

**JMD Integrated Wireless Network (IWN)**

**Exhibit 300: Part I: Summary Information and Justification (All Capital Assets)**

**I.A. Overview**

<b>1. Date of Submission:</b>	9/1/2006
<b>2. Agency:</b>	Department of Justice
<b>3. Bureau:</b>	Justice Management Division
<b>4. Name of this Capital Asset:</b>	JMD Integrated Wireless Network (IWN)
<b>5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)</b>	011-03-02-00-01-1640-00
<b>6. What kind of investment will this be in FY2008? (Please NOTE: Investments moving to O&amp;M ONLY in FY2008, with Planning/Acquisition activities prior to FY2008 should not select O&amp;M. These investments should indicate their current status.)</b>	Mixed Life Cycle
<b>7. What was the first budget year this investment was submitted to OMB?</b>	FY2001 or earlier

**8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:**

The Integrated Wireless Network (IWN) is a collaborative effort by the Departments of Justice, Homeland Security, and the Treasury to provide a consolidated, nationwide federal wireless communications service that replaces stovepipe stand alone component systems, and supports law enforcement, first responder, and homeland security requirements with integrated communications services in a wireless environment. The IWN will implement solutions to provide federal agency interoperability with appropriate links to state, local, and tribal public safety, and homeland security entities. Justice, Treasury and DHS personnel represent the majority of law enforcement personnel within the Federal Government and are responsible for fulfilling numerous duties related to national law enforcement, protective missions, and homeland security missions. These operations are made more effective, efficient, and safe through the use of tactical communications. Unfortunately, current legacy wideband networks do not have sufficient communications capabilities to support the successful accomplishment of core activities. Many of the existing systems are 15 years old or older and are increasingly unreliable and expensive to maintain. Furthermore, varying tactical communications systems exist between field offices and organizations, preventing basic interoperability and presenting logistical issues during the course of routine enforcement activities. This incompatibility of systems makes communications interoperability difficult to achieve. To meet these challenges, the current IWN design is based on a very high frequency (VHF), Project 25 trunked system utilizing a packet switched Internet Protocol (IP) backbone. Additionally, the system design provides for encrypted communications (Advanced Encryption Standard [AES]). The network is presently based on land mobile radio (LMR) services, and may be complemented by commercial wireless service solutions. The IWN will also be designed to facilitate interoperability with other federal, state and local public safety partners.

<b>9. Did the Agency's Executive/Investment Committee approve</b>	Yes
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<b>this request?</b>	
<b>a. If "yes," what was the date of this approval?</b>	5/12/2006
<b>10. Did the Project Manager review this Exhibit?</b>	Yes
<b>11. Contact information of Project Manager?</b>	
<b>Name</b>	
Oden, Claude	
<b>Phone Number</b>	703-322-1660
<b>Email</b>	claudio.m.oden@usdoj.gov
<b>12. Has the agency developed and/or promoted cost effective, energy efficient and environmentally sustainable techniques or practices for this project.</b>	No
<b>a. Will this investment include electronic assets (including computers)?</b>	Yes
<b>b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)</b>	No
<b>1. If "yes," is an ESPC or UESC being used to help fund this investment?</b>	
<b>2. If "yes," will this investment meet sustainable design principles?</b>	
<b>3. If "yes," is it designed to be 30% more energy efficient than relevant code?</b>	
<b>13. Does this investment support one of the PMA initiatives?</b>	Yes
<b>If "yes," check all that apply:</b>	Expanded E-Government
<b>13a. Briefly describe how this asset directly supports the identified initiative(s)?</b>	IWN serves as a program within the Federal government to enable local, tribal, State, and Federal Law Enforcement agencies to improve Law Enforcement response through more effective and efficient interoperable wireless communications.
<b>14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit <a href="http://www.whitehouse.gov/omb/part">www.whitehouse.gov/omb/part</a>.)</b>	No

a. If "yes," does this investment address a weakness found during the PART review? No

b. If "yes," what is the name of the PART program assessed by OMB's Program Assessment Rating Tool?

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

15. Is this investment for information technology? Yes

If the answer to Question: "Is this investment for information technology?" was "Yes," complete this sub-section. If the answer is "No," do not answer this sub-section.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 3

17. What project management qualifications does the Project Manager have? (per CIO Council PM Guidance): (1) Project manager has been validated as qualified for this investment

18. Is this investment identified as "high risk" on the Q4 - FY 2006 agency high risk report (per OMB's "high risk" memo)? Yes

19. Is this a financial management system? No

a. If "yes," does this investment address a FFMI A compliance area? No

1. If "yes," which compliance area:

2. If "no," what does it address?

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2008 funding request for the following? (This should total 100%)

Hardware 80

Software 10

Services 10

Other 0

21. If this project produces information dissemination products for the public, are these products published to the N/A

Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?

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

**Name**

Hitch, Van

**Phone Number**

202-514-0507

**Title**

Chief Information Officer

**E-mail**

Vance.Hitch@usdoj.gov

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

No

**I.B. Summary of Funding**

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 2006	CY 2007	BY 2008	BY + 1 2009	BY + 2 2010	BY + 3 2011	BY + 4 and Beyond	Total
Planning									
Budgetary Resources	27.607	6.183	7.948	4.487					
Acquisition									
Budgetary Resources	224.493	24.762	21.569	4.353					
Subtotal Planning & Acquisition									
Budgetary Resources	252.1	30.945	29.517	8.84					

Operations & Maintenance									
Budgetary Resources	442.231	56.005	57.6	70.213					
TOTAL									
Budgetary Resources	694.331	86.95	87.117	79.053					
Government FTE Costs									
Budgetary Resources	6.671	1.901	2.1	2.3					
Number of FTE represented by Costs:	24	16	19	25					

**Note: For the cross-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?** Yes

a. If "yes," How many and in what year? 11 in 2008

**3. If the summary of spending has changed from the FY2007 President's budget request, briefly explain those changes:**

**I.C. Acquisition/Contract Strategy**

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

**Contracts/Task Orders Table:**

[Contracts/Task Orders Table](#)

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

The following contracts do not require EVM as part of the contract for the following reasons: Contract 1) This contract/task order will expire in Nov. 06, all EVM for this contract has been managed by the PMO. Contract 3) This contract/task order is part of the SS funds and is for PM support (therefore EVM contract provisions are not required). Contract 6) This contract/task order will expire in Nov. 06, all EVM for this contract has been managed by the PMO. Contract 7) This contract/task order expired in Sep. 06, was part of the SS funds and was for PM support (therefore EVM contract provisions are not required). Contract 8) This contract/task order expired in Sep. 06, all EVM for this contract was managed by the PMO. Contract 9) This contract/task order will expire in Nov. 06, all EVM for this contract has been managed by the PMO. Contract 10) This contract/task order expired in Sep. 06, was part of the SS funds and was for PM support (therefore EVM contract provisions are not required). Contract 11) This contract/task order expired in Sep. 06, was part of the SS funds and was for PM support (therefore EVM contract provisions are not required).

support (therefore EVM contract provisions are not required). All future DME contracts/task orders will be requiring the contractor to provide ANSI/EIA 748 compliant EVM data and reports.

<b>3. Do the contracts ensure Section 508 compliance?</b>	N/A
<b>a. Explain why:</b>	
<b>4. Is there an acquisition plan which has been approved in accordance with agency requirements?</b>	Yes
<b>a. If "yes," what is the date?</b>	9/1/2004
<b>b. If "no," will an acquisition plan be developed?</b>	
<b>1. If "no," briefly explain why:</b>	

**I.D. Performance Information**

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 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 Table 1 below for reporting performance goals and measures for all non-IT investments and for existing IT investments that were initiated prior to FY 2005. The table can be extended to include measures for years beyond FY 2006.

Performance Information Table 1:					
Fiscal Year	Strategic Goal(s) Supported	Performance Measure	Actual/baseline (from Previous Year)	Planned Performance Metric (Target)	Performance Metric Results (Actual)
2006	Goal 1 & 2: Migrating users onto the IWN enables effective communication and information sharing which is crucial for law enforcement personnel who are working to prevent terrorism,	Percentage of DOJ law enforcement personnel migrated to IWN	1%	1.6%	1.6

	promote the nation's security and enforce Federal laws.				
2006	Goal 1 & 2: Migrating users onto the IWN enables effective communication and information sharing which is crucial for law enforcement personnel who are working to prevent terrorism, promote the nation's security and enforce Federal laws.	Number of DOJ law enforcement personnel migrated to the IWN	450	575	450
2006	Goal 1 & 2: Implementing additional radio sites increases IWN coverage thereby enabling law enforcement personnel to effectively communicate while working to prevent terrorism, promote the nation's security and enforce Federal laws.	Number of radio sites operational	13	17	17
2006	Goal 1 & 2: Site civil design is the architectural backbone of the IWN which enables effective communication for law enforcement personnel who are working to prevent terrorism, promote the nation's security and enforce Federal laws.	Number of sites with civil design completed.	15	29	29

All new IT investments initiated for FY 2005 and beyond must use Table 2 and are required to use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Please use Table 2 and the PRM to identify the performance information pertaining to this major IT investment. 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 at least four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov).

Performance Information Table 2:

Fiscal Year	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
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**I.E. Security and Privacy**

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).

All systems supporting and/or part of this investment should be included in the tables below, inclusive of both agency owned systems and contractor systems. For IT investments under development, security and privacy planning must proceed in parallel with the development of the system/s to ensure IT security and privacy requirements and costs are identified and incorporated into the overall lifecycle of the system/s.

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:	5
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 - Security Table:			
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Planned or Actual C&A Completion Date
IWN Seattle Phase II	Contractor and Government	3/31/2008	3/31/2008

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level	Has C&A been Completed, using NIST 800-37?	Date C&A Complete	What standards were used for the Security Controls tests?	Date Complete(d): Security Control Testing	Date the contingency plan tested
IWN San Diego	Contractor and Government		Yes	6/30/2004	FIPS 200 / NIST 800-53	6/1/2006	4/5/2006
Iwn Seattle	Contractor and Government		Yes	12/9/2004	FIPS 200 / NIST 800-53	5/15/2006	4/5/2006

**5. Have any weaknesses related to any of the systems part of or supporting this investment been identified by the agency or IG?**

**a. If "yes," have those weaknesses been incorporated agency's plan of action and milestone process?**

**6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses?**

**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, validated by the agency for the contractor systems above?**

All contractors performing security functions are required to maintain a Top Secret clearance. Additionally, government personnel are responsible for managing the security of the system and overseeing contractor performance. Contractor security procedures are monitored by a change control board. For any changes, the contractor's must submit a configuration change request (CCR) to be approved by the board . To verify and validate, an independent security team conducts regular vulnerability scans and security assessments annually or when a major change to the system occurs.

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

<b>Name of System</b>	<b>Is this a new system?</b>	<b>Is there a Privacy Impact Assessment (PIA) that covers this system?</b>	<b>Is the PIA available to the public?</b>	<b>Is a System of Records Notice (SORN) required for this system?</b>	<b>Was a new or amended SORN published in FY 06?</b>
IWN San Diego	No	No, because the system does not contain, process, or transmit personal identifying information.	No, because the PIA has not been prepared.	No	No, because the system is not a Privacy Act system of records.
IWN Seattle	No	No, because the system does not contain, process, or transmit personal identifying information.	No, because the PIA has not been prepared.	No	No, because the system is not a Privacy Act system of records.

**I.F. Enterprise Architecture (EA)**

**In order to successfully address this area of the business case and capital asset plan you must ensure the investment is included in the agency's EA and Capital Planning and Investment Control (CPIC) process, and is mapped to and supports the FEA. You must also ensure the business case demonstrates 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. Integrated Wireless Network (IWN)

b. If "no," please explain why?

**3. Service 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.whitehouse.gov/omb/egov/>.

Agency Component Name	Agency Component Description	Service Domain	FEA SRM Service Type	FEA SRM Component	FEA Service Component Reused Name	FEA Service Component Reused UPI	Internal or External Reuse?	BY Funding Percentage
Back Office Service	IWN will integrate separate communications systems to a common infrastructure	Back Office Services	Development and Integration	Enterprise Application Integration			Internal	10
Back Office Service	IWN network will upgrade and modernize the current LMR system and ensure backwards compatibility with legacy systems.	Back Office Services	Development and Integration	Legacy Integration			Internal	10
Support Services	IWN will support audio communications sessions for DOJ personnel who are geographically dispersed	Support Services	Communication	Audio Conferencing			Internal	20
Support Services	IWN will support tactical communions for all components of DOJ	Support Services	Communication	Real Time / Chat			Internal	10
Support Services	IWN will support the tactical communication capabilities that support audio communications sessions among people who are	Support Services	Communication	Voice Communications			Internal	10

	geographically dispersed.							
Support Services	IWN will ensure the security/privacy of voice/ data carried on the network through AES encryption and will be compliant with the DOJ Identity Management Architecture.	Support Services	Security Management	Cryptography			Internal	10
Support Services	IWN will support authorized access and control to tactical communications through over the air rekey.	Support Services	Security Management	Identification and Authentication			Internal	10
Support Services	IWN will ensure intrusion prevention through C&A of wireless systems.	Support Services	Security Management	Intrusion Prevention			Internal	10
Support Services	IWN will support the monitoring, administration and usage of applications and enterprise systems from locations outside of the immediate IWN environment.	Support Services	Systems Management	Remote Systems Control			Internal	10

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

**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.**

**'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.**

**Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the funding level transferred to another agency to pay for the service.**

#### 4. 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	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Intrusion Prevention	Component Framework	Security	Supporting Security Services	AES
Cryptography	Component Framework	Security	Supporting Security Services	AES
Identification and Authentication	Component Framework	Security	Supporting Security Services	AES
Enterprise Application Integration	Service Interface and Integration	Integration	Enterprise Application Integration	IP
Audio Conferencing	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	P25
Real Time / Chat	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	P25
Voice Communications	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	P25
Remote Systems Control	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	P25
Legacy Integration	Service Platform and Infrastructure	Support Platforms	Wireless / Mobile	P25

**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**

**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.**

**5. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?** No

**a. If "yes," please describe.**

**6. Does this investment provide the public with access to a government automated information system?** No

**a. If "yes," does customer access require specific software (e.g., a specific web browser version)?**

**1. If "yes," provide the specific product name(s) and**

version number(s) of the required software and the date when the public will be able to access this investment by any software (i.e. to ensure equitable and timely access of government information and services).

**Exhibit 300: Part II: Planning, Acquisition and Performance Information**

**II.A. Alternatives Analysis**

Part II should be completed only for investments identified as "Planning" or "Full Acquisition," or "Mixed Life-Cycle" investments in response to Question 6 in Part I, Section A above.

In selecting the best capital asset, you should identify and consider at least three viable alternatives, in addition to the current baseline, i.e., the status quo. Use OMB Circular A- 94 for all investments, and the Clinger Cohen Act of 1996 for IT investments, to determine the criteria you should use in your Benefit/Cost Analysis.

- 1. Did you conduct an alternatives analysis for this project? Yes
- a. If "yes," provide the date the analysis was completed? 9/14/2004
- b. If "no," what is the anticipated date this analysis will be completed?
- c. If no analysis is planned, please briefly explain why:

**2. Alternative Analysis Results:**

Use the results of your alternatives analysis to complete the following table:

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
True	2. IWN System Integrator Vendor Lockheed Martin	Lockheed Martin was down selected and awarded ID/IQ contract by the Department of Justice that provide for Task Orders to be issued for the competitive design of the First Service Area. At the end of this competition, one systems integrator will be selected to		0

		implement and deploy the Integrated Wireless Network's nationwide communications system.		
True	3. IWN System Integrator Vendor General Dynamics	General Dynamics was down selected and awarded ID/IQ contract by the Department of Justice that provide for Task Orders to be issued for the competitive design of the First Service Area. At the end of this competition, one systems integrator will be selected to implement and deploy the Integrated Wireless Network's nationwide communications system.		0

**3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen?**

The alternative selection is pending the conclusion of the three phased IWN acquisition. Two vendors were down selected in a multi-phase competition, currently in the third and final stage. Each vendor was awarded an ID/IQ contract by the Department of Justice. Each contractor was awarded a task order to create a system design of the First Service Area

**4. What specific qualitative benefits will be realized?**

The specific qualitative benefits will be determined once the final system design has been evaluated. The belief that having the system deployed by a contractor would significantly reduce the time of deployment, the integrator's technology will provide users with the latest innovations and the total cost of deployment will be greatly reduced.

**II.B. Risk Management**

**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.**

<b>1. Does the investment have a Risk Management Plan?</b>	Yes
<b>a. If "yes," what is the date of the plan?</b>	5/12/2006
<b>b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?</b>	No
<b>c. If "yes," describe any significant changes:</b>	
<b>2. If there currently is no plan, will a plan be developed?</b>	
<b>a. If "yes," what is the planned completion date?</b>	
<b>b. If "no," what is the strategy for managing the risks?</b>	

**3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule:**

Investment risks are identified in the system concept development phase where the cost estimates are made and the investment schedule is defined.

**II.C. Cost and Schedule Performance**

**1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748?**

Yes

**2. Answer the following questions about current cumulative cost and schedule performance. The numbers reported below should reflect current actual information. (Per OMB requirements Cost/Schedule Performance information should include both Government and Contractor Costs):**

**a. What is the Planned Value (PV)?**

36266

**b. What is the Earned Value (EV)?**

36258

**c. What is the actual cost of work performed (AC)?**

36286

**d. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?**

Contractor and Government

**e. "As of" date:**

6/15/2006

**3. What is the calculated Schedule Performance Index (SPI = EV/PV)?**

1

**4. What is the schedule variance (SV = EV-PV)?**

-8

**5. What is the calculated Cost Performance Index (CPI = EV/AC)?**

1

**6. What is the cost variance (CV=EV-AC)?**

-28

**7. Is the CV% or SV% greater than +/- 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100)**

No

**a. If "yes," was it the?**

**b. If "yes," explain the variance:**

**c. If "yes," what corrective actions are being taken?**

