

**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: 8/24/2007
2. Agency: Department of Transportation
3. Bureau: Pipeline Hazardous Material Safety Administration
4. Name of this Capital Asset: PHMSA018: National Pipeline Mapping System (NPMS)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 021-50-01-19-01-1080-00
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? FY2004
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 National Pipeline Mapping System (NPMS) is a Geographic Information System (GIS) that shows the location of hazardous liquid and gas transmission pipelines and liquefied natural gas (LNG) facilities under the jurisdiction of PHMSA. Prior to the development of the NPMS, PHMSA relied upon proprietary pipeline data that was costly, incomplete, and inaccurate, and which limited PHMSA's ability to share pipeline spatial information with customers. The NPMS allows PHMSA staff and other customers to quickly and accurately identify specific pipelines, operators, commodities, diameter, and other attributes, functioning as a key tool in PHMSA's risk-based, data-driven environment. NPMS users can overlay pipelines with highly populated areas, environmentally sensitive areas, drinking water resources, aerial photography, topographic data and roads to gain a better understanding of the relationships between pipelines and the geographic areas they traverse. Having the ability to view these relationships provides an unmatched ability for PHMSA to ensure the safe, reliable, and environmentally sound operation of the nation's pipeline transportation system.
- During OMB's PART Review of the Pipeline Safety Program, it was noted that NPMS could help PHMSA clearly identify High Consequence Areas (HCAs) and possible impacts from an incident in these areas. Since the PART, 87% of the HCAs have been clearly identified in NPMS. Federal and state inspectors use NPMS data during inspections to see if pipeline operators have clearly defined their HCAs and if they are in compliance with appropriate standards.
- Because it shows spatial relationships, NPMS provides information that cannot be derived from simple data mining. For example, when a natural disaster such as a hurricane or tornado is detected, NPMS is used to identify all pipelines that may be in harm's way. With this information, PHMSA staff and first responders are able to quickly identify and contact all operators that may be at risk. In the past, PHMSA would react to incidents after they occurred. Over time, PHMSA has worked to become proactive in identifying possible problems before they occur. In summary, NPMS is critical to DOT and PHMSA because it helps Federal and State inspectors to predict upcoming damage and to identify HCAs, and potentially problematic areas.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
- a. If "yes," what was the date of this approval? 7/31/2007
10. Did the Project Manager review this Exhibit? Yes
11. Contact information of Project Manager?
- Name Nelson, Amy
- Phone Number *Redacted*
- Email amy.nelson@dot.gov
- a. What is the current FAC-P/PM certification level of the project/program manager? TBD
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)

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? No

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?)

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

a. If "yes," does this investment address a weakness found during a PART review? Yes

b. If "yes," what is the name of the PARTed program?

c. If "yes," what rating did the PART receive? 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 1

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 FFMIA compliance area?

1. If "yes," which compliance area: N/A

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	4.000000
Software	4.000000
Services	92.000000
Other	0.000000

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

22. Contact information of individual responsible for privacy related questions:

Name Vines, T'Mia

Phone Number *Redacted*

Title Privacy Officer  
 E-mail t'mia.vines@dot.gov

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas? No

**Section B: Summary of Spending (All Capital Assets)**

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)									
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	PY-1 and earlier	PY 2007	CY 2008	BY 2009	BY+1 2010	BY+2 2011	BY+3 2012	BY+4 and beyond	Total
Planning:	0	0	0	0	redacted	redacted	redacted	redacted	redacted
Acquisition:	0	0	0	0	redacted	redacted	redacted	redacted	redacted
Subtotal Planning & Acquisition:	0	0	0	0	redacted	redacted	redacted	redacted	redacted
Operations & Maintenance:	4.675	0.8	0.824	0.848	redacted	redacted	redacted	redacted	redacted
TOTAL:	4.675	0.8	0.824	0.848	redacted	redacted	redacted	redacted	redacted
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	1.2	0.192	0.197	0.203	redacted	redacted	redacted	redacted	redacted
Number of FTE represented by Costs:	9	2	2	2	redacted	redacted	redacted	redacted	redacted

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's? No

a. If "yes," How many and in what year?

3. If the summary of spending has changed from the FY2008 President's budget request, briefly explain those changes:  
 Redacted

**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: PHMSA018: National Pipeline Mapping System (NPMS) (Revision 11)

Contracts/Task Orders Table: <span style="float: right;">* Costs in millions</span>																
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)
redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

This investment is a steady-state investment; therefore, operational analysis is used by the project manager to measure its effectiveness and if the costs are within expected lifecycle cost estimates.

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why:

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

a. If "yes," what is the date? 8/24/2006

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

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
2006	Safety	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the average time required for the NPMS to process and accept/reject data requests.	The NPMS currently takes an average of 4 days to process and accept/reject data requests.	Reduce the average time required for the NPMS to process and accept/reject data requests to 3.5 days.	Goal achieved: data requests processed in 3.5 business days.
2006	Environmental Stewardship	Mission and Business Results	Environmental Management	Pollution Prevention and Control	Maintain average number of new users of NPMS internet-based mapping application to help reduce the likelihood of a hazardous liquid spill (pollution prevention).	It is anticipated that as of 09/30/06, 35 new users will utilize NPMS data per month in FY06.	Maintain average number of new users at 35 per month of the NPMS internet-based mapping application.	Goal achieved: target of 35 new users per month was met.
2006	Safety	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease the time required to process the annual data submissions from pipeline operators, which will provide inspectors and first responders with the most accurate information.	NPMS National Repository takes 54 days to process a data submission.	Decrease the time required to process annual data submissions by 10% annually.	Goal achieved: target of 48.6 days submission processing time was met.
2006	Organizational Excellence	Technology	Reliability and Availability	Availability	Maintain operational availability of all NPMS Internet-based applications.	In FY 05, NPMS maintained 98% availability.	Ensure all NPMS Internet-based applications maintain an operational availability of 98% (total down time not to exceed 175 hours). Applications available 24	Goal achieved: total down time did not exceed 175 hours.

Exhibit 300: PHMSA018: National Pipeline Mapping System (NPMS) (Revision 11)

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2007	Safety	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the average time required for the NPMS to process and accept/reject data requests.	It is anticipated that as of 09/30/06, the NPMS will take approximately 3.5 days to accept/reject data requests.	hrs/day. Reduce the average time required for the NPMS to process and accept/reject data requests to 3 days.	Final results to be determined 9/30/07.
2007	Environmental Stewardship	Mission and Business Results	Environmental Management	Pollution Prevention and Control	Maintain average number of new users of NPMS internet-based mapping application to help reduce the likelihood of a hazardous liquid spill (pollution prevention).	It is anticipated that as of 09/30/06, 35 new users will utilize NPMS data per month in FY06.	Maintain average number of new users at 35 per month of the NPMS internet-based mapping application.	Final results to be determined 9/30/07.
2007	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase geospatial data on transmission pipeline incidents and accidents that occurred in the previous fiscal year	0% of transmission pipeline incidents or accidents that occurred in FY06 are available in NPMS	Increase the geospatial data on transmission pipeline incidents and accidents that occurred in previous fiscal year by 95%	246 transmission pipeline incidents/accidents have been mapped as of 7/24/2007 which is x%.
2007	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase supplemental geospatial data available in NPMS of serious transmission pipeline incidents/accidents that occurred in 1998 to expand historical record of pipeline	In FY 06, 38% of available supplemental geospatial data on historical serious transmission pipeline incidents or accidents was viewable in NPMS	Increase supplemental geospatial data available on serious transmission pipeline incidents or accidents by 3% (by adding data from 1998)	Goal nearly met on 7/24/2007. Only 2 historical transmission pipeline incidents/accidents from 1998 have not been added to the supplemental data available in NPMS.
2007	Safety	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease the time required to process the annual data submissions by pipeline operators.	It is anticipated that in FY06, it will take the NPMS National Repository approximately 49 days to process a data submission.	Decrease the time required to process annual data submissions by 10% annually.	Final results to be determined 9/30/07.
2007	Organizational Excellence	Technology	Reliability and Availability	Availability	Increase availability of NPMS Internet-based applications. Internet applications are available 24 hours/day.	It is anticipated that as of 09/30/06, the NPMS Internet-based applications will have an availability of 98%.	Increase NPMS Internet-based applications availability to 98.25% (total down time not to exceed 153 hours) by decreasing total down time by 22 hours.	Final results to be determined 9/30/07.
2008	Safety	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the average time required for the NPMS to process and accept/reject data requests.	It is anticipated that in FY07, the NPMS will take approximately 3 days to accept/reject data requests.	Reduce the average time required for the NPMS to process and accept/reject data requests to 2.75 days.	Final results to be determined 9/30/08.
2008	Environmental Stewardship	Mission and Business Results	Environmental Management	Pollution Prevention and Control	Maintain average number of new users of NPMS internet-based mapping application to help reduce the likelihood of a hazardous liquid spill (pollution prevention).	It is anticipated that 35 new users will utilize NPMS data per month in FY07.	Increase average number of new users of the NPMS internet-based mapping application by 35 people per month.	Final results to be determined 9/30/08.
2008	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase supplemental geospatial data	In FY 07, it is anticipated that 41% of available	Increase supplemental geospatial data	Final results will be available in Q4 FY 08.

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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
					available in NPMS of serious transmission pipeline incidents/accidents that occurred in 1997 to expand historical record of pipeline	supplemental geospatial data on historical serious transmission pipeline incidents or accidents was viewable in NPMS	available on serious transmission pipeline incidents or accidents by 2% (by adding data from 1997)	
2008	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase geospatial data on transmission pipeline incidents and accidents that occurred in the previous fiscal year	0% of transmission pipeline incidents or accidents that occurred in FY07 are available in NPMS	Increase the geospatial data on transmission pipeline incidents and accidents that occurred in previous fiscal year by 95%	Final results will be determined in Q4 FY 08.
2008	Safety	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease the time required to process the annual data submissions by pipeline operators.	It is anticipated that in FY07, it will take the NPMS National Repository approximately 44 days to process a data submission.	Decrease the time required to process annual data submissions by 10% annually.	Final results to be determined 9/30/08.
2008	Organizational Excellence	Technology	Reliability and Availability	Availability	Maintain 98.25% availability of NPMS Internet-based applications. Internet applications are available 24 hours/day.	It is anticipated that the NPMS Internet-based applications will have an availability of 98.25%.	Maintain NPMS Internet-based applications availability at 98.25% (total down time not to exceed 153 hours) by maintaining current standard.	Final results to be determined 9/30/08.
2009	Safety	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the average time required for the NPMS to process and accept/reject data requests.	It is anticipated that in FY08, the NPMS will take approximately 2.75 days to accept/reject data requests.	Reduce the average time required for the NPMS to process and accept/reject data requests to 2.5 days.	Final results to be determined 9/30/09.
2009	Environmental Stewardship	Mission and Business Results	Environmental Management	Pollution Prevention and Control	Maintain number of new users of NPMS internet-based mapping application to help reduce the likelihood of a hazardous liquid spill (pollution prevention).	It is anticipated that 35 new users will utilize NPMS data per month in FY08.	Increase average number of new users of the NPMS internet-based mapping application by 35 people per month.	Final results to be determined 9/30/09.
2009	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase identification of top 10% of problematic pipeline segments viewable in NPMS for previous fiscal year	Currently there are no problematic segments of pipeline identified in NPMS	Increase identification of problematic pipeline segments viewable in NPMS for previous fiscal year by 10%	Actual results will be available in Q4 FY 09
2009	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase supplemental geospatial data available in NPMS of serious transmission pipeline incidents/accidents that occurred in 1996 to expand historical record of pipeline	In FY08, it is anticipated that 43% of available supplemental geospatial data on historical serious transmission pipeline incidents or accidents was viewable in NPMS	Increase supplemental geospatial data available on serious transmission pipeline incidents or accidents by 2% (by adding data from 1996)	Final results will be available in Q4 FY 09.
2009	Safety	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease the time required to process the annual data	It is anticipated that in FY08, it will take the NPMS National	Decrease the time required to process annual data	Final results to be determined 9/30/09.

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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
					submissions by pipeline operators.	Repository approximately 40 days to process a data submission.	submissions by 10% annually.	
2010	Safety	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the average time required for the NPMS to process and accept/reject data requests.	It is anticipated that in FY09, the NPMS will take approximately 2.5 days to accept/reject data requests.	Reduce the average time required for the NPMS to process and accept/reject data requests to 2.25 days.	Actual results will be available in Q4 FY 10
2010	Environmental Stewardship	Mission and Business Results	Environmental Management	Pollution Prevention and Control	Maintain number of new users of NPMS internet-based mapping application to help reduce the likelihood of a hazardous liquid spill (pollution prevention).	It is anticipated that 35 new users will utilize NPMS data per month in FY09.	Increase average number of new users of the NPMS internet-based mapping application by 35 people per month.	Actual results will be available in Q4 FY 10
2010	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase geospatial data on transmission pipeline incidents and accidents that occurred in the previous fiscal year	0% of transmission pipeline incidents or accidents that occurred in FY09 are available in NPMS	Increase the geospatial data on transmission pipeline incidents and accidents that occurred in previous fiscal year by 95%	Final results will be determined in Q4 FY 10.
2010	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase collection of geospatial data on low stress pipelines that fall under PHMSA jurisdiction	In FY 09, it is anticipated that PHMSA will have 95% of geospatial data collected on low stress pipelines.	Increase the collection of geospatial data on low stress pipelines by 4% (for a total of 99% collected)	Final results will be determined in Q4 FY 010.
2010	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase supplemental geospatial data available in NPMS of serious transmission pipeline incidents/accidents that occurred in 1995 to expand historical record of pipeline	In FY08, it is anticipated that 45% of available supplemental geospatial data on historical serious transmission pipeline incidents or accidents was viewable in NPMS	Increase supplemental geospatial data available on serious transmission pipeline incidents or accidents by 2% (by adding data from 1995)	Final results will be determined in Q4 FY 010.
2010	Safety	Mission and Business Results	Transportation	Ground Transportation	Increase identification of top 10% of problematic pipeline segments viewable in NPMS for previous fiscal year	In FY 09, the top 10% of problematic pipeline for FY08 was identified.	Increase identification of problematic pipeline segments viewable in NPMS for previous fiscal year by 10%	Actual results will be available in Q4 FY 10
2010	Safety	Processes and Activities	Productivity and Efficiency	Efficiency	Decrease the time required to process the annual data submissions by pipeline operators.	It is anticipated that in FY09, it will take the NPMS National Repository approximately 36 days to process a data submission.	Decrease the time required to process annual data submissions by 10% annually.	Actual results will be available in Q4 FY 10
2010	Organizational Excellence	Technology	Reliability and Availability	Availability	Maintain 98.25% availability of NPMS Internet-based applications. Internet applications are available 24 hours/day.	It is anticipated that the NPMS Internet-based applications will have an availability of 98.25%.	Maintain NPMS Internet-based applications availability at 98.25% (total down time not to exceed 153 hours) by maintaining current standard.	Actual results will be available in Q4 FY 10



**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: 9.00
- 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

3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):			
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned C&A update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)	Has C&A been Completed, using NIST 800-37? (Y/N)	Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Complete(d): Security Control Testing	Date the contingency plan tested
redacted	redacted	redacted	redacted	redacted	redacted	redacted	redacted

- 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
- 6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? Redacted
  - a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.

7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above?  
*Redacted*

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
National Pipeline Mapping System (NPMS)	No	Yes	<a href="https://www.npms.phmsa.dot.gov/privacy.html">https://www.npms.phmsa.dot.gov/privacy.html</a>	No	No, because the system is not a Privacy Act system of records.

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

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

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

1. Is this investment included in your agency's target enterprise architecture? Yes

a. If "no," please explain why?

To effectively balance the development and management of the Transition Strategy, the first version was scoped to include those investments with development activities (non O&M). Future revisions are set to expand upon that scope and include both steady state (O&M) investments and expanded linkages to the NAS Architecture.

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. PHMSA018: National Pipeline Mapping System

b. If "no," please explain why?

For the first version of the DOT Transition Strategy provided to OMB in February 2006, the Department chose to focus on those areas where new development was taking place, placing an emphasis on the transitional aspects of the Department. With that in mind, those investments existing in O&M (Steady State), although integral parts of the Department's Enterprise Architecture, were not included within the scope of the initial release of the Transition Strategy. It is intended that those investments, such as the National Pipeline Mapping System (NPMS) will be included in subsequent releases of the Department's Transition Strategy.

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)
Programming and Systems Administration	Maintain secure offsite servers.	Back Office Services	Data Management	Data Warehouse			No Reuse	3
QA/QC	Independent subcontractor provides quality assurance of geospatial data.	Back Office Services	Data Management	Extraction and Transformation			No Reuse	6
Onsite Support	Provide geospatial products to support agency decisions.	Business Analytical Services	Business Intelligence	Decision Support and Planning			No Reuse	31
Programming and Systems Administration	Support online tool to view, query, and print geospatial data.	Business Analytical Services	Visualization	Mapping / Geospatial / Elevation / GPS			No Reuse	5
Customer Support	Provide phone and e-mail support to customers on a	Customer Services	Customer Initiated Assistance	Assistance Request			No Reuse	9

Exhibit 300: PHMSA018: National Pipeline Mapping System (NPMS) (Revision 11)

**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)
	daily basis.							
Customer Support	Provide electronic support to customers in the form of help manuals and audio tutorials.	Customer Services	Customer Initiated Assistance	Online Tutorials			No Reuse	2
Repository Operations	Process raw geospatial data so that data can be merged with national dataset.	Digital Asset Services	Knowledge Management	Categorization			No Reuse	27
Repository Operations	Permit qualified parties to view or download secure data.	Digital Asset Services	Knowledge Management	Information Retrieval			No Reuse	6
Repository Operations	Collect data in digital, hard-copy, and tabular format.	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	3
Programming and Systems Administration	Maintain secure viewer application for geospatial data.	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	5
Repository Operations	Monitor operator submissions and compliance.	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	2
Programming and Systems Administration	Password-protected website allows only approved users.	Support Services	Security Management	Identification and Authentication			No Reuse	1

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)
Information Retrieval	Component Framework	Data Management	Database Connectivity	Redacted
Categorization	Component Framework	Data Management	Database Connectivity	Redacted
Process Tracking	Component Framework	Data Management	Reporting and Analysis	Redacted
Mapping / Geospatial / Elevation / GPS	Component Framework	Presentation / Interface	Dynamic Server-Side Display	Redacted
Assistance Request	Service Access and Delivery	Access Channels	Collaboration / Communications	Redacted
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Web Browser	Redacted
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Access Channels	Web Browser	Redacted
Online Tutorials	Service Access and Delivery	Access Channels	Web Browser	Redacted
Online Tutorials	Service Access and Delivery	Delivery Channels	Internet	Redacted
Identification and Authentication	Service Access and Delivery	Service Requirements	Legislative / Compliance	Redacted
Decision Support and Planning	Service Interface and Integration	Integration	Enterprise Application Integration	Redacted
Categorization	Service Interface and	Interoperability	Data Format / Classification	Redacted

<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>
	Integration			
Knowledge Capture	Service Interface and Integration	Interoperability	Data Format / Classification	Redacted
Extraction and Transformation	Service Interface and Integration	Interoperability	Data Transformation	Redacted
Extraction and Transformation	Service Interface and Integration	Interoperability	Data Types / Validation	Redacted
Data Warehouse	Service Platform and Infrastructure	Database / Storage	Database	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Delivery Servers	Application Servers	Redacted
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Delivery Servers	Application Servers	Redacted
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Delivery Servers	Web Servers	Redacted

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.

NPMS uses Geospatial One-Stop (GOS) to post information about metadata available and whom to contact to gain access to the data. NPMS may also use the GOS Marketplace to find partners when acquiring spatial data.

<b>Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)</b>
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**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? 5/16/2007
  - 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. 5/16/2007
  - b. If "yes," what were the results?

Performance goals and cost goals are being met, and customer satisfaction is high. The cost variance is 0 and schedule variance for NPMS is -4.45% as of July 3, 2007. Although the SV is negative, the project is not behind schedule, rather the variance represents an unpredictable fluctuation in work from month to month (which makes estimating planned values difficult), but the work load evens out over a fiscal year. The NPMS project team must process an unknown number of data requests and data submissions per year. This number varies due to the number of operators (could be more or less than previous year) that are required to submit data annually, and the number of serious incidents and/or natural disasters that occur over the course of a year. The NPMS directly supports PHMSA's mission by providing a geographic visualization and analysis tool for pipeline facility data to meet the needs of various stakeholders. The NPMS supports PHMSA's safety and environmental protection mission and strategic goals by providing an Internet mapping tool and statistical data to help PHMSA better identify risks, track effectiveness of proposed solutions, allocate resources, and meet the information needs of customers.

It is possible that budget issues may impact customer satisfaction in the future. Those issues are described in the Risk Management section. In brief, the NPMS project is currently running over budget, and carry-over money is being used to fund the difference. Carry-over money is not expected to last past FY08. The NPMS project team is prepared to operate the system at its budgeted amount in FY 09 and beyond if necessary. PHMSA has developed an inspection integration team to look at ways to better integrate the pipeline data and expanding the use of geospatial data to improve mission performance. As a result of this analysis, it is likely NPMS data structure would be modified to allow the data to be integrated with other PHMSA systems more easily. If this is found to be the case, data restructuring may provide collaboration opportunities that will reduce project costs, since data maintenance and processing tasks could be shared across PHMSA systems.

- 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:





