

**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 (Nws)
4. Name of this Capital Asset: NOAA/NWS/ NCEP Weather and Climate Operational Supercomputer Systems (WCOSS Primary and Backup)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-17-01-3104-00
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? 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:

Legislative mandate requires that NOAA provide environmental monitoring, assessment, and prediction services in order to perform its core mission to protect life and property by ensuring an uninterrupted flow of critical forecast products. The investment serves this objective by ensuring the continued generation of NWS/NCEP products from operational forecast models. This investment is composed of primary and back-up operational supercomputing systems which perform a wide range of computational tasks including the execution of complicated prediction models, data assimilation, data analysis, and product generation. IT capital investment is composed of supercomputer infrastructure that includes the main processors, storage devices and interconnects, communications hardware interfaces, software, networking equipment, system maintenance, support services, and necessary infrastructure enhancements. The systems meet the guidelines established by Presidential Decision Directive (PDD)-67, Enduring Constitutional Government, Continuity of Government, and Continuity of Operations as an essential resource of the U.S. Government. This investment generates products that are use to issue public weather and climate guidance continuously, 24X7X365. Specific functions of this investment include (1)support meteorological research projects, including the JCSDA projects and proposed National Test Bed for mesoscale and global numerical forecast systems;(2)support a range of operational forecast products and services such as thunderstorms to global circulation patterns and on temporal scales from minutes to multiple seasons;(3)provide for computational resources to support use of the existing WRF model to support the NOAA-NIST Fire Weather Predictions of fire spread at the Wildland-Urban Interface; (4)allows for computational activities to help define the core software for data assimilation and forecasting models of the next decade;(5) provides weather and climate modeling capabilities for implementation of an operational suite of climate and weather forecasts;(6)comprise a supercomputing environment for the development and execution of weather and climate forecasting functions critical to the Nation's safety and economic security.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
  - a. If "yes," what was the date of this approval? 5/23/2006
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? 1/1/2008
  - c. What date did the Program/Project Manager receive the FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification? 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

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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:	Competitive Sourcing Expanded E-Government Budget Performance Integration Human Capital
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?)	Products from this investment are accessible on the Internet. Activities are performed by a mix of contract and Federal employees. Project personnel are motivated by the opportunity to work with some of the most powerful supercomputing capabilities in the world, and by the role they play in advancing the mission of NOAA. Performance measures are linked to outcomes that impact the public such as improved hurricane and maritime forecasts and system performance metrics are used to monitor vendor.
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit <a href="http://www.whitehouse.gov/omb/part">www.whitehouse.gov/omb/part</a> .)	No
a. If "yes," does this investment address a weakness found during a PART review?	No
b. If "yes," what is the name of the PARTed program?	10003104 - National Oceanic and Atmospheric Administration: Weather and Related Programs
c. If "yes," what rating did the PART receive?	
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	0
Software	0
Services	92

- Other 8
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:	0	0	0	0					
Acquisition:	0	0	0	0					
Subtotal Planning & Acquisition:	0	0	0	0					
Operations & Maintenance:	155.835	20.346	20.346	20.346					
TOTAL:	155.835	20.346	20.346	20.346					
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
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: For FY07, the summary of spending plan has changed to reflect a change in NOAA policy regarding FTEs. No project requirements were changed. Rather this change is associated with a change in the budget tables regarding FTEs whose primary function is scientific support. These FTEs were removed from the WCOSS budget table under NOAA guidance.
- For FY08, the \$5.8M per annum that NCEP pays for its use of the R&D HPC resources was taken out of this investment and called out in the R&D HPC Exhibit 300. For FY08, NCEP actually paid \$5.2M for its use of the R&D HPC. (note)
- For FY08, OAR Air Quality program had provided \$2.525M (from ORF) to support their air quality model forecasting on the operational HPC. They provided \$2.525M for FY09 (thru ORF) and plan on providing \$2.85M for FY10. This funding has been called out in AQ National Air Quality Forecast Capability Exhibit 300 006-48-01-12-01-3012-00. Air Quality program is asking for \$7.0M per annum (FY11-15) (thru ORF) for continued processing support and expanding their forecasting capabilities dependent on the operational HPC. (note)
- NWS is asking for \$1.2M per annum to support the development and operations of Digital Services: Analysis of Record/Verification of National Digital Forecast Database for FY11-14. (note)
- NWS is requesting \$0.5M (FY10) to support the Aviation 4-dimensional weather cube for NEXTGEN (Aviation Wx-NEXTGEN) (note)

**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)
IBM DG133W02C N0013	Firm Fixed Price, Performance Based	Yes	8/1/2005	8/1/2005	9/30/2012	191.595	No	Yes	Yes	NA	No	Yes		william.voitk@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:

This contract is an operating lease within this steady state investment. As such, EVM is not required for the contract.

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why not or how this is being done? In compliance with Department of Commerce and NOAA contracting policy Section 508 compliance language was included in the SOW for this investment. The following Section 508 electronic and IT technical standards are expected to apply to the desktop workstations and web-based user interfaces covered under this investment: 1194.21, Software applications and operating systems; 1194.22, Web-based intranet and Internet information applications; and 1194.26, desktop and portable computers.

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? 10/27/2004

1. Is it Current?

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](http://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
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	1-day Precipitation Forecast threat score: the forecast accuracy of this score is critical for flood and snowfall planning purposes as well as for agricultural planning	29	Increase forecast accuracy to a score of 29	33
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	Seasonal Heidke Temperature skill score: a categorical climatology skill score that measures the improvement in accuracy over the reference forecast	19	Improve skill score to 19	26
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	48-Hour Hurricane Tracking Forecast: this is a critical forecast that gauges the accuracy of the	Track error of 142 nautical miles	Improve track error to 109 nautical miles	88

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	economic, social, and environmental needs.				hurricane storm track over a 2-day period and is used by the public and emergency management agencies for evacuation and planning purposes			
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	48 hour intensity error (Atlantic, knots) This measurement gauges the accuracy of the severity of the storm. The forecast is used by the emergency managers for planning their response to the storm.	14	14	13.9
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	Cycle Time and Resource Time	Timeliness	On-time generation of forecast products: measures the percentage of the time that weather and climate forecasts produced as scheduled, to be available to the weather and climate community	99.66%	Improve to 99.92%	TBD
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Reliability and Availability	Availability	Supercomputing System Availability: : a critical measure of the uptime for the supercomputer assets used to run and generate the climate and weather forecasting models	99.0%	Maintain 99.0% availability	99.5%
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Reliability and Availability	Reliability	Automatic Switch-over time to backup system: in an event of a failure of the primary computer this is a business continuity testing measure that gauges the amount of time necessary to revert all operational forecasts over to the back up supercomputer	30 minute cut-over to full operational backup	Maintain 30 minute cut-over	19
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental	Customer Results	Service Quality	Accuracy of Service or Product Delivered	1-day Precipitation Forecast threat score: the forecast accuracy of this score is critical for flood and snowfall planning	29	Increase forecast accuracy to a score of 29	TBD

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	needs.				purposes as well as for agricultural planning			
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	Seasonal Heidke Temperature skill score: a categorical climatology skill score that measures the improvement in accuracy over the reference forecast	19	Improve skill score to 20	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	48-Hour Hurricane Tracking Forecast: this is a critical forecast that gauges the accuracy of the hurricane storm track over a 2-day period and is used by the public and emergency management agencies for evacuation and planning purposes	Track error of 142 nautical miles	Improve track error to 108 nautical miles	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	48 hour intensity error (Atlantic,knots) This measurement gauges the accuracy of the severity of the storm. The forecast is used by the emergency managers for planning their response to the storm.	14	13	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	Cycle Time and Resource Time	Timeliness	On-time generation of forecast products: measures the percentage of the time that weather and climate forecasts produced as scheduled, to be available to the weather and climate community	99.66%	Improve to 99.92%	TBD
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Reliability and Availability	Availability	Supercomputing System Availability: a critical measure of the uptime for the supercomputer assets used to run and generate the climate and weather forecasting models	99.0%	Maintain 99.0% availability	TBD
2009	3.1 Advance understanding and predict changes in the Earth's environment to	Technology	Reliability and Availability	Reliability	Automatic Switch-over time to backup system: in an event of a failure of the primary	30 minute cut-over to full operational backup	Maintain 30 minute cut-over	TBD

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	meet America's economic, social, and environmental needs.				computer this is a business continuity testing measure that gauges the amount of time necessary to revert all operational forecasts over to the back up supercomputer			
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	1-day Precipitation Forecast threat score: the forecast accuracy of this score is critical for flood and snowfall planning purposes as well as for agricultural planning	29	Increase forecast accuracy to a score of 30	
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	Seasonal Heidke Temperature skill score: a categorical climatology skill score that measures the improvement in accuracy over the reference forecast.	19	achieve skill score at 24	
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	48-Hour Hurricane Tracking Forecast: this is a critical forecast that gauges the accuracy of the hurricane storm track over a 2-day period and is used by the public and emergency management agencies for evacuation and planning purposes.	Track error of 142 nautical miles	Improve track error to 107 nautical miles	
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	48 hour intensity error (Atlantic,knots) This measurement gauges the accuracy of the severity of the storm. The forecast is used by the emergency managers for planning their response to the storm.	14	13	TBD
2010	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Cycle Time and Timeliness	Timeliness	On-time generation of forecast products: measures the percentage of the time that weather and climate forecasts produced as scheduled, to be available to the weather and	99.66%	Improve to 99.92%	TBD

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					climate community			
2010	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Reliability and Availability	Availability	Supercomputing System Availability: a critical measure of the uptime for the supercomputer assets used to run and generate the climate and weather forecasting models.	99.48%	Maintain 99.0% availability	
2010	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Reliability and Availability	Reliability	Automatic Switch-over time to backup system: in an event of a failure of the primary computer this is a business continuity testing measure that gauges the amount of time necessary to revert all operational forecasts over to the back up supercomputer	28.2 minute cut-over to full operational backup	Maintain 30 minute cut-over	

**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
NOAA Central Computer System	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	No because the system is not a 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 Weather and Water, Operational Supercomputer System

the Transition Strategy provided in the agency's most recent annual EA Assessment.

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-CPP-OFA Operational Forecasts and Assessments	To produce operational intraseasonal, seasonal, interannual, and decadal climate outlooks (including uncertainties), and credible national and international assessments using models and climate monitoring data sets for the ocean, atmosphere and land. Improve and enhance operational climate products.	Business Analytical Services	Analysis and Statistics	Mathematical			No Reuse	33
CL-CPP-OFA Operational Forecasts and Assessments	To produce operational intraseasonal, seasonal, interannual, and decadal climate outlooks (including uncertainties), and credible national and international assessments using models and climate monitoring data sets for the ocean, atmosphere and land. Improve and enhance operational climate products.	Business Analytical Services	Knowledge Discovery	Modeling			No Reuse	33
CL-CPP-OFA Operational Forecasts and Assessments	To produce operational intraseasonal, seasonal, interannual, and decadal climate outlooks (including uncertainties), and credible national and international assessments using models and climate monitoring data	Support Services	Security Management	Identification and Authentication			No Reuse	34

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**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)
	sets for the ocean, atmosphere and land. Improve and enhance operational climate products.							

- 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)
Modeling	Component Framework	Business Logic	Platform Independent Technologies	JavaScript
Modeling	Component Framework	Data Interchange	Data Exchange	Specific weather and climate community format
Modeling	Component Framework	Data Interchange	Data Exchange	XMI
Mathematical	Component Framework	Data Management	Reporting and Analysis	High performance supercomputing
Mathematical	Component Framework	Data Management	Reporting and Analysis	XML for Analysis
Identification and Authentication	Component Framework	Security	Certificates / Digital Signatures	Hyper Text Markup Language (HTML)
Identification and Authentication	Component Framework	Security	Certificates / Digital Signatures	Secure Sockets Layer (SSL)
Identification and Authentication	Component Framework	Security	Supporting Security Services	Secure Shell (SSH)
Modeling	Component Framework	User Presentation / Interface	Content Rendering	Hyper Text Markup Language (HTML)
Identification and Authentication	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator
Identification and Authentication	Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity
Mathematical	Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)
Mathematical	Service Platform and Infrastructure	Database / Storage	Database	SQL Server
Mathematical	Service Platform and Infrastructure	Delivery Servers	Application Servers	Primary and backup computer system servers
Mathematical	Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache
Mathematical	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor
Mathematical	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)
Mathematical	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server
Mathematical	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe
Identification and Authentication	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management
Identification and Authentication	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking
Identification and	Service Platform and	Software Engineering	Software Configuration	Deployment Management

Exhibit 300: NOAA/NWS/ NCEP Weather and Climate Operational Supercomputer Systems (WCOSS Primary and Backup)  
(Revision 19)

<b>5. Technical Reference Model (TRM) Table:</b>				
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.				
<b>FEA SRM Component (a)</b>	<b>FEA TRM Service Area</b>	<b>FEA TRM Service Category</b>	<b>FEA TRM Service Standard</b>	<b>Service Specification (b) (i.e., vendor and product name)</b>
Authentication	Infrastructure		Management	
Identification and Authentication	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management
Identification and Authentication	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Task Management
Identification and Authentication	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Control and Management
Mathematical	Service Platform and Infrastructure	Support Platforms	Independent Platform	Java 2 Platform Enterprise Edition (J2EE)

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)? No

a. If "yes," please describe.

**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? 8/1/2005  
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. 12/31/2008  
b. If "yes," what were the results?

An operational analysis conducted in December indicated that there are no significant risks to the investment, and that the contract is on schedule and on budget.

- 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

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	FY03 CCS Primary System Acquisition	9/30/2003	\$51.073000	9/30/2003	\$51.073000	0	\$0.000000
2	FY 04 Primary System	9/30/2004	\$19.083000	9/30/2004	\$19.083000	0	\$0.000000
3	FY04 Backup System	9/30/2004	\$7.073000	9/30/2004	\$7.073000	0	\$0.000000
4	FY 05 Primary System	9/30/2005	\$19.322000	9/30/2005	\$19.322000	0	\$0.000000
5	FY05 Backup System	9/30/2005	\$7.045000	9/30/2005	\$7.045000	0	\$0.000000
6	FY 06 Primary System	9/30/2006	\$19.020000	7/31/2006	\$15.850000	61	\$3.170000
7	FY06 Backup System	9/30/2006	\$7.050000	7/31/2006	\$5.288000	61	\$1.762000
8	FY 07 Primary System	9/30/2007	\$19.092000	9/30/2007	\$19.092000	0	\$0.000000
9	FY07 Backup System	9/30/2007	\$7.077000	9/30/2007	\$7.077000	0	\$0.000000
10	FY 08 Primary System	9/30/2008	\$19.092000	9/30/2008	\$13.269000	0	\$5.823000
11	FY08 Backup System	9/30/2008	\$7.077000	9/30/2008	\$7.077000	0	\$0.000000
12	FY 09 Primary System	9/30/2009	\$19.092000	9/30/2009		0	
13	FY09 Backup System	9/30/2009	\$7.077000	9/30/2009		0	
14	FY 10 Primary System	9/30/2010	\$19.092000	9/30/2010		0	
15	FY10 Backup System	9/30/2010	\$7.077000	9/30/2010		0	