

**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/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-17-01-3113-00
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? FY2003
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:

NCEP delivers national and global weather, water, climate and space weather guidance, forecasts, warnings and analyses to a broad range of users and partners. The increased need for NWS products in the areas of Air Quality, Ecosystem, Coupled Modeling, and Short-Range Ensemble Forecasts has increased demands on the infrastructure support required to deliver them, and the WCCIS serves as the critical utility to support, maintain, and sustain these infrastructure requirements through its activities in four capability areas: (1) Production Management; (2) Systems Integration; (3) Shared Infrastructure Services, (4) Project Management. The WCCIS organization provides system support and maintenance, administration and other user support services on a 24-hour basis for NCEP operational computing and communications systems and ensures a secure and reliable "system of systems" infrastructure that comprises radar imaging, satellite imaging, model guidance, and sounding media used in the visualization and analysis of weather and climate information. In addition, the implementation, maintenance, and improvements to specific climate forecasts are supported by the investments in the Climate Prediction Center (CPC), which represents a combination of direct funding and reimbursement funding in conjunction with research, developmental, and operational proposals with other NOAA offices, the U.S. Aid for International Development (USAID), and the National Aeronautics and Space Administration (NASA). Specifically, the WCCIS investment supports NOAAs objectives of (1) Serving societys needs for weather and water information; (2) Supporting the nation's commerce with information for safe, efficient, and environmentally sound transportation; and by 3) Providing critical support for NOAAs mission. NCEP's Space Weather Prediction Center (SPWC) is requesting funding for transition numerical model-based products/services into space weather operations. SPWC IT development costs are estimated at FY10 \$.45M, FY11 \$.38M, FY12 \$.40M, FY13 \$.43M, FY14 \$.40M. NCEP is asking for a \$4.34M annual increase for FY10-FY15 for IT O&M support costs for new NCWCP building. SPWC is requesting an increase for FY11 \$4.60M, FY12 \$2.03M, FY13 \$2.03M, FY14 \$2.03M, FY15 \$2.03M to support their efforts to achieve and maintain certification and accreditation (C&A) and Authorization to Operate (ATO) for their operational national critical system.
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? 2/2/2009
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:
- Competitive Sourcing
  - Expanded E-Government
  - Financial Performance
- 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?) WCCIS is a multi-location, multi-vendor system employing competition for all significant expenditures. NCEP successfully leveraged existing NOAA communications contracts to achieve cost savings.
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit [www.whitehouse.gov/omb/part.](http://www.whitehouse.gov/omb/part.)) No
- a. If "yes," does this investment address a weakness found during a PART review?
- b. If "yes," what is the name of the PARTed program?
- 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 FFIA 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 | 17 |
| Software | 4  |
| Services | 46 |
| Other    | 33 |
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 No

Records Administration's approval?

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	9.118	0	0					
Subtotal Planning & Acquisition:	0	9.118	0	0					
Operations & Maintenance:	70.306	3.7	5.183	8.491					
TOTAL:	70.306	12.818	5.183	8.491					
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	44.87	8.3	8.5	8.7					
Number of FTE represented by Costs:	73	73	73	73					

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: No difference is expected over the FY 2007 budget request.

The spending plan for FY08 has been changed to include monies (from PAC - NCWCP construction) to buy the new operational IT equipment for the NCWCP building. In order to support the NCEP's mission during the transition to the new building, a copy of the current operational IT environment needs to be purchased and deployed in the new building. This amounts to \$9.118M to be spending FY08 for purchasing the phone, A/V, data servers, WAN, and LAN components. Additional funds to support the actual physical relocation of current equipment and people to the new building has also been funded for FY08 at \$1.833M and since NCEP must support two operational environments simultaneously during the course of the transition to the new building. This funding also covers the projected resources that will be required to support both the old and new IT environments during the transition and will be used in FY09 as well.

**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)
SAIC, DG133W-03-CQ-0015	Cost Plus Fixed Fee	Yes	9/29/2003	4/1/2004	9/24/2008	4.4	No	Yes	Yes	NA	No	Yes		anita.r.middleton@noaa.gov	Level 3	
OSS - CM1301-05-CT-0044	Cost Plus Fixed Fee	Yes	9/22/2005	9/22/2005	9/24/2013	21.9	No	Yes	Yes	NA	No	Yes		pstang@doc.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:

The WCCIS investment is a steady state investment with contractors performing applications maintenance and traditional information technology support services. The level of risk associated with the delivery of these services does not warrant the use of EVMS.

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? 12/12/2003

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. 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	Timeliness and Responsiveness	Response Time	Help Desk Tickets - Percentage of IT system support help desk tickets resolved within 48 hours of issuance	90% of help desk tickets resolved within 48 hours	Targeted performance improvement of 1%	90%
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	Information and Technology Management	Information Security	Security Patch Deployment - Percentage of required security patches deployed to supportable systems	96% of software patches deployed within 14 days of identified security need	Targeted performance improvement is 1%, to 97%	97%
2006	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social,	Mission and Business Results	Information and Technology Management	Lifecycle/Change Management	Percentage of operational systems on cyclic replacement.	50% of operational systems	Targeted performance improvement of 10% as reported in plan to ITRB Board	57.5%

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	and environmental needs.							
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	Errors	Improvement of Forecasts and Models - Push software releases/updates designated to ensure quality improvements for the forecaster and modeler community	4 software releases per year, with one release each quarter	Targeted performance is to maintain the quarterly frequency of new releases without any interruption	3
2006	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	Networks Uptime - Percentage of time that system networks are up and available for all end users	Networks available 99.5% of the time	Targeted performance is stable network availability at 99.5% that satisfies enterprise requirements	99.5%
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Timeliness and Responsiveness	Response Time	Help Desk Tickets - Percentage of IT system support help desk tickets resolved within 48 hours of issuance	91% of help desk tickets resolved within 48 hours	Targeted performance improvement of 1%, to 92%	92%
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	Information and Technology Management	Information Security	IT Security Patch Deployment - Percentage of required security patches deployed to supportable systems	97% of software patches deployed within 14 days of identified security need	Targeted performance improvement is 1%, to 98%	98%
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	Information and Technology Management	Lifecycle/Change Management	Percentage of operational systems on cyclic replacement.	50% of operational systems	Targeted performance improvement of 50% (to 100% of systems) as reported in plan to ITRB Board	50%
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	Errors	Improvement of Forecasts and Models- Push software releases/updates designated to ensure quality improvements for the forecaster and modeler community	4 software releases per year, with one release each quarter	Targeted performance is to maintain the quarterly frequency of new releases without any interruption	4
2007	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	Networks Uptime - Percentage of time that system networks are up and available for all end users	Networks available 99.5% of the time	Targeted performance is stable network availability at 99.5% that satisfies enterprise requirements	99.44%
2008	3.1 Advance understanding	Customer Results	Timeliness and Responsiveness	Response Time	Help Desk Tickets-	92% of help desk tickets	Targeted performance	TBD

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.				Percentage of IT system support help desk tickets resolved within 48 hours of issuance	resolved within 48 hours	improvement of 1%, to 93%	
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	Information and Technology Management	Information Security	IT Security Patch Deployment - Percentage of required security patches deployed to supportable systems	97% of software patches deployed within 14 days of identified security need	Targeted performance improvement is 1%, to 98%	TBD
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	Information and Technology Management	IT Infrastructure Maintenance	Percentage of operational systems on cyclic replacement.	100% of operational systems	Targeted performance is to ensure 100% of operational systems have been cyclically replaced to satisfy all agency IT/system hardware and software requirements	TBD
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	Quality	Errors	Improvement of Forecasts and Models - Push software releases/updates designated to ensure quality improvements for the forecaster and modeler community	4 software releases per year, with one release each quarter	Targeted performance is to maintain the quarterly frequency of new releases without any interruption	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	Networks Uptime - Percentage of time that system networks are up and available for all end users	Networks available 99.5% of the time	Targeted performance is stable network availability at 99.5% that satisfies enterprise requirements	TBD
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Timeliness and Responsiveness	Response Time	Help Desk Tickets- Percentage of IT system support help desk tickets resolved within 48 hours of issuance	92% of help desk tickets resolved within 48 hours	Targeted performance improvement of 1%, to 93%	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	Information and Technology Management	Information Security	IT Security Patch Deployment - Percentage of required security patches deployed to supportable systems	97% of software patches deployed within 14 days of identified security need	Targeted performance improvement is 1%, to 98%	TBD
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's	Mission and Business Results	Information and Technology Management	Lifecycle/Change Management	Percentage of operational systems on cyclic replacement.	100% of operational systems	Targeted performance is to ensure 100% of operational systems have been cyclically replaced to	TBD

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.						satisfy all agency IT/system hardware and software requirements	
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	Improvement of Forecasts and Models - Push software releases/updates designated to ensure quality improvements for the forecaster and modeler community	4 software releases per year, with one release each quarter	Targeted performance is to maintain the quarterly frequency of new releases without any interruption	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	Networks Uptime - Percentage of time that system networks are up and available for all end users	Networks available 99.5% of the time	Targeted performance is stable network availability at 99.5% that satisfies enterprise requirements	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
Space Environment Center (SWPC)	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.
Space Weather Operations (SWPC)	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.
NCEP Central Operations (NCO)	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.
Aviation Weather Center (AWC)	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.
Climate Prediction Center (CPC)	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.
Environmental Modeling Center (EMC)	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.
Storm Prediction Center (SPC)	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.
Tropical Prediction Center (TPC)	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:

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
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. Weather and Water, WCCIS

b. If "no," please explain why?

The WCCIS investment is not part of any Enterprise Architecture Transition Strategy per se but is identified in the NOAA Baseline and Target Architecture documents. The NWS Enterprise Architecture document (Version 1.7 dated 06-07-2006) refers to the WCCIS investment.

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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of	Back Office Services	Asset / Materials Management	Property / Asset Management			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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)
	pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Back Office Services	Data Management	Data Classification			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Back Office Services	Data Management	Data Exchange			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational	Back Office Services	Development and Integration	Software Development			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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)
	NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Back Office Services	Human Resources	Education / Training			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental	Business Analytical Services	Analysis and Statistics	Mathematical			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Analytical Services	Knowledge Discovery	Modeling			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Analytical Services	Visualization	Graphing / Charting			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for	Business Analytical Services	Visualization	Imagery			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Analytical Services	Visualization	Mapping / Geospatial / Elevation / GPS			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Management Services	Investment Management	Strategic Planning and Mgmt			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

<b>4. Service Component Reference Model (SRM) Table:</b> 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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Management Services	Management of Processes	Change Management			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Management Services	Management of Processes	Configuration Management			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to	Business Management Services	Management of Processes	Program / Project Management			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Management Services	Management of Processes	Requirements Management			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Business Management Services	Management of Processes	Risk Management			No Reuse	3
CL-RDS-OCS Provide operational	The ability to provide operational	Business Management Services	Organizational Management	Network Management			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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)
climate services	climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Customer Services	Customer Initiated Assistance	Online Help			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public	Customer Services	Customer Initiated Assistance	Online Tutorials			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Customer Services	Customer Preferences	Alerts and Notifications			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Customer Services	Customer Preferences	Subscriptions			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to	Customer Services	Customer Relationship Management	Brand Management			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Digital Asset Services	Knowledge Management	Information Retrieval			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability	Support Services	Security Management	Access Control			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

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 <a href="http://www.egov.gov">http://www.egov.gov</a> .								
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)
	can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	WCCIS ensures access nodes to main computing systems are protected by strict perimeter access filters that restrict inbound and outbound access and network interfaces are directly connected to firewall hardware, and management access to the firewall system is restricted. Digital certificates are utilized for user authentication. Secure Multipurpose Internet Mail Extensions is used for added security. Access passwords unused over a certain period of time are deemed expired and restricted	Support Services	Security Management	Access Control			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Support Services	Security Management	Digital Signature Management			No Reuse	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to	Support Services	Security Management	Intrusion Detection			No Reuse	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Support Services	Systems Management	License Management			Internal	3
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability	Support Services	Systems Management	Remote Systems Control			Internal	3

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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)
	can be leveraged to address a myriad of pressing and emerging environmental problems including drought.							
CL-RDS-OCS Provide operational climate services	The ability to provide operational climate services at all levels from national to regional to state and local levels. This includes the ability to deliver and support operational NOAA climate products, solicit requirements for new and improved products, and to act as a point of entry for the general public into NOAA climate services. The capability can be leveraged to address a myriad of pressing and emerging environmental problems including drought.	Support Services	Systems Management	Software Distribution			Internal	3

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)
Data Classification	Component Framework	Data Interchange	Data Exchange	Open Database Connectivity
Program / Project Management	Component Framework	Data Management	Reporting and Analysis	Microsoft Project
Strategic Planning and Mgmt	Component Framework	Data Management	Reporting and Analysis	Oracle
Access Control	Component Framework	Security	Certificates / Digital Signatures	Digital Certificate Authentication
Information Retrieval	Component Framework	Security	Certificates / Digital Signatures	Digital Certificate Authentication
Digital Signature Management	Component Framework	Security	Certificates / Digital Signatures	Digital Certificate Authentication
Change Management	Component Framework	Security	Certificates / Digital Signatures	Microsoft Office
Intrusion Detection	Component Framework	Security	Supporting Security Services	Border Gateway Patrol (BGP)
Graphing / Charting	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	Hyper Text Markup Language (HTML)

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

<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>
Mathematical	Component Framework	User Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)
Imagery	Component Framework	User Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)
Access Control	Service Access and Delivery	Access Channels	Collaboration / Communications	Email
Access Control	Service Access and Delivery	Access Channels	Other Electronic Channels	System to System
Online Tutorials	Service Access and Delivery	Access Channels	Web Browser	Internet Explorer/Netscape Communicator
Access Control	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator, Internet Explorer
Access Control	Service Access and Delivery	Delivery Channels	Internet	Internet/ Intranet/VPN
Education / Training	Service Access and Delivery	Delivery Channels	Intranet	Internet Explorer
Online Help	Service Access and Delivery	Delivery Channels	Intranet	Internet/ Intranet/VPN
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Intranet	Internet/ Intranet/VPN
Subscriptions	Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)	Internet/ Intranet/VPN
Property / Asset Management	Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508
Access Control	Service Access and Delivery	Service Transport	Service Transport	Border Gateway Patrol (BGP)
Access Control	Service Access and Delivery	Service Transport	Service Transport	Directory Services (X.500)
Access Control	Service Access and Delivery	Service Transport	Service Transport	Domain Name System (DNS)
Access Control	Service Access and Delivery	Service Transport	Service Transport	Lightweight Directory Access Protocol
Access Control	Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)
Access Control	Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (ESMTP)
Access Control	Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol (IMAP)/Post Office Protocol (POP)
Access Control	Service Access and Delivery	Service Transport	Supporting Network Services	Internet Protocol (IP)
Access Control	Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)
Remote Systems Control	Service Access and Delivery	Service Transport	Supporting Network Services	Remote Procedure Call (RPC)
Access Control	Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)
Software Development	Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity
Software Development	Service Interface and Integration	Integration	Middleware	Remote Procedure Call (RPC)
Data Classification	Service Interface and Integration	Interoperability	Data Format / Classification	extensible Markup Language (XML)
Data Classification	Service Platform and Infrastructure	Database / Storage	Database	Oracle
Data Exchange	Service Platform and Infrastructure	Database / Storage	Storage	Network Attached Storage (NAS)
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Database / Storage	Storage	Network Attached Storage (NAS)
Software Development	Service Platform and Infrastructure	Delivery Servers	Application Servers	Application Connectivity
Software Development	Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drives and Microprocessor
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ethernet
Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Ethernet, Frame Relay, T1/T3
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Hub
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Printer
Data Exchange	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server
Risk Management	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Microsoft Office
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Frame Relay
Requirements Management	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Hyper Text Markup Language (HTML)

Exhibit 300: NOAA/NWS CS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS) (Revision 1)

**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	Service Platform and Infrastructure	Software Engineering	Modeling	Hyper Text Markup Language (HTML)
Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Microsoft Office
Configuration Management	Service Platform and Infrastructure	Software Engineering	Test Management	Microsoft Office

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 NOAA home page is easily accessible from FirstGov through the Environment, Energy & Agriculture link, and then the Climate and Weather link. From the NOAA page, access to a listing of operating components is available and a link to NCEP is found at the following web page location: <http://www.nco.ncep.noaa.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? 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. 6/30/2008
  - b. If "yes," what were the results?

An operational analysis completed in February 2007 indicated that the WCCIS investment is on budget, cyclic refreshment of systems hardware and software is on schedule, and no material risks were identified that could impact the investment.

- 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	Infrastructure Support Services - Maintenance	9/30/2004	\$23.480000	9/30/2004	\$23.480000	0	\$0.000000
2	Infrastructure Support Services -Maintenance	9/30/2005	\$12.790000	9/30/2005	\$12.790000	0	\$0.000000
3	Infrastructure Support Services - Maintenance	9/30/2006	\$14.677000	7/31/2006	\$12.231000	61	\$2.446000
4	Infrastructure Support Services - Maintenance	9/30/2007	\$19.359000	9/30/2007	\$13.400000	0	\$5.959000
5	Infrastructure Support Services - Maintenance	9/30/2008	\$20.123000	9/30/2008	\$21.936000	0	-\$1.813000
6	Infrastructure Support Services - Maintenance	9/30/2009	\$20.648000	9/30/2009		0	
7	Infrastructure Support Services - Maintenance	9/30/2010	\$21.480000	9/30/2010		0	