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OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA

P.O. BOX 119, HONOLULU, HAWAII 96810-0119

January 23, 2025

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Third State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Nadine K. Nakamura Speaker and Members of the House of Representatives Thirty-Third State Legislature State Capitol, Room 431 Honolulu, Hawai'i 96813

Aloha Senate President Kouchi, House Speaker Nakamura, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawai'i, Department of Human Services, Systems Modernization Project.

In accordance with HRS section 93-16, this report may be viewed electronically at http://ets.hawaii.gov (see "Reports").

Sincerely,

Christine M. Sakuda Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: December 1 – 31, 2024

Submitted: January 15, 2025



Overview

- Executive Summary
- IV&V Findings and Recommendations
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Executive Summary

Executive Summary



In December, DHS and the ASI continued to focus on replanning the BES project to include changes to many project aspects that may directly impact the implementation approach, processes, and project schedule. Activities included:

- The ASI continued to revise the project schedule.
- DHS worked with the ASI to draft two additional Change Requests (CRs), currently being estimated for DHS approval.
- The ASI held Joint Application Design (JAD) sessions for the DHS-approved CRs. IV&V continues to be concerned that design sessions are not as collaborative as needed, especially if the project will switch to a Waterfall methodology where fully detailed requirements and design are required; not just incremental as in the current Agile methodology.
- The ASI has not released the Root Cause Analysis (RCA) report for the most recent schedule delay that occurred in September 2024. IV&V expects the results of the RCA to drive changes to the project processes that may also impact the schedule and resource planning efforts.
- The ASI continues to add new areas to be addressed in their process improvement initiative, which include testing and data conversion, which both IV&V and DHS agree could lead to improved project outcomes if all aspects of the initiative meet defined expectations.

There are many 'irons in the fire' that should be resolved and approved by DHS and reflected in the new schedule before the ASI's planned official re-kick-off of the BES Design, Development, and Implementation Project in January 2025.

Oct	Nov	Dec	Category	IV&V Observations	
Н	Н	Ξ	Project Management	The ASI has not yet provided a draft for the restart of the project, nor has an agreement been reached to transition the Software Development Methodology from Agile to Waterfall – two key elements that must be in place to fully restart the project.	

Executive Summary

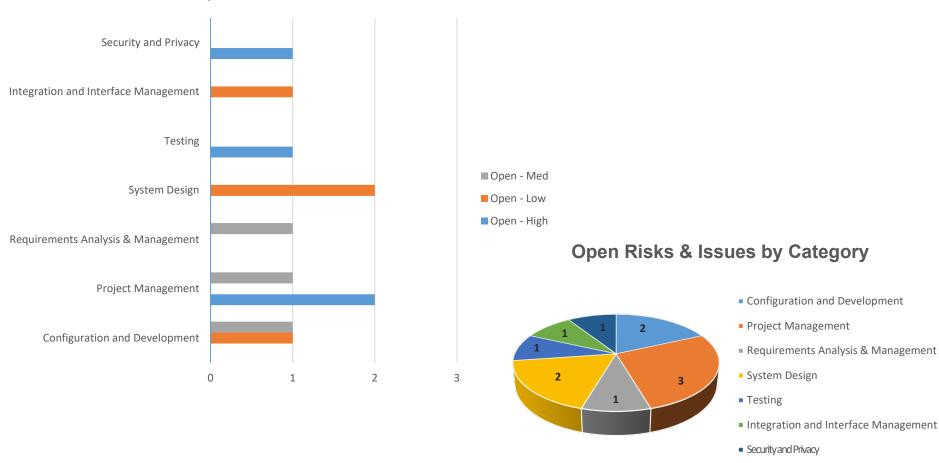


Oct	Nov	Dec	Category	IV&V Observations	
L	L	L	System Design	The ASI started hosting JAD sessions focused on the CRs requested by DHS, but IV&V is concerned that these discussion (as they are currently conducted) might not lead to comprehensive and accurate designs.	
M	M	M	Configuration and Development	The ASI has continued their efforts to enhance the software development process per their process improvement plan, including dedicating resources to monitor and drive this work, which might be altered upon completion and publishing of the Root Cause Analysis.	
L	L	L	Integration and Interface Management	Initial testing has been successful. IV&V expects to see remaining testing specifically called out in the revised schedule currently being developed.	
Н	Н	Н	Testing	With no major testing cycles in progress (SIT, UAT), the ASI is focused on process improvements for testing phases, in alignment with IV&V and DHS's desire to improve the overall testing process. In addition, the ASI is testing resolved UAT defects.	
Н	Н	Н	Security and Privacy	The ASI delivered six security policies to DHS for approval. IV&V is concerned with DHS resource availability to complete this work. The environment patching was completed, remediating many critical and high findings in the Plan of Action and Milestones (POAM).	
M	M	M	Requirements Analysis & Management	The ASI hosted a call with DHS and IV&V to demonstrate how to use the current version of the Requirements Traceability Matrix reports to confirm requirement coverage but was unable to do so. The ASI has added a resource to requirements management process to help address issues impacting the delivery of a workable RTM.	



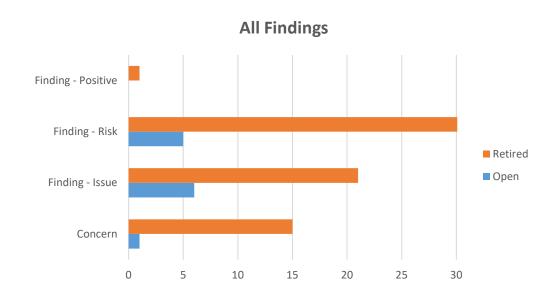
As of the December 2024 reporting period, PCG is tracking 11 open findings (5 risks, 6 issues) and has retired a total of 76 findings. Of the 11 open findings, 4 are High, 3 are Medium, and 4 are Low.







The following figure provides a breakdown of the 88 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
	None	



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
98	Delays in providing the required deliverables to FNS could extend the review time needed and delay FNS's concurrence to start the pilot. This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	Project Management
400	The inconsistent Data Conversion status reporting and potential impact of several new Change Requests to Data Conversion may create a risk to the BES Project causing schedule and/or budget challenges. The ASI shared the process of they are following to resolve the balancing reports with	Data
103	stakeholders. Additionally, the ASI is made progress on resolving inconsistencies in the reporting of conversion status and mapping remaining fields between legacy systems and BES. IV&V will continue monitoring data conversion as work is defined for additional Change Requests being added to project scope.	Management and Conversion



Project Management

;	#	Key Findings	Criticality Rating
		Issue – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.	
7	74	The ASI has not yet published a draft schedule, nor has the ASI and DHS agreed upon the software development life cycle (Agile vs. Waterfall) that will be used for the duration of the project. It is also unknown to IV&V how the ASI estimated the remaining work, not only the development but all remaining deliverables and those that must be revised due to the delay.	Н

Recommendations	
Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performance and resources available to do the remaining work.	In Process
Any work required to address findings from Root Cause Analysis should be included in the revised schedule to validate completion for DHS.	New



Project Management

#	Key Findings	Criticality Rating
88	Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall Project success and reduce user adoption.	
00	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	M

Recommendations	Progress
 Increase OCM efforts to effectively manage user, general public, and legislative expectations for the BES version at go-live. 	In Process
 Prioritize feedback from users and FNS to ensure the solution meets their core needs and so users are clear on what features they are, and are not, getting. 	In Process
 Actively monitor, assess, and address potential challenges throughout the development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality. 	In Process
 Actively monitor UAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project leadership can decide if fixing or changing poor designs can be implemented prior to go-live. 	In Process



Project Management

	Key Findings	Criticality Rating
	Issue—The current mitigation approach to completing the development of the remaining Epics is condensed and aggressive, which may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects.	
89	According to the 12/25/2024 Project Status report, the development of Epic 206 (Access and Use Audit information) has additional delays. The due date has been updated from 12/13/2024 to 1/9/2025. Additionally, ASI is currently working on finalizing a revised schedule. Once received, The IV&V team will conduct a thorough review of the revised schedule and its relevance to this finding.	Н

Recommendations	
Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT.	In Process
 The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping assigned responsibilities 	In Process



System Design

#	Key Findings	Criticality Rating
	Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the application and not meeting critical business needs for DHS and State clients.	
86	Joint Application Design (JAD) sessions have started up, focused on the Change Requests that have been approved by DHS. Collaboration has been limited in these initial JADs, focused more on DHS answering questions on proposed design rather than an initial discussion on the direction of the design; which should be the focus in these initial pre-design meetings. IV&V suggest best practices be followed for conducting JAD sessions to ensure the best results for the project.	L

Recommendations	
 Perform Sprint and Epic demos in alignment with development Sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products. 	In Process
 Improve rigor in the Design process by verifying all impacted policy and DHS SMEs are involved and application to avoid extensive defects and gaps in functionality that may trigger the need for a change red 	



System Design

#	Key Findings	Criticality Rating
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. No material update for this reporting period.	L

Recommendations	Progress
 ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied. 	In Process
 The project team work to establish strong governance over the utilization and maintenance of various tools/components. 	In Process
 ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. 	In Process
 ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path. 	In Process



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	
	No material update for this reporting period.	

Recommendations	Progress
 ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarif details and/or any changes with DHS. 	In Process
 ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track. 	In Process



Configuration and Development

#	Key Findings	Criticality Rating
80	Issue – Development delays have negatively impacted the project schedule and delayed go-live. The ASI continues to make efforts to enhance development quality and efficiency. They have recently onboarded a senior development manager to help address ongoing development challenges and course-correct where necessary. Additionally, the ASI has reportedly added two new development leads focused on quality assurance, as well as a new release manager.	M

Recommendations	Progress
 ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. 	In Process
• The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations (demos) and elicit productive design discussions with DHS attendees during each demo.	In Process
 ASI regularly reports estimated story points for the total remaining project work to reach go-live and presents a dynamic burn-down chart to track the progress. 	In Process
The ASI should consider enhancing the depth of developer unit testing.	In Process



Integration and Interface Management

#	Key Findings	Criticality Rating
	Risk – Due to the lack of physical and technical (Transport Layer) testing of the interfaces and data transfer failure, conditions may exist with data format, boundaries, and dependencies. These failures may result in intermittent and hard-to-isolate problems or errors.	L
93	The initial set of testing was successful. Test planning and execution for the other interfaces should be integrated into the recast schedule discussions. Successful results, including graceful rejection of invalid interface data (such as misnamed SFTP files or short fields/truncated files), are recommended prior to commencement of SIT testing.	
Reco	mmendations	Progress
• AF	PI interfaces should be tested for failure conditions during connection and transfer operations.	In Process
• F1	P and file interfaces should be tested for data and file integrity.	In Process
	est data fields for system impacts resulting from data that is poorly formatted, out of range, or other expected data transmission errors.	In Process



Testing

7	#	Key Findings	Criticality Rating
8	3	Issue – Gaps in test coverage and slower-than-expected progress in testing may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated. The ASI is testing UAT defects that have been resolved, in advance of any DHS testing. IV&V awaits the RCA report and the details of the possible Design, Development, and Implementation (DDI) change from	Н
		Agile to Waterfall to understand the changes to the testing process that the ASI is proposing.	

Recommendations	
 DHS and ASI revisit the testing approach to prioritize completion of remaining test activities and conduct comprehensive System Integration testing (SIT) to minimize defect leakage to User Acceptance Testing (UAT). 	In Progress
 ASI assesses the potential impact of the large number of unresolved defects on future development efforts, ensuring a more robust and efficient development process. 	In Progress
 ASI develop and implement a revised testing approach to improve the completeness and thoroughness of future testing cycles. 	In Progress



Security and Privacy

#	Key Findings	Criticality Rating
82	Issue – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP). The ASI resolved the critical and high POAMs related to patching of "Spring Boot". Additionally, six security policies were completed by the ASI and sent to DHS for final editing and approval. The availability of DHS	Н

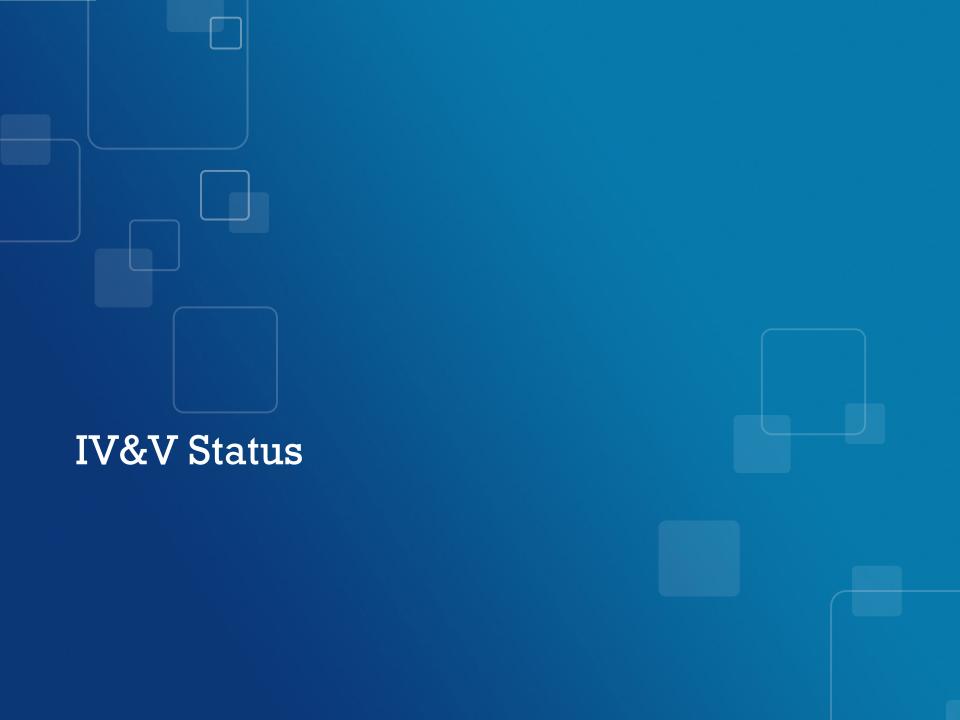
Recommendations	
Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.	In Process
 Include the Secure Enclave within the work breakdown structure along with the known tasks related to the IRS Assessment to continue receiving FTI in BES. 	Not Started



Requirements Analysis & Management

#	Key Findings	Criticality Rating
	Risk - The lack of an effective way to validate BES requirements could lead to project delays and unfulfilled user needs if DHS later identifies unmet contractual requirements.	
94	The ASI hosted a meeting to review usage of the RTM, but all attendees agreed more work was needed to provide a usable report for both the ASI and DHS to validate requirement coverage. The ASI plans to share a revised RTM at the next CCB meeting.	M

Recommendations	Progress
 Develop a document that provides DHS with a feasible and effective way to map contract requirements to passed test cases, and, per the BI-19 (Complete and Final Test Plan),"Maps the implementation, functional and technical requirements to the test cases and test scripts". 	In Process
 Ensure test scripts thoroughly and comprehensively test the system to assure each requirement has been fully met. 	In Process



IV&V Engagement Status



IV&V Engagement Area	Sep	Oct	Nov	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final November IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

	Engagemen	nt Status Legend	
The engagement are within acceptable parameters.		ement area is outside acceptable s.	The engagement area poses a significant risk to the IV&V project quality and requires immediate attention.

IV&V Activities



- IV&V activities in the December reporting period:
 - Completed November Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Ongoing Review available ASI contracts and contract amendment documentation
- Planned IV&V activities for the January reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Bi-Weekly Project Status meetings
 - Ongoing Observe Weekly M&O Project Status meetings
 - Ongoing Observe Weekly Architecture meetings
 - Ongoing Observe Weekly Security meetings
 - Ongoing Monthly IV&V findings meetings with the ASI
 - Ongoing Monthly IV&V Draft Report Review with DHS, ETS and ASI
 - Ongoing Participate in Bi-Weekly DHS and IV&V Touch Base meetings
 - Ongoing Review BES artifacts and deliverables

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
SNAP_System_Integrity_Review_Tool	Sept 2022	N/A
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
R0.12 Epic Assignment	N/A	N/A
R0.12 Epic and Sprint Demo Recordings	N/A	N/A
ADA dashboard	N/A	N/A
Jira Requirements Details	N/A	N/A
Jira Testing Lists	N/A	N/A
UAT Testing Dashboard	N/A	N/A
Waterfall Methodology Plan	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 12/2/2024, 12/5/2024, 12/9/2024, 12/12/2024, 12/16/2024, 12/19/2024, 12/23/2024, 12/30/2024
- 2. IV&V/ASI September Pre-draft Review 12/5/2024
- 3. HI DHS BES October Draft IV&V Report Review 12/13/2024
- 4. Bi-Weekly DHS BES PMO/IV&V Check-in 12/20/2024
- 5. Weekly BES Infrastructure meeting 12/13/2024, 12/16/2024
- Weekly Client BES 2023 Project Status Meeting 12/11/2024, 12/18/2024
- 7. Security Touchpoint 12/4/2024, 12/11/2024, 12/18/2024
- 8. (Externa(I) Weekly Interfaces Touchpoint 12/2/2024, 12/9/2024
- 9. (External) Bi-weekly BES CCB Meeting 12/11/2024
- 10. eWorld/IV&V Mid-Month Check-in 12/20/2024
- 11. (External) BES: FNS Connect 12/5/2024
- 12. Review RTM usage (ASI, DHS, IV&V) 12/12/2024
- 13. (External)- BES Data Conversion Dive into Balancing of CORE Data Components 12/13/2024
- 14. (External) CR2024-013 DHS 1240 Form Update 12/16/2024
- 15. (External) JAD CR2024-016 Application Enhancements 12/17/2024
- 16. (External) Pre-Design Epic 201 HARI Notices Conversion 12/18/2024, 12/23/2024
- 17. (External) CR2024-015 Limit BES Automatic Data Population from SSP 12/19/2024





Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
Н	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be evaluated and implemented as soon as feasible.
L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.

Appendix B – Findings Log



• The complete Findings Log for the BES Project is provided in a separate file.

Appendix C – Acronyms and Glossary



Acronym	Definition
APD	Advance Planning Document
ASI	Application System Integrator
BES	Benefits Eligibility Solution
CCWIS	Comprehensive Child Welfare Information System
CM	Configuration Management
CMMI	Capability Maturity Model Integration
CMS	Center for Medicare and Medicaid Services
CR	Change Request
DDI	Design, Development and Implementation
DED	Deliverable Expectation Document
DHS	Hawaii Department of Human Services
DLV	Deliverable
E&E	Eligibility and Enrollment
EA	Enterprise Architecture
ECM	Enterprise Content Management (FileNet and DataCap)
ESI	Enterprise System Integrator (Platform Vendor)
ETS	State of Hawaii Office of Enterprise Technology Services
FIPS	Federal Information Processing Standard
HIPAA	Health Information Portability and Accountability Act of 1996
IDM	Identity and Access Management (from KOLEA to State Hub)
IEEE	Institute of Electrical and Electronics Engineers
IES	Integrated Eligibility Solution
ITIL	Information Technology Infrastructure Library



Appendix C – Acronyms and Glossary

Acronym	Definition
IV&V	Independent Verification and Validation
KOLEA	Kauhale On-Line Eligibility Assistance
M&O	Maintenance & Operations
MEELC	Medicaid Eligibility and Enrollment Life Cycle
MEET	Medicaid Eligibility and Enrollment Toolkit
MOU	Memorandum of Understanding
MQD	Hawaii Department of Human Services MedQuest Division
NIST	National Institute of Standards and Technology
OE	Operating Environment
OIT	Department of Human Services Office of Information Technology
PIP	Performance/Process Improvement Plan
PMBOK®	Project Management Body of Knowledge
PMI	Project Management Institute
PMO	Project/Program Management Office
PMP	Project Management Plan
QA	Quality Assurance
QM	Quality Management
RFP	Request for Proposal
ROM	Rough Order of Magnitude
RMP	Requirements Management Plan
RTM	Requirements Traceability Matrix
SEI	Software Engineering Institute
SLA	Service-Level Agreement
SME	Subject Matter Expert



Appendix C – Acronyms and Glossary

Acronym	Definition
SOA	Service Oriented Architecture
SOW	Statement of Work, Scope of Work
VVP	Software Verification and Validation Plan
XLC	Expedited Life Cycle

Appendix D – Background Information



Systems Modernization Project

The DHS Enterprise Program Roadmap includes contracting with three separate vendors with the following high-level scope:

- ESI or Platform Vendor responsible for the shared technology and services required for multiple Application vendors to implement and support functionality that leverages the DHS Enterprise Platform.
- ASI or ASI Vendor responsible for the DDI of the Benefits Eligibility Solution (BES Project) enhancing the currently implemented Medicaid E&E Solution (KOLEA) and providing support for the combined Solutions.
- CCWIS Vendor responsible for the DDI of the CCWIS Solution to meet the needs of child welfare services and adult protective services (CCWIS Project) and providing support for the Solution.

Systems Modernization IV&V Project

IV&V performs objective assessments of the design, development/configuration and implementation (DDI) of DHS' System Modernization Projects. DHS has identified three high-risk areas where IV&V services are required:

- Transition of M&O from DHS' incumbent vendor to the ESI and ASI vendors
- BES DDI
- CCWIS DDI

On the BES DDI Project, IV&V is responsible for:

- Evaluating efforts performed by the Project (processes, methods, activities) for consistency with federal requirements and industry best practices and standards
- Reviewing or validating the work effort performed and deliverables produced by the ASI vendor as well as that of DHS to ensure alignment with project requirements
- Anticipating project risks, monitoring project issues and risks, and recommending potential risk mitigation strategies
 and issue resolutions throughout the Project's life cycle
- Developing and providing independent project oversight reports to DHS, ASI vendors, State of Hawaii Office of Enterprise Technology Services (ETS) and DHS' Federal partners

Appendix D – Background Information



What is Independent Verification and Validation (IV&V)?

- Oversight by an independent third party that assesses the Project against industry standards to provide an unbiased view to stakeholders
- The goal of IV&V is to help the State get the solution they want based on requirements and have it built according to best practices
- IV&V helps improve design visibility and traceability and identifies (potential) problems early
- IV&V objectively identifies risks and communicates to project leadership for risk management

PCG's Eclipse IV&V® Technical Assessment Methodology

- Consists of a 4-part process made up of the following areas:
 - 1. **Discovery** Discovery consists of reviewing documentation, work products and deliverables, interviewing project team members, and determining applicable standards, best practices and tools.
 - 2. Research and Analysis Research and analysis is conducted in order to form an objective opinion.
 - 3. Clarification Clarification from project team members is sought to ensure agreement and concurrence of facts between the State, the Vendor, and PCG.
 - **4. Delivery of Findings** Findings, observations, and risk assessments are documented in this monthly report and the accompanying Findings and Recommendations log. These documents are then shared with project leadership on both the State and Vendor side for them to consider and take appropriate action on.

IV&V Assessment Categories for the BES Project

- Project Management
- Requirements Analysis & Management
- System Design
- Configuration and Development
- Integration and Interface Management
- Data Management and Conversion

- · Security and Privacy
- Testing
- OCM and Knowledge Transfer
- Pilot Test Deployment
- Deployment

Ending Slide



Solutions that Matter

Finding	Identified				Ar	nalvst Find	ing	
ID Title Reporter Type 103 The Inconsistent Data Conversion status Molina, Brad Concern	Date Category 11/25/2024 Data Managemen	Observation nt DHS verbally expressed concerns on the status of the Data Conversion	Significance Data Conversion is one of the key areas of an implementation that are high-	Recommendation Event Horizon Impa	pact Probability Pr	riority Stat	us Status Update Client Comments 12/31/2024 - The ASI shared the process of they are following to resolve the	Vendor Comments
reporting and potential impact of several	and Conversion	process and IVV shares this same concern. There are inconsistencies	risk due to many factors. One organizational goal of BES is to improve	NOW	3 2 M	ieu Ope	balancing reports with stakeholders. Additionally, the ASI is made progress	12-11-2024
new Change Requests to Data Conversion		regarding the status on the number of data fields remaining to be mapped	business processes. Policy changes have likely occurred over the last few years where there may be impact on how data is accessed, processed and				on resolving inconsistencies in the reporting of conversion status and	Whom from DHS is
may create a risk to the BES Project causing schedule and/or budget challenges.		raised by IVV to the Data Conversion team on 10/23/2024 have not been	used to accurately and consistently determine eligibility and benefit				mapping remaining fields between legacy systems and BES. IV&V will continue monitoring data conversion as work is defined for additional	verbally expressing data conversion
		answered as of 11/25/2024. FAT test results indicated 26 FAT Data Conversion Defects remain outstanding as of 11/25/2024. DHS approved	issuance. It is critical that data conversion accurately and consistently transform the data, augment default values for new fields along with				Change Requests being added to project scope.	concerns? Is Trisha Inafuku part or
		Conversion Defects remain outstanding as of 11/25/2024. DHS approved several Change Requests this month and it is not known if all changes	transform the data, augment default values for new fields along with					Inafuku part or consulted of these
		included an evaluation of the impact to the Data Conversion process. The	validation logic for any data interdependencies.					conversations who is
		ASI and DHS are currently replanning the remainder of the RES						intimate with the dat
		Implementation Project. IV&V will continue to discuss this finding with DHS and the ASI to ensure there is a clear understanding on the actual status of	5					conversion process?There
		the Data Conversion process to determine if there is a potential risk to the						appears to be
		BES Project.						disconnects with
								unanswered IV&V questions sent on
								10/23/2024. Here is
								an audit as we know it:There was an email
								from IV&V on October
								23 but it was
								addressed to Cary Ho
								regarding interfaces.Landon is
								aware of an email
								from IV&V (Mark
								Reynolds) on October 24 and October
98 Delays in providing the required deliverables Molina, Brad Concern to FNS could extend the review time needed		Not all the documents that FNS is required to review have been provided. In	The BES pilot cannot start without FNS's concurrence. Therefore, it's critical	now	3 3 N/	A Ope	n 12/31/2024 - This finding will be reevaluated by the IVV team after the	
to FNS could extend the review time needed and delay FNS's concurrence to start the	Management	the weekly Readiness meeting on 7/23, it was mentioned that FNS is at its year-end, so its workload is backing up, which might require its document	the project team deliver the required deliverables to FNS as soon as possible to ENS has the perservative to review and nive the co-sheed to start Bilat				project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	
pilot.		review to take the full 60 days. The longer DHS delays getting deliverables to	o				11/30/2024 - This finding will be reevaluated by the IVV team after the	
		FNS, the closer it gets to the planned start for Pilot.					project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	
							requirements/functionality, and schedule for the Pilot and Statewide rollout. 10/31/2024 - This finding will be reevaluated by the IVV team after the	
							project team completes the replanning and determines the approach,	
							requirements/functionality, and schedule for the Pilot and Statewide rollout	
							09/30/20204 - The status of this preliminary concern will be reevaluated by the IVV team after the project team determines the approach,	
							requirements/functionality and schedule for the Pilot and Statewide rollout.	
No The last of an effective contract of the last of th	4/25/2024 Requirements	The Parallel State (Section 2)	Blanches to Polit and Barbanata	W DOCTOR - Developed Assessment - The Control of th				
94 The lack of an effective way to validate BES Molina, Brad Finding - requirements could lead to project delays Risk	4/25/2024 Requirements Analysis &	ensuring the system's compliance with contractual commitments by	SIT completion. DHS may be unable to make an informed decision on SIT evi	IN PROGRESS • Develop a document that provides DHS with a feasible and 5/10/2024 t effective way to map contract requirements to passed test cases, and, per	3 3 M	led Ope	attendees agreed more work was needed to provide a usable report for both	9/9/2024
and unfulfilled user needs if DHS later	Management	associating each requirement with passed test case(s). However, the approved project schedule shows the RTM completed on 6/26/24, which	criteria. This could lead to DHS starting Final Acceptance Testing (FAT) and then realizing that not all requirements have been fully met, resulting in	the BI-19 (Complete and Final Test Plan), "Maps the implementation,			the ASI and DHS to validate requirement coverage. The ASI plans to share a revised RTM at the next CCB meeting. 11/30/2024 - Both DHS and IVV	Include information on
identifies unmet contractual requirements.		approved project schedule shows the RTM completed on 6/26/24, which falls after the Core SIT exit decision on 5/10/24. The ASI provided the BI-22a	then realizing that not all requirements have been fully met, resulting in	functional and technical requirements to the test cases and test scripts". •			revised RTM at the next CCB meeting. 11/30/2024 - Both DHS and IVV	interim version provided prior to FAT.
		falls after the Core SIT exit decision on 5/10/24. The ASI provided the Bi-22a System Integrity Review Tool (SIRT) to DHS on April 26, 2024, but withdrew	a delays.	Ensure test scripts thoroughly and comprehensively test the system to assure each requirement has been fully met.			share the same concern that the current set of RTM reports does not provide the functionality needed to validate that contractual requirements	provided prior to FAT.
		the deliverable due to DHS concerns. This BI-22a deliverable may help DHS		assure each requirement has seen tony met.			have been developed and tested in the current RFS solution. I/V reached	
		validate requirements.					out to the ASI requesting a demonstration of how the RTM validates that contractual requirements have been met. A meeting is scheduled for December 5th with DFS, the ASI, and IVV. 10/31/2024 – This finding will be	7/12/2024
							contractual requirements have been met. A meeting is scheduled for	I'm not sure if this is
							reevaluated by the IVV team after the project team completes the	worth noting but
							replanning and determines the approach, requirements/functionality, and	eWorldES did deliver
							schedule for the Pilot and Statewide rollout. 09/30/2024 -The ASI did	an "Interim" Bi-21
							demonstrate some progress in providing a set of RTM reports that match the approved Deliverable Expectations Document (DED). However, DHS still	RTM to satisfy the requirement criteria
							did not receive a comprehensive report to confirm all expected contractual requirements for approved Epics have been developed and tested	for entering into BES
							requirements for approved Epics have been developed and tested	1.0 FAT.
							successfully. With more scope being added as part of new project direction, it continues to be critical that DHS is provided an RTM to confirm	
							requirements are met. 08/31/2024 - As of the end of the reporting period.	06/14/2024
							the ASI had not provided the comprehensive Requirements Traceability	
							Matrix for BES 1.0 based on the Deliverable Expectation Document (DED),	The BI-21 RTM
							only an interim version, prior to the start of FAT testing. DHS needs this finalized RTM to validate all contractual requirements have been included in	deliverable has been reviewed and
							BES 1.0 as scheduled and successfully tested prior to go live for Pilot.	discussed multiple
							7/31/2024 - Discussions were held throughout July regarding the format	times at the bi-weekly
							and structure of the Requirements Traceability Matrix (RTM). However, the ASI has not distributed a reformatted BI-21 Requirements Traceability	CCB meeting. Draft reports of the BI-21
93 Due to the lack of physical and technical Reynolds, Finding - testing of the interfaces and data transfer Mark Evan Risk	4/29/2024 Integration and	Aside from the functional testing accomplished during epic testing, specific	This testing is essential before initial deployment to prevent unexpected and	In Process 1. API interfaces should be tested for failure conditions during 2024 2nd Qtr	3 2 Lo	ow Ope	n 12/31/2024 The initial set of testing was successful. Test planning and	05/14/2024
testing of the interfaces and data transfer Mark Evan Risk failure, conditions may exist with data	Interface Management	data flow testing is usually part of an interface definition.	difficult to resolve issues, such as scrambled or missing data – or the system may have a fault or exception. Since the Project has not established and	tonnection and transfer operations. 3. FTP and file interfaces should be			execution for the other interfaces should be integrated into the recast schedule discussions. Successful results, including graceful rejection of	06/14/2024
format, boundaries, and dependencies.	management		tested the fault scenarios, we do not know how the system may react.	resulting from data that is poorly formatted, out of range, or other			invalid interface data (such as misnamed SFTP files or short fields/truncated	As mentioned at the
These failures may result in intermittent and				unexpected data transmission errors. Removed 2. [n/a, no transactional			files), are recommended prior to commencement of SIT testing.	May pre-meet, a
hard-to-isolate problems or errors				interfaces therefore no race conditions] API interfaces should be tested for race conditions. 5. [redundant with #4] Interface records and files should be			10/31/2024 - This finding will be reevaluated by the IVV team after the	technical interface team plan does exist
				race conditions. 5. [redundant with #4] Interface records and files should be tested for format, length, or other physical formatting errors.			project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	team pian does exist to address PCG's
				any among any annual purposes and annual Maria An				recommendations for
							have been completed. However, the other 12 releases required for the statewide release, BES1.1, will be required with the revised approach to	this finding.5/11/2024
							statewide release, BES1.1, will be required with the revised approach to merge. This finding is being kent onen at a low original world all 19 interfaces.	
							merge. This finding is being kept open at a low priority until all 19 interfaces are completed. 08/22/2024 - All tests except those related to the Wells	As mentioned at the
							Fargo Lockbox interface have been completed. These seven tests require	pre-meet, a technical
							initiating a new service ticket with Wells Fargo. Tests are expected to be completed before the beginning of the Pilot phase. 05/28/2024 - The ASI	Interface team plan does exist to address
							has prepared the test scripts for the 12 interfaces included in the Pilot	does exist to address PCG's
							release. This first round of test scripts reside in the Jira tool and are being	recommendations for
							executed to be complete by mid-July. The Office of Information Technology (OIT) will be required to provide special case file alterations. 05/23/2024 -	this finding.
							(OIT) will be required to provide special case file alterations. 05/23/2024 - The ASI and DHS continue to define the Interface test approaches. Technical	
							interface testing details, including the Transport Laver, are planned to be	
							discussed in June.	
89 The current approach to completing the Kalsi, Neetu Finding -	12/21/2023 Project	Ten of the Epics scheduled for completion before Release 0.12 SIT will not	Overlapping development and testing introduces potential quality issues. Insufficient INT may create gaps in STT, leading to further quality issues. This	OPEN - The ASI validates that development and testing resources have Now	4 5 Hi	igh Ope		
	Management	be ready. To avoid SIT delays, the current approach is to begin SIT without	Insufficient INT may create gaps in SIT, leading to further quality issues. This	sufficient bandwidth to complete overlapping assigned responsibilities			development of Epic 206 (Access and Use Audit Information) has additional	12/11/2024
condensed and aggressive, which may increase the likelihood of schedule delays,		the 10 Epics and test them as they are completed. Additionally, Release 0.12 development that was extended two weeks from the scheduled end date ha	2 may increase the risk of significant delays or introduce defects into the is, production environment	Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT. CLOSED - The plan to complete BES implementation			delays. The due date has been updated from 12/13/2024 to 1/9/2025. Additionally, ASI is currently working on finalizing a revised schedule. Once	Regarding "IV&V expresses concerns
quality issues, and a higher volume of		development that was extended two weeks from the scheduled end date ha been extended for another ten business days.	p and a second s	does not include overlapping testing phases (5/24/2024) - The ASI should				
testing defects.				does not include overlapping testing phases (5/24/2024) - The ASI should evaluate if Epics entering STI fate might require retesting functionality that had already been tested. (closed 06/01/2024) - The ASI release a detailed			schedule and its relevance to this finding, 11/27/2024—The project team has announced further delays in the dates for Pilot and Go-Live and agreed	that the upcoming new schedule may
				had already been tested. (closed 06/01/2024) - The ASI release a detailed			has announced further delays in the dates for Pilot and Go-Live and agreed	retain or increase
				schedule of events, including development completion, INT start, and SIT start for each epic covered in the mitigation plan. (closed 06/01/2024) - The			to combine BES 1.0 and BES 1.1 into one release. Based on the 10/30/2024 project status meeting, the development for Epic 203 (Report Viewing and	concurrent activities, making it challenging
				ASI provides INT results and SIT scenarios for incomplete Epics to DHS for			On-demand Submission) has been delayed, and the due date has been	to manage and
				ASI provides INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. (Removed comprehensive based on what ASI delivered to DHS, 10/31/2024) CANCELED - Develop a Risk			changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports	to manage and coordinate multiple
				what ASI delivered to DHS, 10/31/2024) CANCELED - Develop a Risk Mitigation Plan to address challenges of managing multiple test			 Priority 2, Set #1) and Epic 244 (Reports – Priority 2, Set #2) has been updated from 10/4/2024 to 11/1/2024. IVV expresses concerns that the 	tasks simultaneously." there are and always
				environments, multiple code bases and versioning within and across			upcoming new schedule may retain or increase concurrent testing activities.	will be concurrent
				Releases.			upcoming new schedule may retain or increase concurrent testing activities, making it challenging to manage resources and coordinate multiple tasks	will be concurrent activities on the
							simultaneously. This may compromise the project's ability to complete testing and other essential activities, ultimately impacting the Pilot and statewide Go-Live dates. 10/31/2024 The project team has announced	project schedule.
							testing and other essential activities, ultimately impacting the Pilot and	What is the core of this statement, and
							further delays in the dates for Pilot and Go-Live and agreed to combine RFS	this statement, and should that be added
							further delays in the dates for Pilot and Go-Live and agreed to combine BES 1.0 and BES 1.1 into one release. Based on the 10/30/2024 project status	to provide more
							meeting, the development for Epic 203 (Report Viewing and On-demand	context? Resources?
							meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been delayed, and the due date has been changed from 10/4/2034 to 1/4/2015. The due date for Epic 242 (Report to Piccitis 2	context? Resources? Conflicting concurrent
							meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been delayed, and the due date has been changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports – Priority 2, 54 th 13 of 16/12/14/2025). The due date for Epic 243 (Reports – Priority 2, 54 th 13 of 16/12/14/2025). The due date for Epic 243 (Reports – Priority 2, 54 th 13 of 16/12/14/2025).	context? Resources? Conflicting concurrent activities? Correct
							meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been delayed, and the due date has been changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports – Priority 2, Set 81) and Epic 244 (Reports – Priority 2, Set 82) has been updated from 10/4/2024 to 11/1/2024. We propressed concerns that the upcoming new	context? Resources? Conflicting concurrent activities? Correct sequencing of these concurrent
							meeting, the development for Epiz 238 (Report Viewing and On-demand Submission) has been delayed, and the duc state has been changed from 10/4/2024 to 11/4/2025. The due date for Epiz 243 (Reports—Priority 2, 54 til 3) and Epiz 244 (Reports—Priority 2, 54 til 2) has been updated from 10/4/2024 to 11/1/2024. NV expresses concerns that the upcoming new schedule may relation in foresse counterest activities, making it challenging	context? Resources? Conflicting concerned activities? Correct sequencing of these concurrent activities on the
							meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been delayed, and the due date has been changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports – Priority 2, Set 81) and Epic 244 (Reports – Priority 2, Set 82) has been updated from 10/4/2024 to 11/1/2024. We propressed concerns that the upcoming new	context? Resources? Conflicting concurrent activities? Correct sequencing of these concurrent

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	Finding	Determent	Observables	Confirme	Programmed all control of the contro		Analyst	Finding	Status Hedde	Client Community	Manday Communi
88 Implementing a Core Solution for go-live	Reporter Type Molina, Brad Finding -	11/30/2023 Project	The project has elected to implement a Core Solution at go-live to meet their	Going live with a limited version of a software product entails inherent risks.	OPEN • Increase OCM efforts to effectively manage user, general public, and Now	impact Probabili 3	3 Med	Open	Status Update 12/31/2024 - This finding will be reevaluated by the IV&V team after the	Cheff Comments	vendor Comments
carries inherent risks that may impact	Risk	Management	stated timeline. This version is generally referred to in Agile software.	such as notential challenges in securing user how in. This can result in	legislative expectations for the BES version at go-live. • Prioritize feedback	-	-		project team completes the replanning and determines the approach,		
overall project success and reduce user			development as a Minimum Viable Product (MVP), which is a simplified	limited user adoption, user dissatisfaction, and negative publicity,	from users and FNS to ensure the solution meets their core needs and so				requirements/functionality, and schedule for the Pilot and Statewide rollout.		
adoption.			version of a product that 1) offers functionality that meets the core needs of	particularly considering the financial investment made for the delivery of limited functionality. A compressed timeline may compromise the quality of	users are clear on what features they are, and are not, getting. • Actively				11/30/2024 - The ASI and DHS have agreed to increase the scope of the Pilot release to include some DHS-determined critical functionality. IVV will		04/10/2024 - "Some required BES
			get real-world feedback from users to refine future product development.	designs, user interface sophistication, and lead to an uptick in software bugs	development process including code quality, cutting scope to meet				continue to evaluate the impact of these additions to the project to		functionality will be
				and suboptimal code. Further, this approach may expose the project to	development milestones, insufficient user validation of demonstrated				determine if the risk of this finding has been mitigated. 10/31/2024 - This		implemented post-
				regulatory compliance risks, such as last-minute objections from regulatory					finding will be reevaluated by the IVV team after the project team completes		Pilot." What does this
				bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between	missing functionality. • Actively monitor UAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on				the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout 9/30/2024 - Without an		mean? I think I know the intent and perhaps
				stakeholder expectations and the Core Solution may lead to dissatisfaction	negative impact and project leadership can decide if fixing or changing poor				RTM, there is ambiguity on the ASI presented enhancements and critical		update as such?
				or a lack of support for the project and could negatively impact future	designs can be implemented prior to go-live. COMPLETE CLOSED • DHS				functionality list developed by DHS as compared to the contract		
				project funding requests. Implementing a limited Core Solution typically requires the customer to implement multiple workarounds until automated	carefully assess whether the advantages of a timely release outweigh the				requirements. IVV recognizes the project is almost 6 years old, meaning		"Per the Go to Green plan, the ASI plans to
				requires the customer to implement multiple workarounds until automated features can be built into the system. Users could become impatient if these	advantages or going live with a system that provides more comprehensive functionality, requires fewer worksrounds, and increases user satisfaction				policy and business operations has changed which may drive the need for enhancements. However, these lists should be validated and negotiated by		pian, the ASI pians to implement required
				features are further delayed when bug fixes and other features take	and buy-in. (06/30/2024)				DHS and ASI to ensure DHS does not pay for functionality twice.		functionality in
				precedence. Others may lose confidence that the features or system					8/30/2024 - DHS continues to emphasize the need for workouts to be		multiple releases
				improvements will ever be implemented. Going live with a solution that is missing functionality that stakeholders were expecting typically requires an					documented and incorporated into training, with a plan to update documentation as defects are resolved to enable pilot workers to be most		(Pilot/Statewide/Post Statewide)."12/15/20
				increase in OCM efforts both by the ASI and DHS staff to temper					effective. 7/31/2024 - DHS and the ASI continue to document and develop		23 - Above already
				stakeholders' reactions to a system with limited functionality.					workarounds in preparation for Pilot. There are now two workaround areas;		addressed by DHS/Joe
									 known gaps in functionality and 2) defects discovered during testing that will not be addressed prior to Pilot. Additionally, planning is ongoing for 		Campos.Ensure
									incornorating these worksrounds into the training process 6/20/24 - Per		reflect "In Progress" or
									DHS's request, the ASI is currently developing a list of workarounds to		"In Process".
									address known gaps in BES 1.0 functionality. 5/23/24 - No material update.		
									4/30/2024 - No material update. 03/30/24 - The ASI's Go to Green plan and project schedule were approved by DHS. Per the Go to Green plan, some		
86 Limited collaboration between the ASI and	Molina, Brad Finding -	8/1/2023 System Design	During the UAT process for release 11, there has been a high level of	A significant amount of money and DHS resource time have been invested in	OPEN - Perform Sprint and Epic demos in alignment with development Now	2	2 Low	Open	12/31/2024 -Joint Application Design (JAD) sessions have started up,	10/11/2023 Jessica - Our SMEs are providing their feedback. This is one of	of .
DHS in the design process could lead to BES	Issue		concerns raised by the DHS testers regarding the usability of the BES system,	, the BES solution, with the expectation that the new system will at minimum	sprint completion (demo functionality/requirements as they are developed)				focused on the Change Requests that have been approved by DHS.	the items that I clarified with IV&V, that there are feedback given, no	
usability issues and functionality gaps in the applications, not meeting critical business			challenges with the user interface, missing functionality, and basic screen	provide all functionality found in current applications – but really should	to get early feedback on work products Improve rigor in the Design				Collaboration has been limited in these initial JADs, focused more on DHS	feedback means design is ok. I rec'd an emal back from Joe F. that IV&V	11/13/2024 For pest status
applications, not meeting critical business needs for DHS and State clients.			regions issues that would not be expected in a modern application. Based on defect reporting from the LIAT process, a large majority of the defect are	provide additional capabilities, greatly enhanced user interface, and overall improved usability from current systems. Should the solution fall short of	process by verrying an impacted policy and DHS SMEs are involved and approve the design to avoid extensive defects and each in functionality that				answering questions on proposed design rather than an initial discussion on the direction of the design; which should be the focus in these initial pre-	warns to meet with our reviewer to validate this.	reporting - eWorldES
recent or Displand State Citeries.			related to "design errors". Although the Release 11 UAT cycle was testing a	expectations, there may be challenges in DHS staff adoption; lack of	approve the design to avoid extensive defects and gaps in functionality that may trigger the need for a change request CLOSED - ASI and DHS re-				design meetings. IVV suggest best practices be followed for conducting IAD		plans is shifting to
			nartially build system, a significant amount of design defects was	confidence in the solution providing the accurate information needed to	evaluate the effectiveness of the recorded Sprint review process to ensure				sessions to ensure the best results for the project, 11/30/2024 - This		waterfall methodology
			attributable to functionality developed for Release 11.	provide benefits to HI citizens; reduction in ability for DHS to provide the	that designs align with DHS expectations. (closed 3/31/2024) - Include a				finding will be reevaluated by the IVV team after the project team completes the replanning and determines the approach, requirements/functionality.		once the related decision log item is
				same level of needed services to clients, resulting in bad publicity for DHS and the state.	wide enough audience in all design and demo sessions to validate FNS and DHS functional and technical requirements and system usability. (closed				the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout. 10/31/2024 - This finding		approved by DHS and
					6/14/2024) - Perform comprehensive (demo all requirements) review				will be reevaluated by the IVV team after the project team completes the		will not be doing
					during Enic demos, not just the items that were added/undated, allowing				replanning and determines the approach, requirements/functionality, and		sprint and epic demos
					DHS to provide early feedback on possible issues/gaps that might not be apparent when focusing on specific functionality. (closed 6/14/2024)				schedule for the Pilot and Statewide rollout 09/30/2024 - No material update in this reporting period. 8/30/2024 - Design activity was minimal in		moving forward.
					apparent when rocusing on specific functionality. (closed b/14/2024)				update in this reporting period. 8/30/2024 - Design activity was minimal in the reporting period, with DHS reviewing the final Self Service Portal (SSP)		06/14/2024
									designs. IVV continues to monitor design activities to validate continued		Why is this in Not
									collaboration between the ASI and DHS. 7/31/2024 - IVV observed positive		Started? We had a live
									progress this month with the ASI providing specific actions to address DHS concerns regarding the Mass Change Functionality (Epic 208). 6/31/2024 -		sprint demo for Epic 209. In addition, this
									IVV observed DHS and the ASI working collaboratively in a setting that		should not include
									promoted healthy dialogue on the BES design therefore, the criticality rating		Epic demos. We have
									is updated from a medium to low. 05/30/2024 – The ASI plans to continue		always had live Epic
									live Sprint Demos for the remaining Epic design work, providing a venue to increase collaboration with DHS. The SSP development will follow the		demos. Regarding SSP
									Waterfall methodology, so no sprints or demos will occur. 04/30/2024 - IVV		following the
									commends the ASI and DHS team for reverting to conducting four live sprint		Waterfall
									demos in support of Epic 209. These proved to enable timely, efficient		methodology DHS
83 Gaps in test coverage and slower-than-	Kalsi, Neetu Finding -	6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability	Identifying defects early is vital for effective testing as it is more efficient	OPEN - DHS and ASI revisit the testing approach to prioritize completion of UAT	4	4 High	Open	collaboration. 03/31/2024 - Due to a high number of questions and 12/27/2024- The ASI is testing UAT defects that have been resolved, in		has approved all the
expected progress in testing may result in	Issue	4,4,444	Dashboards, and Test Repository, gaps in testing coverage may exist and the	and cost-effective to address issues during the early testing stages. If there	remaining test activities and conduct comprehensive System Integration				advance of any DHS testing. IVV awaits the RCA report and the details of the		
schedule delays if subsequent test phases			progress of testing might be lagging. Concerning testing coverage, it appears	is slow progress or incomplete testing in the early stages, it can result in	testing (SIT) to minimize defect leakage to User Acceptance Testing (UAT).				possible Design, Development, and Implementation (DDI) change from Agile		12/11/2024
uncover a higher volume of defects and user feedback than initially anticipated	r		that not all epics and use cases in R11 have associated test cases or are	more defects leaking into subsequent testing phases, necessitating more extensive and rigorous testing efforts. Insufficient testing coverage or slower	ASI assesses the potential impact of the large number of unresolved defects on future development efforts, ensuring a more reburt and efficient				to Waterfall to understand the changes to the testing process that the ASI is		Please revisit the first two recommendations
reedback trial illitially anticipated.			unexecuted, and not all defects have been resolved as the project	than-anticipated progress throughout the project lifecycle increases the risk					complete, on November 15, 2024, with a total of 95 failed test cases in the		as these should reflect
			commences System Integration Testing (SIT). The ASI has plans to complete	of encountering significant delays, extensions, or the introduction of defects	approach to improve the completeness and thoroughness of future testing				real-time environment and 137 failed test cases in the time travel		an "In Process"
			the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	into the production environment during the final testing stage, known as	cycles. CLOSED - The ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement				environment. There was a total of 279 unresolved defects, which raised concerns about the overall stability and reliability of the system. The IVV		
											progress status.
				Final Acceptance Testing (FAT).					team is concerned that introducing new functionality on top of the current		progress status. 11/13/2024
				Final Acceptance Testing (FAT).	processes to confirm early testing is adequate before entering UAT/FAT				team is concerned that introducing new functionality on top of the current		progress status. 11/13/2024 DHS reviews and
				Final Acceptance Testing (FAT).	processes to confirm early testing is adequate before entering UAT/FAT (Closed 4/30/2024) - DHS and ASI monitor INT/ST closely for both breadth and death of testina to ensure the system is adequately tested (Closed				team is concerned that introducing new functionality on top of the current unstable system may lead to project delays or failure. While ASI has committed to resolving the outstanding defects, the IVV team has added a		11/13/2024 DHS reviews and approves all SIT tests
				Final Acceptance Testing (FAT).	processes to confirm early testing is adequate before entering UAT/FAT (Closed 4/30/2024) - DHS and ASI monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested (Closed 10/30/2024) - ASI utilize the two-week FAT testing pause to address and				team is concerned that introducing new functionality on top of the current unstable system may lead to project delays or failure. While ASI has committed to resolving the outstanding defects, the IVV team has added a recommendation on the testing approach. 10/31/2024 – As of October 30,		11/13/2024 DHS reviews and approves all SIT tests to ensure full coverage
				Final Acceptance Testing (FAT).	processes to confirm early testing is adequate before entering LIAT/RAT (Closed 4/30/2024) - DHS and ASI monitor INT/ST closely for both breadth and depth of testing to ensure the system is adequately tested (Closed 10/30/2024) - ASI utilize the two-week RAT testing pause to address and received outstranding ST defects and exply the fixes in the RAT environment,				team is concerned that introducing new functionality on top of the current unstable system may lead to project delays or fallure. Whille ASI has committed to resolving the outstanding defects, the IVV team has added a recommendation on the testing approach. 10/31/2024 – As of October 30, 2024, DHS testrs identified a stol of 1618 defects with 373 defects still		11/13/2024 DHS reviews and approves all SIT tests to ensure full coverage of functionality. The
				Final Acceptance Testing (FAT).	processes to confirm early testing its adequate before centering LMT/PAT (Closed 47)0/2024. DISK and AR monetor INT/ST closely for both breath and depth of testing to ensure the system is adequately tested (Closed 10/30/2024). As Utilities the tow week 174 testing pause to address and resolve outstanding ST defects and apply the faces in the PAT environment, settlement of the PAT environment of the PAT environment of the PAT environment of the PAT environment, settlement of the PAT environment of the PAT				team is concerned that introducing new functionality on top of the current unstable system may lead to project delays or failure. While ASI has committed to resolving the outstanding defects, the IVV team has added a recommendation on the testing approach. 10/31/2024 – As of October 30,		11/13/2024 DHS reviews and approves all SIT tests to ensure full coverage
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	Finding	Identified						Analyst	Finding			
ID Title	Reporter Type	Date Category	Observation	Significance	Recommendation OPEN • ASI effectively track and regularly provide DHS (potentially via the	Event Horizon	Impact Probability	ty Priority	Status	Status Update 12/31/2024 - The ASI continues to make efforts to enhance development	Client Comments	Vendor Comments
80 Development delays have negatively impacted the project schedule and de	Fors, Michael Finding - elayed Issue	b/30/2022 Configuration and Development	d ASI had previously reported development activities have been slowed as they have been unable to achieve and/or maintain their expected	milestones, schedule delays may lead to a delayed system go-live date.	weekly DDI status meeting) with an accurate velocity (e.g., story points per	Immediate	3	3 Med	Upen	12/31/2024 - The ASI continues to make efforts to enhance development quality and efficiency. They have recently onboarded a senior development		09/09/2024
go-live.			development velocity. Previously, the development team was challenged	Failure to achieve a level of accuracy in estimating development tasks could	day/week/month) and assure that the current velocity is accurately and					manager to help address ongoing development challenges and course-		Vic confirmed that 50
			with accurately estimating development task level of effort (i.e., story points) and the project has been challenged with producing a project	lead to a project schedule that is flawed and unrealistic. Previously, DHS had indicated, and IVV agreed, that some of these delays were due to some	consistently reflected in the project schedule • ASI regularly report					correct where necessary. Additionally, the ASI has reportedly added two ne development leads focused on quality assurance, as well as a new release	v	developers have been added to project.
			schedule that accurately reflects realistic timelines (see Finding #74). The	ASI BAs lacking the expertise required to create optimal designs and system	and present a dynamic burndown chart to track the progress. • The ASI					manager. 11/30/2024 - The ASI continues to struggle with a high number of	f	
			ASI continues to be challenged with finding qualified resources in a timely manner	specifications that developers could consume without requiring extensive clarification from the ASI BA/SA team. DHS and IVV observed instances	should consider enhancing the depth of developer unit testing. COMPLETE					defects, which frustrates and creates more work for DHS UAT testers. Because of this, DHS has elected to closeout UAT testing for the time being.		05/11/2024
			manner.	where ASI BAs/SAs have presented less than optimal designs and left it to	CLOSED • DHS request the ASI strategically add the right project team resources to effectively increase velocity. Note that adding additional junior	r				10/31/24 - With the recent departure of the ASI's recently hired		05/11/2024
				DHS (who may lack software or UI design expertise) to improve, which has	resources may not be as effective as staffing additional expert-level					development quality lead, the ASI hired two technical resources to mitigate		As discussed at pre-
				contributed to unproductive design sessions (see Finding #61). It remains unclear if scope creep has contributed to these delays.	development, analysis, and other resources that can lead and mentor junior resources. • ASI reviews the development process and identifies and	r				code quality challenges that have created project delays. 9/26/24 - The AS has recently taken steps to increase the code quality and productivity of	1	meet, the development team has
				ancies is acope creep his contributed to these delays.	mitigates the challenges preventing them from incorporating Epic demo					their development team by adding senior development resources including	a	been primarily focused
					activities into the project schedule. (9/29/23 - ASI will not be doing this,					development quality lead and a new development manager. They hope to		on fixing BES 1.0 defects DDI work for
					with DHS approval) ASI consider taking steps to increase code quality, including enhancing the depth of developer unit testing, tracking and					practices and unit testing so as to reduce coding defects. The ASI has		BES 1.1 and 1.2 are
					proactively preventing leakage, and enforcing effective coding standards					reported they currently have 84 developers (37 off-shore and some part-		forthcoming.
					and good governance.					time) working on BES and plan to add 50 more off-shore developers at som point in order to expedite development. The ASI has acknowledged that		
										coding defects have hampered the projects productivity, created project		
										delays, and frustrated the DHS testing team given the volume of defects the	У	
										added developers will be able to get up to speed and how quickly they can		
										be productive enough to make a measurable, positive impact on the pace or development. As of the last ASI status report, there are 376 unresolved		
										defects (104 high criticality), despite their best efforts to bring that number		
										down. The ASI will utilize the recently announced 2-week FAT pause to		
74 A BES Project schedule based on inac	rurate Molina Brad Finding -	11/29/2021 Project	DHS and the ASI have tried multiple times to rework the schedule with	If estimates for project schedule activities are not accurate, this can lead to	OPEN - Monitor evaluate and revise scheduling estimates for accuracy	Immediate	3	4 High	Open	resolve defects. 08/22/24 - The ASI has initiated a Go-to-Green (G2G) Plan 12/31/2024 - The ASI has not yet published a draft schedule, nor has the ASI	l	
estimations diminishes effective plans	ning Issue	Management	results that have not yielded improvement. Concerns with the structure.	constant schedule changes, resources not being available when needed.	based on the project teams past performance and resources available to do		-			and DHS agreed upon the software development life cycle (Agile vs.		
and resource management, which co result in late deliverables, cost increas	ould		estimating practices, and ability to manage to the schedule persist. The use	rushed activities, and general frustration which can lead to schedule delays, low quality output, scope changes, and budget issues.	the remaining work Any work required to address findings from Root					Waterfall) that will be used for the duration of the project. It is also unknown to IVV how the ASI estimated the remaining work, not only the		11/13/2024
result in late deliverables, cost increa- and a late go-live.	oto,		of multiple tools to track resources obtuscate resource management. Previous IV&V findings focused on specific schedule components such as	low quality output, scope changes, and budget issues.	Cause Analysis should be included in the revised schedule to validate completion for DHS. COMPLETE ASI conduct a Root Cause Analysis (RCA)					development but all remaining deliverables and those that must be revised		11/13/2024 I'm not sure the reader
,			resource management and critical path analysis, all of which were		with DHS and IVV to determine why the BES project continues to experience	e				development but all remaining deliverables and those that must be revised due to the delay. 11/30/2024—The ASI has indicated that a revised project	t	will know the "Option
			addressed and closed.		schedule delays ASI Project Management works with the development teams to evaluate the accuracy of development velocity and adjust					schedule will be provided to DHS and IVV for review by the second week of December. DHS and the ASI made progress on Change Requests (CRs) that		2" reference and I don't see any
					accordingly to reduce risk in the revised BES project schedule. •ASI provide:	s				will be included in the BES solution. This CR planning needs to be finalized t	•	subsequent references in the finding's details.
					Burndown charts that provide visibility into the remaining work ASI provide details on how Velocity measures were used to calculate the					complete the schedule. 10/31/2024 - This finding will be reevaluated by th IVV team after the project team completes the replanning and determines		
					remaining development workASI conduct a Root Cause Analysis (RCA) wit	th				the approach, requirements/functionality, and schedule for the Pilot and		Consider removing the latter half of the
					remaining development work. ASI conduct a Root Cause Analysis (RCA) wit DHS and IVV to determine why the BES project continues to experience					the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout 09/30/2024 - The project did not meet the Pilot Go Live		sentence "to support
					schedule delays. DHS and the ASI agree to a revised schedule against which project deliverables can be managed. (2/28/2023 - complete) ASI host a	n				date as the schedule was not realistic for the planned work to be performed and new functionality was requested by DHS via change requests (12		Option 2." 09/9/2024
					weekly meeting with DHS and IVV to review all changes to the project					overall). No updated schedules were published in September, as the ASI		
					schedules (Primary and DDI). (8/31/2023-complete) CLOSED ASI plan and execute Epic development so that Epic demos can occur earlier in the					worked through revising the schedule to align with the new project directio (combining releases) and including the scope for change requests and a	n	Numbr of defects,
					release schedule and allow time for possible revisions. (12/31/2023 No					crucial functionality list from DHS. Per prior recommendations, the ASI and		phased in epics, also outstanding CR. CR
					done) As requested by DHS, add key milestones to the project schedule, suc	ch				DHS should conduct a root cause analysis and incorporate the results in the		pushing schedule out
					as Sprint and Epic demos, to show key progress towards completion of Epics. (9/29/23 ASI says that they will not do this.) Confirm current					new schedule. 08/30/2024 - Underestimated development work that will coincide with FAT testing and related defect resolution, has created risk for		beyond Sept. Phased epics should be in this
					assumption that a delay with the current go-live date will not result in major	or				completing Epics in time for comprehensive INT, SIT and FAT testing prior to		week. Optimistic for
					implications. (6/29/23) Leverage velocity and burn down charts to adjust development tasks estimates if needed. Leverage velocity and burn down					Pilot. IVV is concerned that Epics might need to enter Pilot without full		getting defects and
					charts to adjust development tasks estimates if needed. (4/30/2023 - ASI					testing, causing issues for workers completing their required work. DHS ha also submitted additional Change Requests that may require the schedule to		epics addressed by end of September. But
					using Jira) Using the available tools, review the current estimates to					be delayed. As of the end of the reporting period, the ASI and DHS are		should include all
73 The planned BES infrastructure is com	noley Fors Michael Finding	10/28/2021 System Design	Current ASI infrastructure plans include a significant number of	If the level of effort to implement and manage the complexities of the BES	complete each activity compared to past actual hours (1/31/2023 - new AS • ASI develop a process to closely monitor cloud and other product changes		2	2 Low	Open	talking through a revision of the schedule that will at a minimum push FAT 12/31/2024 - No material update. 11/30/2024 - This finding will be		three of the issues.
which could be difficult to implement	t and Risk	,,,,	sophisticated components that make up a complex cloud infrastructure.	infrastructure is not accurately accounted for and staffed by the ASI, the	(software updates/new releases), manage changes, and regression test onc	ce months				reevaluated by the IVV team after the project team completes the re-		11/17/2023 -
lead to schedule/cost impacts.			Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks	changes/updates are applied. • The project team work to establish strong governance over the utilization and maintenance of the various system					planning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout. 10/31/24 - This finding will be		Again, why is DR being referenced here? Per
			and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system	tools/components. • ASI allot time in the schedule to conduct proof of					reevaluated by the IVV team after the project team completes the		the current project
				maintenance and operations challenges as system changes can hold the increased potential for system failure (i.e., due to the significant number of	concepts to assure infrastructure components work as expected. • ASI					replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout 9/26/24 - The project continue		schedule, the DR plan is scheduled to be
				"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path.					to make progress on its technical debt (infrastructure activities that were		submitted at the end
				infrastructure and application-level bugs. Further, some components						put on hold in order to work on priority items), including improvements to		of the year. Reminder:
				remain in an immature state compared to their legacy counterparts. For example, the project recently experienced a system failure because Google						MongoDB, DataDog, and Boomi. The project has initiated the process with Neterrich to convert to the new Google SecOps platform and may add mon		Pilot Go-Live is April 2024
				Cloud failed to clearly communicate a change that led to failure in another						components/services, including the Consul API Gateway and Private Service		
				component (i.e., Nexus). Google Cloud is generally viewed as a less mature product offering, compared to their rivals (Amazon Web Services, Microsoft						Connect. The ASI intends to update the BI-12 before go-live to reflect these changes/additions. 8/22/24 - The ASI continues to make progress in		10/31/2023 - Vic - westill do
				Azure). IV&V remains concerned that this could lead to failures at critical						building out the finalized list of infrastructure components into the BES		notunderstand why
				points in the project (including post-go live production failures) that could						platform. The ASI appears to have a structured approach for building out		this remains.
				be difficult to resolve and lead to project disruption. If DHS intends to eventually reduce M&O outsourcing costs turning over M&O tasks to State						and testing these components and they have reported success with some disaster recovery (DR) tests. 7/26/24 - No material update for this reporting		10/11/2023
				employees, they could face challenges supporting tools they may not be						period. 6/20/24 - No material update for this reporting period. 5/31/24 - It		
				familiar with in a complex infrastructure environment.						remains unclear how infrastructure complexity will impact DR testing and execution, 4/30/24 - No material update in this reporting period, 3/31/24 -		Please reference your updates on
										During a recent Change Control Board (CCB) meeting the ASI presented DHS		finding #82 Security
										with a for-cost change request (CR) to the design of the Secure Enclave (the		and Privacy which
										addition of roles). In the CCB, it was clear that DHS and the ASI were not in agreement regarding the funding of this change request. 2/29/24 - No		documents the work being done for the
										material undate in the reporting period 1/23/24 - No material undate in		Secure Enclave.
										the reporting period. IVV continues to monitor this finding. 12/31/23 - No material update in the reporting period. IVV continues to monitor this		
70 Insufficient configuration management	nt Fors, Michael Finding -		d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the		OPEN • ASI adhere to plans for configuration management as documented		2	2 Low	Open	12/31/2024 - No material update. 11/30/2024 - This finding will be		
could lead to development confusion reduce the effectiveness of defect res	and Risk	Development	Configuration Management Plan, however, it remains unclear if sufficient progress has been made toward establishing CM processes and governance	ensures the BES is understood and works correctly. The BES solution	in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DH	IS.				reevaluated by the IVV team after the project team completes the re-		
reduce the effectiveness of defect res	Million		selecting CM tools (e.g., CMDB), and building out the CM infrastructure. Th	e Management that may reduce errors and should provide the project team	ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.					planning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout. 10/31/24 - This finding will be		9/9/2024
			projects Security Plan has yet to be finalized which may include additional	with accurate, dynamic and timely information on some of the configuration	COMPLETED • DHS and ASI work to clarify/solidify plans for the potential					reevaluated by the IVV team after the project team completes the		Still in progress. Plan
			requirements or decisions that could impact CM. The project currently relies on Github for tracking of some configurations.	Items. However, it is critical that DHS/ASI agree to the full list of Items that are included in the configuration plan along with the details regarding the	use of configuration management tools. • Identify the DHS POC for the					replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout. 9/26/24 - The ASI had recently		to update Configuration
				management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plan	15				stated they plan to update their Configuration Management Plan (CMP) list		Management Plan list
					are being followed, are effective, and are achieving DHS objectives for CM.					of configuration items (Cis) and CMP procedures by 9/20/24 but has since		of items. Two
					1/21/2022					experienced some delays in completing these activities. 8/22/24 - IVV has yet to receive a detailed, comprehensive list of configuration items the ASI		documents, management plan
										will be tracking, 7/26/24 - No material update for this reporting period.		(end of week),
										6/20/24 - No material update for this reporting period. 5/31/24 - IVV has yet to receive a detailed, comprehensive list of configuration items the ASI		Configuration Management
										will be tracking. 4/30/24 - IVV has yet to receive a detailed, comprehensive		procedures (more
										list of configuration items the ASI will be tracking, 3/31/24 - Responsibility		detailed). Working with Mark M on what
										for the Configuration Management Plan (CMP) reverted to the ASI (previously, the DHS Security Contractor was updating the CMP for related		with Mark M on what should be included.
										security controls). The ASI is resuming this scope of work at a time when its		Trying to work with
										resources are stretched and may lead to CMP and configuration		folks who really understand the details
										management quality challenges. 2/29/24 - No material update in this reporting period. 1/23/24 - No material update in the reporting period.		and are available.
										reporting period. 1/23/24 - No material update in the reporting period. 12/31/23 - The project will utilize the DHS contractor currently assisting		and are available.
										reporting period. 1/23/24 - No material update in the reporting period. 12/31/23 - The project will utilize the DHS contractor currently assisting with security activities to update the Configuration Management Plan (CMP). The scope of work that the DHS contractor is responsible for is		and are available. 10/31/2023 -
										reporting period. 1/23/24 - No material update in the reporting period. 1/23/25 - The project will cultile the DHS contractor currently assisting with security activities to update the Configuration Management Plan (CMP). The scope of work that the DHS contractor is responsible for is unclear to IN-1/13/0/23 - The SAS has yet to provide a detailed list of		and are available. 10/31/2023 - Vic - We provided a
										reporting period. 1/23/24 - No material update in the reporting period. 12/31/23 - The project will utilize the DHS contractor currently assisting with security activities to update the Configuration Management Plan (CMP). The scope of work that the DHS contractor is responsible for is		and are available. 10/31/2023 -

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