

**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: 1/7/2008
2. Agency: Department of Commerce
3. Bureau: Noaa (Nws)
4. Name of this Capital Asset: NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-12-01-3106-00
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
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:  

The NWS Telecommunication Gateway (NWSTG) disseminates (message-switching services) weather observations and guidance data to a national and international community of customers. The Gateway services this customer base in a near-real-time operational environment. This investment will allow NOAA to ensure that the NWSTG reliably meets performance demands and will allow the NWS to maintain operations should the primary NWSTG fail. In terms of performance, this investment has improved the average transit time through the NWSTG for warnings from 1 minute to 10 seconds. In terms of reliability, this investment has provided catastrophic backup capability for the NWSTG with a NWSTG backup system fully operational within 12 hours of primary system failure.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
  - a. If "yes," what was the date of this approval? 12/10/2001
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:

  - 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?) Budget Performance Integration  
 The NWSTG Integrated Project Team works to assess the effectiveness and efficiency of each component of the NWSTG CIP and Legacy Replacement programs and allocate scarce resources accordingly.
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).) Yes

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- a. If "yes," does this investment address a weakness found during a PART review? No
- b. If "yes," what is the name of the PARTed program? National Oceanic & Atmospheric Administration: Weather and Related Programs.
- c. If "yes," what rating did the PART receive? Moderately Effective

15. Is this investment for information technology? Yes

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 2

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	8
Software	1
Services	59
Other	32

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)**

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.

	PY-1 and earlier	PY 2007	CY 2008	BY 2009
Planning:	0	0	0	0
Acquisition:	22.596	0	0	0
Subtotal Planning & Acquisition:	22.596	0	0	0
Operations & Maintenance:	39.37	13.642	14.349	14.349
TOTAL:	61.966	13.642	14.349	14.349

	PY-1 and earlier	PY 2007	CY 2008	BY 2009
Government FTE Costs	33.667	7.319	6.709	6.709
Number of FTE represented by Costs:	377	70	65	65

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 FY2008 President's budget request, briefly explain those changes:

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

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

Exhibit 300: NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP) (Revision 15)

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)
DG133W06N C1033	T&M	Yes	5/31/2006	6/1/2006	6/30/2007	1.0708	No	Yes	No	NA	Yes	Yes	Middleton, Anita	Anita.R.Middl eton@noaa.gov	Level 3	
DG133W04S E0483	T&M	Yes	5/10/2004	5/10/2006	4/30/2007	0.5526	No	Yes	No	NA	No	Yes	Middleton, Anita	Anita.R.Middl eton@noaa.gov	Level 3	
DG133W06N C0634	T&M	Yes	3/10/2006	3/10/2006	6/30/2007	0.41013	No	Yes	Yes	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W05N C2430	T&M	Yes	7/12/2005	7/12/2005	9/30/2007	1.1314	No	Yes	Yes	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W06N C0493	T&M	Yes	2/16/2006	2/16/2006	6/30/2007	0.33856	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W03C T0030 L0023	T&M	Yes	2/27/2007	2/27/2007	9/30/2007	0.4191	No	Yes	No	NA	No	Yes	Miller, Mark A	mark.a.mille r@noaa.gov	Level 2	
DG133W07N C0608	T&M	Yes	4/12/2007	4/12/2007	5/31/2008	0.6523	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W07N C0675	T&M	Yes	4/30/2007	4/30/2007	5/31/2008	0.4589	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W07N C0481	T&M	Yes	3/15/2007	3/15/2007	12/31/2007	0.1414	No	Yes	Yes	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W07N C0539	T&M	Yes	3/29/2007	3/29/2007	5/31/2008	0.2484	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W07N C0112	T&M	Yes	11/14/2006	11/14/2006	6/30/2007	0.21557	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W07X X0096	Fixed Cost	Yes	5/23/2007	5/23/2007	7/31/2007	0.08032	No	Yes	No	NA	No	Yes	Middleton, Anita	Anita.R.Middl eton@noaa.gov	Level 3	
DG133W03C T0030 L0001	T&M	Yes	12/1/2006	12/1/2006	5/31/2008	0.2268	No	Yes	Yes	NA	No	Yes	Miller, Mark A	mark.a.mille r@noaa.gov	Level 2	
MQ-Series/Messa ge Broker Sysem Support	Labor Hour	Yes	8/29/2007	8/29/2007	8/31/2009	2.50	No	Yes	No	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	
DG133W04N C0001 Option Year 3	Fixed Cost	Yes	10/1/2006	10/1/2006	9/30/2007	0.55	No	Yes	Yes	NA	No	Yes	Carlson, Lamar	lamar.carlso n@noaa.gov	Level 2	

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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)
DG133W03C T0030 L0029	T&M	Yes	6/1/2007	6/1/2007	5/31/2008	0.093	No	Yes	Yes	NA	No	Yes	Miller, Mark A	Anita.R.Middl eton@noaa.g ov	Level 2	
DG133W06B U0064	Fixed Cost	Yes	9/25/2006	9/25/2006	9/24/2009	0.75	No	Yes	Yes	NA	No	Yes	Middleton, Anita	lamar.carlso n@noaa.gov	Level 3	
DG133W07N C0108	Fixed Cost	Yes	10/1/2006	10/1/2006	9/30/2007	0.374	No	No	Yes	NA	No	Yes	Miller, Mark A	mark.a.mille r@noaa.gov	Level 2	
DG133W07N C0936	Fixed Cost	Yes	6/11/2007	6/11/2007	6/10/2008	0.085	No	Yes	No	NA	No	Yes	Miller, Mark A	mark.a.mille r@noaa.gov	Level 2	
DG133W07S E1842	Fixed Cost	Yes	1/1/2007	1/1/2007	12/31/2007	0.08261	No	No	No	NA	No	Yes	Middleton, Anita	Anita.R.Middl eton@noaa.g ov	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:

All services contracts are labor hour support contracts for O&M and or remedial services that have no measurable deliverables or milestones

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why:

A large majority of equipment and software in this investment is considered "embedded systems" or "back office". However there are some portions of the acquisitions which must meet 508 compliance standards. All acquisitions are reviewed for 508 compliance requirements and 508 compliance requirements are addressed in every contract or implementation involved in this investment.

4. Is there an acquisition plan which has been approved in accordance with agency requirements? Yes

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

10/1/2003

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

1. If "no," briefly explain why:

**Section D: Performance Information (All Capital Assets)**

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

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov). The table can be extended to include performance measures for years beyond FY 2009.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2004	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	Cycle Time	Transit Time for Model Products	5 Minutes [Primary System Measures]	1 minute [Primary System Measures]	5 minutes [Primary System Measures]
2004	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	Cycle Time	NWSTG Transit time for warning messages	1 minute [Primary System Measures]	Reduce transit time to 10 seconds [Primary System Measures]	1 minute [Primary System Measures]
2004	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and	Processes and Activities	Cycle Time and Resource Time	Cycle Time	Transit Time for non-warning messages	3 minutes [Primary System Measures]	1 minute [Primary System Measures]	3 minutes [Primary System Measure]

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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
	environmental needs.							
2005	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	Radar Level 2, HazCollect services	Level 1 Radar Data, no HazCollect data	New data services	Level 2 Radar Data available, subset of Hazcollect data suite available
2005	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	T-3 access for commercial users	T-1 access	increased access bandwidth	T-3 access available
2005	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Efficiency	Accessibility	Common network for regions and NWSTG	separate circuits required for region-to-region and region-to-NWSTG connectivity	shared network	common network available
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 to NWSTG via IP network	NWSTG access restricted to dedicated point-to-point circuit connectivity	NWSTG access available via IP network	Effective July 14, 2006, customers can assess NWSTG via a IP based MPLS network
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	Controls and Oversight	Corrective Action	Effective control of system configuration changes	Separate configuration management systems used for software and hardware changes. No formal configuration management system in effect for network changes.	Implement a new comprehensive configuration management system that encompasses all NWSTG internal software, hardware, and network components	A fully functional configuration management system was implemented in April 2006.
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	Cycle Time	NWSTG system throughput	1500 messages per minute during peak periods (based on daily averages)	3000 messages per minute during peak periods	As of August 3, 2006 daily averages are in excess of 3000 messages per minute during peak periods
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	Transit Time for Model Products	5 Minutes [Primary System Measures]	1 minute	As of August 3, 2006 daily traffic transit times through the core message switching system for all products are averaging less than 2 seconds.
2006	3.1 Advance understanding	Processes and Activities	Cycle Time and Resource Time	Timeliness	NWSTG Transit time for warning	1 minute [Primary System	10 seconds	As of August 3, 2006 daily traffic

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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.				messages	Measures]		transit times through the core message switching system for all products are averaging less than 2 seconds.
2006	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Productivity and Efficiency	Efficiency	internal network capacity	100Mbps maximum internal network throughput capacity	1Gbps maximum internal network throughput capacity	Effective June 12, 2006, 1Gbps internal network throughput capacity exists in the Replacement Telecommunication Gateway core message switching system
2006	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Storage	Storage Area Network capacity	2TB raw storage available for switching system database	add 3TB raw storage to facilitate improvement to the SAN architecture	As of August 3, 2006, additional storage acquired but not yet implemented
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	Availability	access to NWSTG and NWSTG Backup via IP network	NWSTG access restricted to primary facility in Silver Spring, MD	NWSTG access available to backup facility in Bluemont, VA via IP network connectivity	As of July 20, 2007 access to NWSTG Backup available via local access point at primary facility in Silver Spring
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	Controls and Oversight	Program Monitoring	Effective control of system configuration changes	Comprehensive configuration management system that encompasses all NWSTG internal software, hardware, and network components	Extend configuration management to NOAANet interfaces with the NWSTG	Configuration Management implemented 6/27/2007
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	Internal Risk Management and Mitigation	Contingency Planning	Currency and Accuracy of NWSTG Contingency Plan	Contingency plan updated annually	Review and update contingency plan on a semi-annual basis	NWSTG Continuity of Operations Plan completed in June 2007
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	Productivity and Efficiency	Efficiency	Product delivery time over wide area network to NWSTG customers	Improvements to product delivery times to customers are constrained by the bandwidth of the NWSTG access to the IP network	Increase NWSTG access bandwidth at least twofold	Fourfold increase in NWSTG access bandwidth achieved with installation of OC-12 circuit at primary NWSTG in December 2006 and at backup NWSTG in March 2007
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's	Technology	Reliability and Availability	Availability	Effective failover between primary and remote backup	no failover capability	NWSTG products are available within 12 hours of failover implementation	NWSTG Backup successfully completed operational testing but cannot proceed with failover

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	economic, social, and environmental needs.							testing without AWIPS connectivity scheduled for 1st Quarter FY08.
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	Reliability	System reliability	99.9% or 8.75 hours maximum unscheduled downtime per year	99.99% or 1.5 hours maximum unscheduled downtime per year	Contingent on completion of failover testing in 1st Quarter FY08
2008	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	timliness of response to customer service requests	customer is contacted by appropriate staff resource within 60 minutes of initial customer request for service (non-emergency)	customer is contacted by appropriate staff resource within 50 minutes of initial customer request for service (non-emergency)	
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	Internal Risk Management and Mitigation	Contingency Planning	Currency and Accuracy of NWSTG Contingency Plan	Contingency plan updated annually	Review and update contingency plan on a quarterly basis	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Productivity and Efficiency	Productivity	Sustained performance while increasing data throughput volume	Performance decreases as data throughput volume increases	Although timeliness goals will not increase, throughput capacity increases are designed into the sytem. Target is to accommodate increases dependent on outside sources of data with no impact on performance.	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Reduce the number of servers beyond recommended life cycle to 15%	42% of servers beyond recommended life cycle	27% increase in number of servers within recommended life cycle	
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	timliness of response to customer service requests	customer is contacted by appropriate staff resource within 50 minutes of initial customer request for service (non-emergency)	customer is contacted by appropriate staff resource within 40 minutes of initial customer request for service (non-emergency)	
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	IT Infrastructure Maintenance	IT Infrastructure Library (ITIL)	no ITIL	Fully deployed comprehensive ITIL by end of FY2009	

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.							
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Productivity and Efficiency	Efficiency	Sustained performance while increasing data throughput volume	Performance decreases as data throughput volume increases	Although timeliness goals will not increase, throughput capacity increases are designed into the sytem. Target is to accommodate increases dependent on outside sources of data with no impact on performance.	
2009		Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Reduce the number of servers beyond recommended life cycle to zero	30% of servers beyond recommended life cycle	All servers within recommended life cycle	

**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: 6.90
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:					
(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
NWS Telecommunication Gateway Backup System	Yes	No	No, because the system does not contain, process, or transmit personal identifying information.	No	The system is not a Privacy Act system of records.
NWS Telecommunication Gateway Replacement System	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	The system is not a Privacy Act system of records.

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

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

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

1. Is this investment included in your agency's target enterprise architecture? Yes
  - a. If "no," please explain why?
  
2. Is this investment included in the agency's EA Transition Strategy? Yes
  - a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. Weather & Water Sequencing Plan
  - b. If "no," please explain why?
  
3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture? No
  - a. If "yes," provide the name of the segment architecture as 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 Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunicati	Support Services	Communication	Computer / Telephony Integration			No Reuse	15

Exhibit 300: NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP) (Revision 15)

<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)
	ons centers.							
WWW_LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Communication	Event / News Management			No Reuse	10
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Security Management	Access Control			No Reuse	10
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Security Management	Audit Trail Capture and Analysis			No Reuse	12
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Security Management	Digital Signature Management			No Reuse	10
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Security Management	Identification and Authentication			No Reuse	13

Exhibit 300: NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP) (Revision 15)

<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)
	dissemination systems, and telecommunications centers.							
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Systems Management	License Management			No Reuse	10
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Systems Management	Remote Systems Control			No Reuse	10
WW-LFW Disseminate Critical Environmental Information	LFW disseminates, delivers, and makes available critical environmental information through the NOAA Weather Radio All Hazards Network, satellite dissemination systems, and telecommunications centers.	Support Services	Systems Management	System Resource Monitoring			No Reuse	10

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%.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard
Computer / Telephony Integration	Component Framework	Business Logic	Platform Independent
Computer / Telephony Integration	Component Framework	Business Logic	Platform Independent

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FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard
Computer / Telephony Integration	Component Framework	Data Management	Database Connectivity
Computer / Telephony Integration	Component Framework	Data Management	Database Connectivity
Computer / Telephony Integration	Component Framework	Presentation / Interface	Content Rendering
Remote Systems Control	Component Framework	Presentation / Interface	Dynamic Server-Side Display
Computer / Telephony Integration	Component Framework	Presentation / Interface	Static Display
Digital Signature Management	Component Framework	Security	Certificates / Digital Signatures
Digital Signature Management	Component Framework	Security	Certificates / Digital Signatures
Access Control	Component Framework	Security	Supporting Security Services
Computer / Telephony Integration	Service Access and Delivery	Access Channels	Other Electronic Channels
Computer / Telephony Integration	Service Access and Delivery	Access Channels	Other Electronic Channels
Computer / Telephony Integration	Service Access and Delivery	Access Channels	Other Electronic Channels
Computer / Telephony Integration	Service Access and Delivery	Access Channels	Web Browser
Computer / Telephony Integration	Service Access and Delivery	Access Channels	Web Browser
Event / News Management	Service Access and Delivery	Delivery Channels	Internet
Computer / Telephony Integration	Service Access and Delivery	Service Requirements	Hosting
System Resource Monitoring	Service Access and Delivery	Service Requirements	Legislative / Compliance
System Resource Monitoring	Service Access and Delivery	Service Requirements	Legislative / Compliance
System Resource Monitoring	Service Access and Delivery	Service Requirements	Legislative / Compliance
Computer / Telephony Integration	Service Access and Delivery	Service Transport	Service Transport
Computer / Telephony Integration	Service Access and Delivery	Service Transport	Service Transport
Computer / Telephony Integration	Service Access and Delivery	Service Transport	Service Transport
Computer / Telephony Integration	Service Access and Delivery	Service Transport	Service Transport
Computer / Telephony Integration	Service Interface and Integration	Integration	Middleware
Computer / Telephony Integration	Service Interface and Integration	Integration	Middleware
Computer / Telephony Integration	Service Platform and Infrastructure	Database / Storage	Database
Computer / Telephony Integration	Service Platform and Infrastructure	Delivery Servers	Web Servers
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)
Identification and Authentication	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Audit Trail Capture and Analysis	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals
Computer / Telephony	Service Platform and	Hardware / Infrastructure	Peripherals

Exhibit 300: NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP) (Revision 15)

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard
Integration	Infrastructure		
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)
Computer / Telephony Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)
System Resource Monitoring	Service Platform and Infrastructure	Software Engineering	Software Configuration Management
System Resource Monitoring	Service Platform and Infrastructure	Software Engineering	Test Management
System Resource Monitoring	Service Platform and Infrastructure	Software Engineering	Test Management
System Resource Monitoring	Service Platform and Infrastructure	Software Engineering	Test Management
License Management	Service Platform and Infrastructure	Support Platforms	Platform Independent

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)? No

a. If "yes," please describe.

**Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)**

**Section A: Risk Management (All Capital Assets)**

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

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

- 1. Does the investment have a Risk Management Plan? Yes
  - a. If "yes," what is the date of the plan? 9/19/2007
  - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? Yes
  - c. If "yes," describe any significant changes:  
Plan updated to reflect current risks to completing the BTG implementation
- 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. 2/6/2007
  - b. If "yes," what were the results?

The NWSTG Operational Analysis (OA) for the calendar year 2006 reported the successful implementation of the NWSTG Legacy Replacement System and the successful operational testing of the NWSTG Backup System. Specifically, the OA reported that all NWSTG Performance Goals had been either met or exceeded as of December 31, 2006. The OA acknowledged that more metric gathering tools were required to provide comprehensive performance monitoring and analysis and that additional disk space was required to facilitate historical trend analysis. The NWSTG 2006 Operational Analysis is available in the Resource Library.

- 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:

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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)
01	NWSTG Legacy System	1/29/2006	\$31.008	6/20/2006	\$34.772	-142	\$-3.764