

**Exhibit 300: Capital Asset Plan and Business Case Summary****Part I: Summary Information And Justification (All Capital Assets)****Section A: Overview (All Capital Assets)**

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|--|--|
| 1. Date of Submission:   | 1/7/2008   |
| 2. Agency:   | Department of Commerce   |
| 3. Bureau:   | Noaa (Nws)   |
| 4. Name of this Capital Asset:   | NOAA/NWS/ Next Generation Weather Radar (NEXRAD)<br>Operations and Maintenance |
| 5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)  | 006-48-01-12-01-3103-00  |
| 6. What kind of investment will this be in FY2009? (Please NOTE: Investments moving to O&M in FY2009, with Planning/Acquisition activities prior to FY2009 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:   |  |
| <p>The Next Generation Weather Radar (NEXRAD) system is the National Weather Service's (NWS) prime observation system for acquiring information about tornados and severe thunderstorms (containing damaging winds, hail, turbulence, and lightning). It also provides information on heavy precipitation leading to flash flooding and heavy snow warnings. NEXRAD is a key element in the forecasting of aviation related weather events. The NEXRAD network is composed of 159 operational radars (121 NWS, 12 FAA and 26 USAF) and 8 non-operational radars used for training and depot-level support. The radars are located throughout the United States and its territories and in four international locations, two in Korea, one in Okinawa and one in the Azores. NEXRAD is a tri-agency program of the NWS (DOC), FAA (DOT), and USAF (DOD). There is a tri-agency agreement in place for the operation, maintenance, and cost sharing of network operations and maintenance (O&amp;M) costs. Overall program management and decision making is shared by the three agencies. The NEXRAD Program Management Committee is the decision making body and each agency has one voting member. By tri-agency agreement, the Radar Operations Center (ROC) within the NWS Office of Operational Systems is responsible for providing O&amp;M support to the NEXRAD network. The original \$818M NEXRAD capital investment was made during the late 1980s/early 1990s. The funds covered in this exhibit represent the DOC's steady state O&amp;M investment required to sustain the operations of the network. Major capital investments to enhance the network are covered in a separate NEXRAD Product Improvement Exhibit 300 (unique project identifier is 006-48-01-12-01-3103-00-108-023). The radar network must be operated and maintained such that the network meets or exceeds the required 96% service availability. Many components of the NEXRAD system are prone to technological obsolescence and require continuous technology refreshment to avoid obsolescence risk and maintain required service availability. Sustaining engineering modifications provide this technology refreshment as well as repair deficiencies in the NEXRAD system. These modifications are described in an 8-Year Modification Plan that is updated annually by the ROC.</p> |  |
| 9. Did the Agency's Executive/Investment Committee approve this request?   | Yes  |
| a. If "yes," what was the date of this approval?   | 3/29/2006  |
| 10. Did the Project Manager review this Exhibit?   | Yes  |
| 12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project?  | Yes  |
| a. Will this investment include electronic assets (including computers)?   | Yes  |
| b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)  | No   |
| 1. If "yes," is an ESPC or UESC being used to help fund this investment?   |  |
| 2. If "yes," will this investment meet sustainable design principles?  |  |
| 3. If "yes," is it designed to be 30% more energy  |  |

efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives? Yes

If "yes," check all that apply: Expanded E-Government

a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s) (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?) NEXRAD supports the Expanded E-Government initiative by restructuring and streamlining its approach for sending NEXRAD data to the National Climatic Data Center (NCDC). Previously, data was recorded at each NEXRAD site on magnetic tape and mailed to NCDC. This process was replaced by real-time electronic collection and distribution of the data which takes advantage of existing NWS communications architecture and infrastructure, and the Internet2 reducing costs and increasing data access.

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. 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 2007 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: No

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 FY2009 funding request for the following? (This should total 100%)

Hardware	20
Software	9
Services	50
Other	21

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? Yes

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)**

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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.

<b>Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)</b>									
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	<b>PY-1 and earlier</b>	<b>PY 2007</b>	<b>CY 2008</b>	<b>BY 2009</b>	<b>BY+1 2010</b>	<b>BY+2 2011</b>	<b>BY+3 2012</b>	<b>BY+4 and beyond</b>	<b>Total</b>
Planning:	0	0	0	0					
Acquisition:	0	0	0	0					
Subtotal Planning & Acquisition:	0	0	0	0					
Operations & Maintenance:	48.497	8.06	8.06	8.06					
<b>TOTAL:</b>	<b>48.497</b>	<b>8.06</b>	<b>8.06</b>	<b>8.06</b>					
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	3.404	0.594	0.594	0.594					
Number of FTE represented by Costs:	30	5	5	5					

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?

**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.

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Contracts/Task Orders Table:															* Costs in millions	
Contract or Task Order Number	Type of Contract/ Task Order	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 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)
RA1330-03-CQ-0015, Tower Maintenance Contract	FFP/IDIQ	Yes	9/30/2003	9/30/2003	9/30/2008	4.80	No	Yes	Yes	NA	No	Yes		jan.clark@noaa.gov		
RA133W-07-CN0057, Security Services	FFP	Yes	4/23/2007	4/23/2007	9/30/2009	0.14412	No	Yes	Yes	NA	No	Yes		Jacqueline.S.Wright@noaa.gov /		
RA133W-04-CQ-0019, Pedestal Engineering Design Services	FFP/IDIQ	Yes	9/21/2004	9/21/2004	9/20/2009	0.995	No	Yes	Yes	NA	No	Yes		-6320 / jan.clark@noaa.gov		
50DGNW190019, Evansville Radar Maintenance Services	FFP	Yes	9/20/2001	9/20/2001	9/30/2010	9.00	No	Yes	Yes	NA	No	Yes		mark.a.miller@noaa.gov		
Radome Maintenance Contract	FFP/IDIQ	Yes	1/16/2007	1/16/2007	1/15/2012	5.344	No	Yes	Yes	NA	No	Yes		jan.clark@noaa.gov /		
DG133W-06-RP-0052, National Calibration Services	FFP	Yes	7/30/2006	8/1/2006	12/31/2010	4.186	No	Yes	Yes	NA	No	Yes		mark.a.miller@noaa.gov		
50CMAA900061, TO 58CMNW0009, COMMITS	CPAF	Yes	6/1/2000	6/1/2000	6/30/2009	65.663	No	Yes	Yes	NA	No	Yes		pstang@doc.gov		

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:

Contracts listed above support a steady state program and are not major IT or development contracts. They provide sustaining engineering, security, or maintenance services in support of NEXRAD operations and maintenance.

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why:

The Department of Commerce and NOAA Contracting Offices require the inclusion of Section 508 compliance language in the statement of work for all IT development service contracts. In order to procure all COTS equipment and software, requestors are required to include with their purchase order or file the Government purchase card invoices as well as the vendors statement of compliance (Voluntary Product Assessibility Template VPAT).

4. Is there an acquisition plan which has been approved in accordance with agency requirements? No

a. If "yes," what is the date?

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

1. If "no," briefly explain why:

There are no on-going acquisitions at this time. An acquisition plan will be developed for the COMMITS replacement contract.

**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 FY 2009.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2006	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Access rate of radar data to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	Data available to customers in 24 hours 98% of the time
2006	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	Network availability of 99.0%
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	Cycle Time and Resource Time	Timeliness	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	Radar products delivered to the NWS Gateway in 38 seconds 99% of the time
2006	3.1 Advance understanding	Technology	Efficiency	Load levels	Capability (as a function of	Maintain an average	Maintain steady state baseline	Average processor load

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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
	and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.				average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	processor load less than 60%	average processor less than 60%	reached 60%
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Access rate of radar data to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	Data available to customers in 24 hours 97% of the time
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	Network availability of 99.0%
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	Cycle Time and Resource Time	Timeliness	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	Radar products delivered to the NWS Gateway in 47 seconds 96% of the time
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Implement processor technology refresh to reduce processor load to under 30%.	Began processor refresh deployment in April 2007. Deployed systems reduced processor load to under 20%.
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 Accessibility	Access	Access rate of radar products to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	
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	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	
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	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	

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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
	and environmental needs.							
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Begin planning process if processor load exceeds 30%.	
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 Accessibility	Access	Access rate of radar products to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	
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	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	
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	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Begin planning process if processor load exceeds 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 Accessibility	Access	Access rate of radar products to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	
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	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	
2010	3.1 Advance understanding	Processes and Activities	Cycle Time and Resource Time	Timeliness	Effectiveness in getting radar	Radar products delivered to the	Maintain steady state baseline of	

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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
	and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.				products from the radar to the NWS Gateway	NWS Gateway in 60 seconds or less 95% of the time	delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	
2010	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Begin planning process if processor load exceeds 30%.	
2011	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Access rate of radar products to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	
2011	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	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	
2011	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	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	
2011	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Begin planning process if processor load exceeds 30%.	
2012	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Access rate of radar products to customers	Data available to customers in 24 hours 96% of the time	Maintain steady state baseline of making data available to customers in 24 hours 96% of the time	
2012	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social,	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Network service availability	Network availability of 96%	Maintain steady state baseline network availability of 96%	

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	and environmental needs.							
2012	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	Effectiveness in getting radar products from the radar to the NWS Gateway	Radar products delivered to the NWS Gateway in 60 seconds or less 95% of the time	Maintain steady state baseline of delivering radar products to the NWS Gateway in 60 seconds or less 95% of the time	
2012	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Load levels	Capability (as a function of average processor load) of the Radar Product Generator processor to add new science that can be used to improve forecast goals	Maintain an average processor load less than 60%	Begin planning process if processor load exceeds 30%.	

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

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment: Yes
  - a. If "yes," provide the "Percentage IT Security" for the budget year: 8
2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment. Yes
5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? Yes
  - a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? Yes

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

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(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
NEXRAD -	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	No, because the system is not Privacy Act System of Records.
Radar Operations Center Local Area Network	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 Records.

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

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

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

1. Is this investment included in your agency's target enterprise architecture? Yes
  - a. If "no," please explain why?
  
2. Is this investment included in the agency's EA Transition Strategy? Yes
  - a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. NWS Enterprise Architecture 1.6 January 2006 Next Generation Weather Radar (NEXRAD) System O&M
  - b. If "no," please explain why?
  
3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture? Yes
  - a. If "yes," provide the name of the segment architecture as NOAA Observing Systems Architecture (NOSA) provided in the agency's most recent annual EA Assessment.

**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)
WW-LFW-Observe the Atmosphere	NEXRAD data - Level II, RPS, OTRs, Agency specific data sets	Back Office Services	Data Management	Data Exchange			No Reuse	10
WW-LFW-Observe the Atmosphere	NEXRAD meta data - GSMs and meta data	Back Office Services	Data Management	Meta Data Management			No Reuse	15
WW-LFW-Observe the Atmosphere	NEXRAD algorithms - VAD, VIL, MPDA, ECHO, TOPS, SHEAR	Business Analytical Services	Business Intelligence	Decision Support and Planning			No Reuse	10
WW-LFW-Observe the Atmosphere	NEXRAD Alerts and Alarms - Weather alerts and system alarms	Customer Services	Customer Preferences	Alerts and Notifications			No Reuse	5
WW-LFW-Observe the Atmosphere	NEXRAD Scanning Strategies - Volume scanning	Customer Services	Customer Preferences	Personalization			No Reuse	5

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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)
	strategies							
WW-LFW-Observe the Atmosphere	Custom product requests - Routine product sets one time requests	Digital Asset Services	Content Management	Content Authoring			No Reuse	15
WW-LFW-Observe the Atmosphere	Custom product requests - Routine product sets one time requests	Digital Asset Services	Knowledge Management	Information Retrieval			No Reuse	10
WW-LFW-Observe the Atmosphere	NEXRAD products - Default data sets used by AWIPS, FAA, DOD	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	15
WW-LFW-Observe the Atmosphere	NEXRAD data acquisition - Raw data acquisition	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	15

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

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

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

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

**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)
Alerts and Notifications	Component Framework	Business Logic	Platform Dependent	
Personalization	Component Framework	Business Logic	Platform Dependent	
Information Retrieval	Component Framework	Business Logic	Platform Dependent	
Knowledge Capture	Component Framework	Business Logic	Platform Dependent	
Meta Data Management	Component Framework	Business Logic	Platform Dependent	
Information Sharing	Component Framework	Business Logic	Platform Dependent	
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent	
Content Authoring	Service Access and Delivery	Delivery Channels	Internet	
Personalization	Service Access and Delivery	Delivery Channels	Intranet	
Knowledge Capture	Service Access and Delivery	Delivery Channels	Intranet	
Data Exchange	Service Access and Delivery	Delivery Channels	Intranet	
Alerts and Notifications	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	
Information Retrieval	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	
Knowledge Capture	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	
Data Exchange	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	
Decision Support and Planning	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Alerts and Notifications	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	

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<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>
Alerts and Notifications	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Information Retrieval	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Decision Support and Planning	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	

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., FirstGov, Pay.Gov, etc)? Yes

a. If "yes," please describe.

We will use existing NWS systems to display, store, and transmit data including AWIPS, NWSTG, and NCDC.

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

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

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

1. Does the investment have a Risk Management Plan? Yes
  - a. If "yes," what is the date of the plan? 7/11/2007
  - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
  - c. If "yes," describe any significant changes:
  
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 operational analysis conducted? Yes
  - a. If "yes," provide the date the analysis was completed. 8/30/2007
  - b. If "yes," what were the results?

No variances were identified. NEXRAD is meeting or exceeding all performance measures. The performance measure for Technology did, however, reach its upper limit of 60% average processor load during FY06. A technology refresh effort for the Radar Product Generator using off-the-shelf processors to address processor obsolescence and to add additional processing capability is currently being implemented and will be completed in FY08

- 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)? Government Only

- 2.b Comparison of Plan vs. Actual Performance Table:

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Comparison of Plan vs. Actual Performance Table							
Milestone Number	Description of Milestone	Planned		Actual		Variance	
		Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Schedule (# days)	Cost(\$M)
1.0	Steady State O&M FY05 & Prior	9/30/2005	\$581.75	9/30/2005	\$581.75	0	\$0
2.0	Steady State O&M FY06	9/30/2006	\$39.946	9/30/2006	\$39.714	0	\$0.232
3.0	Steady State O&M FY07	9/30/2007	\$43.759				
4.0	Steady State O&M FY08	9/30/2008	\$44.176				
5.0	Steady State O&M FY09	9/30/2009	\$45.121				