community. NNDC data and information products are available as part of a national decision support system for the purpose of saving lives and protecting property and enhancing the economic prosperity and quality of life in the United States. All of NNDC's strategic objectives are dependent upon the use of extended environmental and climatological data and information periods of record. There is continued improvement and economic benefit to our Nation obtained from continued access to the rapidly increasing volume of historical data.

The NNDC consist of three primary data centers: the National Climatic Data Center (NCDC) located in Asheville, NC, which is responsible for all climatological data and manages the Climate Database Modernization Program (CDMP). The National Geophysical Data Center (NGDC) located in Boulder, CO is responsible for all geophysical data. The National Oceanographic Data Center (NODC) located in Silver Spring, MD is responsible for all oceanographic data the NOAA Central Library, and administers the Coastal Data Development Center (NCDDC) in Bay St. Louis, MS.

Across the NOAA data centers there is a need to be able to integrate data from various observing systems. There is also a need for data at common space and time scales to be stored and accessible in formats that can be easily interchanged. This data also needs to be available and useful for visual form and is required to effectively manage and plan for extreme events. The NNDC works to close these gaps by allowing the Nation to be better prepared to mitigate the effects of climate and weather extremes that are amplified by changes in population.

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

a. If "yes," what was the date of this approval? 6/11/2007

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? Senior/Expert/DAWIA-Level 3

b. When was the Program/Project Manager Assigned? 3/1/2004

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? 9/11/2008

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 NNDC supports the nation's ability to access environmental data; Achieved through systems modernization which ensures performance, compatibility, supportability, & maintainability of the data. As a benefit of the integrated solution to data access NNDC provides easy access for the Nation to obtain environmental data from many sources and integrate this data. The NNDC includes joint work with industry, multiple agencies, & State, local governments. NNDC is the managing partner.
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? 10002050 - National Oceanic and Atmospheric Administration: Climate Program
- 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 FFMI 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 | 4 |
| Software | 1 |
| Services | 55 |
| Other | 40 |
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?

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: | 0 | 0 | 0 | 0 | | | | | |
| Acquisition: | 0 | 0 | 0 | 0 | | | | | |
| Subtotal Planning & Acquisition: | 0 | 0 | 0 | 0 | | | | | |
| Operations & Maintenance: | 174.166 | 53.107 | 29.608 | 36.608 | | | | | |
| TOTAL: | 174.166 | 53.107 | 29.608 | 36.608 | | | | | |
| Government FTE Costs should not be included in the amounts provided above. | | | | | | | | | |
| Government FTE Costs | 63.411 | 24.051 | 24.051 | 24.051 | | | | | |
| Number of FTE represented by Costs: | 498 | 166 | 166 | 166 | | | | | |

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?

The National Coastal Data Development Center continues to develop core capabilities and resources as the newest data center. The NCDDC is projecting 5 additional FTEs. NCDDC is a small growing center with the need for additional personnel to support growing role in data management. FY-08 add 5 additional billets

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) |
| 4TCP13053367 | Labor Hours | Yes | 10/1/2004 | 10/1/2004 | 9/30/2009 | 1.543 | No | Yes | Yes | NA | No | Yes | | karen.ziemb a@gsa.gov | Level 3 | |
| 4TCG13055308 | Labor Hours | Yes | 4/12/2005 | 5/2/2006 | 5/1/2009 | 4.305 | No | Yes | Yes | NA | No | Yes | | karen.ziemb a@gsa.gov | Level 3 | |
| 4TCL13055307 | Labor Hours | Yes | 4/1/2005 | 4/18/2005 | 4/17/2010 | 5.676 | No | Yes | Yes | NA | No | Yes | | karen.ziemb a@gsa.gov | Level 3 | |
| EA133E-06-NC-0503 | Time & Materials | Yes | 3/1/2006 | 3/1/2006 | 2/28/2011 | 25 | No | Yes | Yes | NA | No | Yes | | marion.vebe r@noaa.gov | Level 3 | |
| EA133E-06-NC-0660 | Time & Materials | Yes | 3/1/2006 | 3/1/2006 | 2/28/2011 | 21.855 | No | Yes | Yes | NA | No | Yes | | marion.vebe r@noaa.gov | Level 3 | |
| EA133E-06-NC-0654 | Time & Materials | Yes | 3/1/2006 | 3/1/2006 | 2/28/2011 | 30.901 | No | Yes | Yes | NA | No | Yes | | marion.vebe r@noaa.gov | Level 3 | |
| EA133E-06-BR-0019 | BPA | Yes | 2/1/2006 | 3/1/2006 | 2/28/2011 | 31.122 | No | Yes | Yes | NA | No | Yes | | marion.vebe r@noaa.gov | Level 3 | |
| 4TAP13060193 | Labor Hours | Yes | 9/29/2006 | 9/29/2006 | 9/28/2011 | 11.736 | Yes | Yes | Yes | NA | No | Yes | | karen.ziemb a@gsa.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:

These are mission support contracts for steady state systems.

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 Assessability 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? 5/1/2008

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 | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data added to the archive by terabytes. | 1.3 TBs | Increase archive to 4 terabytes. | 9.9 TBs |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data delivered online by TBs. | 7.6 TB | Increase by 3.1 TBs | 10.7 |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - Increase volume of data ingested yearly and placed in archived. | 44 TBs | 55 TBs | 61 TBs |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - Volume of data and information delivered online to customers. Unit of measure will be TBs. | 25 TBs | 42 TBs | 41 TBs |
| 2006 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NCDC - Orders filled per FTE | Currently 1600 are typically filled per FTE | Improvement to 1700 orders filled per FTE | 1700 per FTE |

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NNDC) (Revision 2)

| Performance Information Table | | | | | | | | |
|-------------------------------|--|------------------------------|--------------------------|--|---|--|--|--|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | environmental needs. | | | | | | | |
| 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 | Number of Regional Ecosystems portals sustained (NCDDC) | 0 | 1 | 1 |
| 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 | Productivity | Efficiency | NCDC - Insitu data retrieved via the web. Unit of measure is terabytes. | .6 TB of information available currently on web. | .4 TB increase of information to be available through the web. | 1 TB |
| 2006 | 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 | Number of Metadata Catalogs classified and accessed for portal (NCDDC) | 0 | 1 | 1 |
| 2006 | 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 | Number of Ecosystem programs/components/observing systems supported with web applications (web) NCDDC | 9 | Increase by 1 | 10 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | Amount of data available online at NCDC. | 1.5 Petabytes | Increase of .7 petabytes to a total of 2.2 petabytes. | 2 petabytes for FY07 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | Volume of data ingested yearly and placed in the NGDC archive. | 73 TBs | Increase to 92 TBs | 115 TBs for FY07 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NCDC - Orders filled per FTE | 1700 orders filled per FTE | Improvement to 1750 orders filled per FTE | 1910 orders were filled per FTE for FY07 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - volume of data and information delivered online to customers | 41 TBs | Increase 20% to 50 TBs | 62 TBs for FY07 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data added to the archive by terabytes. | 9.9 TBs | Increase Archive by 20% | 30.4 TBs for FY07 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data delivered online in TBs | 10.7 TBs | Increase archive to 4 terabytes. | 14.2 TBs for FY07 |
| 2007 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Number of Regional Ecosystems portals sustained (NCDDC) | 1 | 2 portals sustained | 2 |
| 2007 | 3.1 Advance understanding and predict changes in the Earth's environment | Processes and Activities | Productivity | Efficiency | NCDC - Total data retrieved via the web. Unit of measure | 150 Terabytes | Add 20 additional TB to 170 TB total | 315 Terabytes were delivered in FY07 |

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NNDCC) (Revision 2)

| Performance Information Table | | | | | | | | |
|-------------------------------|--|------------------------------|--------------------------|--|---|---------------------|---|--------------------------------------|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | to meet America's economic, social, and environmental needs. | | | | is terabytes. | | | |
| 2007 | 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 | Number of Metadata Catalogs classified and accessed for portal (NCDDC) | 1 | 3 | 5 |
| 2007 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Technology | Information and Data | External Data Sharing | Number of Ecosystem programs/components/observing systems supported with web applications (web) NCDDC | 10 | 2 | 13 |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NCDC - Data and Information retrieved via the web. Unit of measure is terabytes. | 200 TBs | Increase by 10% | FY083Q is 240 TBs |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - Increase volume of data ingested yearly and placed in archive. Units of measure, TB/yr | 18 TB/yr | 20 TB/yr | 49 TB/yr |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NCDC - Orders filled per FTE | 1910 orders per FTE | Improvement to 2500 orders filled per FTE | For FY08Q3 994 orders filled |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data added to the archive by terabytes. | 30.4 TBs | Increase Archive by 20% | FY083Q total archive now 52TBs |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data delivered online in TBs | 14.2 TBs | Increase Archive by 20% | FY083Q total is 11.376 TBs delivered |
| 2008 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | Increase number of compliant FGDC records by NODC | 53455 | 63000 | 8816 new records added by FY083Q |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - volume of data and information delivered online to customers. Unit of measure will be TB/yr | 62 TB/yr | 68 TB/yr | 82 TB/yr |
| 2008 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Number of Regional Ecosystems Portals sustained (NCDDC) | 1 | 2 | FY08Q3 - 1 new portal |
| 2008 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Processes and Activities | Productivity | Efficiency | NCDC - Data Available Online | 1.5 Petabytes | .7 Petabytes | FY08Q3 .2 additional Petabytes |
| 2008 | 3.2 Enhance the | Technology | Effectiveness | IT Contribution | Number of | 10 | 25 | FY08Q3 11 new |

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NND) (Revision 2)

| Performance Information Table | | | | | | | | |
|-------------------------------|--|------------------------------|--------------------------|--|--|---------------------------|---------------------------------------|---|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | | | to Process, Customer, or Mission | Ecosystem programs/components/observing systems supported with web applications (web) NCDDC | | | programs for a total of 25 |
| 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 | Metadata Catalogs classified and accessed for portal (NCDDC) | 2 | 8 | FY08Q3 - 3 new catalogs |
| 2008 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Technology | Information and Data | External Data Sharing | Number of Regional Ecosystems portals sustained (NCDDC) | 2 | 2 | FY08Q3 - 1 new catalogs |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NCDC - Orders filled per FTE | 2500 | Orders per FTE increase by 25 to 2525 | 1300 FY09Q2 |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - volume of data and information delivered online to customers. Unit of measure will be TB/yr | 82 TB/yr | 90 TB/yr | 55 TB 10/01/08 - 02/29/09 |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - Increase volume of data ingested yearly and placed in units archive. Units of measure TB/yr | 49 TB/yr | 53 TB/yr | 23.3 TB 10/01/08 - 02/28/09 |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase of volume of data added to the archive in TBs | 47.7 TBs | Increase archive by 25% | 10/1/08 - 2/28/09 54.8 TBs |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC - Increase volume of data delivered online on TBs | 15.5 TBs online delivered | Increase data delivered online 50 % | 10/1/08 - 2/28/09 data delivered online is 25.3 TBs |
| 2009 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NODC increase number of Metadata records in archive | 65,166 records | Increase by 15% | 10/1/08 - 2/28/09 70,721 archived records |
| 2009 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Number of Regional Ecosystems Portals sustained (NCDDC) | 2 | 2 | 1 |
| 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 | Productivity | Efficiency | NCDC - total data delivered online | 338 TB | 600 TBs | 87.2 TB 10/1/08 - 2/1/09 |
| 2009 | 3.1 Advance understanding and predict changes in the Earth's environment | Technology | Information and Data | External Data Sharing | Metadata Catalogs classified and accessed for | 5 | 2 | No change |

| Performance Information Table | | | | | | | | |
|-------------------------------|--|------------------------------|--------------------------|--|--|----------|----------|----------------|
| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Category | Measurement Grouping | Measurement Indicator | Baseline | Target | Actual Results |
| | to meet America's economic, social, and environmental needs. | | | | portal (NCDDC) | | | |
| 2009 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Technology | Information and Data | External Data Sharing | NCDDC - Number of web applications supporting Ecosystem programs/components/observing systems | 0 | 10 | 7 for FY09Q2 |
| 2010 | 3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs. | Customer Results | Customer Benefit | Customer Satisfaction | NGDC - Increase volume of data ingested yearly and placed in archive. Units of measure TB/yr | 53 TB/yr | 59 TB/yr | 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 | Customer Benefit | Customer Satisfaction | NGDC - volume of data and information delivered online to customers. Unit of measure will be TB/yr | 90 TB/yr | 99 TB/yr | TBD |
| 2010 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Mission and Business Results | Environmental Management | Environmental Monitoring and Forecasting | Number of Regional Ecosystems Portals sustained (NCDDC) | 2 | 2 | TBD |
| 2010 | 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 | Metadata Catalogs classified and accessed for portal (NCDDC) | 7 | 1 | TBD |
| 2010 | 3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs. | Technology | Information and Data | External Data Sharing | NCDDC - Number of web applications supporting Ecosystem programs/components/observing systems | 11 | 1 | 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 |
| National Climatic Data Center Local Area Network | No | Yes | http://www.cio.noaa.gov/itmanagement/PIA_NeS-NCDC_071508.pdf | Yes | http://www.corporateservices.noaa.gov/~foia/asd/home/sysofrec/dept2.html |
| Ocean Data Archive System (National Oceanographic Data Center) | No | No | This system does not contain or process PII | No | No because the system is not a Privacy Act system of records. |
| Data Archive Management and User System-Boulder CO | No | No | This system does not contain or process PII. | No | No because the system is not a Privacy Act system of records. |
| National Coastal Data Development Center LAN | No | No | The draft PIA is under review at DOC. | Yes | http://www.corporateservices.noaa.gov/~foia/asd/home/sysofrec/dept2.html |

Details for Text Options:

Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system(s) 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 | This process includes the acquisition, quality control, metadata cataloging, validation, reprocessing, storage, retrieval, dissemination, and archival of data. As it relates to COA: An integrated end-to-end system data management. | Back Office Services | Data Management | Data Warehouse | | | No Reuse | 10 |
| CL-COA Data Stewardship | The process includes the acquisition, quality control metadata cataloging, validation reprocessing, storage, retrieval, dissemination, and archival of data. As it relates to COA: An integrated end-to-end system data management. | Back Office Services | Data Management | Meta Data Management | Data Warehouse | | No Reuse | 15 |
| CL-COA Analysis of the Climate System | A high-quality, long-term global climate information system is essential to providing products that | Customer Services | Customer Preferences | Subscriptions | Ordering / Purchasing | | No Reuse | 20 |

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NNDC) (Revision 2)

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) |
|---------------------------------------|---|------------------------|----------------------|------------------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------|
| | support sound decision-making, resource management and a diverse array of applications. Two essential components are the construction of analyzed climate data sets obtained by synthesizing diverse data sources together within state-of-the-art climate models, and the expert interpretation of causes of past and current climate variations using modern climate diagnostic techniques. | | | | | | | |
| CL-COA Analysis of the Climate System | A high-quality, long-term global climate information system is essential to providing products that support sound decision-making, resource management and a diverse array of applications. Two essential components are the construction of analyzed climate data sets obtained by synthesizing diverse data sources together within state-of-the-art climate models, and the expert interpretation of causes of past and current climate variations using modern climate diagnostic techniques. | Digital Asset Services | Records Management | Record Linking / Association | | | No Reuse | 15 |

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%.

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NNDC) (Revision 2)

| 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) |
| Record Linking / Association | Component Framework | Data Management | Database Connectivity | Uniform Resource Locator (URL) |
| Meta Data Management | Service Access and Delivery | Access Channels | Collaboration / Communications | Federal Geographic Data Committee |
| Subscriptions | Service Access and Delivery | Access Channels | Web Browser | Example: IE, NETSCAPE, Firefox |
| Data Warehouse | Service Platform and Infrastructure | Database / Storage | Database | ORACLE, INFORMIX |

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)? Yes

a. If "yes," please describe.

The NESDIS e-commerce System (NeS) a component of the National Virtual Data System (NVDS) is one of the investments of the NNDC and uses Pay.Gov for collections and reporting. Also, Data Center products and information is available by searching FirstGov.gov.

Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)**Section A: Risk Management (All Capital Assets)**

Part III should be completed only for investments identified as "Operation and Maintenance" (Steady State) in response to Question 6 in Part I, Section A above.

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? 7/18/2005
 - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
 - c. If "yes," describe any significant changes:

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?

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

1. Was an operational analysis conducted? Yes
 - a. If "yes," provide the date the analysis was completed. 2/22/2009
 - b. If "yes," what were the results?

The NNDC OA reported that financial performance was consistent with the data centers operating within approved and available budgets. The four NOAA Data Centers reported minimal variance for budgeted cost versus actual cost. In reference to customer results, the NOAA National Data Centers are meeting the customer's needs and delivering services intended. The value of these Centers has been well documented in the NOAA's National Environmental Satellite, Data and Information Service: Economic Value for the Nation, dated September 2001. The document states "NESDIS data and services contribute to an estimated annual cost savings of greater than \$6 billion in key industries". The NNDC program met established cost, schedule, and performance parameters. Performance measure goals were exceeded in areas such as data delivered online, records keyed, and new products made available to the customer.

There are no alternative sources in the public or private sector that can perform the functions of the NNDC. NNDC supports many types of NOAA customers and products in addition to the core mission of ingest and archive of climate, geophysical, and oceanographic data. NNDC projects and systems continue to exceed their goals and objectives in the number of products produced and data made available on-line.

The NNDC impacts all economic sectors of the nation and is instrumental in the preserving of long-term data records of environmental conditions. Customers include insurance and energy companies, engineers, community planners, public safety providers, farmers, lawyers, and the general public. The nation is a stakeholder; other customers include federal agencies, National Aeronautics and Space Administration (NASA), state and local governments, and students from all levels of academia. The NNDC program is fully meeting the customers' needs and the data centers are delivering the data, services, and products as outlined in the NOAA and NESDIS operational plans. The value of these centers has been well documented and mandates a continued need for this investment. The cost to the customer is as low as it could be for the results delivered. There are no alternative sources in the public or private sector that can perform the functions of the NNDC. The NNDC program continues to provide its global customers with on-line data free of charge and data products by phone call and written request.

- c. If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future:

2. Complete the following table to compare actual cost performance against the planned cost performance baseline. Milestones reported may include specific individual scheduled preventative and predictable corrective maintenance activities, or may be the total of planned annual operation and maintenance efforts).

- a. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)? Contractor and Government

Exhibit 300: NOAA/NESDIS CS/ NOAA National Data Centers (NNDC) (Revision 2)

| 2.b Comparison of Plan vs. Actual Performance Table | | | | | | | |
|---|--|------------------------------|-----------------|------------------------------|-----------------|-------------------|-------------|
| Milestone Number | Description of Milestone | Planned | | Actual | | Variance | |
| | | Completion Date (mm/dd/yyyy) | Total Cost(\$M) | Completion Date (mm/dd/yyyy) | Total Cost(\$M) | Schedule (# days) | Cost(\$M) |
| 1.0 | FY02 NNDC Enhancements and Maintenance | 9/30/2002 | \$17.210000 | 9/30/2002 | \$17.210000 | 0 | \$0.000000 |
| 2.0 | FY03 NNDC Enhancements and Maintenance | 9/30/2003 | \$20.143000 | 9/30/2003 | \$20.143000 | 0 | \$0.000000 |
| 3.0 | FY04 NNDC Enhancements and Maintenance | 9/30/2004 | \$21.380000 | 9/30/2004 | \$21.380000 | 0 | \$0.000000 |
| 4.0 | FY05 NNDC Enhancements and Maintenance | 9/30/2005 | \$35.826000 | 9/30/2005 | \$35.846000 | 0 | -\$0.020000 |
| 4.1 | Equipment | 9/30/2005 | \$1.680000 | 9/30/2005 | \$1.700000 | 0 | -\$0.020000 |
| 4.2 | Software | 9/30/2005 | \$0.400000 | 9/30/2005 | \$0.400000 | 0 | \$0.000000 |
| 4.3 | Telecommunications | 9/30/2005 | \$0.428000 | 9/30/2005 | \$0.428000 | 0 | \$0.000000 |
| 4.4 | Support Services | 9/30/2005 | \$15.692000 | 9/30/2005 | \$15.692000 | 0 | \$0.000000 |
| 4.5 | Supplies | 9/30/2005 | \$0.217000 | 9/30/2005 | \$0.217000 | 0 | \$0.000000 |
| 4.6 | Personnel | 9/30/2005 | \$17.409000 | 9/30/2005 | \$17.409000 | 0 | \$0.000000 |
| 5.0 | FY06 NNDC Enhancements and Maintenance | 9/30/2006 | \$70.968000 | 9/30/2006 | \$70.968000 | 0 | \$0.000000 |
| 5.1 | Equipment | 9/30/2006 | \$1.395000 | 9/30/2006 | \$1.395000 | 0 | \$0.000000 |
| 5.2 | Software | 9/30/2006 | \$0.400000 | 9/30/2006 | \$0.400000 | 0 | \$0.000000 |
| 5.3 | Telecommunications | 9/30/2006 | \$0.400000 | 9/30/2006 | \$0.400000 | 0 | \$0.000000 |
| 5.4 | Support Services | 9/30/2006 | \$45.922000 | 9/30/2006 | \$45.922000 | 0 | \$0.000000 |
| 5.5 | Supplies | 9/30/2006 | \$0.200000 | 9/30/2006 | \$0.200000 | 0 | \$0.000000 |
| 5.6 | Personnel | 9/30/2006 | \$22.651000 | 9/30/2006 | \$22.651000 | 0 | \$0.000000 |
| 6.0 | FY07 NNDC Enhancements and Maintenance | 9/30/2007 | \$72.050000 | 9/30/2007 | \$71.927000 | 0 | \$0.123000 |
| 6.1 | Equipment | 9/30/2007 | \$1.500000 | 9/30/2007 | \$1.500000 | 0 | \$0.000000 |
| 6.2 | Software | 9/30/2007 | \$0.600000 | 9/30/2007 | \$0.600000 | 0 | \$0.000000 |
| 6.3 | Telecommunications | 9/30/2007 | \$0.400000 | 9/30/2007 | \$0.400000 | 0 | \$0.000000 |
| 6.4 | Support Services | 9/30/2007 | \$45.999000 | 9/30/2007 | \$45.876000 | 0 | \$0.123000 |
| 6.5 | Supplies | 9/30/2007 | \$0.200000 | 9/30/2007 | \$0.200000 | 0 | \$0.000000 |
| 6.6 | Personnel | 9/30/2007 | \$23.351000 | 9/30/2007 | \$23.351000 | 0 | \$0.000000 |
| 7.0 | FY08 NNDC Enhancements and Maintenance | 9/30/2008 | \$77.158000 | 9/30/2008 | \$77.158000 | 0 | \$0.000000 |
| 7.1 | Equipment | 9/30/2008 | \$1.584000 | 6/30/2008 | \$1.584000 | 92 | \$0.000000 |
| 7.2 | Software | 9/30/2008 | \$0.428000 | 6/30/2008 | \$0.428000 | 92 | \$0.000000 |
| 7.3 | Telecommunications | 9/30/2008 | \$0.530000 | 9/30/2008 | \$0.530000 | 0 | \$0.000000 |

2.b Comparison of Plan vs. Actual Performance Table

| Milestone Number | Description of Milestone | Planned | | Actual | | Variance | |
|------------------|--|------------------------------|-----------------|------------------------------|-----------------|-------------------|-------------|
| | | Completion Date (mm/dd/yyyy) | Total Cost(\$M) | Completion Date (mm/dd/yyyy) | Total Cost(\$M) | Schedule (# days) | Cost(\$M) |
| 7.4 | Support Services | 9/30/2008 | \$50.365000 | 9/30/2008 | \$50.365000 | 0 | \$0.000000 |
| 7.5 | Supplies | 9/30/2008 | \$0.200000 | 6/30/2008 | \$0.200000 | 92 | \$0.000000 |
| 7.6 | Personnel | 9/30/2008 | \$24.051000 | 9/30/2008 | \$24.051000 | 0 | \$0.000000 |
| 8.0 | FY09 NNDC Enhancements and Maintenance | 9/30/2009 | \$53.659000 | | \$0.000000 | | \$53.659000 |
| 8.1 | Equipment | 9/30/2009 | \$1.700000 | | \$0.000000 | | \$1.700000 |
| 8.2 | Software | 9/30/2009 | \$0.400000 | | \$0.000000 | | \$0.400000 |
| 8.3 | Telecommunications | 9/30/2009 | \$0.450000 | | \$0.000000 | | \$0.450000 |
| 8.4 | Support Services | 9/30/2009 | \$26.808000 | | \$0.000000 | | \$26.808000 |
| 8.5 | Supplies | 9/30/2009 | \$0.250000 | | \$0.000000 | | \$0.250000 |
| 8.6 | Personnel | 9/30/2009 | \$24.051000 | | \$0.000000 | | \$24.051000 |
| 9.0 | FY10 NNDC Enhancements and Maintenance | 9/30/2010 | \$60.659000 | | \$0.000000 | | \$60.659000 |
| 9.1 | Equipment | 9/30/2010 | \$2.655000 | | \$0.000000 | | \$2.655000 |
| 9.2 | Software | 9/30/2010 | \$0.630000 | | \$0.000000 | | \$0.630000 |
| 9.3 | Telecommunications | 9/30/2010 | \$0.450000 | | \$0.000000 | | \$0.450000 |
| 9.4 | Support Services | 9/30/2010 | \$32.623000 | | \$0.000000 | | \$32.623000 |
| 9.5 | Supplies | 9/30/2010 | \$0.250000 | | \$0.000000 | | \$0.250000 |
| 9.6 | Personnel | 9/30/2010 | \$24.051000 | | \$0.000000 | | \$24.051000 |