

PIH - 1667960 - Inventory Management System

INITIATIVE DEFINITION BY08

Initiative Definition BY08

Template Name	IT Investment BY2008
Investment Name	PIH - 1667960 - Inventory Management System
Investment Revision Number	8
Is this investment a consolidated business case?	No
Point of Contact	ECPIC, Admin
Revision Comment	
Class	non-IT

I.A: OVERVIEW BY08

Descriptive Information BY08

Date of Submission	9/11/2006
Agency	Department of Housing and Urban Development
Bureau	Working Capital Fund
Name of this Capital Asset	PIH - 1667960 - Inventory Management System
Full UPI Code	025-00-01-03-01-1120-00
Four Digit UPI Code	1120
Two Digit UPI Code	00
Exhibit 53 Part	IT Investments by Mission Area
OMB Investment Type	01 - Major Investment
OMB Exhibit 53 Major Mission Area	03 - Rental Housing Assistance
PY Full UPI Code	025-00-01-03-01-1050-00-301-093
What kind of investment will this be in this Budget Year?	Mixed Life Cycle
If this investment supports homeland security, Indicate by corresponding number which homeland security mission area(s) this investment supports?	Maintenance of key data and controls for tenants, building and units upon which PIH calculations and analytics rely. Implement changes to PIC data to improve internal controls and develop stringent validation and verification process.
OMB Short Description	
Investment C&A Status	55 - All of the systems within this investment have been through a C&A Process and have been granted Full Authority to Operate

Screening Questions BY08

What was the first budget year this investment was submitted to OMB?	FY2001 or earlier
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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:

Inventory Management falls within the Rental Housing Assistance Line of Business (LoB) defined by HUD's Enterprise Architecture (EA) and included in the Department's Business and IT Modernization Roadmap (Vision 2010). This initiative eliminates improper payments by: decreasing the number of invalid Social Security Numbers for individual/families that potentially might receive housing assistance; increases the accuracy of the Capital Funding program (funded for \$2.2 Billion Annually); increases the accuracy of the Operating Subsidy program (funded for \$3.564 for FY 2007 Plus 2.7 Billion in tenant payments). System addresses data accuracy for \$8.5 Billion for public housing.

Eliminates Improper Payments by: Decreasing the number of invalid Social Security Numbers for individual/families that potentially might receive housing assistance; increases the accuracy of the Capital Funding program (funded for \$2.2 Billion Annually); increases the accuracy of the Operating Subsidy program (funded for \$3.564 for FY 2007 Plus 2.7 Billion in tenant payments). System addresses data accuracy for \$8.5 Billion for public housing (FY07). For Fy 08: create a national Disaster Housing Program (DHP) to assist all disaster victims find housing; increased access scrutiny, ID, and password authentication; Enhance the accuracy of grant funding; establish a suite of standard reports for Demolition//Disposition module; and Quality Assurance of 50058 Data by collecting 50058 data and building and unit upload data to identify error trends and possible corresponding process improvements - these reports (3) supplement the existing "possible duplicates," "invalid tenant ID," and "portability

billing" reports.

Did the Agency's Executive/Investment Committee approve this request?	Yes
If "yes," what was the date of this approval?	3/15/1999
Did the Project Manager review this Exhibit?	Yes
Contact information of Project Manager?	

Project Manager Name

Ives, Jr., Hiram

Project Manager Phone Number 202-475-8603

Project Manager E-mail Dudley_Ives@HUD.GOV

Has the agency developed and/or promoted cost effective, energy efficient and environmentally sustainable techniques or practices for this project. Yes

Will this investment include electronic assets (including computers)? Yes

Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) No

If "yes," is an ESPC or UESC being used to help fund this investment?

If "yes," will this investment meet sustainable design principles?

If "yes," is it designed to be 30% more energy efficient than relevant code?

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

If "yes," check all of the PMA initiatives that apply: Housing and Urban Development Management and Performance

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.) Yes

Does this investment address a weakness found during the PART Review? Yes

If "yes," what is the name of the PARTed program? Public Housing - provides formula grants to State and local public housing agencies to support public housing. It assists 1.1 million low-income households (2.6 million people). The Federal grants pay the costs that are not paid by tenant rents

If "yes," what PART rating did it receive? Moderately Effective

Is this investment for information technology? Yes

Briefly describe how this asset directly supports the identified initiative(s) Supports by these initiatives: simplifying the detailed, complex, and prescriptive regulations and statutes in order to improve management and performance; implementing project-based accounting to improve local management decisions on project management; setting ambitious targets, timeframes, and outcome measures to improve the well being of assisted families.

IT Screening Questions BY08

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.

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

What project management qualifications does the Project Manager have? (per CIO Council's PM Guidance): (2) Project manager qualification is under review for this investment

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

Is this a financial management system? No

If "yes," does this investment address a FFMIA compliance area? No

If "yes," which FFMIA compliance area? n/a

If "no," what does it address?

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

Provide the Percentage Financial Management for the budget year 0.950000
 What is the percentage breakout for the total FY2008 funding request for the following? (This should total 100%) 100.000000
 For budget year, what percentage of the total investment is for hardware? 12.000000
 For budget year, what percentage of the total investment is for software? 75.000000
 For budget year, what percentage of the total investment is for services? 13.000000
 For budget year, what percentage of the total investment is for other services? 0

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
 Contact information of individual responsible for privacy related questions:

Privacy Officer Name
 Smith, Jeanette
 Privacy Officer Phone Number 202-708-2374
 Privacy Officer Title Departmental Privacy Act Officer, Office of the Chief Information Officer
 Privacy Officer E-mail Jeanette_Smith@HUD.gov
 Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes

I.B: SUMMARY OF SPENDING BY08

Summary of Spending BY08

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.

SUMMARY OF SPENDING FOR PROJECT STAGES

* Costs in thousands

	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	0	506.5	1125	1730.7					
Outlays	0	0	0	0					
A. Project Initiation/Planning									
Budgetary Resources	0	53.4	125	182.4					
Outlays	0	0	0	0					
B. Requirements Definition									
Budgetary Resources	0	213.75	500	730.4					
Outlays	0	0	0	0					
C. System Design									

	PY - 1 and Earlier	PY 2006	CY 2007	BY 2008	BY + 1 2009	BY + 2 2010	BY + 3 2011	BY + 4 and Beyond	Total
Budgetary Resources	0	239.35	500	817.9					
Outlays	0	0	0	0					
Acquisition									
Budgetary Resources	0	653.1	1375	1375					
Outlays	0	0	0	0					
D. Software Acquisition									
Budgetary Resources	0	35.6	75	75					
Outlays	0	0	0	0					
E. Hardware/Infrastructure Acquisition									
Budgetary Resources	0	23.8	50	50					
Outlays	0	0	0	0					
F. New Development/Perfective Maintenance									
Budgetary Resources	0	320.6	675	675					
Outlays	0	0	0	0					
G. Systems Integration & Testing									
Budgetary Resources	0	237.5	500	500					
Outlays	0	0	0	0					
H. Installation & Deployment									
Budgetary Resources	0	35.6	75	75					
Outlays	0	0	0	0					
Subtotal Planning & Acquisition									
Budgetary Resources	0	1159.6	2500	3105.7					
Outlays	0	0	0	0					
Operations & Maintenance									
Budgetary Resources	0	2904.8	3000	2723					
Outlays	0	0	0	0					
I. Systems Operation									
Budgetary Resources	0	1452.4	1500	1361.5					
Outlays	0	0	0	0					
J. Corrective & Adaptive Maintenance									
Budgetary Resources	0	1452.4	1500	1361.5					
Outlays	0	0	0	0					
TOTAL									
Budgetary Resources	0	4064.4	5500	5828.7					
Outlays	0	0	0	0					
Government FTE Costs									
Budgetary Resources	0	404.985	404.985	370.414					
Planning									
Budgetary Resources	0	0	0	0					
Acquisition									
Budgetary Resources	0	0	0	0					
Maintenance									

FS Name: MAX Code	Row Type	PY - 6 2000	PY - 5 2001	PY - 4 2002	PY - 3 2003	PY - 2 2004	PY - 1 2005	PY 2006	CY 2007	BY 2008	BY + 1 2009	BY + 2 2010	BY + 3 2011	BY + 4 2012	BY + 5 2013	BY + 6 2014	BY + 7 2015	BY + 8 2016	Total	
Yearly Budgets	SS	0	0	0	0	0	0	2905	3000	3000										
	Total	0	0	0	0	0	0	4064.62	5500	5500										

I.C: ACQUISITION/CONTRACT STRATEGY BY08

Contract/Task Order Table BY08

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.

Contract/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	GS06F0209Z	T&M	Yes	6/1/2005	7/7/2005	2/14/2008	7155361	Yes	Yes	Yes	NA	Yes	Yes	McDowell, Chiara	Chiara.McDowell@gsa.gov	N/A	Yes
2	R-2006-AY-00527	T&M	Yes	3/30/2006	4/1/2006	3/31/2007	2596852	No	Yes	Yes	NA	Yes	Yes	Wissman, Robert	Robert_A._Wissman@hud.gov	N/A	Yes

Contract/Task Order Questions BY08

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

Do the contracts ensure Section 508 compliance? Yes

Explain why (508 Compliance)? All development and enhancements efforts shall ensure, unless an undue burden would be imposed on the department or agency, that the electronic and information technology services is consistent with Section 508.

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

What is the date of your acquisition plan? 5/1/2004

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

If "no," briefly explain why:

I.D: PERFORMANCE INFORMATION BY08

Performance Goals & Measures BY08

Agencies must use the Performance Goals and Measures Table 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 Goals and Measures

Fiscal Year	Strategic Goal(s) Supported	Performance Measure	Actual/baseline (from Previous Year)	Planned Performance Metric (Target)	Performance Metric Results (Actual)
2004			See PRM Table 2		
2006	Mission and Business Results	Supporting accuracy of the Capital Funding program (funded for \$2.2 Billion Annually).	Executive Directors did not have to certify.	Increase the accuracy of data so each HA receives funding at the greatest level of accuracy.	Results will be reported in December 2009
2007	Mission and Business Results	Decrease the number of developments in the PIH inventory.	There are presently 14,000 Housing developments nationwide.	Decrease the number of developments by 6,000 (decrease to 8,000 from total of 14,000)	Number of Developments was actually decreased from 14,000 to 7,800
2008	Customer Results	Satisfy all PICHELPDESK tickets with in on release cycle or within 2 cycles if requirements lock ahs passed.	3-4 years to satisfy	All Tickets are to be satisfied with in 12 months.	Results will be reported October 2009.
2008	Customer Results	Reduce the number of PICHELPDESK tickets to less than 100.	Historically has averaged 330.	Throughout FY 06 the PICHELPDESK Tickets have been aggressively worked and monitored -- These tickets have moved from a high of 853 in July 2005 to 133 in April 2006. The goal is to have these tickets below 100 October 2006.	Evaluate success October 2009.
2008	Mission and Business Results	Supporting accuracy of the Operating Subsidy program (funded for \$3.564 for FY 2007).	By using project based accounting instead of HA-wide accounting, OPSUB will be able to easily identify under performing Asset Management Groupings and focus assistance to resolve issues	Minimize inaccurate payments to housing authorities by project based accounting. The Harvard Study does not give an expected saving but it does provide efficiencies due to managing 5-6,000 less developments.	Results will be reported in December 2009

FEA Performance Reference Model (PRM) BY08

FEA PRM

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
2005	Goal E: Embrace High	Customer Results	Service Quality	Accuracy of Service or	Decrease the number of trouble	3,400 trouble tickets submitted	Decrease the number of	As of 01/19/2007,

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
	Standards of Ethics, Management and Accountability			Product Delivered	tickets submitted relating to Form 50058.	relating to Form 50058.	trouble tickets submitted relating to Form 50058 by 800.	there are 48 total PICTickets -- only 2 of which are Form 50058 related.
2005	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Controls and Oversight	Corrective Action	Decrease the number of invalid Social Security Numbers (SSNs) for individual/families that potentially might receive housing assistance.	10 percent of SSNs were invalid for individual/families.	Decrease the number of invalid Social Security Number by 2 percent.	For invalid SSNs, we found there are 223,091 such members out of the total of 13,790,156. This gives a percentage of 1.61%
2005	Goal B: Promote Decent Affordable Housing	Processes and Activities	Productivity and Efficiency	Efficiency	National average of public and housing choice voucher on-time reporting rates for assisted housing households.	70 percent (combined PH/HCV) national average on time reporting rates for assisted households.	Increase the annual national average on time reporting rate by 5 percent.	On-time reporting has improved through the use of sanctions that are being implemented for those that are not meeting the 95% reporting rate.
2005	Goal B: Promote Decent Affordable Housing	Processes and Activities	Productivity and Efficiency	Productivity	National average of public and housing choice voucher on-time reporting rates for assisted housing households.	75 percent (PH/HCV) national average on-time reporting rates for assisted households.	Increase the annual national average on-time reporting rate by 5 percent.	Results will be reported in December 2007
2005	Goal B: Promote Decent Affordable Housing	Processes and Activities	Productivity and Efficiency	Productivity	National average of public and housing choice voucher on-time reporting rates for assisted housing households.	75 percent (PH/HCV) national average on-time reporting rates for assisted households.	Increase the annual national average on-time reporting rate by 5 percent.	Results will be reported in December 2007
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Service Accessibility	Access	Decrease the number of trouble tickets submitted relating to Form 50058.	2,600 trouble tickets submitted relating to Form 50058.	Decrease the number of trouble tickets submitted relating to Form by 500.	As of 01/19/2007, there are 48 total PICTickets -- only 2 of which are Form 50058 related.
2006	Goal D: Ensure Equal Opportunity in Housing	Mission and Business Results	Administrative Management	Facilities, Fleet, And Equipment Management	Decrease the number of housing units with erroneous addresses.	3.5 percent of tenant addresses were returned as invalid from RASS survey mailing.	Decrease in the percentage of errors in the housing unit addresses by .5	RASS reported that this objective was still good for 2008 as they

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
							percent.	are gradually decreasing the erroneous addresses year by year.
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Controls and Oversight	Corrective Action	Decrease the number of invalid Social Security Numbers (SSNs), for individual/families that potentially may receive housing assistance.	8 percent of SSNs for individual/families are invalid.	Decrease the number of invalid Social Security Numbers by 3 percent.	For invalid SSNs, we found there are 223,091 such members out of the total of 13,790,156. This gives a percentage of 1.61%
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Controls and Oversight	Corrective Action	Decrease the number of invalid Social Security Numbers (SSNs), for individual/families that potentially may receive housing assistance.	8 percent of SSNs for individual/families are invalid.	Decrease the number of invalid Social Security Numbers by 3 percent.	For invalid SSNs, we found there are 223,091 such members out of the total of 13,790,156. This gives a percentage of 1.61%
2006	Goal C: Strengthen Communities	Mission and Business Results	Defense and National Security	Strategic National and Theater Defense	Number of Alien Registration collected and reported for Homeland Security.	Number of alien registration in Inventory Management System. The baseline number will be established by December 2005.	Deliver Alien Registration Numbers to Homeland Security.	The database for number of alien registration numbers collected by the system is 76,573. Steps being taken to deliver to Homeland Security.
2006	Goal C: Strengthen Communities	Mission and Business Results	Defense and National Security	Strategic National and Theater Defense	Number of Alien Registration collected and reported for Homeland Security.	Number of alien registration in Inventory Management System. The baseline number will be established by December 2005.	Deliver Alien Registration Numbers to Homeland Security.	The database for number of alien registration numbers collected by the system is 76,573. Steps being taken to deliver to Homeland Security.
2006	Goal B: Promote Decent Affordable Housing	Processes and Activities	Productivity and Efficiency	Productivity	National average of public and housing choice voucher information on-time reporting rates for assisted housing households.	75 percent (combined PH/HCV) national average on-time report rates for assisted households.	Increase the annual national average on-time reporting rate by 5 percent.	The National Resident Characteristics Report: Public Housing, found that Form 50058 received is 971,615 and Form 50058

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
								required is 1,062,370 -- 91.45% reported; and Housing Choice Vouchers, Form 50058 received is 1,812,550 vs. 1,830,551 99.01% repor
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Technology	Information and Data	Data Reliability and Quality	Accuracy and completeness of the existing data in the building and unit submodule.	Current accuracy level estimate = 95%.	Increase accuracy by 2%.	Program Office will have 100% building and unit certifications completed by Housing Authorities in CY07; plus, we added functionalities in 2006 in the system that enables super users to correct the building and unit data in the system.
2007	Goal A: Increase Homeownership Opportunities	Customer Results	Service Accessibility	Access	Among non-elderly & non-disable public housing household, the average change in earned income at the time of recertification.	1.5 percent average earnings increase from year-to-year.	Average earnings increase by .5 percent from year to year among non-elderly & non-disabled households in Public Housing/Housing Choice Voucher programs.	Results will be reported December 2007.
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Decrease the number of trouble tickets submitted relating to Form 50058	2,400 trouble tickets submitted relating to Form 50058	Decrease the number of trouble tickets submitted relating to Form 50058 by 250.	Results will be reported December 2007.
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Timeliness and Responsiveness	Response Time	Reduce the number of PICHELPDESK tickets to less than 100.	Throughout FY 06 the PICHELPDESK Tickets have been aggressively worked and monitored -- These tickets have moved from a high of 853 in July 2005 to 133 in April	Drop from 853 to less than 100.	PICHELP DESK Ticket Goal has been reached -- January 2007, the backlog was 48.

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
						2006. The goal is to have these tickets below 100 October 2006.		
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Administrative Management	Facilities, Fleet, And Equipment Management	Decrease the percentage of housing units with erroneous addresses.	2.5 percent of tenant addresses were returned as invalid from the RASS survey mailing.	Decrease the percentage of erroneous addresses by .5 percent.	Results will be reported in December 2007.
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Controls and Oversight	Corrective Action	Decrease the number of invalid Social Security Numbers (SSNs) for individual/families that potentially might receive housing assistance.	6 percent of SSNs were invalid for individuals/families.	Decrease the number of invalid Social Security Numbers by 1 percent.	Results will be reported in December 2007

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.

I.E: SECURITY AND PRIVACY BY08

Costs & Risks BY08

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:

Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment? Yes

Provide the Percentage IT Security for the budget year 10.000000

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

Security: Planning Systems BY08

Systems in Planning - Security

Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Planned or Actual C&A Completion Date
IMS	Contractor and Government	4/23/2008	3/23/2008

Security: Operational Systems BY08

Operational Systems - Security

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
Inventory Management System	Contractor and Government	High	Yes	6/30/2005	FIPS 200 / NIST 800-53	8/31/2006	9/1/2005

Security: Weaknesses & Contractor Procedures BY08

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? No

If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? Yes

Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? No

If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.

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

HUD contracts comply with HUD IT security policies as well as FISMA, A-130, A-11, etc. The IMS contract and HUD CIO contracts for IT support require contractors and subcontractors to: (1) have a background investigation; (2) be U.S. citizens (or owe allegiance to the U.S.); (3) notify HUD of any suspected breach or unauthorized information disclosure; (4) to not disclose information developed or obtained during the contract; and (5) to comply with HUD Handbooks 2400.24, "Information Security Program", and 732.2, "Personnel Security/ Suitability". All IT contractor personnel are required to view annual online security awareness training covering the gamut of system security issues. Attendance of the course is documented. All contract personnel with IMS responsibilities must sign the detailed Rules of Behavior that detail's legal and procedural security requirements. New IMS contractors receive a detailed security orientation. To protect sensitive data from inadvertent disclosure, contractors use scrambled data for system development and testing. The production environment is maintained by HUD CIO contractors at a secure facility, whose operations are monitored through biweekly status meetings based on results of automated scans and audit log reviews. Contractors who perform system maintenance/user support have read-only privileges. IMS records who is logged in with the ID of the person accessing that record and the date/time and log reports are reviewed by Security Administrators. Contractor access to the HUD infrastructure is controlled through a unique HUD user ID in conjunction with roles that provide tailored access to data and functions whose scope is determined by user organization. System updates are performed by CIO personnel using IMS system code. Special system runs must be approved by the PIH CCB and independently tested before CIO managers are given the script. CIO contract system operators do not have database update access. Contractors supporting special processing requests requiring update access receive privileges only for the duration of a defined task.

Privacy: Planning & Operational Systems BY08

Planning & Operational Systems - Privacy

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?
Inventory Management System	No	Yes.	Yes.	Yes	No, because the existing Privacy Act system of records was not substantially revised in FY 06.

I.F: ENTERPRISE ARCHITECTURE (EA) BY08

General EA Questions BY08

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.

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

If "no," please explain why this investment is not included in your agency's target enterprise architecture?

Is this investment included in the agency's EA Transition Strategy? No

If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

If "no," please explain why this investment is not included in the agency's EA Transition Strategy?

FEA SRM BY08

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/>.

Service Component Reference Model (SRM) Table

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
Inventory Management	Defines the set of capabilities that support the identification, planning and allocation of an organization's physical capital and resources	Back Office Services	Asset / Materials Management	Property / Asset Management			No Reuse	0
Inventory Management System	Defines the set of capabilities that support the removal of incorrect or unnecessary characters and data from a data source	Back Office Services	Data Management	Data Cleansing			No Reuse	0
Inventory Management System	J2EE upgrade	Back Office Services	Data Management	Extraction and Transformation	Data Cleansing		Internal	9
Inventory Management	Defines the set of capabilities that support the manipulation and change of data	Back Office Services	Data Management	Extraction and Transformation			No Reuse	0
Inventory	Defines the set	Business	Business	Decision			No	0

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
Management System	of capabilities that support the impact of decisions before they are made.	Analytical Services	Intelligence	Support and Planning			Reuse	
Inventory Management System	Defines the set of capabilities that support the use of dynamic reports on an as-needed basis.	Business Analytical Services	Reporting	Ad Hoc			No Reuse	0
Inventory Management	Defines the set of capabilities that support the use of pre-conceived or pre-written reports.	Business Analytical Services	Reporting	Standardized / Canned			No Reuse	0
Inventory Management System	Capital Fund Eligibility determination enhancement and Capital Fund Formula Certification " for the Capital Funding Program	Business Management Services	Management of Processes	Quality Management	Benefit Management		External	10
Inventory Management	Defines the set of capabilities intended to help determine the level that a product or service satisfies certain requirements.	Business Management Services	Management of Processes	Quality Management			No Reuse	0
Inventory Management	Defines the set of capabilities intended to help determine the level that a product or service satisfies certain requirements.	Business Management Services	Management of Processes	Quality Management			No Reuse	0
Inventory Management System	Disaster Voucher Program " similar to the assistance that was offered for the Katrina Hurricane victims; Demolition and	Process Automation Services	Tracking and Workflow	Process Tracking	Enterprise Application Integration		Internal	21

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
	Disposition of Public Housing Buildings/Units; Management and Maintenance of the data for the Indian Housing Program							
Inventory Management System	Defines the set of capabilities to allow the monitoring of activities within the business.	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	0

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.

FEA TRM BY08

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.

Technical Reference Model (TRM) Table

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Ad Hoc	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Data Cleansing	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Extraction and Transformation	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Process Tracking	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Property / Asset Management	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Quality Management	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Standardized / Canned	Component Framework	Business Logic	Platform Dependent	COBOL / OS390 v2.01.0 / COBOL II
Ad Hoc	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Data Cleansing	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Decision Support and Planning	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Extraction and Transformation	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Process Tracking	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Property / Asset Management	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Quality Management	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Standardized / Canned	Component Framework	Business Logic	Platform Independent	JavaScript 1.3 / Unspecified
Ad Hoc	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Data Cleansing	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Decision Support and Planning	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Extraction and Transformation	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Process Tracking	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Property / Asset Management	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Quality Management	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Standardized / Canned	Component Framework	Data Interchange	Data Exchange	Hummingbird 7.0
Ad Hoc	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Data Cleansing	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Decision Support and Planning	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Extraction and Transformation	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Process Tracking	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Property / Asset Management	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Quality Management	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Standardized / Canned	Component Framework	Data Management	Database Connectivity	Cool Gen Comm Bridge 4.1A, Web SQL 1.2 / Unspecified
Ad Hoc	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Data Cleansing	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Decision Support and Planning	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Extraction and Transformation	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Process Tracking	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Property / Asset Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Quality Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Standardized / Canned	Service Access and Delivery	Access Channels	Collaboration / Communications	Lotus Notes 5.0
Ad Hoc	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Data Cleansing	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Decision Support and Planning	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Extraction and Transformation	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Process Tracking	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Property / Asset Management	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Quality Management	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Standardized / Canned	Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator 4.7 / Navigator 4.04
Ad Hoc	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Data Cleansing	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Decision Support and Planning	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Extraction and Transformation	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Process Tracking	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Property / Asset Management	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Quality Management	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100, RDMS / RDMS 9R3, SQL, Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Standardized / Canned	Service Platform and Infrastructure	Database / Storage	Database	DPS-1100,RDMS / RDMS 9R3,SQL,Sybase version unspecified / 11.0 / 11.1.1 / 11.5.1 / 11.5.1.1 / 11.5.2 / 11.9 / 12
Ad Hoc	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Data Cleansing	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Decision Support and Planning	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Extraction and Transformation	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Process Tracking	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Property / Asset Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Quality Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Standardized / Canned	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	CMPlus
Decision Support and Planning	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Extraction and Transformation	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Process Tracking	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Property / Asset Management	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Quality Management	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Standardized / Canned	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version unspecified,Unisys OS1100 SB6 6D2
Ad Hoc	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Microsoft Windows NT 3.51 / 4.0 SP5 / 4.0 SP6 and SP6a / version, unspecified,Unisys OS1100 SB6 6D2
Data Cleansing	Service Platform	Support	Platform	Microsoft Windows NT 3.51 / 4.0

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
	and Infrastructure	Platforms	Dependent	SP5 / 4.0 SP6 and SP6a / version, unspecified, Unisys OS1100 SB6 6D2

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.

Reuse & Information Sharing BY08

Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?
 If "yes," please describe how the application will leverage existing components and/or applications across the Government.

Does this investment provide the public with access to a government automated information system?
 If "yes," does customer access require specific software (e.g., a specific web browser version)?
 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).

FEA Primary Mapping BY08

FEA Primary Mapping
 Reference Model: BRM
 Business Area: Support Delivery of Services
 Line of Business: Controls and Oversight
 Sub Function: Program Monitoring
 Mapping Code: 301093

II.A: ALTERNATIVES ANALYSIS BY08

Analysis Background BY08

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.
 Did you conduct an alternatives analysis for this project? Yes
 If "yes," what is the date of the analysis? 8/1/2006
 If "no," what is the anticipated date this analysis will be completed?
 If no analysis is planned, please briefly explain why:

Alternatives Table BY08

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

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
True	Alternative I -- Maintain a status quo environment (0% ROI; Total Discounted \$25.5):	Under this alternative, the IMS System would enter into a steady state of maintenance only environment. Only emergency changes would be made to the system. Due to the "Maintenance Only" stance, business owners would not be able to add additional functionalities that not only streamlines the system behavior (something that has a quick pay-back) but IMS would not be able to adapt the system to changing business needs. The only exception to "Maintenance Only" would be congressionally directed	25592900	0
True	Alternative II " Full Development and Modernization - .NET and Oracle DB - Chosen Alternative (471% ROI; Total Discounted \$51.8 M):	IMS based on Microsoft Windows Distributed interNet Applications architecture with Active Server Pages. Alternative migrates IMS to a .Net application and Oracle DB. Migration will occur between 2007 and 2010. The significant enhancement is the migration of asset management at the PHA level moves to the project level, provides greater information about the operating costs and performance level of each public housing project. Cost for the risk vs the non-risk base is less than 10% (\$51M vs \$52M).	26237000	96427400
True	Alternative III " Full Development with no modernization (256% ROI; Total Discounted \$57.9):	Full development but not a change in the application environment (Microsoft to .Net). Appl enviro and the OS would remain constant but have the necessary funding to perform Maintenance at 100% level with no backlog release-to-release and sufficient funding to satisfy the business users with all of the necessary enhancements. Technology will be obsolete by the time the business requirements are applied; as a result, the maintenance costs will increase significantly.	31506400	47728700
True	Alternative IV " Full development with Oracle and J2EE Conversion (190%; Total Discounted \$58.9)	This alternative is similar to Alternative II (no .Net or Oracle Conversion) but its modernization approach is different. This requirement does not rewrite the ASP applications to J2EE Again this option is full development and maintenance so the gradual migration of the migration of asset management at the PHA level moves to the project level " this enhancement provides greater information about the operating costs and performance level of each public housing project.	33403300	47728700

Selected Alternative BY08

Which alternative was selected by the Initiative Governance process and why was it chosen?

Chosen Alternative is Alternative II - Full Development and Modernization with .NET and Oracle DB. This alternative has a 471% return on investment (ROI); a total discounted value of \$51,800,000; a risk adjusted life cycle cost of \$26,237,000; and a risk adjusted lifecycle adjusted benefit of \$96,427,400.

The major benefits of this alternative is it is most cost effective over the life of the system life; more stable and reliable environment as it is not known how long Microsoft will support this IMS's DNA; and from a security aspect, there are just too many holes that a hacker may be able to gain access to the Microsoft Application.

If the IMS system is migrated to .NET, the existing set of servers can accommodate both, old system and the migrated pieces, side-by-

side without any major upgrade to hardware. All existing web servers will need to be upgraded with a .NET runtime service pack, which is free. In addition, lots of the existing IMS pieces can be reused if the system is migrated to .NET platform. The .NET framework provides backward compatibility to adopt and access parts of the systems developed using legacy Microsoft technologies. One of the benefits of this is the development time will be reduced substantially by this approach and the migration to .NET provides easy access to the user session. Shared hardware makes the integration of new system components with old system seamless with reasonable efforts. The .NET framework, being natively compatible with Microsoft legacy technologies, makes both migration approaches viable for implementation.

What specific qualitative benefits will be realized?

IMS is based on Microsoft Windows Distributed interNet Applications (DNA) architecture with Active Server Pages (ASP) in the front end along with XSL, XML, and COM Objects in the middle tier with SQL Server 2000 as the back-end database. IMS comprises over 3,000 configuration items and over 3.5 million lines of code spanning ASP pages, COM objects, SQL objects, and Java classes. Unfortunately, the Microsoft Windows Distributed interNet Applications (DNA) architecture is being phased out by Microsoft. This alternative will replace this Microsoft application. The benefits of this alternative is more stable and reliable environment; and from a security aspect, there are just too many holes that a hacker may be able to gain access to the Microsoft Application. The significant benefits of .Net over the Microsoft DNA and J2EE are: Hardware: Transition of (to any of the selected platform) existing IMS system needs to be up and running till the final piece of system is migrated. If the IMS system is migrated to .NET, existing set of servers can accommodate both, old system and the migrated pieces, side-by-side without any major upgrade to hardware; Software: Migration of the system to different platform requires Server software changes. Existing web servers need to be upgraded with .NET runtime service pack which is available free of cost. Development Efforts: Migration requires redeveloping and reconfiguration of some or all parts of system to run on the new platform. Lot of the existing IMS pieces can be reused if the system is migrated to .NET platform. .NET framework provides backward compatibility to adopt and access parts of the systems developed using legacy Microsoft technologies. The development time will be reduced substantially by this approach; Seamless integration of migrated system components with the old system: There will be an overlapping period when both, partially developed new system and old system, would be available for users. Migration to .NET provides easy access to the user session. Shared hardware makes the integration of new system components with old system seamless with reasonable efforts; Migration Approaches: There are two approaches: vertical approach, system is migrated one business layer (i.e. Modules/sub modules) at a time; horizontal approach system is migrated one technical system layer (i.e. front end, back end etc) at a time. The .NET framework makes both migration approaches viable for implementation.

II.B: RISK MANAGEMENT BY08

Risk Management Plan BY08

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.

Does the investment have a Risk Management Plan?	Yes
What is the date of the risk management plan?	3/31/2006
Has the Risk Management Plan been significantly changed since last year's submission to OMB?	No

If "yes," describe any significant changes to the Risk Management Plan:

If there currently is no risk plan, will a plan be developed?

If "yes," what is the planned completion date of the risk plan?

If "no," what is the strategy for managing the risks?

Investment Risks BY08

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

The most common natural threat is weather related event, such as a snowstorm, that forces a closing of the Government, but other events, such as thunderstorms, can affect the delivery of power to Government offices and cause temporary brownouts/blackouts, which can in turn lead to a loss of data. To safeguard against data loss due to power outages, and so forth it is desirable that an uninterruptible power supply or backup generator be provided so that power will be adequate for orderly shutdown (FISCAM SC-2.2). Further, frequent and regular backups of data from workstations to streaming tape or CD-ROM should be performed, and the media should be stored in an off-site facility (FISCAM SC-2.1). Intentional threats to the system are always possible. Disgruntled or distressed employees could damage hardware and manipulate data. Users could also inadvertently shutdown the systems. Threats against government operations ranged from domestic bombings, as in Oklahoma City in 1995, to lawful and peaceful protests, which have blocked streets and caused inconvenience for workers. The more probable and more pertinent threat, however, is the release and transmission of computer viruses, worms, and Trojan horses. For example, the release of the I LOVEYOU virus on May 4-5, 2002 cost close to \$10 billion in lost productivity, and exposed many people to loss of data. The IMS system has been developed with all risks to data and users in mind. Unintentional human threats range from the loss of productivity due to illness, including long term, debilitating illnesses, to accident, negligence, or other causes. Some may also be the result of failure to correct reported problems, which can affect the ability to deliver scheduled products including documentation and reports.

Risk Reduction Recommendations: Update virus protection software regularly; Staff should be trained to respond effectively in emergency situations in accordance with federal guidelines; Access to data should always be limited by assigning roles within the SQL Server 2000 database platform; Work with PIH IT Project Manager and the HUD PIH business community to elaborate requirements.

Recommend IPT(s) for PIH business community to collect requirements. Educate PIH business community on PIH-REAC CCB process; and Continue to monitor costs and schedule for project to ensure that any non-identified costs are captured and mitigated as quickly as they are discovered.

II.C: COST AND SCHEDULE PERFORMANCE BY08

Earned Value BY08

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

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):

What is the Planned Value (PV)?	12.368200
What is the Earned Value (EV)?	12.368200
What is the actual cost of work performed (AC)?	12.124700
What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor Only
EVMS "As of" date:	6/30/2006
What is the calculated Schedule Performance Index (SPI = EV/PV)?	1.000000
What is the schedule variance (SV = EV-PV)?	0
What is the calculated Cost Performance Index (CPI = EV/AC)?	1.020000
What is the cost variance (CV = EV-AC)?	0.243500

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

Cost/Schedule Variance BY08

Is the CV% or SV% greater than 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) No

If "yes," was it the CV or SV or both?

If "yes," explain the variance:

If "yes," what corrective actions are being taken?

What is the most current "Estimate at Completion"? 19.638000

Performance Baseline BY08

Have any significant changes been made to the baseline during the past fiscal year? No

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/"04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate 0 for any milestone no longer active.

If "yes," when was it approved by OMB?

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			
1	PIH 1667960 Inventory Management	09/30/2015	\$26.579	09/30/2015	06/30/2005	\$26.579	\$7.571	3744	\$19.008	33.85%
1.1	Security Risk Assessment	06/24/2005	\$0.790	06/24/2005	06/28/2005	\$0.790	\$0.470	-4	\$0.320	78.28%
1.1.1	A. Project Initiation/Planning: - Develop requirements for security risk assessment contract; Approve project schedule for security assessment	05/13/2004	\$0.070	05/13/2004		\$0.070	\$0.000		\$0.070	0%
1.1.2	B. Requirements	12/15/2004	\$0.570	12/15/2004	05/25/2005	\$0.570	\$0.280	-161	\$0.290	100.00%

	Definition										
1.1.2.1	Update Project Schedule; Develop Security Risk Assessment Plan; Conduct Assessment	10/06/2004	\$0.420	10/06/2004	04/08/2005	\$0.420	\$0.100	-184	\$0.320	100.00%	
1.1.2.2	Identify Known Security Enhancement Requirements; Draft requirements matrix for automated system changes, deliver Security Risk Assessment, and Approve SCRs for security enhancements	12/15/2004	\$0.150	12/15/2004	05/25/2005	\$0.150	\$0.180	-161	(\$0.030)	100.00%	
1.1.3	C. System Design: - Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	01/24/2005	\$0.040	01/24/2005	06/28/2005	\$0.040	\$0.120	-155	(\$0.080)	100.00%	
1.1.4	D. Software Acquisition: -Develop statement of work; Execute Contract	08/13/2004	\$0.004	08/13/2004		\$0.004	\$0.012		(\$0.008)	15.00%	
1.1.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware and Infrastructure Needs	03/03/2005	\$0.004	03/03/2005		\$0.004	\$0.050		(\$0.046)	50.00%	
1.1.6	F. New Development/Perfective Maintenance: -Develop security enhancements	05/04/2005	\$0.058	05/04/2005		\$0.058	\$0.008		\$0.050	10.00%	
1.1.7	G. System Integration and Testing: -Test system enhancements	06/03/2005	\$0.034	06/03/2005		\$0.034	\$0.000		\$0.034	0%	
1.1.8	H. Installation and Deployment: -Deploy system enhancements	06/24/2005	\$0.010	06/24/2005		\$0.010	\$0.000		\$0.010	0%	
1.2	Inventory Management - Building and Unit	01/21/2005	\$0.530	01/21/2005	02/28/2005	\$0.530	\$0.600	-38	(\$0.070)	92.45%	
1.2.1	A. Project Initiation/Planning	03/09/2004	\$0.050	03/09/2004	10/19/2004	\$0.050	\$0.000	-224	\$0.050	100.00%	
1.2.1.1	Dev. biz rules for PIH inventory: -Rev doc proposed enhancements & existing PIC SCRs; Dev. outline; Dev. & receive approval for project sched. req sessions; Identify & Interview Bus. Leads; IPT Kickoff meeting; Dev. Strawman IM r	03/09/2004	\$0.050	03/09/2004	10/19/2004	\$0.050	\$0.000	-224	\$0.050	100.00%	
1.2.1.2	Infrastructure meetings: -CCB and Infrastructure 1 through 18	03/02/2004	\$0.000	03/02/2004	10/19/2004	\$0.000	\$0.000	-231	\$0.000	100.00%	
1.2.2	B. Requirements Definition	10/19/2004	\$0.300	10/19/2004	11/12/2004	\$0.300	\$0.100	-24	\$0.200	86.67%	
1.2.2.1	Inventory Requirement Sessions 1 through 4	04/24/2004	\$0.040	04/24/2004	11/10/2004	\$0.040	\$0.000	-200	\$0.040	100.00%	
1.2.2.2	Support Requirements Sessions	04/11/2004	\$0.020	04/11/2004	11/10/2004	\$0.020	\$0.000	-213	\$0.020	100.00%	
1.2.2.3	Draft Inventory Management business rules and Requirements Matrix for automated system changes; and Systems Inventory Assessment	06/18/2004	\$0.130	06/18/2004	11/12/2004	\$0.130	\$0.000	-147	\$0.130	100.00%	
	Identify Changes to PIC	08/11/2004	\$0.060	08/11/2004	10/21/2004	\$0.060	\$0.000	-71	\$0.060	100.00%	

1.2.2.4	and Data Quality Initiatives										
1.2.2.5	Develop Report Specifications	08/25/2004	\$0.020	08/25/2004		\$0.020	\$0.000		\$0.020	0%	
1.2.2.6	Final FRD and requirements matrix	09/22/2004	\$0.010	09/22/2004	10/01/2004	\$0.010	\$0.100	-9	(\$0.090)	100.00%	
1.2.2.7	Present recommended course of action to IPT, and receive approval for recommended course of action	10/19/2004	\$0.020	10/19/2004		\$0.020	\$0.000		\$0.020	0%	
1.2.3	C. System Design: - Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	11/26/2004	\$0.000	11/26/2004	11/19/2004	\$0.000	\$0.100	7	(\$0.100)	100.00%	
1.2.4	D. Software Acquisition: -Identify any required contract modifications; Execute modifications to contract	11/08/2004	\$0.000	11/08/2004	10/08/2004	\$0.000	\$0.050	31	(\$0.050)	100.00%	
1.2.5	E. Hardware/Infrastructure Acquisition: - Assess and Acquire System Hardware and Infrastructure Needs	12/22/2004	\$0.000	12/22/2004	10/04/2004	\$0.000	\$0.050	79	(\$0.050)	100.00%	
1.2.6	F. New Development/Perfective Maintenance - Develop and Implement approved SCRs	12/20/2004	\$0.180	12/20/2004	11/30/2004	\$0.180	\$0.000	20	\$0.180	100.00%	
1.2.7	G. System Integration and Testing: -Test system enhancements	01/07/2005	\$0.000	01/07/2005	01/11/2005	\$0.000	\$0.150	-4	(\$0.150)	100.00%	
1.2.8	H. Installation and Deployment: -Deploy system enhancements	01/21/2005	\$0.000	01/21/2005	02/28/2005	\$0.000	\$0.150	-38	(\$0.150)	100.00%	
1.3	Phase 1 - Inventory Management - Building and Unit Enhancements	10/20/2005	\$2.520	10/20/2005	03/25/2005	\$2.520	\$0.000	209	\$2.520	7.94%	
1.3.1	A. Project Initiation/Planning	03/09/2005	\$0.200	03/09/2005	03/25/2005	\$0.200	\$0.000	-16	\$0.200	100.00%	
1.3.1.1	Assess 'parking lot' issues from initial assessments	03/09/2005	\$0.200	03/09/2005	03/25/2005	\$0.200	\$0.000	-16	\$0.200	100.00%	
1.3.1.1.1	Review recommended course of action and proposed enhancements; Review existing PIC SCRs;	02/17/2005	\$0.110	02/17/2005	03/25/2005	\$0.110	\$0.000	-36	\$0.110	100.00%	
1.3.1.1.2	Develop outline for further clarification from business leads; Develop and Approve project schedule for requirements sessions; Develop strawman for IM requirements	03/09/2005	\$0.090	03/09/2005	03/16/2005	\$0.090	\$0.000	-7	\$0.090	100.00%	
1.3.2	B. Requirements Definition	07/07/2005	\$0.920	07/07/2005		\$0.920	\$0.000		\$0.920	0%	
1.3.2.1	Support Requirements Sessions; Update Inventory Management business rules; Draft requirements matrix for automated system changes	05/31/2005	\$0.340	05/31/2005		\$0.340	\$0.000		\$0.340	0%	
1.3.2.2	Identify Changes to PIH systems; Identify Data Quality Initiatives; Identify unresolved issues; Update FRD and	07/07/2005	\$0.580	07/07/2005		\$0.580	\$0.000		\$0.580	0%	

	requirements matrix; Receive approval for updates to FRD									
1.3.3	C. System Design: - Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	08/25/2005	\$0.240	08/25/2005		\$0.240	\$0.000		\$0.240	0%
1.3.4	D. Software Acquisition: -Identify any required contract modifications; Execute modifications to contract	08/04/2005	\$0.024	08/04/2005		\$0.024	\$0.000		\$0.024	0%
1.3.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	08/01/2005	\$0.024	08/01/2005		\$0.024	\$0.000		\$0.024	0%
1.3.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	09/22/2005	\$0.848	09/22/2005		\$0.848	\$0.000		\$0.848	0%
1.3.7	G. System Integration and Testing: -Test system enhancements	10/06/2005	\$0.204	10/06/2005		\$0.204	\$0.000		\$0.204	0%
1.3.8	H. Installation and Deployment: -Deploy system enhancements	10/20/2005	\$0.060	10/20/2005		\$0.060	\$0.000		\$0.060	0%
1.4	Phase 2 - Inventory Management - Residents/50058 Enhancements	08/29/2006	\$1.700	08/29/2006		\$1.700	\$0.000		\$1.700	0%
1.4.1	A. Project Initiation/Planning	12/02/2005	\$0.060	12/02/2005		\$0.060	\$0.000		\$0.060	0%
1.4.1.1	Assess undocumented or unresolved issues from Phase 2: -Rev recommended course of action and proposed enhancements; Rev existing PIC SCRs; Dev outline for further clarification from business leads; Dev. and approve project sched. for reqmts ses	12/02/2005	\$0.060	12/02/2005		\$0.060	\$0.000		\$0.060	0%
1.4.2	B. Requirements Definition	05/05/2006	\$0.240	05/05/2006		\$0.240	\$0.000		\$0.240	0%
1.4.2.1	Support Requirements Sessions; Update Inventory Management business rules; Draft requirements matrix for automated system changes	04/21/2006	\$0.040	04/21/2006		\$0.040	\$0.000		\$0.040	0%
1.4.2.2	Identify Changes to PIH systems; Identify Data Quality Initiatives; Identify unresolved issues; Updated FRD and requirements matrix	05/05/2006	\$0.200	05/05/2006		\$0.200	\$0.000		\$0.200	0%
1.4.3	C. System Design: - Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	06/27/2006	\$0.240	06/27/2006		\$0.240	\$0.000		\$0.240	0%
1.4.4	D. Software Acquisition: -Identify any required contract modifications; Execute modifications to contract	05/23/2006	\$0.024	05/23/2006		\$0.024	\$0.000		\$0.024	0%

1.4.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	05/23/2006	\$0.024	05/23/2006		\$0.024	\$0.000		\$0.024	0%
1.4.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	07/25/2006	\$0.848	07/25/2006		\$0.848	\$0.000		\$0.848	0%
1.4.7	G. System Integration and Testing: -Test system enhancements	08/15/2006	\$0.204	08/15/2006		\$0.204	\$0.000		\$0.204	0%
1.4.8	H. Installation and Deployment: -Deploy system enhancements	08/29/2006	\$0.060	08/29/2006		\$0.060	\$0.000		\$0.060	0%
1.5	Phase 3 - Inventory Management - Data Quality	06/11/2007	\$1.700	06/11/2007		\$1.700	\$0.000		\$1.700	0%
1.5.1	A. Project Initiation/Planning	10/11/2006	\$0.060	10/11/2006		\$0.060	\$0.000		\$0.060	0%
1.5.1.1	Assess undocumented or unresolved issues from Phase 2: -Rev progress to date and proposed enhancements in pipeline; Rev existing PIC SCRs; Dev. outline for further clarification from business leads; Dev. and approve project sched. for reqmts sessions	10/11/2006	\$0.060	10/11/2006		\$0.060	\$0.000		\$0.060	0%
1.5.2	B. Requirements Definition	02/28/2007	\$0.240	02/28/2007		\$0.240	\$0.000		\$0.240	0%
1.5.2.1	Support Requirements Sessions; Update Inventory Management business rules; Draft requirements matrix for automated system changes	02/28/2007	\$0.080	02/28/2007		\$0.080	\$0.000		\$0.080	0%
1.5.2.2	Functional Requirements for Data Quality Initiatives; Identify unresolved issues; Updated data requirements document	01/26/2007	\$0.160	01/26/2007		\$0.160	\$0.000		\$0.160	0%
1.5.3	C. System Design: - Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	04/16/2007	\$0.240	04/16/2007		\$0.240	\$0.000		\$0.240	0%
1.5.4	D. Software Acquisition: -Identify any required contract modifications; Execute modifications to contract	03/19/2007	\$0.024	03/19/2007		\$0.024	\$0.000		\$0.024	0%
1.5.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	03/16/2007	\$0.024	03/16/2007		\$0.024	\$0.000		\$0.024	0%
1.5.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	05/14/2007	\$0.848	05/14/2007		\$0.848	\$0.000		\$0.848	0%
1.5.7	G. System Integration and Testing: -Test system enhancements	05/28/2007	\$0.204	05/28/2007		\$0.204	\$0.000		\$0.204	0%
1.5.8	H. Installation and Deployment: -Deploy system enhancements	06/11/2007	\$0.060	06/11/2007		\$0.060	\$0.000		\$0.060	0%

1.6	Ongoing System Operations and Maintenance	09/30/2008	\$14.621	09/30/2008	06/30/2005	\$14.621	\$6.501	1188	\$8.120	52.58%
1.6.1	I. System Operations	09/29/2006	\$2.733	09/29/2006		\$2.733	\$1.596		\$1.137	40.70%
1.6.1.1	FY05 Quarterly Operations: -1st through 4th Quarter Operations	09/29/2005	\$1.483	09/29/2005		\$1.483	\$1.596		(\$0.113)	75.00%
1.6.1.2	FY06 Quarterly Operations: -1st through 4th Quarter Operations	09/29/2006	\$1.250	09/29/2006		\$1.250	\$0.000		\$1.250	0%
1.6.2	J. Corrective & Adaptive Maintenance	09/30/2008	\$11.888	09/30/2008	06/30/2005	\$11.888	\$4.905	1188	\$6.983	55.31%
1.6.2.1	FY03 Quarterly Maintenance	09/03/2003	\$3.500	09/03/2003	09/30/2004	\$3.500	\$3.600	-393	(\$0.100)	100.00%
1.6.2.1.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/04/2002	\$0.875	12/04/2002	12/31/2003	\$0.875	\$0.900	-392	(\$0.025)	100.00%
1.6.2.1.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/04/2003	\$0.875	03/04/2003	03/31/2004	\$0.875	\$0.900	-393	(\$0.025)	100.00%
1.6.2.1.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	04/12/2003	\$0.875	04/12/2003	06/30/2004	\$0.875	\$0.900	-445	(\$0.025)	100.00%
1.6.2.1.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/03/2003	\$0.875	09/03/2003	09/30/2004	\$0.875	\$0.900	-393	(\$0.025)	100.00%
1.6.2.2	FY04 Quarterly Maintenance	09/29/2004	\$4.100	09/29/2004	06/30/2005	\$4.100	\$1.305	-274	\$2.795	75.00%
1.6.2.2.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/04/2003	\$1.025	12/04/2003	12/31/2004	\$1.025	\$0.405	-393	\$0.620	100.00%
1.6.2.2.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/04/2004	\$1.025	03/04/2004	03/31/2005	\$1.025	\$0.405	-392	\$0.620	100.00%
1.6.2.2.3	3rd Quarter: -Project Tracking and Control; Categorize	06/03/2004	\$1.025	06/03/2004	06/30/2005	\$1.025	\$0.495	-392	\$0.530	100.00%

	Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost									
1.6.2.2.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/29/2004	\$1.025	09/29/2004		\$1.025	\$0.000		\$1.025	0%
1.6.2.3	FY05 Quarterly Maintenance	09/29/2005	\$1.484	09/29/2005		\$1.484	\$0.000		\$1.484	0%
1.6.2.3.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2004	\$0.371	12/30/2004		\$0.371	\$0.000		\$0.371	0%
1.6.2.3.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/30/2005	\$0.371	03/30/2005		\$0.371	\$0.000		\$0.371	0%
1.6.2.3.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/29/2005	\$0.371	06/29/2005		\$0.371	\$0.000		\$0.371	0%
1.6.2.3.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/29/2005	\$0.371	09/29/2005		\$0.371	\$0.000		\$0.371	0%
1.6.2.4	FY06 Quarterly Maintenance	10/02/2006	\$1.252	10/02/2006		\$1.252	\$0.000		\$1.252	0%
1.6.2.4.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2005	\$0.313	12/30/2005		\$0.313	\$0.000		\$0.313	0%
1.6.2.4.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/31/2006	\$0.313	03/31/2006		\$0.313	\$0.000		\$0.313	0%

1.6.2.4.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/30/2006	\$0.313	06/30/2006		\$0.313	\$0.000		\$0.313	0%
1.6.2.4.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	10/02/2006	\$0.313	10/02/2006		\$0.313	\$0.000		\$0.313	0%
1.6.2.5	FY07 Quarterly Maintenance	09/30/2007	\$1.252	09/30/2007		\$1.252				0%
1.6.2.5.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2006	\$0.313	12/30/2006		\$0.313				0%
1.6.2.5.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/31/2007	\$0.313	03/31/2007		\$0.313				0%
1.6.2.5.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/30/2007	\$0.313	06/30/2007		\$0.313				0%
1.6.2.5.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/30/2007	\$0.313	09/30/2007		\$0.313				0%
1.6.2.6	FY08 Quarterly Maintenance	09/30/2008	\$0.300	09/30/2008		\$0.300				0%
1.6.2.6.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2007	\$0.075	12/30/2007		\$0.075				0%
1.6.2.6.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test	03/31/2008	\$0.075	03/31/2008		\$0.075				0%

	Plans; Perform Code/Document Cost									
1.6.2.6.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/30/2008	\$0.075	06/30/2008		\$0.075				0%
1.6.2.6.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/30/2008	\$0.075	09/30/2008		\$0.075				0%
1.7	FY09 - DME/OM	09/30/2009	\$0.660	09/30/2009		\$0.660				0%
1.7.1	DME	09/30/2009	\$0.300	09/30/2009		\$0.300				0%
1.7.2	Operations and Maintenance	09/30/2009	\$0.360	09/30/2009		\$0.360				0%
1.8	FY10 - DME/OM	09/30/2010	\$0.726	09/30/2010		\$0.726				0%
1.8.1	DME	09/30/2010	\$0.330	09/30/2010		\$0.330				0%
1.8.2	Operations and Maintenance	09/30/2010	\$0.396	09/30/2010		\$0.396				0%
1.9	FY11 - DME/OM	09/30/2011	\$0.726	09/30/2011		\$0.726				0%
1.9.1	DME	09/30/2011	\$0.330	09/30/2011		\$0.330				0%
1.9.2	Operations and Maintenance	09/30/2011	\$0.396	09/30/2011		\$0.396				0%
1.10	FY12 - DME/OM	09/30/2012	\$0.693	09/30/2012		\$0.693				0%
1.10.1	DME	09/30/2012	\$0.297	09/30/2012		\$0.297				0%
1.10.2	Operations and Maintenance	09/30/2012	\$0.396	09/30/2012		\$0.396				0%
1.11	FY13 - DME/OM	09/30/2013	\$0.663	09/30/2013		\$0.663				0%
1.11.1	DME	09/30/2013	\$0.267	09/30/2013		\$0.267				0%
1.11.2	Operations and Maintenance	09/30/2013	\$0.396	09/30/2013		\$0.396				0%
1.12	FY14 - DME/OM	09/30/2014	\$0.637	09/30/2014		\$0.637				0%
1.12.1	DME	09/30/2014	\$0.241	09/30/2014		\$0.241				0%
1.12.2	Operations and Maintenance	09/30/2014	\$0.396	09/30/2014		\$0.396				0%
1.13	FY15 - DME/OM	09/30/2015	\$0.613	09/30/2015		\$0.613				0%
1.13.1	DME	09/30/2015	\$0.217	09/30/2015		\$0.217				0%
1.13.2	Operations and Maintenance	09/30/2015	\$0.396	09/30/2015		\$0.396				0%
Project Totals		09/30/2015	\$26.579	09/30/2015	06/30/2005	\$26.579	\$7.571	3744	\$19.008	33.85

III.A: RISK MANAGEMENT BY08

Risk Management Plan BY08

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.

Does the investment have a Risk Management Plan?	Yes
What is the date of the risk management plan?	3/31/2006
Has the Risk Management Plan been significantly changed since last year's submission to OMB?	No

If "yes," describe any significant changes to the Risk Management Plan:

If there currently is no risk plan, will a plan be developed?
 If "yes," what is the planned completion date of the risk plan?
 If "no," what is the strategy for managing the risks?

III.B: COST AND SCHEDULE PERFORMANCE BY08

Operational Analysis BY08

Was operational analysis conducted?

If "yes," provide the date the operational analysis was completed.
 Please provide a brief summary of the operational analysis results.

IMS/PIC maintenance team will implement the changes to Form 50058 - Reports based on the modified report guides approved by Form 50058 coordination committee. Specifically, the delinquency report, rent and rent burden report, RCR Public access report, SEMAP indicator report will be modified. Also, changes will be made to the Ad-hoc report to include the Asset Management Project (AMP) numbers along with State, County, Tract, Longitude, Latitude information. SEMAP scoring batch is being modified based on PIH notice 2005-17 to use 95% reporting rate as a pre-requisite for scoring indicators 9-13 instead of 85% reporting rate being used now. For Form 50058 - Submission module, new edits will be implemented for fields 2i, 2a, 3j, 4a, 6d based on the changes approved by Form 50058-coordination committee. Also, functionality will be included to allow overlapping for Portability. Automatic Portability Move out will be generated in much the same way as Automatic end of participations are being generated currently by the system. IMS/PIC Enhancements will enforce new business rules and create new functionality for users.

If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future:

Performance Baseline BY08

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.

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

Comparison of Plan vs. Actual Performance Table

Milestone Number	Description of Milestone	Planned		Actual		Variance	
		Completion Date	Total Cost	Completion Date	Total Cost	Schedule (# days)	Cost
1	PIH 1667960 Inventory Management	06/11/2007	\$20.309	06/30/2005	\$7.571	711	\$12.738
1.1	Security Risk Assessment	06/24/2005	\$0.790	06/28/2005	\$0.470	-4	\$0.320
1.1.1	A. Project Initiation/Planning: - Develop requirements for security risk assessment contract; Approve project schedule for security assessment	05/13/2004	\$0.070		\$0.000		\$0.070
1.1.2	B. Requirements Definition	12/15/2004	\$0.570	05/25/2005	\$0.280	-161	\$0.290
1.1.2.1	Update Project Schedule; Develop Security Risk Assessment Plan; Conduct Assessment	10/06/2004	\$0.420	04/08/2005	\$0.100	-184	\$0.320
1.1.2.2	Identify Known Security Enhancement Requirements; Draft requirements matrix for automated system changes, deliver Security Risk Assessment, and Approve SCRs for security enhancements	12/15/2004	\$0.150	05/25/2005	\$0.180	-161	(\$0.030)
1.1.3	C. System Design: -Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	01/24/2005	\$0.040	06/28/2005	\$0.120	-155	(\$0.080)
1.1.4	D. Software Acquisition: -Develop statement of work; Execute Contract	08/13/2004	\$0.004		\$0.012		(\$0.008)
1.1.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware and Infrastructure Needs	03/03/2005	\$0.004		\$0.050		(\$0.046)
1.1.6	F. New Development/Perfective Maintenance: -Develop security enhancements	05/04/2005	\$0.058		\$0.008		\$0.050
1.1.7	G. System Integration and Testing: -Test system enhancements	06/03/2005	\$0.034		\$0.000		\$0.034
1.1.8	H. Installation and Deployment: -Deploy system enhancements	06/24/2005	\$0.010		\$0.000		\$0.010
1.2	Inventory Management - Building and Unit	01/21/2005	\$0.530	02/28/2005	\$0.600	-38	(\$0.070)
1.2.1	A. Project Initiation/Planning	03/09/2004	\$0.050	10/19/2004	\$0.000	-224	\$0.050
1.2.1.1	Dev. business rules for PIH inventory: -Review documentation proposed enhancements & existing PIC SCRs; Dev. outline; Dev. & receive approval for project sched. requirements sessions; Identify & Interview Bus. Leads; IPT Kickoff meeting; Dev. Strawman IM reqmts	03/09/2004	\$0.050	10/19/2004	\$0.000	-224	\$0.050

1.2.1.2	Infrastructure meetings: -CCB and Infrastructure 1 through 18	03/02/2004	\$0.000	10/19/2004	\$0.000	-231	\$0.000
1.2.2	B. Requirements Definition	10/19/2004	\$0.300	11/12/2004	\$0.100	-24	\$0.200
1.2.2.1	Inventory Requirement Sessions 1 through 4	04/24/2004	\$0.040	11/10/2004	\$0.000	-200	\$0.040
1.2.2.2	Support Requirements Sessions	04/11/2004	\$0.020	11/10/2004	\$0.000	-213	\$0.020
1.2.2.3	Draft Inventory Management business rules and Requirements Matrix for automated system changes; and Systems Inventory Assessment	06/18/2004	\$0.130	11/12/2004	\$0.000	-147	\$0.130
1.2.2.4	Identify Changes to PIC and Data Quality Initiatives	08/11/2004	\$0.060	10/21/2004	\$0.000	-71	\$0.060
1.2.2.5	Develop Report Specifications	08/25/2004	\$0.020		\$0.000		\$0.020
1.2.2.6	Final FRD and requirements matrix	09/22/2004	\$0.010	10/01/2004	\$0.100	-9	(\$0.090)
1.2.2.7	Present recommended course of action to IPT, and receive approval for recommended course of action	10/19/2004	\$0.020		\$0.000		\$0.020
1.2.3	C. System Design: -Prepare System Design Documents for Approved Security Enhancements;Receive approval for System Design Documents	11/26/2004	\$0.000	11/19/2004	\$0.100	7	(\$0.100)
1.2.4	D. Software Acquisition: -Identify any required contract modifications;Execute modifications to contract	11/08/2004	\$0.000	10/08/2004	\$0.050	31	(\$0.050)
1.2.5	E. Hardware/Infrastructure Acquisition: - Assess and Acquire System Hardware and Infrastructure Needs	12/22/2004	\$0.000	10/04/2004	\$0.050	79	(\$0.050)
1.2.6	F. New Development/Perfective Maintenance - Develop and Implement approved SCRs	12/20/2004	\$0.180	11/30/2004	\$0.000	20	\$0.180
1.2.7	G. System Integration and Testing: -Test system enhancements	01/07/2005	\$0.000	01/11/2005	\$0.150	-4	(\$0.150)
1.2.8	H. Installation and Deployment: -Deploy system enhancements	01/21/2005	\$0.000	02/28/2005	\$0.150	-38	(\$0.150)
1.3	Phase 1 - Inventory Management - Building and Unit Enhancements	10/20/2005	\$2.520	03/25/2005	\$0.000	209	\$2.520
1.3.1	A. Project Initiation/Planning	03/09/2005	\$0.200	03/25/2005	\$0.000	-16	\$0.200
1.3.1.1	Assess 'parking lot' issues from initial assessments	03/09/2005	\$0.200	03/25/2005	\$0.000	-16	\$0.200
1.3.1.1.1	Review recommended course of action and proposed enhancements;Review existing PIC SCRs;	02/17/2005	\$0.110	03/25/2005	\$0.000	-36	\$0.110
1.3.1.1.2	Develop outline for further clarification from business leads;Develop and Approve project schedule for requirements sessions;Develop strawman for IM requirements	03/09/2005	\$0.090	03/16/2005	\$0.000	-7	\$0.090
1.3.2	B. Requirements Definition	07/07/2005	\$0.920		\$0.000		\$0.920
1.3.2.1	Support Requirements Sessions;Update Inventory Management business rules;Draft requirements matrix for automated system changes	05/31/2005	\$0.340		\$0.000		\$0.340
1.3.2.2	Identify Changes to PIH systems;Identify Data Quality Initiatives;Identify unresolved issues;Update FRD and requirements matrix;Receive approval for updates to FRD	07/07/2005	\$0.580		\$0.000		\$0.580
1.3.3	C. System Design: -Prepare System Design Documents for Approved Security Enhancements;Receive approval for System Design Documents	08/25/2005	\$0.240		\$0.000		\$0.240
1.3.4	D. Software Acquisition: -Identify any required contract modifications;Execute modifications to contract	08/04/2005	\$0.024		\$0.000		\$0.024
1.3.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	08/01/2005	\$0.024		\$0.000		\$0.024
1.3.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	09/22/2005	\$0.848		\$0.000		\$0.848
1.3.7	G. System Integration and Testing: -Test system enhancements	10/06/2005	\$0.204		\$0.000		\$0.204
1.3.8	H. Installation and Deployment: -Deploy system enhancements	10/20/2005	\$0.060		\$0.000		\$0.060
1.4	Phase 2 - Inventory Management - Residents/50058 Enhancements	08/29/2006	\$1.700		\$0.000		\$1.700
1.4.1	A. Project Initiation/Planning	12/02/2005	\$0.060		\$0.000		\$0.060
1.4.1.1	Assess undocumented or unresolved issues from Phase 2: -Review recommended course of action and proposed enhancements; Review existing PIC SCRs;Develop outline for further clarification from business leads;Dev. and approve project sched. for reqmts sessions	12/02/2005	\$0.060		\$0.000		\$0.060
1.4.2	B. Requirements Definition	05/05/2006	\$0.240		\$0.000		\$0.240
1.4.2.1	Support Requirements Sessions;Update Inventory Management business rules;Draft requirements matrix for automated system changes	04/21/2006	\$0.040		\$0.000		\$0.040
1.4.2.2	Identify Changes to PIH systems;Identify Data Quality Initiatives;Identify unresolved issues;Updated FRD and requirements matrix	05/05/2006	\$0.200		\$0.000		\$0.200
1.4.3	C. System Design: -Prepare System Design Documents for Approved Security Enhancements;Receive approval for System Design Documents	06/27/2006	\$0.240		\$0.000		\$0.240
1.4.4	D. Software Acquisition: -Identify any required contract	05/23/2006	\$0.024		\$0.000		\$0.024

	modifications: Execute modifications to contract						
1.4.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	05/23/2006	\$0.024		\$0.000		\$0.024
1.4.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	07/25/2006	\$0.848		\$0.000		\$0.848
1.4.7	G. System Integration and Testing: -Test system enhancements	08/15/2006	\$0.204		\$0.000		\$0.204
1.4.8	H. Installation and Deployment: -Deploy system enhancements	08/29/2006	\$0.060		\$0.000		\$0.060
1.5	Phase 3 - Inventory Management - Data Quality	06/11/2007	\$1.700		\$0.000		\$1.700
1.5.1	A. Project Initiation/Planning	10/11/2006	\$0.060		\$0.000		\$0.060
1.5.1.1	Assess undocumented or unresolved issues from Phase 2: -Review progress to date and proposed enhancements in pipeline: Review existing PIC SCRs; Develop outline for further clarification from business leads; Dev. and approve project sched. for reqmts sessions	10/11/2006	\$0.060		\$0.000		\$0.060
1.5.2	B. Requirements Definition	02/28/2007	\$0.240		\$0.000		\$0.240
1.5.2.1	Support Requirements Sessions; Update Inventory Management business rules; Draft requirements matrix for automated system changes	02/28/2007	\$0.080		\$0.000		\$0.080
1.5.2.2	Functional Requirements for Data Quality Initiatives; Identify unresolved issues; Updated data requirements document	01/26/2007	\$0.160		\$0.000		\$0.160
1.5.3	C. System Design: -Prepare System Design Documents for Approved Security Enhancements; Receive approval for System Design Documents	04/16/2007	\$0.240		\$0.000		\$0.240
1.5.4	D. Software Acquisition: -Identify any required contract modifications; Execute modifications to contract	03/19/2007	\$0.024		\$0.000		\$0.024
1.5.5	E. Hardware/Infrastructure Acquisition: -Assess and Acquire System Hardware with Infrastructure Needs	03/16/2007	\$0.024		\$0.000		\$0.024
1.5.6	F. New Development/Perfective Maintenance: -Develop and Implement approved SCRs	05/14/2007	\$0.848		\$0.000		\$0.848
1.5.7	G. System Integration and Testing: -Test system enhancements	05/28/2007	\$0.204		\$0.000		\$0.204
1.5.8	H. Installation and Deployment: -Deploy system enhancements	06/11/2007	\$0.060		\$0.000		\$0.060
1.6	Ongoing System Operations and Maintenance	10/02/2006	\$13.069	06/30/2005	\$6.501	459	\$6.568
1.6.1	I. System Operations	09/29/2006	\$2.733		\$1.596		\$1.137
1.6.1.1	FY05 Quarterly Operations: -1st through 4th Quarter Operations	09/29/2005	\$1.483		\$1.596		(\$0.113)
1.6.1.2	FY06 Quarterly Operations: -1st through 4th Quarter Operations	09/29/2006	\$1.250		\$0.000		\$1.250
1.6.2	J. Corrective & Adaptive Maintenance	10/02/2006	\$10.336	06/30/2005	\$4.905	459	\$5.431
1.6.2.1	FY03 Quarterly Maintenance	09/03/2003	\$3.500	09/30/2004	\$3.600	-393	(\$0.100)
1.6.2.1.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/04/2002	\$0.875	12/31/2003	\$0.900	-392	(\$0.025)
1.6.2.1.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/04/2003	\$0.875	03/31/2004	\$0.900	-393	(\$0.025)
1.6.2.1.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	04/12/2003	\$0.875	06/30/2004	\$0.900	-445	(\$0.025)
1.6.2.1.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/03/2003	\$0.875	09/30/2004	\$0.900	-393	(\$0.025)
1.6.2.2	FY04 Quarterly Maintenance	09/29/2004	\$4.100	06/30/2005	\$1.305	-274	\$2.795
1.6.2.2.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/04/2003	\$1.025	12/31/2004	\$0.405	-393	\$0.620
1.6.2.2.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/04/2004	\$1.025	03/31/2005	\$0.405	-392	\$0.620
1.6.2.2.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/03/2004	\$1.025	06/30/2005	\$0.495	-392	\$0.530
1.6.2.2.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/29/2004	\$1.025		\$0.000		\$1.025
1.6.2.3	FY05 Quarterly Maintenance	09/29/2005	\$1.484		\$0.000		\$1.484
1.6.2.3.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2004	\$0.371		\$0.000		\$0.371
	2nd Quarter: -Project Tracking and Control; Categorize Detects And	03/30/2005	\$0.371		\$0.000		\$0.371

1.6.2.3.2	Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost						
1.6.2.3.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/29/2005	\$0.371		\$0.000		\$0.371
1.6.2.3.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	09/29/2005	\$0.371		\$0.000		\$0.371
1.6.2.4	FY06 Quarterly Maintenance	10/02/2006	\$1.252		\$0.000		\$1.252
1.6.2.4.1	1st Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	12/30/2005	\$0.313		\$0.000		\$0.313
1.6.2.4.2	2nd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	03/31/2006	\$0.313		\$0.000		\$0.313
1.6.2.4.3	3rd Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	06/30/2006	\$0.313		\$0.000		\$0.313
1.6.2.4.4	4th Quarter: -Project Tracking and Control; Categorize Detects And Errors; SDM Process Checks; Update System Documentation; Develop Software; Write Unit Test Plans; Perform Code/Document Cost	10/02/2006	\$0.313		\$0.000		\$0.313
Project Totals		06/11/2007	\$20.309	06/30/2005	\$7.571	711	\$12.738

IV.A: E-GOV AND LINES OF BUSINESS OVERSIGHT BY08

Partners BY08

Part IV should be completed only for investments identified as an E-Gov initiative or a Line of Business(LOB), i.e., selected the E-Gov and LOB Oversight choice in response to Question 6 in Part I, Section A above. Investments identified as E-Gov and LOB Oversight will complete only Parts I and IV of the exhibit 300.

Multi-agency initiatives, such as E-Gov and LOB initiatives, should develop a joint exhibit 300.

As a joint exhibit 300, please identify the agency stakeholders. Provide the partner agency and partner agency approval date for this joint exhibit 300.

Stakeholder Table

Partner Agency Name	Partner Agency	Joint Exhibit Approval Date
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Partnering Strategies BY08

Provide the partnering strategies you are implementing with the participating agencies and organizations. Identify all partner agency capital assets supporting the common solution; Managing Partner capital assets should also be included in this joint exhibit 300. These capital assets should be included in the Summary of Spending table of Part I, Section B. (Partner Agency Asset UPIs should also appear on the Partner Agency's exhibit 53)

Partner Capital Assets within this Investment

Partner Agency Name	Partner Agency	Partner Agency Asset Title	Partner Agency Exhibit 53 UPI (BY2008)
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Partner Funding BY08

For jointly funded initiative activities, provide in the "Partner Funding Strategies Table": the name(s) of partner agencies; the UPI of the partner agency investments; and the partner agency contributions for CY and BY. Please indicate partner contribution amounts (in-kind contributions should also be included in this amount) and fee-for-service amounts. (Partner Agency Asset UPIs should also appear on the Partner Agency's exhibit 53. For non-IT fee-for-service amounts the Partner exhibit 53 UPI can be left blank)

Partner Funding Strategies

Partner Agency Name	Partner Agency	Partner exhibit 53 UPI (BY2008)	CY Contribution	CY Fee-for-Service	BY Contribution	BY Fee-for-Service
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Analysis Background BY08

An Alternatives Analysis for E-Gov and LOB initiatives should also be obtained. At least three viable alternatives, in addition to the current baseline (i.e., the status quo), should be included in the joint exhibit 300. 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.

Did you conduct an alternatives analysis for this project? Yes

If "yes," what is the date of the analysis? 8/1/2006

If "no," what is the anticipated date this analysis will be completed?

If no analysis is planned, please briefly explain why:

Alternatives Table BY08

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

Alternatives Analysis Results

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
True	Alternative I -- Maintain a status quo environment (0% ROI; Total Discounted \$25.5):	Under this alternative, the IMS System would enter into a steady state of maintenance only environment. Only emergency changes would be made to the system. Due to the "Maintenance Only" stance, business owners would not be able to add additional functionalities that not only streamlines the system behavior (something that has a quick pay-back) but IMS would not be able to adapt the system to changing business needs. The only exception to "Maintenance Only" would be congressionally directed	25592900	0
True	Alternative II " Full Development and Modernization - .NET and Oracle DB - Chosen Alternative (471% ROI; Total Discounted \$51.8 M):	IMS based on Microsoft Windows Distributed interNet Applications architecture with Active Server Pages. Alternative migrates IMS to a .Net application and Oracle DB. Migration will occur between 2007 and 2010. The significant enhancement is the migration of asset management at the PHA level moves to the project level, provides greater information about the operating costs and performance level of each public housing project. Cost for the risk vs the non-risk base is less than 10% (\$51M vs \$52M).	26237000	96427400
True	Alternative III " Full Development with no modernization (256% ROI; Total Discounted \$57.9):	Full development but not a change in the application environment (Microsoft to .Net). Appl enviro and the OS would remain constant but have the necessary funding to perform Maintenance at 100% level with no backlog release-to-release and sufficient funding to satisfy the business users with all of the necessary enhancements. Technology will be obsolete by the time the business requirements are applied; as a result, the maintenance costs will increase significantly.	31506400	47728700
True	Alternative IV " Full development with Oracle and J2EE Conversion (190%; Total Discounted \$58.9)	This alternative is similar to Alternative II (no .Net or Oracle Conversion) but its modernization approach is different. This requirement does not rewrite the ASP applications to J2EE Again this option is full development and maintenance so the gradual migration of the migration of asset	33403300	47728700

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
		management at the PHA level moves to the project level " this enhancement provides greater information about the operating costs and performance level of each public housing project.		

Selected Alternative BY08

Which alternative was selected by the Initiative Governance process and why was it chosen?

Chosen Alternative is Alternative II - Full Development and Modernization with .NET and Oracle DB. This alternative has a 471% return on investment (ROI); a total discounted value of \$51,800,000; a risk adjusted life cycle cost of \$26,237,000; and a risk adjusted lifecycle adjusted benefit of \$96,427,400.

The major benefits of this alternative is it is most cost effective over the life of the system life; more stable and reliable environment as it is not known how long Microsoft will support this IMS's DNA; and from a security aspect, there are just too many holes that a hacker may be able to gain access to the Microsoft Application.

If the IMS system is migrated to .NET, the existing set of servers can accommodate both, old system and the migrated pieces, side-by-side without any major upgrade to hardware. All existing web servers will need to be upgraded with a .NET runtime service pack, which is free. In addition, lots of the existing IMS pieces can be reused if the system is migrated to .NET platform. The .NET framework provides backward compatibility to adopt and access parts of the systems developed using legacy Microsoft technologies. One of the benefits of this is the development time will be reduced substantially by this approach and the migration to .NET provides easy access to the user session. Shared hardware makes the integration of new system components with old system seamless with reasonable efforts. The .NET framework, being natively compatible with Microsoft legacy technologies, makes both migration approaches viable for implementation.

What specific qualitative benefits will be realized?

IMS is based on Microsoft Windows Distributed interNet Applications (DNA) architecture with Active Server Pages (ASP) in the front end along with XSL, XML, and COM Objects in the middle tier with SQL Server 2000 as the back-end database. IMS comprises over 3,000 configuration items and over 3.5 million lines of code spanning ASP pages, COM objects, SQL objects, and Java classes. Unfortunately, the Microsoft Windows Distributed interNet Applications (DNA) architecture is being phased out by Microsoft. This alternative will replace this Microsoft application. The benefits of this alternative is more stable and reliable environment; and from a security aspect, there are just too many holes that a hacker may be able to gain access to the Microsoft Application. The significant benefits of .Net over the Microsoft DNA and J2EE are: Hardware: Transition of (to any of the selected platform) existing IMS system needs to be up and running till the final piece of system is migrated. If the IMS system is migrated to .NET, existing set of servers can accommodate both, old system and the migrated pieces, side-by-side without any major upgrade to hardware; Software: Migration of the system to different platform requires Server software changes. Existing web servers need to be upgraded with .NET runtime service pack which is available free of cost. Development Efforts: Migration requires redeveloping and reconfiguration of some or all parts of system to run on the new platform. Lot of the existing IMS pieces can be reused if the system is migrated to .NET platform. .NET framework provides backward compatibility to adopt and access parts of the systems developed using legacy Microsoft technologies. The development time will be reduced substantially by this approach; Seamless integration of migrated system components with the old system: There will be an overlapping period when both, partially developed new system and old system, would be available for users. Migration to .NET provides easy access to the user session. Shared hardware makes the integration of new system components with old system seamless with reasonable efforts; Migration Approaches: There are two approaches: vertical approach, system is migrated one business layer (i.e. Modules/sub modules) at a time; horizontal approach system is migrated one technical system layer (i.e. front end, back end etc) at a time. The .NET framework makes both migration approaches viable for implementation.

Quantitative Benefits BY08

What specific quantitative benefits will be realized (using current dollars) Use the results of your alternatives analysis to complete the following table:

Federal Quantitative Benefits

	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Cost Avoidance
PY - 6 2000	0	0		
PY - 5 2001	0	0		
PY - 4 2002	0	0		
PY - 3 2003	0	0		
PY - 2 2004	0	0		
PY - 1 2005	0	0		
PY 2006	0	0		
CY 2007	0	0		
BY 2008	0	0		
BY + 1 2009	0	0		
BY + 2 2010	0	0		
BY + 3 2011	0	0		
BY + 4 2012	0	0		
BY + 5 2013	0	0		
BY + 6 2014	0	0		
BY + 7 2015	0	0		
BY + 8 2016	0	0		
Total LLC Benefit	0	0		

IV.B: RISK MANAGEMENT BY08

Risk Management Plan BY08

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.

Does the investment have a Risk Management Plan? Yes

What is the date of the risk management plan? 3/31/2006

Has the Risk Management Plan been significantly changed since last year's submission to OMB? No

If "yes," describe any significant changes to the Risk Management Plan:

If there currently is no risk plan, will a plan be developed?

If "yes," what is the planned completion date of the risk plan?

If "no," what is the strategy for managing the risks?

Investment Risks BY08

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

The most common natural threat is weather related event, such as a snowstorm, that forces a closing of the Government, but other events, such as thunderstorms, can affect the delivery of power to Government offices and cause temporary brownouts/blackouts, which can in turn lead to a loss of data. To safeguard against data loss due to power outages, and so forth it is desirable that an uninterruptible power supply or backup generator be provided so that power will be adequate for orderly shutdown (FISCAM SC-2.2). Further, frequent and regular backups of data from workstations to streaming tape or CD-ROM should be performed), and the media should be stored in an off-site facility (FISCAM SC-2.1). Intentional threats to the system are always possible. Disgruntled or distressed employees could damage hardware and manipulate data. Users could also inadvertently shutdown the systems. Threats against government operations ranged from domestic bombings, as in Oklahoma City in 1995, to lawful and peaceful protests, which have blocked streets and caused inconvenience for workers. The more probable and more pertinent threat, however, is the release and transmission of computer viruses, worms, and Trojan horses. For example, the release of the I LOVEYOU virus on May 4-5, 2002 cost close to \$10 billion in lost productivity, and exposed many people to loss of data. The IMS system has been developed with all risks to data and users in mind. Unintentional human threats range from the loss of productivity due to illness, including long term, debilitating illnesses, to accident, negligence, or other causes. Some may also be the result of failure to correct reported problems, which can affect the ability to deliver scheduled products including documentation and reports.

Risk Reduction Recommendations: Update virus protection software regularly; Staff should be trained to respond effectively in emergency situations in accordance with federal guidelines; Access to data should always be limited by assigning roles within the SQL Server 2000 database platform; Work with PIH IT Project Manager and the HUD PIH business community to elaborate requirements. Recommend IPT(s) for PIH business community to collect requirements. Educate PIH business community on PIH-REAC CCB process; and Continue to monitor costs and schedule for project to ensure that any non-identified costs are captured and mitigated as quickly as they are discovered.

IV.C: COST AND SCHEDULE PERFORMANCE BY08

Earned Value BY08

You should also periodically be measuring the performance of operational assets against the baseline established during the planning or full acquisition phase (i.e., operational analysis), and be properly operating and maintaining the asset to maximize its useful life. Operational analysis may identify the need to redesign or modify an asset by identifying previously undetected faults in design, construction, or installation/integration, highlighting whether actual operation and maintenance costs vary significantly from budgeted costs, or documenting that the asset is failing to meet program requirements.

Answer the following questions about the status of this investment. Include information on all appropriate capital assets supporting this investment except for assets in which the performance information is reported in a separate Exhibit 300.

Are you using EVM to manage this investment? Yes

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

If "no," explain plans to implement EVM:

Please provide a brief summary of the operational analysis results.

IMS/PIC maintenance team will implement the changes to Form 50058 - Reports based on the modified report guides approved by Form 50058 coordination committee. Specifically, the delinquency report, rent and rent burden report, RCR Public access report, SEMAP indicator report will be modified. Also, changes will be made to the Ad-hoc report to include the Asset Management Project (AMP) numbers along with State, County, Tract, Longitude, Latitude information. SEMAP scoring batch is being modified based on PIH notice 2005-17 to use 95% reporting rate as a pre-requisite for scoring indicators 9-13 instead of 85% reporting rate being used now. For Form 50058 - Submission module, new edits will be implemented for fields 2i, 2a, 3j, 4a, 6d based on the changes approved by Form 50058-coordination committee. Also, functionality will be included to allow overlapping for Portability. Automatic Portability Move out will be generated in much the same way as Automatic end of participations are being generated currently by the system. IMS/PIC Enhancements will enforce new business rules and create new functionality for users.

This sub-sections questions are NOT applicable for capital assets with ONLY O&M

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):

What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor Only
EVMS "As of" date:	6/30/2006
What is the Planned Value (PV)?	12.368200
What is the Earned Value (EV)?	12.368200
What is the actual cost of work performed (AC)?	12.124700
What is the calculated Schedule Performance Index (SPI = EV/PV)?	1.000000
What is the schedule variance (SV = EV-PV)?	0
What is the calculated Cost Performance Index (CPI = EV/AC)?	1.020000
What is the cost variance (CV = EV-AC)?	0.243500

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

Cost/Schedule Variance BY08

Is the CV% or SV% greater than 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100)	No
If "yes," was it the CV or SV or both?	
If "yes," explain the variance:	
If "yes," what corrective actions are being taken?	
What is the most current "Estimate at Completion"?	19.638000

Performance Baseline BY08

This sub-sections questions are applicable to ALL capital assets.
 Have any significant changes been made to the baseline during the past fiscal year? No
 Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate 0 for any milestone no longer active.
 If "yes," when was it approved by OMB?

Comparison of Initial Baseline and Current Approved Baseline (EGov)

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete	Agency Responsible For Activity
		Planned Completion Date	Total Cost (Estimated)	Completion Date		Total Cost		Schedule (# days)	Cost		
				Planned	Actual	Planned	Actual				
1	Demo-Diso Enh	10/26/2005	\$465,000.000	10/25/2006	10/25/2006	\$465,000.000	\$465,000.000	0	\$0.000	90.00%	Housing and Urban Development, Department of (HUD)
2	J2E Conversion	04/01/2006	\$327,000.000	02/23/2007	03/31/2007	\$327,000.000	\$327,000.000	-36	\$0.000	83.00%	Housing and Urban Development, Department of (HUD)
3	Maint - PICHELPEDESK	02/15/2006	\$455,958.000	02/14/2007	02/14/2007	\$455,958.000	\$455,958.000	0	\$0.000	75.00%	Housing and Urban Development, Department of (HUD)
4	Maint - Demo Dispo Reconcil	02/14/2006	\$374,533.000	02/14/2007	02/14/2007	\$374,533.000	\$374,533.000	0	\$0.000	70.00%	Housing and Urban Development, Department of (HUD)

5	KDHAP - DVP	02/23/2007	\$169,678.000	02/23/2007	02/23/2007	\$169,678.000	\$169,678.000	0	\$0.000	65.00%	Housing and Urban Development, Department of (HUD)
6	Maint Opr Support	02/14/2007	\$169,678.000	02/14/2007	02/14/2007	\$169,678.000	\$169,678.000	0	\$0.000	65.00%	Housing and Urban Development, Department of (HUD)
7	IHP - ONAP Lotus Notes	02/14/2007	\$16,554.000	02/14/2007	02/14/2007	\$16,554.000	\$16,554.000	0	\$0.000	65.00%	Housing and Urban Development, Department of (HUD)
8	Maint - IMS Major-Minor Release	02/14/2007	\$1,063,901.000	02/14/2007	12/08/2006	\$1,063,901.000	\$1,063,901.000	68	\$0.000	85.00%	Housing and Urban Development, Department of (HUD)
9	Maint - IMS - MAPS	12/08/2006	\$171,747.000	12/08/2006	12/08/2006	\$171,747.000	\$171,747.000	0	\$0.000	85.00%	Housing and Urban Development, Department of (HUD)
10	New Report - List of PHAs By FO	12/08/2006	\$105,000.000	12/08/2006	12/08/2006	\$105,000.000	\$105,000.000	0	\$0.000	85.00%	Housing and Urban Development, Department of (HUD)
11	AMP Group Number	12/08/2006	\$55,000.000	12/08/2006	12/08/2006	\$55,000.000	\$55,000.000	0	\$0.000	85.00%	Housing and Urban Development, Department of (HUD)
12	MTW Upload	12/08/2006	\$45,000.000	12/08/2006	12/08/2006	\$45,000.000	\$45,000.000	0	\$0.000	85.00%	Housing and Urban Development, Department of (HUD)
13	Capital Fund Eligibility - 5	12/08/2006	\$223,000.000	12/08/2006	12/08/2006	\$223,000.000	\$223,000.000	0	\$0.000	80.00%	Housing and Urban Development, Department of (HUD)
14	Capital Fund Formula Certification Page - 8	12/08/2006	\$145,000.000	12/08/2006	12/08/2006	\$145,000.000	\$145,000.000	0	\$0.000	80.00%	Housing and Urban Development, Department of (HUD)
Project Totals		02/23/2007	\$3,787,049.000	02/23/2007	03/31/2007	\$3,787,049.000	\$3,787,049.000	-36	\$0.000	80.39	