

PIH - 1667990 - Enterprise Income Verification

INITIATIVE DEFINITION BY08

Initiative Definition BY08

Template Name	IT Investment BY2008
Investment Name	PIH - 1667990 - Enterprise Income Verification
Investment Revision Number	9
Is this investment a consolidated business case?	No
Point of Contact	ECPIC, Admin
Revision Comment	
Class	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 - 1667990 - Enterprise Income Verification
Full UPI Code	025-00-01-02-01-1070-00
Four Digit UPI Code	1070
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	02 - Multifamily Housing Finance
PY Full UPI Code	025-00-01-03-01-1040-00-301-093
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?	EIV consolidates information for use by HUD's PIH and MF Housing business partners in performing tenant subsidy re-certifications. NDNH data for PIH and extension of use of NDNH data in EIV for the Housing Program and other improvements are planned.
OMB Short Description	55 - All of the systems within this investment have been through a C&A Process and have been granted Full Authority to Operate
Investment C&A Status	

Screening Questions BY08

What was the first budget year this investment was submitted to OMB?	FY2004
Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap: The Enterprise Income Verification (EIV) system is aligned with HUD's Business and IT Modernization Roadmap (Vision 2010) providing a single reusable business service to support HUD's core mission areas, i.e., Rental Housing Assistance (RHA) and Multi-Family Housing Finance. EIV addresses the subsidy error problem, identified in a 2001 HUD study of rental assistance subsidy determinations, which estimated that the annual gross subsidy error problem exceeded \$2 billion. EIV compiles tenant income information and provides it online to facilitate the work of HUD's business partners in meeting their responsibility to accurately determine tenant income when setting subsidy level. EIV has been expanding in scope to become increasingly address more of the subsidy error problem. When it first deployed in August 2004, EIV had national data from matching against the Social Security Administration for Social Security and Supplemental Security Income (SSA/SSI) benefits data, but could only obtain data concerning tenant wages and unemployment benefits by concluding matching agreements with individual states. It was not until September 2005, after HUD obtained access to the HHS National Directory of New Hires (NDNH) that it was able to provide nationwide data concerning tenant wages and unemployment benefits, allowing it to be rolled out nationwide. NDNH data is superior to the patchwork of data obtained from the states because it covers cross-state wage and unemployment benefits and includes wage data concerning State and Federal employees and new hiring actions (W-4 data). EIV is being expanded in two steps to cover the Multifamily (MF) Housing program. First, EIV absorbed the functionality of the Tenant Assessment	

Subsystem in providing SSA/SSI data. The second phase is to reach an agreement with HHS that will allow EIV to match MF Housing tenant data against NDNH. HUD exceeded the Presidential Management Initiative #10 target of reducing the error rate by more than 50% by the end of FY 2005. In the coming years, EIV will be extended and refined using input from stakeholders and the EIV Integrated Project Team. In FY07, EIV will extend and refine services including reducing false positives in the new duplicate benefit report and securing downloads to allow additional downloading by HUD business partners. In FY08, EIV will simplify its code using advanced technology and implement initiatives including paperless user recertification.

Did the Agency's Executive/Investment Committee approve this request?	Yes
If "yes," what was the date of this approval?	8/15/2006
Did the Project Manager review this Exhibit?	Yes
Contact information of Project Manager?	

Project Manager Name	
Sandler, David	
Project Manager Phone Number	202-475-8941
Project Manager E-mail	david_sandler@hud.gov
Has the agency developed and/or promoted cost effective, energy efficient and environmentally sustainable techniques or practices for this project.	No
Will this investment include electronic assets (including computers)?	No
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:	Eliminating Improper Payments, Financial Performance, 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 .)	No
Does this investment address a weakness found during the PART Review?	No
If "yes," what is the name of the PARTed program?	
If "yes," what PART rating did it receive?	
Is this investment for information technology?	Yes
Briefly describe how this asset directly supports the identified initiative(s)?	EIV addresses HUD's subsidy determination error problem, an improper payments issue, by enabling HUD's business partners to more accurately determine tenant income as part of subsidy determination. By helping to lower the subsidy error rate from \$2 billion/year, EIV has been able to help improve HUD's financial performance. EIV has improved HUD's management and performance by also serving as a tool useful for management and IG oversight of the performance of HUD's business partners.

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): (1) Project manager has been validated as qualified 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? Not Applicable

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 7.670000

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? 2.000000

For budget year, what percentage of the total investment is for software? 2.000000

For budget year, what percentage of the total investment is for services? 96.000000

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
Adjei, Thomas

Privacy Officer Phone Number 202-708-2374

Privacy Officer Title Privacy Act 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	302	265.59	304.53	364.81					
Outlays	302	0	0	0					
A. Project Initiation/Planning									

	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	62	29.51	32.81	86.86					
Outlays	62	0	0	0					
B. Requirements Definition									
Budgetary Resources	120	118.04	135.86	86.86					
Outlays	120	0	0	0					
C. System Design									
Budgetary Resources	120	118.04	135.86	191.09					
Outlays	120	0	0	0					
Acquisition									
Budgetary Resources	1600.557	1139.74	846.85	503.78					
Outlays	1600.557	0	0	0					
D. Software Acquisition									
Budgetary Resources	200	25.3	48.36	13.03					
Outlays	200	0	0	0					
E. Hardware/Infrastructure Acquisition									
Budgetary Resources	200	25.3	48.36	13.03					
Outlays	200	0	0	0					
F. New Development/Perfective Maintenance									
Budgetary Resources	250	189.72	221.06	304					
Outlays	250	0	0	0					
G. Systems Integration & Testing									
Budgetary Resources	150	294.56	201.49	130.29					
Outlays	150	0	0	0					
H. Installation & Deployment									
Budgetary Resources	800.557	604.86	327.58	43.43					
Outlays	800.557	0	0	0					
Subtotal Planning & Acquisition									
Budgetary Resources	1902.557	1405.33	1151.38	868.59					
Outlays	1902.557	0	0	0					
Operations & Maintenance									
Budgetary Resources	2206.222	625	760	532.22					
Outlays	2206.222	0	0	0					
I. Systems Operation									
Budgetary Resources	1000.222	270.63	205.73	266.11					
Outlays	1000.222	0	0	0					
J. Corrective & Adaptive Maintenance									
Budgetary Resources	1206	354.37	554.27	266.11					
Outlays	1206	0	0	0					
TOTAL									
Budgetary Resources	4108.779	2030.33	1911.38	1400.81					
Outlays	4108.779	0	0	0					
Government FTE Costs									

	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	224.2	188.167	177.599					
Planning									
Budgetary Resources	0	0	0	0					
Acquisition									
Budgetary Resources	0	0	0	0					
Maintenance									
Budgetary Resources	0	224.2	188.167	177.599					

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

Full Time Equivalent BY08

Use the following table to provide the number of Government Full Time Equivalent (FTE) represented by the Government FTE Costs in the Summary of Spending Table. Numbers should be entered in decimal format for each of the categories listed.

FTE Table

	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
Financial Management	0	0	0	0	0	0	0	0	0									
Security	0	0	0	0	0	0	0	0	0									
Program Management	0	0	0	0	0	0	0	0	0									
IT	0	0	0	0	0	0	0	0	0.75									
Other	0	0	0	0	0	0	0	0	0									
Total*	0	0	0	0	0	0	0	0	0.75									

*This row represents the 'Number of FTE represented by cost' from Summary of Spending table and will be sent to OMB.

Funding Questions BY08

Will this project require the agency to hire additional FTE's?

How many and in what year?

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

Provide the Percent Budget Formulation (BF) for the budget year

Provide the Percent Budget Execution (BE) for the budget year

Funding Sources BY08

Funding Sources

* Costs in thousands

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
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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
Working Capital Fund: 025-35-4586-0 On Ex.53: Yes	DME	0	0	0	0	0	0	1405.33	1151.38	1151.38									
	SS	0	0	0	0	0	0	849	988	943									
	Total	0	0	0	0	0	0	2254.33	2139.38	2094.38									
Total Yearly Budgets	DME	0	0	0	0	0	0	1405.33	1151.38	1151.38									
	SS	0	0	0	0	0	0	849	988	943									
	Total	0	0	0	0	0	0	2254.33	2139.38	2094.38									

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?	required security and privacy	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	C-OPC-23007	Time and materials for development and firm-fixed price for maintenance.	Yes	8/1/2006	8/1/2006	6/30/2006	1320238.99	No	Yes	No	NA	Yes	Yes	Johnson, Jennifer T	202-708-1772 / jennifer_t._johnson@hud.gov	N/A	Yes
2	C-OPC-23007	Time and materials for development and firm-fixed price for maintenance.	Yes	8/1/2006	7/1/2007	6/30/2007	1397289.77	No	Yes	No	NA	Yes	Yes	Johnson, Jennifer T	202-708-1772 / jennifer_t._johnson@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)?

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

What is the date of your acquisition plan? 3/1/2004

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	Presidential Management Initiative #10: Financial Management	Reduction of annual subsidy error attributable to administrative errors and unreported income by 15%.	An estimated \$1,202.7 million of the total annual combined subsidy error of HUD's PIH programs. (Due to administrative errors and unreported income, FY 2000 PD&R study.)	Observed change in the annual subsidy error of HUD PIH programs attributed to administrative errors and unreported income.	The "FY 2004 Quality Control for Rental Assistance Subsidies Determination Report" and the "FY 2004 HUD Income Matching Procedures" study estimate that in FY 2004, the annual subsidy loss associated with admin errors and unreported income was \$623.2M
2004	Presidential Management Initiative #10: Productivity and Efficiency	10% improvement in the number of correct public housing subsidy determinations over baseline.	60% correct subsidy determinations by PHAs at end of FY 2003.	Observed annual change in the number of correct subsidy determinations.	"The FY 2004 Quality Control for Rental Assistance Subsidies Determination Report" (PIH Office of Policy Development and Research, April 15, 2005) estimates that 66% of subsidies were correctly determined in FY 2004.
2005	Presidential Management Initiative #10: Financial Management	Reduction of annual subsidy error attributable to administrative errors and unreported income by 30%	The FY 2004 QC Study and the "FY 2004 HUD Income Matching Procedures" study estimate that in FY 2004, the annual subsidy loss associated with admin errors and unreported income was \$623.2 million.	Observed change in the annual subsidy error of HUD PIH programs attributed to administrative errors and unreported income.	The FY 2005 QC Study and supplemental study of unreported income identified a total of \$515 million that is attributable to earned income error or unreported income.
2005	Presidential Management Initiative #10: Productivity and Efficiency	Improve number of correct determinations (within \$5) by 8% from 66% to 74%.	The FY 2004 study found that 66% of subsidies were correctly determined in FY 2004.	Observed annual change in the number of correct subsidy determinations.	The FY2005 QC Study found that 64% of subsidies were correctly determined. Although this is a

Fiscal Year	Strategic Goal(s) Supported	Performance Measure	Actual/baseline (from Previous Year)	Planned Performance Metric (Target)	Performance Metric Results (Actual)
					slight measured decrease, the sample size means that the rate may actually stayed constant. The related gross dollar error rate went from 10% to 9%.
2005	Presidential Management Initiative #11: Service Coverage	Increase the number of PHAs using EIV by 50%.	Number of PHAs using EIV at the end of FY 2004.	Observed change in the number of PHAs using EIV.	At the end of FY 2005, 3500 PHAs were able to access EIV.
2005	Presidential Management Initiative #11: Effectiveness	Increase the number of authorized users active by 5%.	Number of authorized users active at the end of FY 2004.	Observed change in the number of authorized users active.	At the end of FY 2005, there were 6100 authorized users.

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
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Customer Benefit	Customer Complaints	Increase total percentage of correct subsidy determinations and/or reduce the gross error rate or some combination of the two.	The FY 2005 QC Study found that 64% of subsidies were correctly determined and the gross error rate was 9%.	Increase total percentage to 68% and/or reduce the gross error rate by 10%.	To be determined by FY2006 QC Study in FY 2007.
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Financial Management	Accounting	Reduce total percentage of annual subsidy error	The FY 2005 QC Study and supplemental study of unreported income identified a total of \$515 million that is attributable to earned income error or unreported income.	Reduce total subsidy error attributable to unreported and unreported income by 20% against the baseline.	To be determined by FY 2006 QC Study in FY 2007.
2006	Goal E: Embrace High Standards of Ethics, Management and	Processes and Activities	Productivity and Efficiency	Productivity	Increase the total number of HUD Business partners using EIV	At the end of FY 2005, 3500 PHAs were accessing EIV.	Increase the total number of HUD Business partners using EIV by 20% to	5148 HUD Business partners were using EIV at the end of CY

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
	Accountability						4500 users.	2006.
2006	Goal E: Embrace High Standards of Ethics, Management and Accountability	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Increase the total number of authorized users active (This is a proxy measure for user satisfaction.)	At the end of FY 2005, there were 6100 authorized users.	Increase the total number of authorized users active by 50% to 9,150	There were more than 21,000 authorized user in EIV by the end of CY 2006.
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Customer Benefit	Customer Complaints	Increase total percentage of correct subsidy determinations and/or reduce the gross error rate.	The FY 2005 QC Study found that 64% of subsidies were correctly determined and the gross error rate was 9%.	Increase percentage of correct subsidy determinations to 72% or reduce the gross error rate by 5%.	
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Financial Management	Accounting	Reduce the amount of underreported and unreported income.	The FY 2005 QC Study and supplemental study of unreported income identified a total of \$515 million that is attributable to earned income error or unreported income.	Reduction of the amount of underreported and unreported income by 20%.	
2007	Goal E: Embrace High Standards of Ethics, Management and Accountability	Processes and Activities	Productivity and Efficiency	Productivity	Increase the total number of HUD Business partners using EIV	5148 HUD Business partners were using EIV at the end of CY 2006.	Increase the total number of PIH and Housing business partners to 7000 by the end of FY 2007.	
2007		Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Increase the total number of authorized users active (This is a proxy measure for user satisfaction.)	At the end of FY 2005, there were 6100 authorized users.	Increase the total number of authorized users active by 100% over baseline.	
2008	Goal E: Embrace High Standards of Ethics, Management and Accountability	Customer Results	Customer Benefit	Customer Complaints	Increase total percentage of correct subsidy determinations	The FY 2005 QC Study found that 64% of subsidies were correctly	Increase percentage of correct subsidy determinations to 75% and/or reduce the	

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
						determined and the gross error rate was 9%.	gross error rate by 10% below previous year.	
2008	Goal E: Embrace High Standards of Ethics, Management and Accountability	Mission and Business Results	Financial Management	Accounting	Reduce the amount of underreported and unreported income.	The FY 2005 QC Study and supplemental study of unreported income identified a total of \$515 million that is attributable to earned income error or unreported income.	Reduction of the amount of underreported and unreported income by an additional 20%.	
2008	Goal E: Embrace High Standards of Ethics, Management and Accountability	Processes and Activities	Productivity and Efficiency	Productivity	Increase the total number of HUD Business partners using EIV.	5148 HUD Business partners were using EIV at the end of CY 2006.	Increase the total number of PIH and Housing business partners to 14,000.	
2008	Goal E: Embrace High Standards of Ethics, Management and Accountability	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Increase the total number of authorized users active (This is a proxy measure for user satisfaction.)	At the end of FY 2005, there were 6100 authorized users.	Increase the total number of authorized users active by 125% over the baseline.	

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.e.gov.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 7.500000

Is identifying and assessing security and privacy risks a Yes part of the overall risk management effort for each system supporting or part of this investment.

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
Enterprise Income Verification	Contractor and Government	8/10/2004	9/22/2006

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
Enterprise Income Verification. Note: A Security Test and Evaluation currently is in progress.	Contractor and Government	High	Yes	4/22/2005	FIPS 200 / NIST 800-53	9/5/2006	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? Yes

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, and other federal requirements. The EIV 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. EIV contractors with system access must sign the detailed EIV Rules of Behavior that detail's legal and procedural security requirements. New EIV contractors receive a detailed security orientation. To protect sensitive data from inadvertent disclosure, EIV 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. Inspections, vulnerability scanning, and audits are conducted on a periodic basis to ensure contractor compliance with established security requirements. EIV contractors perform work on-site at PIH under the guidance of the EIV IT Project Manager. Contractors who perform system maintenance/user support have read-only privileges.

Access to tenant income records in EIV is logged with the ID of the person accessing that record and the date/time and log reports are reviewed by EIV Security Administrators. Contractor access to EIV system or 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, including the loading of tenant income data from SSA and NDNH, are performed by CIO personnel using EIV system code. Special system runs must be approved by the PIH CCB and independently tested before CIO managers are given the script. CIO contractor 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?
Enterprise Income Verification 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? Yes

If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. EIV was included in Rental Housing Assistance.

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
Data integration	Defines the set of capabilities that support the organization of data from separate data	Back Office Services	Development and Integration	Data Integration			No Reuse	10

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
	sources into a single source using middleware or application integration as well as the modification of system data models to capture new information within a single system.							
Ad-Hoc	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	10
OLAP	Support the analysis of information that has been summarized into multidimensional views and hierarchies.	Business Analytical Services	Reporting	OLAP			External	0
Standardized / Canned	Defines the set of capabilities that support the use of pre-conceived or pre-written reports.	Business Analytical Services	Reporting	Standardized / Canned			No Reuse	20
Performance Management	Performance Management refers to a range of measures designed to assure that Federal resources are used efficiently and effectively.	Business Management Services	Investment Management	Performance Management			No Reuse	10
Business Rule Management	Defines the set of capabilities for the management of the enterprise process that support an organization and its policies.	Business Management Services	Management of Processes	Business Rule Management			No Reuse	10
Quality Management	Defines the set of capabilities intended to help determine the level that a	Business Management Services	Management of Processes	Quality Management			No Reuse	10

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
	product or service satisfies certain requirements.							
Information Retrieval	Defines the set of capabilities that allow access to data and information for use by an organization and its stakeholders.	Digital Asset Services	Knowledge Management	Information Retrieval			No Reuse	10
Knowledge Capture	Capabilities to capture information.	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	10
Identification and Authentication	Defines the set of capabilities that support obtaining information about those parties attempting to log on to a system or application for security purposes and the validation of those users.	Support Services	Security Management	Identification and Authentication	Access Control	025-00-01-03-02-0000-00-401-121	Internal	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)
Business Rule Management	Component Framework	Business Logic	Platform Independent	Sun JAVA and J2EE
OLAP	Component Framework	Data Management	Database Connectivity	This uses JDBC in Sun JAVA
Information Retrieval	Component Framework	Data Management	Reporting and Analysis	This uses Sun JAVA and J2EE as well as the Microsoft SQL server.
Standardized /	Component	Presentation /	Content	Sun One application server

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Canned	Framework	Interface	Rendering	
Ad Hoc	Component Framework	Presentation / Interface	Content Rendering	Sun One application server
Standardized / Canned	Component Framework	Presentation / Interface	Dynamic Server-Side Display	The EIV presentation layer is on the Sun One application server.
Performance Management	Component Framework	Security	Certificates / Digital Signatures	This makes use of the HTTPS protocol on the Sun One application server.
Performance Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Collaboration is via Lotus Notes, which accesses both the internet and the HUD intranet.
Performance Management	Service Access and Delivery	Access Channels	Web Browser	EIV supports the HUD-standard web browser, Internet Explorer 6.
Information Retrieval	Service Access and Delivery	Delivery Channels	Internet	Access to EIV by HUD business partners is via the internet. Access is secured using the HTTPS protocol on the Sun One Application Server. User access is controlled by role assignment that is granulated according to scope of business partnership.
Information Retrieval	Service Access and Delivery	Delivery Channels	Intranet	Access to EIV by HUD personnel and HUD contractors is via the intranet. Access is secured using the HTTPS protocol on the Sun One Application Server. User access is controlled by role assignment that is granulated by organization level.
Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	SSO is via HUD's Web Assessment Subsystem (WASS) which is UPI 025-00-01-03-02-0000-00-401-121.
Performance Management	Service Access and Delivery	Service Requirements	Legislative / Compliance	EIV uses a SUN Enterprise Ultra 450 application server and a Microsoft SQL server 2000 database in delivering reports that help HUD comply with the goals of the Improper Payments Information Act of 2002
Performance Management	Service Interface and Integration	Integration	Middleware	SUN JAVA and J2EE as well as Microsoft SQL Server SQL scripts are used to output data for matching and to manipulate it when it comes back.
Performance Management	Service Interface and Integration	Interface	Service Description / Interface	
Performance Management	Service Interface and Integration	Interoperability	Data Format / Classification	Data formatting is performed using Microsoft SQL Server database.
Quality Management	Service Interface and Integration	Interoperability	Data Transformation	Windows 2000 server batch server, Microsoft SQL server 2000 database and Microsoft bulk copy process.
Data Integration	Service Interface and Integration	Interoperability	Data Transformation	Windows 2000 server batch server, Microsoft SQL server 2000 database, Microsoft bulk copy process
Performance Management	Service Interface and Integration	Interoperability	Data Types / Validation	Data types supported by Microsoft SQL server 2000 database.
Decision	Service	Database /	Database	Microsoft SQL server 2000 database

FEA SRM Component	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (i.e. vendor or product name)
Support and Planning	Platform and Infrastructure	Storage		on Microsoft Windows 2000 server.
Decision Support and Planning	Service Platform and Infrastructure	Database / Storage	Storage	
Knowledge Capture	Service Platform and Infrastructure	Delivery Servers	Application Servers	EIV uses a SUN Enterprise Ultra 450 application server running Sun One Application Server 7.1 JAVA enterprise server.
Performance Management	Service Platform and Infrastructure	Delivery Servers	Media Servers	The Sun application server functions as the media server in that it originates the user interface that is displayed on the web server.
Performance Management	Service Platform and Infrastructure	Delivery Servers	Web Servers	EIV uses an IPlamet web server.
Decision Support and Planning	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	EIV uses a SUN Enterprise Ultra 450 application server running Sun One Application Server 7.1 JAVA enterprise server and a Microsoft SQL server 2000 database on Microsoft Windows 2000 server.

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.

EIV is a matching program that matches HUD rental assistance tenant data against both the Social Security Administrations' Social Security/Supplemental Income data bases as well as the HHS National Directory of New Hires.

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).

EIV supports the HUD-standard browser, which is Microsoft Internet Explorer 6.

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? 8/13/2006

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	1 Status Quo Option. Status quo: maintenance but no further development.	This is a maintenance only option. It bypasses any attempt for additional value. It achieves no incremental net present value or ROI. The rationale is that by FY 2008, EIV would be a mature system.	7323.3	0
True	Option 2 Data Mining. Reformulate EIV as a portal using a business ontology application tool tapping IMS and TRACS pilot testing Digital Harbor. EIV could provide new analyses based on individual and group characteristics and trends.	EIV as a data mining application would link data from IMS and TRACS to income data acquired from SSA and NDNH. It would continue to provide online access to data concerning tenants of HUD business partners but would be become able to provide new, highly useful analyses about the characteristics of the tenant pools, their income and income trends, patterns in the ways that predicted income differ from actual, groups most likely to have actual discrepancies as opposed to false positives, etc.	23783.2	1401232.7
True	Option 3 Service-Oriented Architecture. Implement Oracle for Oracle Business Process Execution Language (BPEL) to end limitations of antiquated batch processes. Tap into data as it becomes available. Makes it feasible to extend EIV to new sources.	Migrating from batch processes to BPEL would open new options that would have been costly. Roll BPEL applications in phases: 1) tap HUD databases; 2) tap SSA and NDNH and 3) tap private and governmental databases to extent useful. Allows HUD to acquire data that is not nationwide but is useful. EIV could provide business partners with as complete data as is possible at time. The system when displaying overlapping data would apply sophisticated system algorithms weighing source reliability.	22017.1	1517144.2
True	Option 4. Option 4 represents the conservative approach for a resource-constrained environment. It freezes investment in EIV at the FY 2007 level.	Option 4 would have EIV improve and add to the types of reports that are available to the user community and improve analytical services to program managers to the extent that is possible within available developmental resources and exiting infrastructure. User input would be critical in determining how best to meet address needs within available resources. Operational maintenance costs will creep	21965.4	1257697.3

Send to OMB	Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate
		up as the infrastructure becomes increasing dated and new initiatives require greater support.		

Selected Alternative BY08

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

Option 4 (current mode) was selected for the current constrained environment in order to proceed at a straight-line of expenditure from FY 2007 to FY 2008. Although Alternative 4 has the lowest ROI of the three alternatives that were considered, 8826% is an unusually high return for any investment. The fact that Alternatives 2 and 3 have even higher returns (8975% and 10444%) should be kept in mind for long-term planning.

The high ROI reflects the fact that even at this funding level, a significant effort would be made to leverage the present EIV enterprise architecture with initiatives such as converting EIV's JAVA implementation to take advantage of struts or JAVA faces as part of enhancing the services to the HUD programs that EIV serves. Such actions will make EIV easier to upgrade and maintain and would facilitate a later migration to a new enterprise architecture.

However, hopefully the current budget constraints will be lifted, if not in FY 2008, then in a later year, so as to allow the use of Oracle technology will come about. The payoff is simply too attractive. Oracle is one of HUD's EA platforms. Use of BPEL (option 3) would be tremendously attractive in that it would allow EIV to end the limitation of using batch processes and use technology that would allow us to extend EIV data matching to additional sources, such as private databases which hold useful but not truly nationwide income data and even large local governments for data such as TANIF benefits and alimony payments.

Additionally, it is possible that there is an implicit false assumption underlying the calculations for Option 4 that EIV can be maintained long-term on its present platform. A better calculation might be to plan to replace the architecture at a point where the opportunity cost of not gathering data for a more complete picture of the scope of the underreporting problem as well as the inability to implement new requirements and the increasing cost of maintenance will spur a more migration to an alternative enterprise architecture.

0
What specific qualitative benefits will be realized?

The qualitative benefits will be that as we proceed, EIV will be enhanced to to the extent possible to provide its clients with additional analyses and refinements of existing analyses that can be formulated within current funding levels and with current technology. Although much may properly be made about the qualitative effect of EIV in terms of the money saved, there are important qualitative benefits. It is important that HUD gives its business partners a tool that they need to enable them to meet their responsibility to accurately determine tenant income. Doing so gives substance to the partnership aspect of the contractual relationship between HUD and the PHAs and property owners. The use of EIV to more accurately determine tenant income helps HUD more completely fulfill its charter to help those in need of housing assistance by assuring that allocated funds are leveraged to the maximum extent in providing program services. Funds freed are used for more or better housing assistance services. Unqualified tenants are identified so that qualified tenants may take their place. HUD improves its reputation with the stakeholders of its assisted rental housing programs, including Congress and OMB, state and local governments, current and would-be tenants as well as housing advocacy groups and is better able to protect or improve its funding level so that it can provide services to a larger number of people in need of housing assistance.

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?	1/10/2006
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:

Risk is a factor taken into account in each stage of the EIV system development lifecycle. When planning for a release, an assessment is made of the risks that would be inherent in going forward with the proposed initiative as well as alternative ways to reduce the chance and potential impact of the risk. A decision is made whether there is a palatable less risky alternative and whether or not to continue with a risky option. During the design phase, a tangible implementation of the requirements is created using input from the integrated project team (IPT) to assure that design elements are workable and the team uses its better understanding of how the implementation creates risks to update the risk assessment and draft a risk management plan. The system design is a detailed plan closely followed during the development phase. Particular attention always needs to be paid so that latent risks are not created when changing or enhancing functionality. Risk is a major concern in developing the test plan and implementing it in test scripts. Flaws must be identified and corrected. Contingency plans developed during the design phase are fleshed out during the development phase. Data is scrambled for security and testing is conducted using a range of program office personnel and volunteer HUD business partners whose diversity helps assure that problems will be identified. After deployment, the IPT meets to discuss the system, its plans, progress and problems. The Risk Management Plan is reviewed at meetings and updated for new risks, relative risk ranking, and contingency plans. (The Risk Management Plan also may be updated ad hoc.) This substantial investment of time in risk management has a large payoff. Studies have shown that the cost of solving a problem rises dramatically the later in the development process it is identified and can escalate further if a serious defect reaches production. Time developing contingency plans is well spent because it has a substantial payoff. Monitoring risks can help forestall their occurrence and having a contingency in place can reduce the impact and duration of the risk. The fact that we have risk planning has significantly reduced cost and schedule variability because time and resources are not expended on fix releases. The lack of variability is reflected in the lower amplitude in the risk adjustments to our alternatives analysis.

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
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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)?	6.703000
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What is the Earned Value (EV)?	6.666000
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What is the actual cost of work performed (AC)?	6.627000
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What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)?	Contractor Only
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EVMS "As of" date:	6/30/2006
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What is the calculated Schedule Performance Index (SPI = EV/PV)?	0.994000
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What is the schedule variance (SV = EV-PV)?	-0.036900
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What is the calculated Cost Performance Index (CPI = EV/AC)?	1.006000
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What is the cost variance (CV = EV-AC)?	0.039500
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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
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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"?	11.407000
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Performance Baseline BY08

Have any significant changes been made to the baseline during the past fiscal year?	Yes
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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?	We are about to submit a baseline change request to reflect actual funding, the level of support that we expect under our recently signed development/maintenance contract, and working
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arrangements with the program offices.

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 1667990 EIV	10/30/2012	\$23.845	10/30/2012	07/31/2006	\$24.271	\$6.934	2283	\$17.337	17.57%
1.1	PHASE 1	07/12/2004	\$3.173	07/12/2004	07/12/2004	\$3.173	\$3.173	0	\$0.000	100.00%
1.1.1	A. Project Initiation/Planning	10/15/2002	\$0.000	10/15/2002	10/15/2002	\$0.000	\$0.000	0	\$0.000	0%
1.1.1.1	UIV preparations: -UIV Kickoff Meeting	10/15/2002	\$0.000	10/15/2002	10/15/2002	\$0.000	\$0.000	0	\$0.000	100.00%
1.1.2	B. Requirements Definition	04/30/2003	\$0.000	04/30/2003	04/30/2003	\$0.000	\$0.000	0	\$0.000	0%
1.1.2.1	Develop Draft CONOPS: - Deliver Draft Conops	10/15/2002	\$0.000	10/15/2002	10/15/2002	\$0.000	\$0.000	0	\$0.000	100.00%
1.1.2.2	Develop Draft FRD: - Deliver Draft FRD	10/15/2002	\$0.000	10/15/2002	10/15/2002	\$0.000	\$0.000	0	\$0.000	100.00%
1.1.2.3	Develop BRD for BUILD 3.0: -Deliver BRD for 3.0	04/30/2003	\$0.000	04/30/2003	04/30/2003	\$0.000	\$0.000	0	\$0.000	100.00%
1.1.3	C. System Design, Develop, Test, and QA	03/07/2004	\$1.905	03/07/2004	04/28/2004	\$1.905	\$1.905	-52	\$0.000	100.00%
1.1.3.1	UIV Build 1: Initial Prototype Web Pages: - design develop, test and QA Build 1 - phase I through (a-b)	05/04/2003	\$0.955	05/04/2003	07/30/2003	\$0.955	\$0.955	-87	\$0.000	100.00%
1.1.3.2	UIV Build 2: Enhancements to Pages and Bug Fixes: -design develop, test and QA Build 2.0 - phase I through III (a-b)	07/16/2003	\$0.478	07/16/2003	10/15/2003	\$0.478	\$0.478	-91	\$0.000	100.00%
1.1.3.3	UIV Build 2.1: Income Source Profile : -design develop, test and QA Build 2.1 (a-b); Deliver Build 2.1	05/03/2003	\$0.000	05/03/2003	05/16/2003	\$0.000	\$0.000	-13	\$0.000	100.00%
1.1.3.4	UIV Build 2.2: Bug Fixes and Page Layout and Format Enhancements: - design develop, test and QA Build2.2 - phase I through II (a-b); Deliver Build 2.2	07/16/2003	\$0.132	07/16/2003	08/08/2003	\$0.132	\$0.132	-23	\$0.000	100.00%
1.1.3.5	UIV Build 3.0.1: Bug Fixes and Updates to Pages, including Search Page and Security Enhancements: -design develop, test and QA Build 3.0 - phase I through II (a-b); Deliver Build 3.0	08/23/2003	\$0.000	08/23/2003	10/03/2003	\$0.000	\$0.000	-41	\$0.000	100.00%
1.1.3.6	UIV Build 3.1: Bug Fixes and Enhancements to Administrative Functions: -design develop, test and QA Build 3.0; Deliver Build 3.1	03/07/2004	\$0.140	03/07/2004	03/16/2004	\$0.140	\$0.140	-9	\$0.000	100.00%
1.1.3.7	UIV Build 3.2: Migration to SQL Server: -design develop, test and QA Build2.2 (a-b); Deliver Build 3.2	01/02/2004	\$0.200	01/02/2004	04/28/2004	\$0.200	\$0.200	-117	\$0.000	100.00%
1.1.4	D. Software Acquisition	12/24/2003	\$0.000	12/24/2003	01/28/2004	\$0.000	\$0.000	-35	\$0.000	0%
1.1.4.1	Contracting: -Award Contract for UIV (NTMI); Contract Mod for UIV	12/24/2003	\$0.000	12/24/2003	01/28/2004	\$0.000	\$0.000	-35	\$0.000	100.00%

	build 3.1									
1.1.5	G. Systems Integration & Testing	07/01/2004	\$1.268	07/01/2004	07/12/2004	\$1.268	\$1.268	-11	\$0.000	100.00%
1.1.5.1	Complete all remaining testing, error correction, data conversion and migration of UIV	07/01/2004	\$1.268	07/01/2004	07/12/2004	\$1.268	\$1.268	-11	\$0.000	100.00%
1.1.5.1.1	UIV 3.0.1 and 3.0.2-- Finish all Testing and Problem Resolution	01/11/2004	\$0.120	01/11/2004	01/28/2004	\$0.120	\$0.120	-17	\$0.000	100.00%
1.1.5.1.1.1	Finish all SAT (Systems Acceptance Testing) and problem correctn for versn 3.0.1 and 3.0.2; Reconcile interpretatn of BRD (Contractor & HUD); Finish all UAT (User Acceptance Testing) and NTMI Programming and testing of fixes for versn 3.0.1 and 3.0.2	01/11/2004	\$0.055	01/11/2004	01/28/2004	\$0.055	\$0.055	-17	\$0.000	100.00%
1.1.5.1.1.1	Install UIV vers. 3.0.1 in test environment; Data Conversn (2.2.2-3.0.1); Identify and make UIV testing team personnel available; PIH approval of contract mod for improvts within build 3.1 and SQL conversion; HUD negotiate and Issue contract mod build 3	01/05/2004	\$0.065	01/05/2004	01/20/2004	\$0.065	\$0.065	-15	\$0.000	100.00%
1.1.5.1.2	UIV 3.0.3 (was 3.1) Development, Deployment at HUD, Testing	04/26/2004	\$0.635	04/26/2004	05/05/2004	\$0.635	\$0.635	-9	\$0.000	100.00%
1.1.5.1.2.1	Data Conversion (2.2.2 to 3.0.3); HARTS Request, test center testing, build 3.0.3; Deployment installation build 3.0.3; Training / transition Pilot Program to UIV 3.0.3 usage	04/26/2004	\$0.050	04/26/2004	05/05/2004	\$0.050	\$0.050	-9	\$0.000	100.00%
1.1.5.1.2.2	Prepare Requirements document(s) for build 3.0.3 and create Reqmts Traceability Matrix; NTMI Develop, code, and test UIV Build 3.0.3 (includes priority enhancements per reqmts docs)	02/19/2004	\$0.025	02/19/2004	03/05/2004	\$0.025	\$0.025	-15	\$0.000	100.00%
1.1.5.1.2.3	SAT (Systems Acceptance Testing) and problem correction for version 3.0.3; UAT (User Acceptance Testing) for version 3.0.3; NTMI Programming and testing of fixes for UAT deficiencies for 3.0.3	03/28/2004	\$0.028	03/28/2004	04/06/2004	\$0.028	\$0.028	-9	\$0.000	100.00%
1.1.5.1.2.4	Update / Develop technical documentation for Build 3.0.3 (NTMI confirm duration); NTMI deliver UIV build 3.0.3; Install UIV version 3.0.3 in test environment; Identify and make UIV testing team personnel available	03/04/2004	\$0.532	03/04/2004	03/09/2004	\$0.532	\$0.532	-5	\$0.000	100.00%
1.1.5.1.3	UIV 3.1 SQL Conversion--Develop, Deploy at HUD, Test, migrate	07/01/2004	\$0.513	07/01/2004	07/12/2004	\$0.513	\$0.513	-11	\$0.000	100.00%
1.1.5.1.3.1	IV&V contracting process--first and second 20 days of process; IV&V	06/08/2004	\$0.250	06/08/2004	06/10/2004	\$0.250	\$0.250	-2	\$0.000	100.00%

	contracting process-- third segment of process: SAT (Systems Acceptance Testing) and problem correction for version 3.2 (a-b)									
1.1.5.1.3.	NTMI develop, code and test Build 3.1 (SQL Conversion) (a-b); NTMI deliver UIV build 3.2 (SQL Conversion); Data conversion (3.0.3 to 3.1); Install UIV version 3.1 in test environment	04/17/2004	\$0.205	04/17/2004	05/04/2004	\$0.205	\$0.205	-17	\$0.000	100.00%
1.1.5.1.3.	User Acceptance Testing for versn 3.1; NTMI Programming and testing of fixes for UAT deficiencies for 3.1; HARTS Request , test center testing, build 3.1; Deployment installatn build 3.1; All migratn activities complete, UIV 3.1 fully ready for ac	07/01/2004	\$0.058	07/01/2004	07/12/2004	\$0.058	\$0.058	-11	\$0.000	100.00%
1.1.6	I. Future Operation and Enhancements-Part I	07/12/2004	\$0.000	07/12/2004	07/12/2004	\$0.000	\$0.000	0	\$0.000	100.00%
1.2	PHASE 2	09/01/2009	\$8.572	09/01/2009	07/31/2006	\$8.998	\$3.761	1128	\$5.237	12.13%
1.2.1	EIV Release 3.2 Feb 05 Release: Enhancements	12/30/2004	\$0.721	12/30/2004	02/18/2005	\$0.721	\$0.706	-50	\$0.015	98.25%
1.2.1.1	UIV Build 4 Development	12/26/2004	\$0.511	12/26/2004	02/18/2005	\$0.511	\$0.632	-54	(\$0.121)	100.00%
1.2.1.1.1	A. Project Initiation/Planning: -Part 1	07/15/2004	\$0.026	07/15/2004	01/31/2005	\$0.026	\$0.089	-200	(\$0.063)	100.00%
1.2.1.1.2	B. Requirements Definition: -Part 1	08/06/2004	\$0.102	08/06/2004	01/03/2005	\$0.102	\$0.086	-150	\$0.016	100.00%
1.2.1.1.3	C. System Design: -Part 1	09/05/2004	\$0.102	09/05/2004	01/04/2005	\$0.102	\$0.070	-121	\$0.032	100.00%
1.2.1.1.4	D. Software Acquisition: - Part 1	07/19/2004	\$0.010	07/19/2004	09/06/2004	\$0.010	\$0.000	-49	\$0.010	100.00%
1.2.1.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	07/19/2004	\$0.010	07/19/2004	09/06/2004	\$0.010	\$0.000	-49	\$0.010	100.00%
1.2.1.1.6	F. New Development/Perfective Maintenance	10/27/2004	\$0.148	10/27/2004	12/21/2004	\$0.148	\$0.300	-55	(\$0.152)	100.00%
1.2.1.1.6.	New Development/Perfective Maintenance - part 1 and 2	10/27/2004	\$0.148	10/27/2004	12/21/2004	\$0.148	\$0.300	-55	(\$0.152)	100.00%
1.2.1.1.7	G. Systems Integration & Testing: -Part 1	12/06/2004	\$0.087	12/06/2004	02/01/2005	\$0.087	\$0.086	-57	\$0.001	100.00%
1.2.1.1.8	H. Installation & Deployment: -Part 1	12/26/2004	\$0.026	12/26/2004	02/18/2005	\$0.026	\$0.001	-54	\$0.025	100.00%
1.2.1.2	UIV Build 4 Maintenance	12/30/2004	\$0.210	12/30/2004	02/06/2005	\$0.210	\$0.074	-38	\$0.136	94.00%
1.2.1.2.1	I. Systems Operation: - Part 1 through 6	12/30/2004	\$0.105	12/30/2004		\$0.105	\$0.005		\$0.100	88.00%
1.2.1.2.2	J. Corrective & Adaptive Maintenance : -Part 1 through 6	11/12/2004	\$0.105	11/12/2004	02/06/2005	\$0.105	\$0.069	-86	\$0.036	100.00%
1.2.2	EIV Release 4 Sept 05 Release: New Hires	04/28/2005	\$0.481	04/28/2005	09/30/2005	\$0.481	\$1.005	-155	(\$0.524)	79.63%
1.2.2.1	UIV Build 5 Development	04/28/2005	\$0.341	04/28/2005	09/30/2005	\$0.341	\$0.798	-155	(\$0.457)	77.43%
1.2.2.1.1	A. Project Initiation/Planning: -Part 1	01/05/2005	\$0.017	01/05/2005	03/31/2005	\$0.017	\$0.035	-85	(\$0.018)	100.00%
1.2.2.1.2	B. Requirements Definition: -Part 1	01/15/2005	\$0.068	01/15/2005	05/10/2005	\$0.068	\$0.108	-115	(\$0.040)	100.00%
	C. System Design: -Part	02/06/2005	\$0.068	02/06/2005	05/31/2005	\$0.068	\$0.183	-114	(\$0.115)	100.00%

1.2.2.1.3	1										
1.2.2.1.4	D. Software Acquisition: -Part 1	01/07/2005	\$0.007	01/07/2005	02/24/2005	\$0.007	\$0.032	-48	(\$0.025)	100.00%	
1.2.2.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	01/07/2005	\$0.007	01/07/2005	02/28/2005	\$0.007	\$0.000	-52	\$0.007	100.00%	
1.2.2.1.6	F. New Development/Perfective Maintenance: -Part 1	03/16/2005	\$0.099	03/16/2005	07/05/2005	\$0.099	\$0.291	-111	(\$0.192)	98.00%	
1.2.2.1.7	G. Systems Integration & Testing: -Part 1	04/15/2005	\$0.058	04/15/2005	08/29/2005	\$0.058	\$0.116	-136	(\$0.058)	0%	
1.2.2.1.8	H. Installation & Deployment: -Part 1	04/28/2005	\$0.017	04/28/2005	09/30/2005	\$0.017	\$0.033	-155	(\$0.016)	0%	
1.2.2.2	UIV Build 5 Maintenance	04/28/2005	\$0.140	04/28/2005	09/16/2005	\$0.140	\$0.207	-141	(\$0.067)	85.00%	
1.2.2.2.1	I. Systems Operation: -Part 1 through 4	04/28/2005	\$0.070	04/28/2005	09/16/2005	\$0.070	\$0.104	-141	(\$0.034)	85.00%	
1.2.2.2.2	J. Corrective & Adaptive Maintenance : -Part 1 through 4	04/28/2005	\$0.070	04/28/2005	09/16/2005	\$0.070	\$0.103	-141	(\$0.033)	85.00%	
1.2.3	EIV Release 5 Mar 06 Release: TASS merger with EIV/Housing + EIV Optimization	08/30/2005	\$0.473	08/30/2005	04/07/2006	\$0.473	\$1.242	-220	(\$0.769)	0%	
1.2.3.1	UIV Build 6 Development	08/30/2005	\$0.237	08/30/2005	04/07/2006	\$0.237	\$1.021	-220	(\$0.784)	0%	
1.2.3.1.1	A. Project Initiation/Planning: -Part 1	05/04/2005	\$0.012	05/04/2005	01/31/2006	\$0.012	\$0.096	-272	(\$0.084)	0%	
1.2.3.1.2	B. Requirements Definition: -Part 1	05/18/2005	\$0.047	05/18/2005	11/30/2005	\$0.047	\$0.134	-196	(\$0.087)	0%	
1.2.3.1.3	C. System Design: -Part 1	06/13/2005	\$0.047	06/13/2005	12/30/2005	\$0.047	\$0.202	-200	(\$0.155)	0%	
1.2.3.1.4	D. Software Acquisition: -Part 1	05/06/2005	\$0.005	05/06/2005	09/16/2005	\$0.005	\$0.036	-133	(\$0.031)	0%	
1.2.3.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	05/06/2005	\$0.005	05/06/2005	09/16/2005	\$0.005	\$0.036	-133	(\$0.031)	0%	
1.2.3.1.6	F. New Development/Perfective Maintenance: -Part 1	07/13/2005	\$0.069	07/13/2005	02/28/2006	\$0.069	\$0.322	-230	(\$0.253)	0%	
1.2.3.1.7	G. Systems Integration & Testing: -Part 1	08/12/2005	\$0.040	08/12/2005	02/28/2006	\$0.040	\$0.151	-200	(\$0.111)	0%	
1.2.3.1.8	H. Installation & Deployment: -Part 1	08/30/2005	\$0.012	08/30/2005	04/07/2006	\$0.012	\$0.044	-220	(\$0.032)	0%	
1.2.3.2	UIV Build 6 Maintenance	08/30/2005	\$0.236	08/30/2005	03/10/2006	\$0.236	\$0.221	-192	\$0.015	0%	
1.2.3.2.1	I. Systems Operation: -Part 1	08/30/2005	\$0.118	08/30/2005	03/10/2006	\$0.118	\$0.114	-192	\$0.004	0%	
1.2.3.2.2	J. Corrective & Adaptive Maintenance: -Part 1	08/30/2005	\$0.118	08/30/2005	03/10/2006	\$0.118	\$0.107	-192	\$0.011	0%	
1.2.4	EIV Release 6 Sept 06 Release: Housing NDNH Implementation	12/29/2005	\$0.473	10/02/2006	07/31/2006	\$1.071	\$0.808	63	\$0.263	0%	
1.2.4.1	EIV Release 6 Development	12/29/2005	\$0.237	10/02/2006	07/31/2006	\$0.723	\$0.578	63	\$0.145	0%	
1.2.4.1.1	A. Project Initiation/Planning: -Part 1	09/05/2005	\$0.012	06/30/2006	06/30/2006	\$0.075	\$0.067	0	\$0.008	0%	
1.2.4.1.2	B. Requirements Definition: -Part 1	09/19/2005	\$0.047	05/31/2006	05/31/2006	\$0.062	\$0.061	0	\$0.001	0%	
1.2.4.1.3	C. System Design: -Part 1	10/13/2005	\$0.047	06/30/2006	06/30/2006	\$0.101	\$0.098	0	\$0.003	0%	
1.2.4.1.4	D. Software Acquisition: -Part 1	09/07/2005	\$0.005	02/27/2006	02/27/2006	\$0.031	\$0.031	0	\$0.000	0%	
1.2.4.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	09/07/2005	\$0.005	02/27/2006	02/27/2006	\$0.031	\$0.031	0	\$0.000	0%	
	F. New	11/14/2005	\$0.069	09/08/2006	07/31/2006	\$0.287	\$0.221	39	\$0.066	0%	

1.2.4.1.6	Development/Perfective Maintenance: -Part 1									
1.2.4.1.7	G. Systems Integration & Testing: -Part 1	12/14/2005	\$0.040	09/08/2006	07/31/2006	\$0.130	\$0.069	39	\$0.061	0%
1.2.4.1.8	H. Installation & Deployment: -Part 1	12/29/2005	\$0.012	10/02/2006		\$0.006				0%
1.2.4.2	EIV Release 6 Maintenance	12/29/2005	\$0.236	09/29/2006	07/31/2006	\$0.348	\$0.230	60	\$0.118	0%
1.2.4.2.1	I. Systems Operation :-Part 1 through 4	12/29/2005	\$0.118	09/29/2006	07/31/2006	\$0.178	\$0.139	60	\$0.039	0%
1.2.4.2.2	J. Corrective & Adaptive Maintenance 1 through 4	12/29/2005	\$0.118	09/29/2006	07/31/2006	\$0.170	\$0.091	60	\$0.079	0%
1.2.5	EIV Release 7 Apr 07 Release: Housning Enhancements	04/27/2006	\$0.473	04/20/2007		\$1.129	\$0.000		\$1.129	0%
1.2.5.1	EIV Release 7 Development	02/28/2006	\$0.237	04/20/2007		\$0.802	\$0.000		\$0.802	0%
1.2.5.1.1	A. Project Initiation/Planning :-Part 1	01/02/2006	\$0.012	03/30/2007		\$0.143	\$0.000		\$0.143	0%
1.2.5.1.2	B. Requirements Definition :-Part 1	01/16/2006	\$0.047	01/31/2007		\$0.088	\$0.000		\$0.088	0%
1.2.5.1.3	C. System Design :-Part 1	01/30/2006	\$0.047	01/31/2007		\$0.096	\$0.000		\$0.096	0%
1.2.5.1.4	D. Software Acquisition :-Part 1	01/04/2006	\$0.005	02/28/2007		\$0.025	\$0.000		\$0.025	0%
1.2.5.1.5	E. Hardware/Infrastructure Acquisition :-Part 1	01/04/2006	\$0.005	02/28/2007		\$0.050	\$0.000		\$0.050	0%
1.2.5.1.6	F. New Development/Perfective Maintenance :-Part 1	02/13/2006	\$0.069	03/30/2007		\$0.227	\$0.000		\$0.227	0%
1.2.5.1.7	G. Systems Integration & Testing :-Part 1	02/21/2006	\$0.040	04/03/2007		\$0.142	\$0.000		\$0.142	0%
1.2.5.1.8	H. Installation & Deployment :-Part 1	02/28/2006	\$0.012	04/20/2007		\$0.031	\$0.000		\$0.031	0%
1.2.5.2	EIV Release 7 Maintenance	04/27/2006	\$0.236	04/20/2007		\$0.327	\$0.000		\$0.327	0%
1.2.5.2.1	I. Systems Operation :-Part 1 through 4	04/27/2006	\$0.118	04/20/2007		\$0.102	\$0.000		\$0.102	0%
1.2.5.2.2	J. Corrective & Adaptive Maintenance :-Part 1 through 4	04/27/2006	\$0.118	04/20/2007		\$0.225	\$0.000		\$0.225	0%
1.2.6	EIV Release 8 Sept 07 System Refinement	08/30/2006	\$1.498	09/28/2007		\$0.966	\$0.000		\$0.966	0%
1.2.6.1	EIV Release 8 Development	08/30/2006	\$1.164	09/21/2007		\$0.716	\$0.000		\$0.716	0%
1.2.6.1.1	A. Project Initiation/Planning :-Part 1	05/03/2006	\$0.058	08/31/2007		\$0.069	\$0.000		\$0.069	0%
1.2.6.1.2	B. Requirements Definition :-Part 1	05/17/2006	\$0.233	06/29/2007		\$0.087	\$0.000		\$0.087	0%
1.2.6.1.3	C. System Design :-Part 1	06/12/2006	\$0.233	07/31/2007		\$0.098	\$0.000		\$0.098	0%
1.2.6.1.4	D. Software Acquisition :-Part 1	05/05/2006	\$0.023	05/01/2007		\$0.025	\$0.000		\$0.025	0%
1.2.6.1.5	E. Hardware/Infrastructure Acquisition :-Part 1	05/05/2006	\$0.023	05/01/2007		\$0.050	\$0.000		\$0.050	0%
1.2.6.1.6	F. New Development/Perfective Maintenance: -Part 1	07/12/2006	\$0.338	08/31/2007		\$0.191	\$0.000		\$0.191	0%
1.2.6.1.7	G. Systems Integration & Testing & Security Doc Prep	08/11/2006	\$0.198	09/07/2007		\$0.178	\$0.000		\$0.178	0%
1.2.6.1.8	H. Installation & Deployment: -Part 1	08/30/2006	\$0.058	09/21/2007		\$0.018	\$0.000		\$0.018	0%
1.2.6.2	EIV Release 8 Maintenance	08/30/2006	\$0.334	09/28/2007		\$0.250	\$0.000		\$0.250	0%

1.2.6.2.1	I. Systems Operation: -Part 1 through 4	08/30/2006	\$0.167	09/21/2007		\$0.079	\$0.000		\$0.079	0%
1.2.6.2.2	J. Corrective & Adaptive Maintenance: -Part 1 through 4	08/30/2006	\$0.167	09/28/2007		\$0.171	\$0.000		\$0.171	0%
1.2.7	EIV Release 9 Apr 08 System Refinement	12/28/2006	\$1.498	04/25/2008		\$1.075	\$0.000		\$1.075	0%
1.2.7.1	EIV Release 9 Development	12/28/2006	\$1.164	04/25/2008		\$0.762	\$0.000		\$0.762	0%
1.2.7.1.1	A. Project Initiation/Planning: -Part 1	09/05/2006	\$0.058	03/31/2008		\$0.069	\$0.000		\$0.069	0%
1.2.7.1.2	B. Requirements Definition: -Part 1	09/19/2006	\$0.233	01/31/2008		\$0.052	\$0.000		\$0.052	0%
1.2.7.1.3	C. System Design: -Part 1	10/13/2006	\$0.233	01/31/2008		\$0.098	\$0.000		\$0.098	0%
1.2.7.1.4	D. Software Acquisition: -Part 1	09/07/2006	\$0.023	04/01/2008		\$0.025	\$0.000		\$0.025	0%
1.2.7.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	09/07/2006	\$0.023	04/01/2008		\$0.050	\$0.000		\$0.050	0%
1.2.7.1.6	F. New Development/Perfective Maintenance: -Part 1	11/14/2006	\$0.338	04/11/2008		\$0.272	\$0.000		\$0.272	0%
1.2.7.1.7	G. Systems Integration & Testing & Security: -Part 1	12/14/2006	\$0.198	03/31/2008		\$0.178	\$0.000		\$0.178	0%
1.2.7.1.8	H. Installation & Deployment: -Part 1	12/28/2006	\$0.058	04/25/2008		\$0.018	\$0.000		\$0.018	0%
1.2.7.2	EIV Release 9 Maintenance	12/28/2006	\$0.334	04/25/2008		\$0.313	\$0.000		\$0.313	0%
1.2.7.2.1	I. Systems Operation: -Part 1 through 4	12/28/2006	\$0.167	04/25/2008		\$0.090	\$0.000		\$0.090	0%
1.2.7.2.2	J. Corrective & Adaptive Maintenance: -Part 1 through 4	12/28/2006	\$0.167	04/25/2008		\$0.223	\$0.000		\$0.223	0%
1.2.8	EIV Release 10 Sept 08 - System Refinements	04/27/2007	\$1.498	09/26/2008		\$0.905	\$0.000		\$0.905	0%
1.2.8.1	UIV Build 10 Development	04/27/2007	\$1.164	09/26/2008		\$0.681	\$0.000		\$0.681	0%
1.2.8.1.1	A. Project Initiation/Planning: -Part 1	01/03/2007	\$0.058	08/29/2008		\$0.046	\$0.000		\$0.046	0%
1.2.8.1.2	B. Requirements Definition: -Part 1	01/17/2007	\$0.233	07/31/2008		\$0.056	\$0.000		\$0.056	0%
1.2.8.1.3	C. System Design: -Part 1	02/12/2007	\$0.233	06/30/2008		\$0.087	\$0.000		\$0.087	0%
1.2.8.1.4	D. Software Acquisition: -Part 1	01/05/2007	\$0.023	06/02/2008		\$0.025	\$0.000		\$0.025	0%
1.2.8.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	01/05/2007	\$0.023	06/02/2008		\$0.050	\$0.000		\$0.050	0%
1.2.8.1.6	F. New Development/Perfective Maintenance: -Part 1	03/14/2007	\$0.338	08/29/2008		\$0.196	\$0.000		\$0.196	0%
1.2.8.1.7	G. Systems Integration & Testing: -Part 1	04/13/2007	\$0.198	09/05/2008		\$0.203	\$0.000		\$0.203	0%
1.2.8.1.8	H. Installation & Deployment: -Part 1	04/27/2007	\$0.058	09/26/2008		\$0.018	\$0.000		\$0.018	0%
1.2.8.2	UIV Build 10 Maintenance: -Part 1	04/27/2007	\$0.334	09/26/2008		\$0.224	\$0.000		\$0.224	0%
1.2.8.2.1	I. Systems Operation: -Part 1 through 4	04/27/2007	\$0.167	09/26/2008		\$0.064	\$0.000		\$0.064	0%
1.2.8.2.2	J. Corrective & Adaptive Maintenance: -Part 1 through 4	04/27/2007	\$0.167	09/26/2008		\$0.160	\$0.000		\$0.160	0%
1.2.9	EIV Release 11 Apr 09 - System Refinement	04/24/2009	\$1.089	04/24/2009		\$1.089				0%
	EIV Release 11	04/24/2009	\$0.785	04/24/2009		\$0.785				0%

1.2.9.1	Development									
1.2.9.1.2	B. Requirements Definition	01/30/2009	\$0.052	01/30/2009		\$0.052				0%
1.2.9.1.3	C. System Design	01/30/2009	\$0.097	01/30/2009		\$0.097				0%
1.2.9.1.4	D. Software Acquisition	04/01/2009	\$0.025	04/01/2009		\$0.025				0%
1.2.9.1.5	E. Hardware/Infrastructure Acquisition	04/01/2009	\$0.050	04/01/2009		\$0.050				0%
1.2.9.1.6	F. New Development/Perfective Maintenance	04/10/2009	\$0.271	04/10/2009		\$0.271				0%
1.2.9.1.7	G. System Testing	04/10/2009	\$0.203	04/10/2009		\$0.203				0%
1.2.9.1.8	H. Training and Deployment	04/24/2009	\$0.018	04/24/2009		\$0.018				0%
1.2.9.1.1	A. Project Initiation/Planning	03/31/2009	\$0.069	03/31/2009		\$0.069				0%
1.2.9.2	EIV Release 11 Maintenance	04/24/2009	\$0.304	04/24/2009		\$0.304				0%
1.2.9.2.1	I. Systems Operation	04/24/2009	\$0.087	04/10/2009		\$0.087				0%
1.2.9.2.2	J. Corrective and Adaptive Maintenance	04/24/2009	\$0.217	04/24/2009		\$0.217				0%
1.2.10	EIV Release 12 Apr 09 Common Services	09/01/2009	\$0.368	09/01/2009		\$1.088				0%
1.2.10.1	EIV Release 12 Development	07/31/2009	\$0.305	07/31/2009		\$1.025				0%
1.2.10.1.2	B. Requirements Definition	07/31/2009	\$0.078	07/31/2009		\$0.078				0%
1.2.10.1.3	C. System Design	06/30/2009	\$0.122	06/30/2009		\$0.122				0%
1.2.10.1.4	D. Software Acquisition	07/01/2009	\$0.025	07/01/2009		\$0.025				0%
1.2.10.1.5	E. Hardware/Infrastructure Acquisition	07/01/2009	\$0.080	07/01/2009		\$0.800				0%
1.2.10.1.1	A. Project Initiation/Planning	09/01/2009	\$0.063	09/01/2009		\$0.063				0%
1.3	PHASE 3	10/30/2012	\$12.100	10/30/2012		\$12.100				0%
1.3.1	Migrate to New EA with Oracle	04/01/2010	\$8.100	04/01/2010		\$8.100				0%
1.3.2	Implement Additional Information Sources	10/30/2012	\$4.000	10/30/2012		\$4.000				0%
R8M	Maintenance during development of EIV Release 8	11/16/2007	\$183,900.000							0%
R9D	Development of EIV Release 9 implementing program office initiatives.	04/11/2008	\$508,200.000							0%
R9M	Maintenance during the period of the development of EIV Release 9.	04/11/2008	\$380,000.000							0%
R10D	Development of EIV Release 10 E-signature initiative applied to HUD Business partner certification.	10/10/2008	\$328,800.000							0%
R10D	Development of EIV Release 10 E-signature initiative applied to HUD Business partner certification.	10/10/2008	\$328,800.000							0%
R10D	Development of EIV Release 10 implementing E-signature functionality for paperless business partner certification.	10/10/2008	\$328,800.000							0%

R10M	Maintenance support during development of EIV Release 10.	10/10/2008	\$306,000.000							0%
R11D	Development of EIV Release 11 system code optimization and planning for migration to new EA.	04/10/2009	\$409,300.000							0%
R11M	Maintenance support during period of development of EIV 11	04/10/2009	\$266,100.000							0%
R12D	EIV Release 12 migration to new Enterprise Architecture.	10/09/2009	\$412,700.000							0%
R12M	Maintenance support during period of development of EIV 12.	10/09/2009	\$284,200.000							0%
R13D	Release 13 development for optimization of functionality on new enterprise architecture platform.	04/09/2010	\$482,900.000							0%
R13M	Maintenance during period of development of EIV Release 13	04/09/2010	\$325,000.000							0%
R13M	Maintenance during period of development of EIV Release 13	04/09/2010	\$325,000.000							0%
R8D	Development for EIV Release 8 implementing system improvements and consolidating back-end functionality.	11/16/2007	\$332,600.000							0%
Project Totals		10/30/2012	\$5,202,323.845	10/30/2012	07/31/2006	\$24.271	\$6.934	2283	\$17.337	17.57

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? 1/10/2006

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.

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 Contractor Only information (Government Only/Contractor Only/Both)?

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 1667990 EIV	04/27/2007	\$10.288	05/31/2005	\$4.686	696	\$5.602
1.1	PHASE 1	07/12/2004	\$3.173	07/12/2004	\$3.173	0	\$0.000
1.1.1	A. Project Initiation/Planning	10/15/2002	\$0.000	10/15/2002	\$0.000	0	\$0.000
1.1.1.1	UIV preparations: -UIV Kickoff Meeting	10/15/2002	\$0.000	10/15/2002	\$0.000	0	\$0.000
1.1.2	B. Requirements Definition	04/30/2003	\$0.000	04/30/2003	\$0.000	0	\$0.000
1.1.2.1	Develop Draft CONOPS: -Deliver Draft Conops	10/15/2002	\$0.000	10/15/2002	\$0.000	0	\$0.000
1.1.2.2	Develop Draft FRD: -Deliver Draft FRD	10/15/2002	\$0.000	10/15/2002	\$0.000	0	\$0.000
1.1.2.3	Develop BRD for BUILD 3.0: -Deliver BRD for 3.0	04/30/2003	\$0.000	04/30/2003	\$0.000	0	\$0.000
1.1.3	C. System Design, Develop, Test, and QA	03/07/2004	\$1.905	04/28/2004	\$1.905	-52	\$0.000
1.1.3.1	UIV Build 1: Initial Prototype Web Pages: -design develop, test and QA Build 1 - phase I through (a-b)	05/04/2003	\$0.955	07/30/2003	\$0.955	-87	\$0.000
1.1.3.2	UIV Build 2: Enhancements to Pages and Bug Fixes: -design develop, test and QA Build 2.0 - phase I through III(a-b)	07/16/2003	\$0.478	10/15/2003	\$0.478	-91	\$0.000
1.1.3.3	UIV Build 2.1: Income Source Profile : -design develop, test and QA Build 2.1 (a-b); Deliver Build 2.1	05/03/2003	\$0.000	05/16/2003	\$0.000	-13	\$0.000
1.1.3.4	UIV Build 2.2: Bug Fixes and Page Layout and Format Enhancements: - design develop, test and QA Build2.2 - phase I through II(a-b); Deliver Build 2.2	07/16/2003	\$0.132	08/08/2003	\$0.132	-23	\$0.000
1.1.3.5	UIV Build 3.0.1: Bug Fixes and Updates to Pages, including Search Page and Security Enhancements: -design develop, test and QA Build 3.0 - phase I through II(a-b); Deliver Build 3.0	08/23/2003	\$0.000	10/03/2003	\$0.000	-41	\$0.000
1.1.3.6	UIV Build 3.1: Bug Fixes and Enhancements to Administrative Functions: -design develop, test and QA Build 3.0; Deliver Build 3.1	03/07/2004	\$0.140	03/16/2004	\$0.140	-9	\$0.000
1.1.3.7	UIV Build 3.2: Migration to SQL Server: -design develop, test and QA Build2.2 (a-b); Deliver Build 3.2	01/02/2004	\$0.200	04/28/2004	\$0.200	-117	\$0.000
1.1.4	D. Software Acquisition	12/24/2003	\$0.000	01/28/2004	\$0.000	-35	\$0.000
1.1.4.1	Contracting: -Award Contract for UIV (NTMI); Contract Mod for UIV build 3.1	12/24/2003	\$0.000	01/28/2004	\$0.000	-35	\$0.000
1.1.5	G. Systems Integration & Testing	07/01/2004	\$1.268	07/12/2004	\$1.268	-11	\$0.000
1.1.5.1	Complete all remaining testing, error correction, data conversion and migration of UIV	07/01/2004	\$1.268	07/12/2004	\$1.268	-11	\$0.000
1.1.5.1.1	UIV 3.0.1 and 3.0.2--Finish all Testing and Problem Resolution	01/11/2004	\$0.120	01/28/2004	\$0.120	-17	\$0.000
1.1.5.1.1.1	Finish all SAT (Systems Acceptance Testing) and problem correctn for versn 3.0.1 and 3.0.2; Reconcile interpretatn of BRD (Contractor & HUD); Finish all UAT (User Acceptance Testing) and NTMI Programming and testing of fixes for versn 3.0.1 and 3.0.2	01/11/2004	\$0.055	01/28/2004	\$0.055	-17	\$0.000
1.1.5.1.1.1	Install UIV vers. 3.0.1 in test environment; Data Conversn (2.2.2 to 3.0.1); Identify and make UIV testing team personnel available; PIH approval of contract mod for improvts within build 3.1 and SQL conversion; HUD negotiate and Issue contract mod build 3	01/05/2004	\$0.065	01/20/2004	\$0.065	-15	\$0.000
1.1.5.1.2	UIV 3.0.3 (was 3.1) Development, Deployment at HUD, Testing	04/26/2004	\$0.635	05/05/2004	\$0.635	-9	\$0.000
1.1.5.1.2	Data Conversion (2.2.2 to 3.0.3); HARTS Request , test center testing, build 3.0.3; Deployment installation build 3.0.3; Training / transition Pilot Program to UIV 3.0.3 usage	04/26/2004	\$0.050	05/05/2004	\$0.050	-9	\$0.000
1.1.5.1.2	Prepare Requirements document(s) for build 3.0.3 and create Reqmts Traceability Matrix; NTMI Develop, code, and test UIV Build 3.0.3 (includes priority enhancements per reqmts docs)	02/19/2004	\$0.025	03/05/2004	\$0.025	-15	\$0.000
1.1.5.1.2	SAT (Systems Acceptance Testing) and problem correction for version 3.0.3; UAT (User Acceptance Testing) for version 3.0.3; NTMI Programming and testing of fixes for UAT deficiencies for 3.0.3	03/28/2004	\$0.028	04/06/2004	\$0.028	-9	\$0.000
1.1.5.1.2	Update / Develop technical documentation for Build 3.0.3 (NTMI confirm duration); NTMI deliver UIV build 3.0.3; Install UIV version 3.0.3 in test environment; Identify and make UIV testing team personnel available	03/04/2004	\$0.532	03/09/2004	\$0.532	-5	\$0.000
1.1.5.1.3	UIV 3.1 SQL Conversion--Develop, Deploy at HUD, Test, migrate	07/01/2004	\$0.513	07/12/2004	\$0.513	-11	\$0.000

1.1.5.1.3.	IV&V contracting process--first and second 20 days of process; IV&V contracting process--third segment of process; SAT (Systems Acceptance Testing) and problem correction for version 3.2 (a-b)	06/08/2004	\$0.250	06/10/2004	\$0.250	-2	\$0.000
1.1.5.1.3.	NTMI develop, code and test Build 3.1 (SQL Conversion) (a-b);NTMI deliver UIV build 3.2 (SQL Conversion);Data conversion (3.0.3 to 3.1); Install UIV version 3.1 in test environment	04/17/2004	\$0.205	05/04/2004	\$0.205	-17	\$0.000
1.1.5.1.3.	UAT (User Acceptance Testing) for versn 3.1;NTMI Programming and testing of fixes for UAT deficiencies for 3.1;HARTS Request , test center testing, build 3.1;Deployment installatn build 3.1;All migratn activities complete, UIV 3.1 fully ready for access	07/01/2004	\$0.058	07/12/2004	\$0.058	-11	\$0.000
1.1.6	I. Future Operation and Enhancements-Part I	07/12/2004	\$0.000	07/12/2004	\$0.000	0	\$0.000
1.2	PHASE 2	04/27/2007	\$7.115	05/31/2005	\$1.513	696	\$5.602
1.2.1	UIV Build 4 Dec 04 Release: Enhancements	12/30/2004	\$0.721	02/18/2005	\$0.706	-50	\$0.015
1.2.1.1	UIV Build 4 Development	12/26/2004	\$0.511	02/18/2005	\$0.632	-54	(\$0.121)
1.2.1.1.1	A. Project Initiation/Planning: -Part 1	07/15/2004	\$0.026	01/31/2005	\$0.089	-200	(\$0.063)
1.2.1.1.2	B. Requirements Definition: -Part 1	08/06/2004	\$0.102	01/03/2005	\$0.086	-150	\$0.016
1.2.1.1.3	C. System Design: -Part 1	09/05/2004	\$0.102	01/04/2005	\$0.070	-121	\$0.032
1.2.1.1.4	D. Software Acquisition: -Part 1	07/19/2004	\$0.010	09/06/2004	\$0.000	-49	\$0.010
1.2.1.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	07/19/2004	\$0.010	09/06/2004	\$0.000	-49	\$0.010
1.2.1.1.6	F. New Development/Perfective Maintenance	10/27/2004	\$0.148	12/21/2004	\$0.300	-55	(\$0.152)
1.2.1.1.6.	New Development/Perfective Maintenance - part 1 and 2	10/27/2004	\$0.148	12/21/2004	\$0.300	-55	(\$0.152)
1.2.1.1.7	G. Systems Integration & Testing: -Part 1	12/06/2004	\$0.087	02/01/2005	\$0.086	-57	\$0.001
1.2.1.1.8	H. Installation & Deployment: -Part 1	12/26/2004	\$0.026	02/18/2005	\$0.001	-54	\$0.025
1.2.1.2	UIV Build 4 Maintenance	12/30/2004	\$0.210	02/06/2005	\$0.074	-38	\$0.136
1.2.1.2.1	I. Systems Operation: -Part 1 through 6	12/30/2004	\$0.105		\$0.005		\$0.100
1.2.1.2.2	J. Corrective & Adaptive Maintenance : -Part 1 through 6	11/12/2004	\$0.105	02/06/2005	\$0.069	-86	\$0.036
1.2.2	UIV Build 5 Apr 05 Release: New Hires + Commuters + MTW entities	04/28/2005	\$0.481	05/31/2005	\$0.807	-33	(\$0.326)
1.2.2.1	UIV Build 5 Development	04/28/2005	\$0.341	05/31/2005	\$0.619	-33	(\$0.278)
1.2.2.1.1	A. Project Initiation/Planning: -Part 1	01/05/2005	\$0.017	03/31/2005	\$0.035	-85	(\$0.018)
1.2.2.1.2	B. Requirements Definition: -Part 1	01/15/2005	\$0.068	05/10/2005	\$0.108	-115	(\$0.040)
1.2.2.1.3	C. System Design: -Part 1	02/06/2005	\$0.068	05/31/2005	\$0.183	-114	(\$0.115)
1.2.2.1.4	D. Software Acquisition: -Part 1	01/07/2005	\$0.007	02/24/2005	\$0.032	-48	(\$0.025)
1.2.2.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	01/07/2005	\$0.007	02/28/2005	\$0.000	-52	\$0.007
1.2.2.1.6	F. New Development/Perfective Maintenance: -Part 1	03/16/2005	\$0.099		\$0.261		(\$0.162)
1.2.2.1.7	G. Systems Integration & Testing: -Part 1	04/15/2005	\$0.058		\$0.000		\$0.058
1.2.2.1.8	H. Installation & Deployment: -Part 1	04/28/2005	\$0.017		\$0.000		\$0.017
1.2.2.2	UIV Build 5 Maintenance	04/28/2005	\$0.140		\$0.188		(\$0.048)
1.2.2.2.1	I. Systems Operation: -Part 1 through 4	04/28/2005	\$0.070		\$0.082		(\$0.012)
1.2.2.2.2	J. Corrective & Adaptive Maintenance : -Part 1 through 4	04/28/2005	\$0.070		\$0.106		(\$0.036)
1.2.3	UIV Build 6 Aug 05 Release: TASS merger with UIV	08/30/2005	\$0.473		\$0.000		\$0.473
1.2.3.1	UIV Build 6 Development	08/30/2005	\$0.237		\$0.000		\$0.237
1.2.3.1.1	A. Project Initiation/Planning: -Part 1	05/04/2005	\$0.012		\$0.000		\$0.012
1.2.3.1.2	B. Requirements Definition: -Part 1	05/18/2005	\$0.047		\$0.000		\$0.047

1.2.3.1.3	C. System Design: -Part 1	06/13/2005	\$0.047		\$0.000		\$0.047
1.2.3.1.4	D. Software Acquisition: -Part 1	05/06/2005	\$0.005		\$0.000		\$0.005
1.2.3.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	05/06/2005	\$0.005		\$0.000		\$0.005
1.2.3.1.6	F. New Development/Perfective Maintenance: -Part 1	07/13/2005	\$0.069		\$0.000		\$0.069
1.2.3.1.7	G. Systems Integration & Testing: -Part 1	08/12/2005	\$0.040		\$0.000		\$0.040
1.2.3.1.8	H. Installation & Deployment: -Part 1	08/30/2005	\$0.012		\$0.000		\$0.012
1.2.3.2	UIV Build 6 Maintenance	08/30/2005	\$0.236		\$0.000		\$0.236
1.2.3.2.1	I. Systems Operation: -Part 1	08/30/2005	\$0.118		\$0.000		\$0.118
1.2.3.2.2	J. Corrective & Adaptive Maintenance: -Part 1	08/30/2005	\$0.118		\$0.000		\$0.118
1.2.4	UIV Build 7 Dec 05 Release: Maintenance + Initial Intake	12/29/2005	\$0.473		\$0.000		\$0.473
1.2.4.1	UIV Build 7 Development	12/29/2005	\$0.237		\$0.000		\$0.237
1.2.4.1.1	A. Project Initiation/Planning: -Part 1	09/05/2005	\$0.012		\$0.000		\$0.012
1.2.4.1.2	B. Requirements Definition: -Part 1	09/19/2005	\$0.047		\$0.000		\$0.047
1.2.4.1.3	C. System Design: -Part 1	10/13/2005	\$0.047		\$0.000		\$0.047
1.2.4.1.4	D. Software Acquisition: -Part 1	09/07/2005	\$0.005		\$0.000		\$0.005
1.2.4.1.5	E. Hardware/Infrastructure Acquisition: -Part 1	09/07/2005	\$0.005		\$0.000		\$0.005
1.2.4.1.6	F. New Development/Perfective Maintenance: -Part 1	11/14/2005	\$0.069		\$0.000		\$0.069
1.2.4.1.7	G. Systems Integration & Testing: -Part 1	12/14/2005	\$0.040		\$0.000		\$0.040
1.2.4.1.8	H. Installation & Deployment: -Part 1	12/29/2005	\$0.012		\$0.000		\$0.012
1.2.4.2	UIV Build 7 Maintenance	12/29/2005	\$0.236		\$0.000		\$0.236
1.2.4.2.1	I. Systems Operation : -Part 1 through 4	12/29/2005	\$0.118		\$0.000		\$0.118
1.2.4.2.2	J. Corrective & Adaptive Maintenance 1 through 4	12/29/2005	\$0.118		\$0.000		\$0.118
1.2.5	UIV Build 8 Apr 06 Release: Maintenance	04/27/2006	\$0.473		\$0.000		\$0.473
1.2.5.1	UIV Build 8 Development	02/28/2006	\$0.237		\$0.000		\$0.237
1.2.5.1.1	A. Project Initiation/Planning : -Part 1	01/02/2006	\$0.012		\$0.000		\$0.012
1.2.5.1.2	B. Requirements Definition : -Part 1	01/16/2006	\$0.047		\$0.000		\$0.047
1.2.5.1.3	C. System Design : -Part 1	01/30/2006	\$0.047		\$0.000		\$0.047
1.2.5.1.4	D. Software Acquisition : -Part 1	01/04/2006	\$0.005		\$0.000		\$0.005
1.2.5.1.5	E. Hardware/Infrastructure Acquisition : -Part 1	01/04/2006	\$0.005		\$0.000		\$0.005
1.2.5.1.6	F. New Development/Perfective Maintenance : -Part 1	02/13/2006	\$0.069		\$0.000		\$0.069
1.2.5.1.7	G. Systems Integration & Testing : -Part 1	02/21/2006	\$0.040		\$0.000		\$0.040
1.2.5.1.8	H. Installation & Deployment : -Part 1	02/28/2006	\$0.012		\$0.000		\$0.012
1.2.5.2	UIV Build 8 Maintenance	04/27/2006	\$0.236		\$0.000		\$0.236
1.2.5.2.1	I. Systems Operation : -Part 1 through 4	04/27/2006	\$0.118		\$0.000		\$0.118
1.2.5.2.2	J. Corrective & Adaptive Maintenance : -Part 1 through 4	04/27/2006	\$0.118		\$0.000		\$0.118
1.2.6	UIV Build 9 Aug 06 Release: FEA + Family Composition + Criminal + Assets + TANF data	08/30/2006	\$1.498		\$0.000		\$1.498

1.2.6.1	UIV Build 9 Development	08/30/2006	\$1.164		\$0.000		\$1.164
1.2.6.1.1	A. Project Initiation/Planning :-Part 1	05/03/2006	\$0.058		\$0.000		\$0.058
1.2.6.1.2	B. Requirements Definition :-Part 1	05/17/2006	\$0.233		\$0.000		\$0.233
1.2.6.1.3	C. System Design :-Part 1	06/12/2006	\$0.233		\$0.000		\$0.233
1.2.6.1.4	D. Software Acquisition :-Part 1	05/05/2006	\$0.023		\$0.000		\$0.023
1.2.6.1.5	E. Hardware/Infrastructure Acquisition :-Part 1	05/05/2006	\$0.023		\$0.000		\$0.023
1.2.6.1.6	F. New Development/Perfective Maintenance:-Part 1	07/12/2006	\$0.338		\$0.000		\$0.338
1.2.6.1.7	G. Systems Integration & Testing :-Part 1	08/11/2006	\$0.198		\$0.000		\$0.198
1.2.6.1.8	H. Installation & Deployment:-Part 1	08/30/2006	\$0.058		\$0.000		\$0.058
1.2.6.2	UIV Build 9 Maintenance	08/30/2006	\$0.334		\$0.000		\$0.334
1.2.6.2.1	I. Systems Operation:-Part 1 through 4	08/30/2006	\$0.167		\$0.000		\$0.167
1.2.6.2.2	J. Corrective & Adaptive Maintenance:-Part 1 through 4	08/30/2006	\$0.167		\$0.000		\$0.167
1.2.7	UIV Build 10 Dec 06 Release: Fixes + Citizenship	12/28/2006	\$1.498		\$0.000		\$1.498
1.2.7.1	UIV Build 10 Development	12/28/2006	\$1.164		\$0.000		\$1.164
1.2.7.1.1	A. Project Initiation/Planning:-Part 1	09/05/2006	\$0.058		\$0.000		\$0.058
1.2.7.1.2	B. Requirements Definition:-Part 1	09/19/2006	\$0.233		\$0.000		\$0.233
1.2.7.1.3	C. System Design:-Part 1	10/13/2006	\$0.233		\$0.000		\$0.233
1.2.7.1.4	D. Software Acquisition:-Part 1	09/07/2006	\$0.023		\$0.000		\$0.023
1.2.7.1.5	E. Hardware/Infrastructure Acquisition:-Part 1	09/07/2006	\$0.023		\$0.000		\$0.023
1.2.7.1.6	F. New Development/Perfective Maintenance:-Part 1	11/14/2006	\$0.338		\$0.000		\$0.338
1.2.7.1.7	G. Systems Integration & Testing:-Part 1	12/14/2006	\$0.198		\$0.000		\$0.198
1.2.7.1.8	H. Installation & Deployment:-Part 1	12/28/2006	\$0.058		\$0.000		\$0.058
1.2.7.2	UIV Build 10 Maintenance	12/28/2006	\$0.334		\$0.000		\$0.334
1.2.7.2.1	I. Systems Operation:-Part 1 through 4	12/28/2006	\$0.167		\$0.000		\$0.167
1.2.7.2.2	J. Corrective & Adaptive Maintenance:-Part 1 through 4	12/28/2006	\$0.167		\$0.000		\$0.167
1.2.8	UIV Build 11 Apr 07 Release: Fixes	04/27/2007	\$1.498		\$0.000		\$1.498
1.2.8.1	UIV Build 10 Development	04/27/2007	\$1.164		\$0.000		\$1.164
1.2.8.1.1	A. Project Initiation/Planning:-Part 1	01/03/2007	\$0.058		\$0.000		\$0.058
1.2.8.1.2	B. Requirements Definition:-Part 1	01/17/2007	\$0.233		\$0.000		\$0.233
1.2.8.1.3	C. System Design:-Part 1	02/12/2007	\$0.233		\$0.000		\$0.233
1.2.8.1.4	D. Software Acquisition:-Part 1	01/05/2007	\$0.023		\$0.000		\$0.023
1.2.8.1.5	E. Hardware/Infrastructure Acquisition:-Part 1	01/05/2007	\$0.023		\$0.000		\$0.023
1.2.8.1.6	F. New Development/Perfective Maintenance:-Part 1	03/14/2007	\$0.338		\$0.000		\$0.338
1.2.8.1.7	G. Systems Integration & Testing:-Part 1	04/13/2007	\$0.198		\$0.000		\$0.198
1.2.8.1.8	H. Installation & Deployment:-Part 1	04/27/2007	\$0.058		\$0.000		\$0.058
1.2.8.2	UIV Build 10 Maintenance:-Part 1	04/27/2007	\$0.334		\$0.000		\$0.334
	I. Systems Operation:-Part 1 through 4	04/27/2007	\$0.167		\$0.000		\$0.167

1.2.8.2.1							
1.2.8.2.2	J. Corrective & Adaptive Maintenance:-Part 1 through 4	04/27/2007	\$0.167		\$0.000		\$0.167
1.29	EIV Release 12 Apr 09 Common Services	09/01/2009	\$0.369				
Project Totals		09/01/2009	\$10.657	05/31/2005	\$4.686	1554	\$5.971

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? 8/13/2006

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	1 Status Quo Option. Status quo: maintenance but no further development.	This is a maintenance only option. It bypasses any attempt for additional value. It achieves no incremental net present value or ROI. The rationale is that by FY 2008, EIV would be a mature system.	7323.3	0
True	Option 2 Data Mining. Reformulate EIV as a portal using a business ontology application tool tapping IMS and TRACS pilot testing Digital Harbor. EIV could provide new analyses based on individual and group characteristics and trends.	EIV as a data mining application would link data from IMS and TRACS to income data acquired from SSA and NDNH. It would continue to provide online access to data concerning tenants of HUD business partners but would be become able to provide new, highly useful analyses about the characteristics of the tenant pools, their income and income trends, patterns in the ways that predicted income differ from actual, groups most likely to have actual discrepancies as opposed to false positives, etc.	23783.2	1401232.7
True	Option 3 Service-Oriented Architecture. Implement Oracle for Oracle Business Process Execution Language (BPEL) to end limitations of antiquated batch processes. Tap into data as it becomes available. Makes it feasible to extend EIV to new sources.	Migrating from batch processes to BPEL would open new options that would have been costly. Roll BPEL applications in phases: 1) tap HUD databases; 2) tap SSA and NDNH and 3) tap private and governmental databases to extent useful. Allows HUD to acquire data that is not nationwide but is useful. EIV could provide business partners with as complete data as is possible at time. The system when displaying overlapping data would apply sophisticated system algorithms weighing source reliability.	22017.1	1517144.2
True	Option 4. Option 4 represents the conservative approach for a resource-constrained environment. It freezes investment in EIV at the FY 2007 level.	Option 4 would have EIV improve and add to the types of reports that are available to the user community and improve analytical services to program managers to the extent that is possible within available developmental resources and exiting infrastructure. User input would be critical in determining how best to meet address needs within available resources. Operational maintenance costs will creep up as the infrastructure becomes increasing dated and new initiatives require greater support.	21965.4	1257697.3

Selected Alternative BY08

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

Option 4 (current mode) was selected for the current constrained environment in order to proceed at a straight-line of expenditure from FY 2007 to FY 2008. Although Alternative 4 has the lowest ROI of the three alternatives that were considered, 8826% is an unusually high return for any investment. The fact that Alternatives 2 and 3 have even higher returns (8975% and 10444%) should be kept in mind for long-term planning.

The high ROI reflects the fact that even at this funding level, a significant effort would be made to

leverage the present EIV enterprise architecture with initiatives such as converting EIV's JAVA implementation to take advantage of struts or JAVA faces as part of enhancing the services to the HUD programs that EIV serves. Such actions will make EIV easier to upgrade and maintain and would facilitate a later migration to a new enterprise architecture.

However, hopefully the current budget constraints will be lifted, if not in FY 2008, then in a later year, so as to allow the use of Oracle technology will come about. The payoff is simply too attractive. Oracle is one of HUD's EA platforms. Use of BPEL (option 3) would be tremendously attractive in that it would allow EIV to end the limitation of using batch processes and use technology that would allow us to extend EIV data matching to additional sources, such as private databases which hold useful but not truly nationwide income data and even large local governments for data such as TANIF benefits and alimony payments.

Additionally, it is possible that there is an implicit false assumption underlying the calculations for Option 4 that EIV can be maintained long-term on its present platform. A better calculation might be to plan to replace the architecture at a point where the opportunity cost of not gathering data for a more complete picture of the scope of the underreporting problem as well as the inability to implement new requirements and the increasing cost of maintenance will spur a more migration to an alternative enterprise architecture.

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What specific qualitative benefits will be realized?

The qualitative benefits will be that as we proceed, EIV will be enhanced to to the extent possible to provide its clients with additional analyses and refinements of existing analyses that can be formulated within current funding levels and with current technology. Although much may properly be made about the qualitative effect of EIV in terms of the money saved, there are important qualitative benefits. It is important that HUD gives its business partners a tool that they need to enable them to meet their responsibility to accurately determine tenant income. Doing so gives substance to the partnership aspect of the contractual relationship between HUD and the PHAs and property owners. The use of EIV to more accurately determine tenant income helps HUD more completely fulfill its charter to help those in need of housing assistance by assuring that allocated funds are leveraged to the maximum extent in providing program services. Funds freed are used for more or better housing assistance services. Unqualified tenants are identified so that qualified tenants may take their place. HUD improves its reputation with the stakeholders of its assisted rental housing programs, including Congress and OMB, state and local governments, current and would-be tenants as well as housing advocacy groups and is better able to protect or improve its funding level so that it can provide services to a larger number of people in need of housing assistance.

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		
Total LLC	0	0		

	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Cost Avoidance
Benefit				

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? 1/10/2006

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:

Risk is a factor taken into account in each stage of the EIV system development lifecycle. When planning for a release, an assessment is made of the risks that would be inherent in going forward with the proposed initiative as well as alternative ways to reduce the chance and potential impact of the risk. A decision is made whether there is a palatable less risky alternative and whether or not to continue with a risky option. During the design phase, a tangible implementation of the requirements is created using input from the integrated project team (IPT) to assure that design elements are workable and the team uses its better understanding of how the implementation creates risks to update the risk assessment and draft a risk management plan. The system design is a detailed plan closely followed during the development phase. Particular attention always needs to be paid so that latent risks are not created when changing or enhancing functionality. Risk is a major concern in developing the test plan and implementing it in test scripts. Flaws must be identified and corrected. Contingency plans developed during the design phase are fleshed out during the development phase. Data is scrambled for security and testing is conducted using a range of program office personnel and volunteer HUD business partners whose diversity helps assure that problems will be identified. After deployment, the IPT meets to discuss the system, its plans, progress and problems. The Risk Management Plan is reviewed at meetings and updated for new risks, relative risk ranking, and contingency plans. (The Risk Management Plan also may be updated ad hoc.) This substantial investment of time in risk management has a large payoff. Studies have shown that the cost of solving a problem rises dramatically the later in the development process it is identified and can escalate further if a serious defect reaches production. Time developing contingency plans is well spent because it has a substantial payoff. Monitoring risks can help forestall their occurrence and having a contingency in place can reduce the impact and duration of the risk. The fact that we have risk planning has significantly reduced cost and schedule variability because time and resources are not expended on fix releases. The lack of variability is reflected in the lower amplitude in the risk adjustments to our alternatives analysis.

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?

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

If "no," explain plans to implement EVM:

Please provide a brief summary of the operational analysis results.

