Consolidated Infrastructure, Office Automation, and Telecommunications Program

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

I.A. Overview

1. Date of Submission:	
2. Agency:	Department of Energy
3. Bureau:	Departmental Administration
4. Name of this Capital Asset:	Consolidated Infrastructure, Office Automation, and Telecommunications Program
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)	019-60-02-00-01-5000-00
6. What kind of investment will this be in FY2008? (Please NOTE: Investments moving to O&M ONLY in FY2008, with Planning/Acquisition activities prior to FY2008 should not select O&M. These investments should indicate their current status.)	Mixed Life Cycle
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:

Consolidated IOAT is made up of six Dept of Energy (DOE) Infrastructure Service Lines (Telecommunication Networks - TN (DATA), Office Automation - OA, Telephony - TP (Voice), Cyber Security - CS, Application Hosting Environment - AHE, and Enterprise Collaboration - EC). Based on the A76 study last year and the award of the MEO contract, a number of changes have been made in our overall strategy since last year's submission. Once the MEO is fully implemented and the CIO has made his decisions, we will be able to finish our planning and milestones. We have a POAM addressing the issues in this Exhibit, and are monitoring it weekly. We expect the key issues to be resolved by Passback. Consolidated IOAT supports DOE strategic theme 5 Management Excellence Goal 5.3 Infrastructure. DOE's IT Vision aims to affect governance and processes in order to provide access to modern, reliable, and secure IT infrastructure and systems to support and enhance DOE's mission in the 21st century. Our IT strategic goals are based on three basic requirements: simple access, effective management, and strengthened security. IOAT supports the PMA e-Gov goal by supplying digital technologies to transform government operations in order to improve effectiveness, efficiency, and service delivery. Consolidated IOAT is the foundation required for DOE to perform basic eGov business functions. IOAT investments are distributed across the service lines as follows: TN 10%; OA 33%; TP 11%; CS 12%; AHE 30%; EC 4%. TN and TP address the network / communications services both internal and external. OA addresses the client services which are associated with seat management. CS addresses the services required to maintain infrastructure integrity. EC integrates people and processes across the infrastructure. The infrastructure supports about 15,000 users that will be consolidated via DOE IT A76 contract and over 90,000 users segmented in over 20 M&O contracts. Re-engineering the maturing infrastructure, automating systems management, configuration, and updating processes will close the performance gap. This effort for DOE Consolidated IOAT is leveraging the DOE OCIO IT A76 contract implementation and the IOI LOB program management efforts. Currently the DOE Service Lines are being analyzed and an integrated baseline is in development. The Baseline analysis will result in a roadmap for this effort, with a focus on ITIL and "On Demand" Infrastructure Services.

9. Did the Agency's Executive/Investment Committee approve this request?	Yes
a. If "yes," what was the date of this approval?	8/24/2006

10. Did the Project Manager review this Exhibit?	Yes
11. Contact information of Project Manager?	
Name	
Hixon, Harry	
Phone Number	202-586-2018
Email	harry.hixon@hq.doe.gov
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 support one of the PMA initiatives?	Yes
If "yes," check all that apply:	Expanded E-Government, Competitive Sourcing
13a. Briefly describe how this asset directly supports the identified initiative(s)?	Supports e-Gov by consolidating resources under common standards and operating environments: maximizes utilization of resources, simplifies-unifies redundant activities across the agency, and improves accessibility to information and services. Supports Competitive Sourcing through the MEO awarded from the recent IT A76 study. Directly supports the IT Infrastructure (IOI) LOB managed by GSA, identifying opportunities for collaboration and cost savings, plus stronger performance monitoring.
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.)	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)?	No
19. Is this a financial management system?	No
a. If "yes," does this investment address a FFMIA compliance area?	No
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 FY2008 funding request for the following? (This should total 100%)	
Hardware	25
Software	24
Services	51
Other	
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	
Kolb, Ingrid	
Phone Number	202-586-2550
Title	DIRECTOR, OFFICE OF MANAGEMENT
E-mail	ingrid.kolb@hq.doe.gov
23. Are the records produced by this investment appropriately scheduled	Yes

with the National Archives and Records Administration's approval?	

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	57.244879	10.825375	5.947922	3.972762					
Acquisition									
Budgetary Resources	69.71727	63.905908	58.219803	55.233509					
Subtotal Planning & Acquisition									
Budgetary Resources	126.962149	74.731283	64.167725	59.206271					
Operations & Maintenance									
Budgetary Resources	1126.531288	1012.209781	1036.59439	1035.00765					
TOTAL									
Budgetary Resources	1253.493437	1086.941064	1100.762115	1094.213921					
Government FTE Costs									
Budgetary Resources	4.453426	4.390952	4.06425	4.513029					
Number of FTE represented by Costs:	20.302	13.582	10.702	9.822					

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?	No

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

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

The primary driver for changes from the FY07 Summary of Spending result from the recently completed IT A76 study, in which a federal/contractor team was selected as the MEO. As the new MEO is implemented, a number of key decisions will be made regarding governance processes and milestones; these decisions will likely result in additional changes for next year's Summary of Spending. Several results of the IT A76 process are as follows: The initial 172 Federal FTE baseline (not employees) was based on a "snapshot" in time (2002); the federal FTE portion of the MEO will be decreased, gradually, by approximately 39% over 18 months. The snapshot baseline for contractor personnel was 1000; the contractor portion of the MEO is estimated at a reduction of 25-38% over 18 months. The 22-month transition period represents an internal timeline for implementation of the proposed technology solution and transition of DOE IT contracts in support of a consolidated infrastructure. It is during this period of transition that two Enterprise Service Centers (East and West) are to be established to support consolidation of infrastructure services across IT A76 serving DOE Headquarters and Field Offices.

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:

Row Number	Contract or Task Order Number	Type of Contract/ Task Order	Has the contract been awarded?	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	Is this an Interagency Acquisition?	Is it performance based?	Competitively awarded?	What, if any, alternative financing option is being used?	Is EVM in the contract?	Does the contract include the required security and privacy clauses?	Name of CO	CO Contact information (phone/email)	Contracting Officer Certification Level	If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition?
1	DE-AM01-04IM00054is a Department-wide Indefinite Delivery/Indefinite Quantity (IDIQ) Master Contract for a wide range of Information Technology (IT) support services	Indefinite Delivery/Indefinite Quantity Master Contract, the award is to Energy Enterprise Solutions LLC, joint venture between a Federal Most Effective Organization and a private sector team. Acquisition was conducted under OMB circular A76 rules.	Yes	11/18/2005	12/5/2005	4/5/2013	375	No	Yes	Yes	NA	Yes	Yes	Thornton, Patrick	202-287-1532 / Patrick.Thornton@pr.doe.gov	Level 3	Yes
2	DE-AC01-04IM00091 Authorized tasking to support Consolidated	8A Time and Materials, IT Business Consulting Services for IOAT	Yes	3/31/2004	3/31/2004	9/30/2006	1.43	No	Yes	No	NA	No	Yes	Thornton, Patrick	202-287-1532 / Patrick.Thornton@pr.doe.gov	Level 3	

	IOAT IPT analysis Service Line CBAs and C300 submissions	EPMO Base Year with Two (2) option years																
3	M&O Contracts provide infrastructure services across DOE National Laboratories and sites (many of these 20 plus contracts are performance based and include EVM; detail available on request)	M&O IDIQ	Yes	10/1/2004	10/1/2004	9/30/2012	4635.511	No	No	Yes	NA	No	Yes	Fuller, Peggy	202-287-1464 / peggy.fuller@hq.doe.gov	Level 3	

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

The large majority of the IOAT investment is Operations and Management (over 90% of the spending), rather than DME requiring EVM. DOE's Operational Analysis focuses on service level management, such as those embedded in the IT Infrastructure Library (ITIL), as the predominant means of performance measurement for O&M IT infrastructure services. There are over 20 M&O contracts providing IT Infrastructure services as part of the delivered services. Planning and analysis to support the operation of an EPMO for IOAT has been an incremental tasking based on specific analysis products to be delivered. In addition, the IT A76 acquisition process is being applied across DOE Headquarters and Field Offices to support DOE federal operations. The baseline of services for IT A76 will then be applied as performance standards for use in performance measurement of M&O infrastructure services. It is anticipated that the IOI LOB initiative will be establishing performance levels for delivery of IT Infrastructure services. As these IOI performance standards are defined for performance measurement reporting the baseline of services by the DOE IT Infrastructure Service Lines will be synchronized to provide the means for measuring service improvements as the maturity of the DOE IT Infrastructure advances. Thus as the IOI LOB is developing a cross agency acquisition plan and DOE as a member of the IOI task force and in support of the IOI PPMO will build a synchronized plan consistent with IT A76 performance measurement.

3. Do the contracts ensure Section 508 compliance?	Yes
a. Explain why:	Consolidated IOAT conforms to Section 508 on contracts containing COTS products and in support of service delivery operations. Infrastructure Services Operations assure assistive technology solutions are provided to eliminate barriers for people with disabilities. Infrastructure supports the use of Web services accessibility tools and resources are provided to assure compliance.
4. Is there an acquisition plan which has been approved in accordance with agency requirements?	No
a. If "yes," what is the date?	3/29/2004
b. If "no," will an acquisition plan be developed?	Yes
1. If "no," briefly explain why:	A-76 provides the opportunity to streamline organizations, implement best business practices, increase efficiency, effectiveness, and quality of service, all while lowering operational costs. The OCIO in November 2005, awarded a contract to the department's Most Efficient Organization. The objectives of the

IT-A76 Study will be fully realized as the MEO is implemented. An updated acquisition plan for infrastructure, based on the new MEO, will be available second quarter of FY 2007

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)
2005	Management Excellence: Enabling the Mission through sound management	Institute Infrastructure Service Orientation to examine investments by infrastructure service line	DOE investments were by location and infrastructure project. Individual investments were structured by modernization projects or location functions. Organization of infrastructure was not aligned to services.	80% of investment aligned by service line	Over 90% of infrastructure investments were aligned by service line for the BY 2007 investment submission
2005	Management Excellence: Enabling the Mission through sound management	Institute Infrastructure Cost Benefit Analysis examining Service Line Alternatives at enterprise level	Each investment was incrementally analyzed and justified.	50% of service lines analyzed at the enterprise level	50% of the Service lines were analyzed at the enterprise level (TN, AHE, CS)
2006	Management Excellence: Enabling the Mission through sound management	Institute Infrastructure Service Orientation to examine investments by infrastructure service line	Initial submission by Service Line for BY 2007 was over 90%	90% of investment aligned by service line	100% of infrastructure investments were aligned by service line for the BY 2008 investment submission

2006	Management Excellence: Enabling the Mission through sound management	Institute Infrastructure Cost Benefit Analysis examining Service Line Alternatives at enterprise level	Investment analysis for IT A76 and IT Infrastructure Service Lines was not synchronized	80% of service lines analyzed at the enterprise level	Infrastructure Service Baseline and CBA analysis aligned with IT A76. 100% of Infrastructure Service Lines to be completed September 30, 2006.
2006	Management Excellence: Integrated Management	Institute an integrated business management approach that measures infrastructure service levels and leverages common services such as those being instituted by the Infrastructure Optimization (IOI) line of business.	IOI line of business is just being established, current infrastructure services are being measured to form an IT A76 baseline of service measures for integration across DOE	IT A76 target is to realize a 30% cost savings improvement over the current 7 year performance period.	Initial baseline and startup performance levels will be available after completion of the second quarter of FY2007

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.

Performance Information Table 2:

Fiscal Year	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
2005	Mission and Business Results	Information and Technology Management	Information Management	Network User Base Consolidation	DOE has consolidation efforts ongoing in NNSA, EM , SC, IM, and NE	Achieve consolidation initiatives to include 80% of DOE program offices.	DOE has included 100% of the program offices in DOE IOAT consolidation efforts.
2006	Customer Results	Service Accessibility	Access	Level of Service	DOE's IOA&T service lines have not reached any of the DOE Critical Decision Point as described in DOE 413.3	Achieve baseline performance approval for 50% of the service lines by FY08	An integrated baseline is being developed and synchronized with IT A76 and IOI PPMO timetables for establishing service level standards.

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:	15.6970
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

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
A1 Note Per FISMA reporting 4th quarter FY2006 the Number of systems certified and accredited are as follows: HQ 91 of 92, NNSA 614 of 614, EE 2 of 2, EM 17 of 17, FE 6 of 6, SC 53 of 54, NE 4 of 4, RW 2 of 2, PMktA 26 of 26, Agency Total = 815 of 817 (99.8%) systems. Detailed information is available on these systems upon request. GSS C&As follow these notes.							
A2 Note Per FISMA reporting 4th quarter FY2006 the Number of systems for which security controls have been tested and evaluated in the last year are: HQ 82 of 92, NNSA 530 of 614, EE 2 of 2, EM 17 of 17, FE 6 of 6, SC 53 of 54, NE 4 of 4, RW 2 of 2, PMktA 26 of 26, Agency Total = 722 of 817 (88.4%)							

systems. Detailed information is available on these systems upon request.							
A3 Note Per FISMA reporting 4th quarter FY2006 the Number of systems with contingency plans tested in the last year are: HQ 89 of 92, NNSA 499 of 614, EE 2 of 2, EM 17 of 17, FE 6 of 6, SC 53 of 54, NE 4 of 4, RW 2 of 2, PMktA 26 of 26, Agency Total = 698 of 817 (85.4%) systems. Detailed information is available on these systems upon request.							
Bonneville Power Administration Local Area Network							
Chicago Operations Office Local Area Network							
DOE Headquarters DOENET Wide Area Network							
Golden Field Office Local Area Network							
Grand Junction Projects Office Local Area Network							
Idaho Operations Office Local Area Network							
Information Assurance Response Center (IARC)							
Kansas City Plant (KCP)							
NETL Albany Local Area Network							
NETL Morgantown Local Area Network							
NETL Pittsburgh Local Area Network							
NETL Tulsa Local Area Network							
Nevada Site Office Local Area Network							
NREL Local Area Network							
Oak Ridge Operations Office Local Area Network							
Office of Repository Management (Yucca Mountain) Local Area Network							
Pantex Plant Local Area Network							
Pittsburgh Naval Reactors (PNR) Unclassified Network							
Richland Operations Office Local Area Network							
Rocky Mountain Oilfield Testing Center (RMOTC) Local Area Network							
Rocky Mountain Oilfield Testing Center/NPR-3 Local Area Network							

Savannah River Operations Office Local Area Network							
Schenectady Naval Reactors (SNR) Unclassified Network							
Southeastern Power Administration Local Area Network							
Southwestern Power Administration Local Area Network							
Weldon Springs Site Office Local Area Network							
Western Area Power Administration Local Area Network							

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.

The CIO has testified to Congress that DOE will not request additional funding to remediate IT Security weaknesses.

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

8. Planning & Operational Systems - Privacy Table:

Name of System	Is this a new system?	Is there a Privacy Impact Assessment (PIA) that covers this system?	Is the PIA available to the public?	Is a System of Records Notice (SORN) required for this system?	Was a new or amended SORN published in FY 06?
A1 Note Application Hosting Environment- Application owners are responsible for protecting their data at the appropriate level. Application owners are expected to implement privacy policy controls that treat all data with the appropriate level of confidentiality. The services covered within this business case take full advantage of the inherent security and privacy capabilities (including standard authentication and password protection) of the DOE infrastructure backbone and the application.					
A2 Note Office Automation (OA) Desktop data management of client systems (ie Laptops) Infrastructure software is configured in compliance with DOE CIO Guidance CS-38 requirements to implement the use of FIPS					

140-2 Level 1 or higher encryption to protect all PII on laptops and on removable media, such as CDROMs or thumb drives.					
A3 Note Telephony and Telecommunications Networks-In addition, system administrators and the DOE Network Security Team (NST) continuously monitor these security systems such as network and host software security packages, physical security, access controls, software access administration, firewalls, Intrusion Detection Systems and monitoring of routers, switches, etc. Only employees with the 'need to know' have access to personal information.					
Bonneville Power Administration Local Area Network					
Chicago Operations Office Local Area Network					
DOE Headquarters DOENET Wide Area Network					
Golden Field Office Local Area Network					
Grand Junction Projects Office Local Area Network					
Idaho Operations Office Local Area Network					
Information Assurance Response Center (IARC)					
Kansas City Plant (KCP)					
NETL Albany Local Area Network					
NETL Morgantown Local Area Network					
NETL Pittsburgh Local Area Network					
NETL Tulsa Local Area Network					
Nevada Site Office Local Area Network					
NREL Local Area Network					
Oak Ridge Operations Office Local Area Network					
Office of Repository Management (Yucca Mountain) Local Area Network					
Pantex Plant Local Area Network					
Pittsburgh Naval Reactors (PNR) Unclassified Network					
Richland Operations Office Local Area Network					
Rocky Mountain Oilfield Testing Center (RMOTC) Local Area Network					
Rocky Mountain Oilfield Testing Center/NPR-3 Local Area Network					
Savannah River Operations Office Local Area Network					
Schenectady Naval Reactors (SNR) Unclassified Network					
Southeastern Power Administration Local Area Network					
Southwestern Power Administration Local Area Network					

Weldon Springs Site Office Local Area Network					
Western Area Power Administration Local Area Network					

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?	

The IOAT Infrastructure Services supports Mission Critical Services of DOE. Significant reuse occurs through the reuse of applications and services that leverage this investment.

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.	Consolidated IOAT supports subfunctions to I&T Management. Information Management, IT Infrastructure Maintenance, IT Security, Records Management, System Development, System Maintenance are supported by IOAT investments.
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

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)

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)? Yes

a. If "yes," please describe.

DOE consolidation of Infrastructure with initiatives such as IT A76, the expansion by the OCIO of DOE Common Operating Environment (COE): A listing of components (hardware and software) that captures the concept of a common or shared operating environment across an enterprise or organization, and the implementation of MPLS protocols and networking for DOENET provide a basis for addressing the following initiatives that are agency cross-cutting. Infrastructure Optimization Initiative (IOI) Making Progress The IOI Task Force (under Managing Partner Tom Brady, GSA) established the scope, vision and goals for the project focused on improving cost efficiency and service performance for IT infrastructure. The IOI started with five areas: data centers, voice networks, data networks, help desks and desktop management. The task force has since combined the five areas into three: data centers, networks, and desktop management and support. The central thrust drives agencies to improve infrastructure service levels and achieve higher cost efficiencies through standardization and other proven best practices. DOE Service Lines and the COE provide a framework to leverage for integration of IOI efforts. IPv6 is supported by MPLS as the backbone for DOENET as of January, 2006 On August 2, 2005, the OMB Office of E-Gov and IT issued OMB Memorandum 05-22, "Transition Planning for Internet Protocol Version 6 (IPv6)," directing all Federal government agencies to transition their network backbones to the next generation of the Internet Protocol Version 6 (IPv6), by June 30, 2008. The memorandum identifies several key milestones and requirements for all Federal government agencies in support of the June 30, 2008 target date. IPv6 over MPLS backbones enables isolated IPv6 domains to communicate with each other over an MPLS IPv4 core network. This implementation requires only a few backbone infrastructure upgrades and no reconfiguration of core routers because forwarding is based on labels rather than the IP header itself, providing a very cost-effective strategy for the deployment of IPv6.

6. Does this investment provide the public with access to a government automated information system?	Yes
a. If "yes," does customer access require specific software (e.g., a specific web browser version)?	No
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?	12/15/2005
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	Telecommunications Networks:	The alternative that services to the premise is the Hybrid Site-based Enterprise	845.745	1210.552

	Alternative 2 - Hybrid Site-based Enterprise Network	Network. This approach combines the scope of IT A76 consolidation federal operations with the network extended to the premises of all Government Owned Contractor Operated (GOCO) locations. This alternative includes the Wide Area Network (WAN), Metropolitan Area Network (MAN), and Campus Area Network (CAN) services across DOE. Utilizes Performance-based contracting.		
True	Telecommunications Networks: Alternative 3 - Business Line	The alternative that services to the campus is the Business Line alternative. This approach aligns resources by the business lines and, with the demarcation at the campus/physical location, creates a network core of services by each business line. In this alternative it is the responsibility of each business line to assure the Quality of Services are allocated to each physical location (approximately 70 locations) within the business line. Utilizes Performance-based contracting.	968.901	1119.728

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

A Hybrid Alternative 2 was selected and recommended to the IT Council by the Infrastructure IPT. Analysis has been conducted in FY 2006 to examine alternatives by Infrastructure Service Line. As each Service Line analysis is conducted the Program Manager and the Infrastructure Integrated Project Team review recommended alternatives. Each Infrastructure Service Line analysis is being examined with a focus on the baseline of Infrastructure Services to be delivered to DOE Headquarters and Field Offices consistent with IT A76 requirements for infrastructure services and scope. Findings to date have resulted in a security upgrade to DOENET (WAN services across DOE) that integrated the use of MPLS services in January, 2006. A Converged Network solution recommended for DOE Headquarters and budgeted to begin modernization. The IPT in reviews recommended a Common Solution across service lines be examined at the conclusion of the individual Service Lines to clearly understand how the integrated infrastructure would establish a new services baseline. Cyber Security was recommended to be focused on Common Infrastructure Management, Operations, and Technology Security Controls / Services. AHE was recommended for consolidation of over 1300 servers into 2 Enterprise Service Centers using Utility Computing Technologies and Virtual Server Migration solutions. Office Automation is currently under evaluation of the following Desktop Services Alternatives. Managed Thick Client with Utility Computing Servers, or Thin Client with Utility Computing Servers, or Thin Client with PC Blade Servers, or Diskless Desktops with Software Distribution Utility Computing Servers. Enterprise Collaboration is in development with alternatives that span voice, data, web, and video channels for collaborative services. In the first quarter of FY 2007 analysis will be undertaken to integrate infrastructure service lines to define a target infrastructure service baseline. This baseline will be developed to assure linkage to the Infrastructure Optimization Initiative (IOI) and provide a basis for determining the ability to leverage common solutions as they become available. The baseline should also provide a basis for examining service levels as they exist and with migration would achieve improvements. The remainder of FY 2007 will be spent refining the baseline for IT A76, and interfacing with IOI baseline measurements and development.

4. What specific qualitative benefits will be realized?

Establishing a clearly understood Infrastructure Baseline. Because stakeholder buy-in is such a significant risk in consolidation of infrastructure, it must be noted that the ability to effectively and completely educate stakeholders holds the highest priority. Given the volume and the proximity of stakeholders to be trained nationwide with the ~15,000 A76 employees: the employee and infrastructure data have been identified throughout the A76 process DOE has completed. This baseline will provide a clear set of service level standards for understanding as M&O sites adopt common operating environments in laboratories. DOE's IT Vision aims to affect governance and processes in order to provide access to modern, reliable, and secure IT infrastructure and systems to support and enhance DOE's mission in the21st century. The Department of Energy IT vision is based on principles of modernization, reliability, and security. The IT strategic goals are balanced to reflect these principles, noting three basic requirements: simple access, effective management, and strengthened security. This Consolidated IOAT is integral in supporting DOE's IT Vision. EGov is the use of digital technologies to transform government operations in order to improve effectiveness, efficiency,

and service delivery. Consolidated Infrastructure, Office Automation and Telecommunications are the underpinnings required for DOE to perform these most basic business functions. The ability to collaborate is critical to integrating people, processes, and infrastructure. OMB A-76 is an "Management Tool" that provides the opportunity to streamline organizations, implement best business practices, increase efficiency, effectiveness, and quality of service, all while lowering operational costs. The OCIO supports the President's initiative and in November 2005, awarded a contract to Energy Enterprise Solutions, LLC in partnership with the department's Most Efficient Organization. DOE IT-A76 initiative will consolidate IT Infrastructure & Support Services to: Achieve economies and efficiencies for common IT services; Devote program resources to mission specific IT activities; Strengthen the cyber security posture of the Department; Eliminate duplicative IT and IT Support Services contracts; Focus Federal IT workforce on inherently governmental functions. Linkage, coordination with, and support of IOI LOB program. Enables collaboration across federal agencies.

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.

1. Does the investment have a Risk Management Plan?	
a. If "yes," what is the date of the plan?	
b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?	

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?	

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

In each IOAT Service Line a full life cycle analysis is made of the total coast of operating each consolidated alternative deemed feasible. Each alternative is evaluated and reviewed for risk exposures. The following areas of risk are examined at the DOE enterprise level: Organizational and Change Management; Project Resources; Business; Data/Information; Technology; Strategic; Privacy; Security; Schedule; Legal/Contractual. Each of the risks are scored based on specific criteria such as: Extent to which customers and stakeholders have been identified and included in the change process. Also examined are courses of action needed to mitigate the risk. Based on the risk analysis findings, cost and schedule adjustments are made to mitigate potential impacts of these risks. Each Service Line is being analyzed in FY 2006. A completed analysis for the Integrated Infrastructure Service Baseline is to be available at the end of Q1 FY 2007. Where possible the ability to phase in enterprise maturity levels across the broad stakeholder base of DOE will be addressed to ensure access to modern, reliable, and secure IT infrastructure. Leveraging the individual Service Line CBAs, a Risk Management Plan will be prepared as part of the Infrastructure Baseline.

II.C. Cost and Schedule Performance

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748?	No

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)?	195715
b. What is the Earned Value (EV)?	195715
c. What is the actual cost of work performed (AC)?	195715
d. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor and Government
e. "As of" date:	
3. What is the calculated Schedule Performance Index (SPI= EV/PV)?	1
4. What is the schedule variance (SV = EV-PV)?	0
5. What is the calculated Cost Performance Index (CPI = EV/AC)?	1
6. What is the cost variance (CV=EV-AC)?	0
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?	
d. What is most current "Estimate at Completion"?	201693
8. Have any significant changes been made to the baseline during the past fiscal year?	No
8. If "yes," when was it approved by OMB?	No

Comparison of Initial Baseline and Current Approved Baseline

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date	Total Cost (Estimated)	Completion Date		Total Cost		Schedule (# days)	Cost	
				Planned	Actual	Planned	Actual			
10	FY 2005 and Prior DME	09/30/2005	$126.962	09/30/2005	09/30/2005	$126.962	$126.962	0	$0.000	100%
11	FY 2005 and Prior O&M	09/30/2005	$1,126.231	09/30/2005	09/30/2005	$1,126.231	$1,126.231	0	$0.000	100%
12	FY 2005 C300 BY07	09/30/2005	$0.075	09/30/2005	09/30/2005	$0.075	$0.040	0	$0.035	100%
13	FY 2005 CBA Telecommunications and Networks (Document)	12/13/2004	$0.225	12/13/2004	12/13/2004	$0.225	$0.225	0	$0.000	100%
1C1	CBA - Application Hosting Environment	08/16/2005	$0.200	11/15/2005	11/15/2005	$0.200	$0.160	0	$0.040	100%
1C2	CBA - Cyber Security	09/30/2005	$0.200	09/30/2005	09/30/2005	$0.200	$0.150	0	$0.050	100%