



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

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August 20, 2024

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu. Hawai'i 96813

The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-Second State Legislature State Capitol, Room 431 Honolulu. Hawai'i 96813

Aloha Senate President Kouchi, Speaker Saiki, 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

Draft IV&V Status Report for Reporting Period: July 1 – 31, 2024

Submitted: Aug 08, 2024



Overview

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Engagement Status
- Appendices
 - A IV&V Criticality Ratings
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Executive Summary



July was a busy month for the BES Project. The BES 1.0 release Final Acceptance Test (FAT) is fully underway, the ASI is providing active defect correction and technical environment support, and the team continues to design and develop the functionality planned to be implemented post-pilot.

- ASI development resources needed to support FAT defect correction has pulled focus away from planned development, resulting in delays in developing required functionality. The ASI is adding additional resources to address this problem.
- Time Travel is a testing process in which a separate testing environment is moved forward to specific future dates to verify
 eligibility and ensure date-driven scenarios behave correctly. During FAT, DHS raised several time travel concerns that
 the ASI addressed or is addressing.
- The ASI delay in providing the required post-conversion report was caused by corrective actions in FAT data conversion.
 IV&V is collaborating with DHS and ASI to review ASI's pre-FAT data conversion testing and identify improvements for better Pilot preparation.

While the project team focuses heavily on FAT, readiness for Pilot is a key activity. Pilot users start training in August, and it will be critical that the training materials accurately reflect the BES 1.0 application functionality deployed for Pilot. The ASI is developing documented workarounds to address defects that will not be corrected prior to Pilot, and workarounds for requirements tied to deferred functionality not included in the Pilot release. DHS has requested both types of workarounds be documented with enough time to have the training materials and job aids accurate along with a consistent and timely communication plan to the Pilot users and DHS team.

May	Jun	Jul	Category	IV&V Observations
Н	H	Н	Project Management	The ASI is experiencing challenges with addressing the level of defects found in FAT. Coupled with the development of BES 1.1 functionality and completing the outstanding BES 1.0 development, the ASI is planning to add additional resources to the development team to avoid material delays. IV&V is closely monitoring the project management efforts to stay on schedule and enter Pilot as planned on September 16, 2024.

Executive Summary

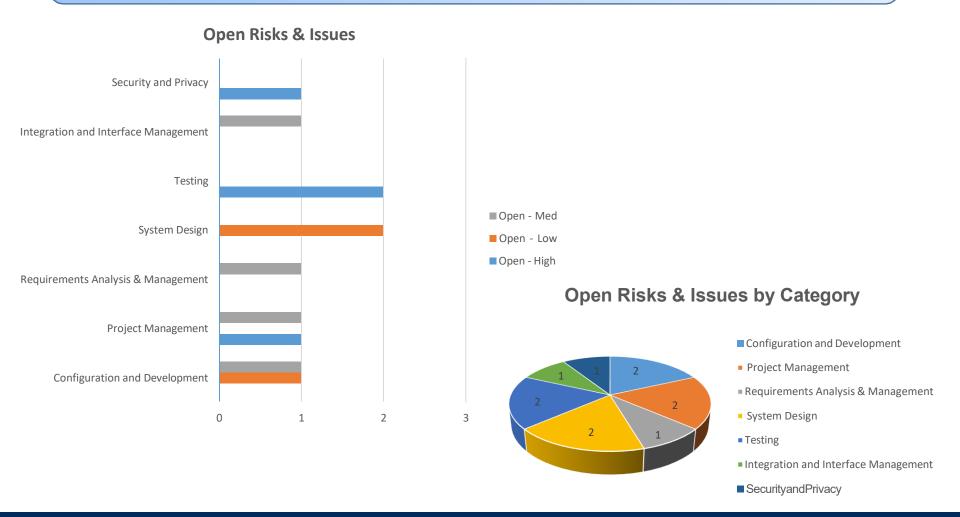


May	Jun	Jul	Category	IV&V Observations	
M			System Design	IV&V continues to monitor the Project design activities included in the BES 1.1 release.	
M	M	M	Configuration and Development	DHS has not found the Burndown Chart provided by ASI to be valuable and has requested a report that clearly shows both the remaining outstanding work and the development velocity.	
M	M	M	Integration and Interface Management	Physical and Technical testing of the BES 1.0 release interfaces continued throughout the month of July. IV&V is concerned that progress slowed in July as ASI resources focused on supporting FAT.	
Н	H	Н	Testing	IV&V is concerned with the volume of defects being found in FAT and the amount of ASI effort needed to resolve the issues. Data conversion defects discovered in FAT have led IV&V to examining the robustness of ASI data conversion testing prior to FAT.	
Н	Н	Н	Security and Privacy	The Independent Security Assessment team began penetration testing of BES 1.0 in the production environment once the ASI made the environment available at the beginning of July. Missing and incomplete supporting documents referenced in the System Security Plan (SSP) remain an IV&V concern. The Social Security Administration (SSA) conducted a separate one-day security assessment on July 8, 2024. DHS and the ASI are working to provide responses to SSA requests.	
M	M	M	Requirements Analysis & Management	The BI-21 Requirements Traceability Matrix (RTM) was not ready for DHS deliverable review and approval by the end of July. IV&V is concerned that delays in finalizing the RTM may lead to requirements tracing issues, testing gaps, and project delays.	



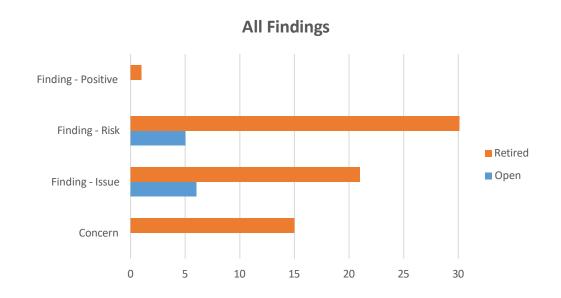


As of the July 2024 reporting period, PCG is tracking 11 open findings (5 risks, 6 issues) and has retired a total of 75 findings. Of the 11 open findings, 4 are High, 4 are Medium, and 3 are Low.





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
	Insufficient coordination and management of time travel test execution and the time travel environment could lead to rework and schedule delays.	
97	Observation : IV&V is concerned with the time travel test environment which may cause delays in the testing schedule. Time Travel is a testing process in which a separate testing environment is moved forward to specific future dates to verify eligibility and ensure date-driven scenarios behave correctly. The current configuration has the system date manually advanced after work hours for a single date change. FAT testers must wait for their specific date advancement requests to be applied before they can proceed with and/or complete their test cases.	Testing
	Significance : A lack of clarity around this complex effort of time travel testing and data refreshes has resulted in some testers needing to re-execute test set-up steps. With FAT the final test phase immediately prior to Pilot, test quality can suffer as testers are under pressure to complete their testing on time. Rework increases testers' workloads and increases the chance that FAT cannot be completed as scheduled.	
	Delays in providing the required deliverables to FNS could extend the review time needed and delay FNS's concurrence to start the pilot.	
98	Observation : Not all the documents that FNS is required to review have been provided. In 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 review to take the full 60 days. The longer DHS delays getting deliverables to FNS, the closer it gets to the planned start for Pilot.	Project Management
	Significance : The BES pilot cannot start without FNS's concurrence. Therefore, it is critical the project team deliver the required deliverables to FNS as soon as possible so FNS has the necessary time to review and give the go-ahead to start Pilot.	



Findings Opened During the Reporting Period

#	Finding	Category
	None	



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	4	The ASI is actively working on defect resolution and new development work for BES 1.1. A few key documents/deliverables, including the Disaster Recover Plan, Data Conversion results, and Requirements Traceability, are behind schedule. The ASI is hiring additional resources; however, it is not known if these resources will have a positive impact on the work remaining as defined in the schedule.	Н

Recommendations	Progress
 Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performand and resources available to do the remaining work. 	ce In Process



Project Management

#	Key Findings	Criticality Rating
	Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall Project success and reduce user adoption.	
88	DHS and the ASI continue to document and develop workarounds in preparation for Pilot. There are now two workaround areas: 1) known gaps in functionality and 2) defects discovered during testing that will not be addressed prior to Pilot. Additionally, planning is ongoing for incorporating these workarounds into the training process.	M

Recommendations	
 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 FAT 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



System Design

#	Key Findings	Criticality Rating
86	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.	L
	IV&V observed positive progress this month with the ASI providing specific actions to address DHS concerns regarding the Mass Change Functionality (Epic 208).	

Recommendations	Progress
 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



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.	L
	No material update for this reporting period.	

Recommendations	
 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.	L
	No material update for this reporting period.	

Recommendations	
 ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify 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
DHS and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the Project.	In process



Configuration and Development

#	Key Findings	Criticality Rating
	Issue – Development delays have negatively impacted the project schedule and delayed go-live.	
80	The ASI has recently reported additional development delays that could put go-live milestones at risk. The ASI plans to mitigate this risk by acquiring additional resources to compensate for recent delays. Burndown charts typically provide project stakeholders and executive leadership visibility into the overall productivity of system development efforts. However, DHS has stated the ASI-provided burndown charts currently provide little to no value to project stakeholders. IV&V recommends DHS request burndown charts (or other reports) that give visibility into development velocity and whether the Project will be able to meet Statewide go-live milestones.	M

Recommendations	
 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
93	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. Approximately 85% of the planned testing activities for the interfaces in the BES 1.0 (Pilot) release have been completed. BES 1.0 interface testing is expected to conclude by mid-August.	М

Recommendations	
API interfaces should be tested for failure conditions during connection and transfer operations.	In Process
FTP and file interfaces should be tested for data and file integrity.	In Process
 Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other unexpected data transmission errors. 	In Process



Testing

	#	Key Findings	Criticality Rating
		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.	
•	83	DHS Testers have logged 453 defects (excluding duplicates or those determined not to be defects, such as user error) in the first 5 weeks of FAT with the following severities (High = 84, Medium = 201, Low = 168). Open/unresolved defects total 230 (50%) with the following severities (High = 36, Medium = 112, Low = 82). Seven high-severity defects have been in unresolved status for 5 days or more, with one defect remaining open since 6/28/2024. IV&V is concerned that the test execution schedule will be compromised if testers continue to wait for fixes to be delivered before they can complete their planned tests and the risk that testers will discover new downstream defects that must also be fixed prior to Pilot.	Н

Recommendations	Progress
Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In Process
 ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT. 	In Process



Testing

	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.	
00	In July, the ASI delayed the delivery of several reporting functions planned to be phased into FAT. Some of these reports are financial and provide key operational metrics that are complex and take time to validate for accuracy and completeness.	Н
89	The 2-week delay for Epics 286b and 208 and the 5-week delay for Epics 203 and 244 is resulting in the overlap of SIT, FAT testing support, and BES 1.1 (statewide) development efforts.	
	IV&V is concerned that the further delays and concurrent activities will lead to increased complexity due to the difficulty of managing and coordinating multiple tasks at the same time. This may impact the project team's ability to complete testing and other required activities to meet pilot and statewide go-live dates.	

Recommendations	
Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT.	In process
 The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. 	In process
 The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping assigned responsibilities 	In process



Security and Privacy

#	Key Findings	Criticality Rating
	Issue – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP).	
	The ASI stood up the production environment on July 8th, allowing the BES Independent Security Assessment penetration testing team to gain access and start the four-week period of testing the BES system. The ASI participated in interviews with the BES Independent Security Assessment assessors. Additional interviews will continue into August.	
82	The ASI is internally reviewing the Disaster Recovery (DR) plan before delivering it to DHS. However, this DR plan is unavailable for the current security assessment and should be available and tested prior to another assessment, such as the IRS.	Н
	The completion of the Secure Enclave design now allows for significant updates to "Planned" responses to be made to Appendix A, which contains IRS security controls in the SSP. The Social Security Administration (SSA) also performed its security assessment in July, and the ASI/DHS Security Team is providing additional information and evidence prior to the SSA report and POAMs (Plans of Action and Milestones) being issued for remediation. It is too early to determine the impact of remediation activities and if there are any impacts on the BES Pilot schedule.	

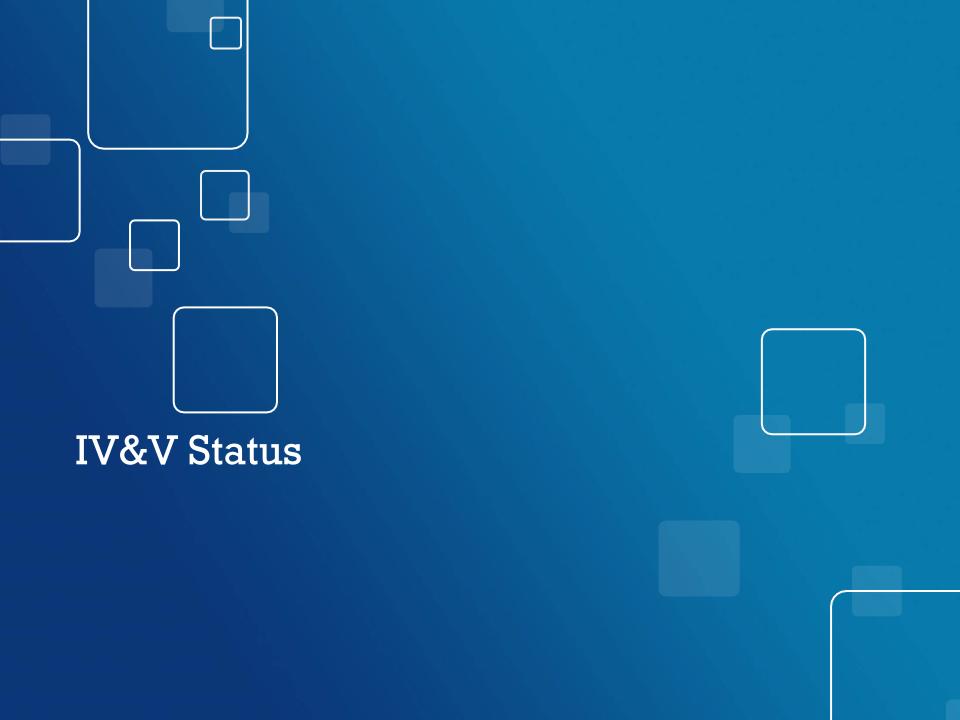
Recommendations	Progress
Determine when documentation will be created, updated, and available for the SSP authors.	In process
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In process
 Perform a full review of all draft SSP controls for content and accuracy prior to the start of the Independent Security Controls Assessment of BES and submission of the SSP package to federal regulators. This will allow the SSP authors to update controls with changes from Design through Implementation. 	In process



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.	
9	94	Discussions were held throughout July regarding the format and structure of the Requirements Traceability Matrix (RTM). However, the ASI has not distributed a reformatted BI-21 Requirements Traceability Matrix deliverable for DHS review and approval. IV&V remains concerned that the delay in finalizing the RTM may lead to requirements tracing issues, missing required Pilot functionality in BES, testing gaps, and project delays.	M

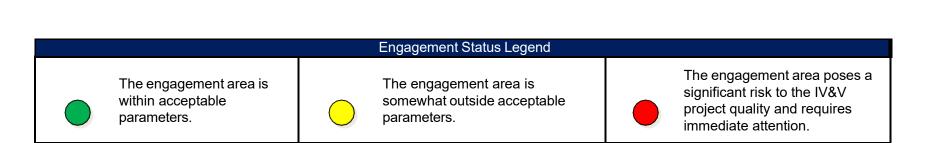
Recommendations	Progress
 Develop a document that provides DHS with a feasible and effective way to map contract requirements to passed test cases, and, per the BI-19 (Complete and Final Test Plan),"Maps the implementation, functions and technical requirements to the test cases and test scripts". 	
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



IV&V Engagement Status



IV&V Engagement Area	Apr	May	Jun	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final June IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				



IV&V Activities



- IV&V activities in the July reporting period:
 - Completed June 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 August 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
BI-5 Project Schedule - BES 2023 Primary	07/06/2024, 07/13/2024, 07/20/2024, 07/27/2024	N/A
BI-5 Project Schedule - BES 2023 DDI	07/06/2024, 07/13/2024, 07/20/2024, 07/27/2024	N/A
BES M&O Project Schedule	07/01/2024	N/A
BI-22 Release 0.12 System Test Report	07/02/2024	V1.0
BI-20 Release 0.12 BES Test Scenarios, Cases, and Scripts	07/05/2024	V1.1
BI-35 Verified Technology Environments	07/15/2024	V1.0
BM-11 Completed BES Migration Checklist DED	07/25/2024	V1.0

<u>Additional Inputs – Artifacts</u>



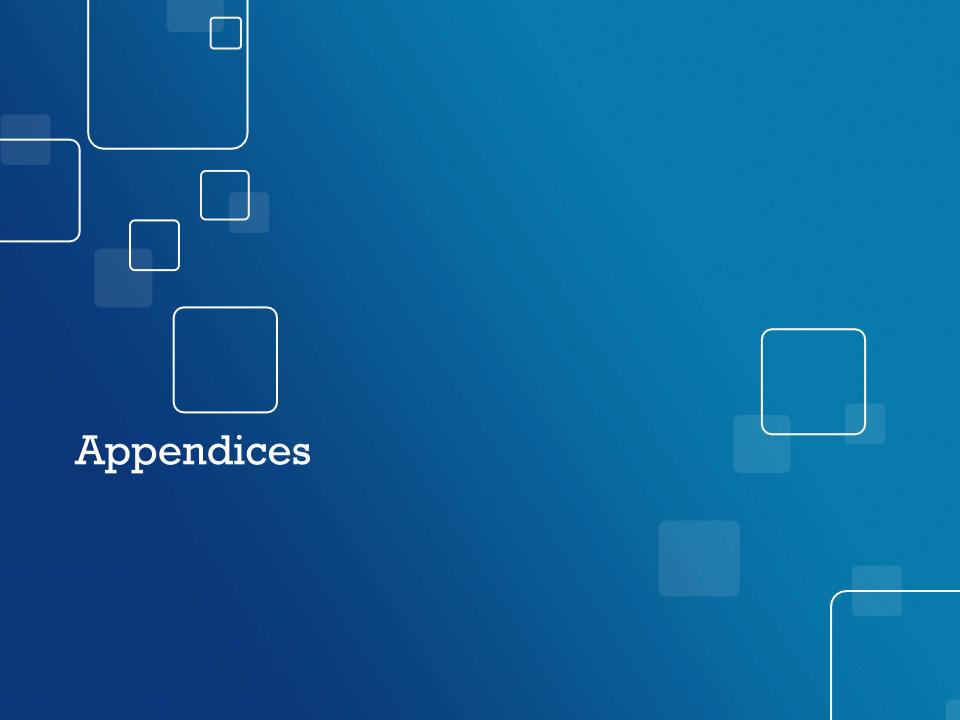
Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
SNAP_System_Integrity_Review_Tool	Sept 2022	N/A
Interface Dashboard – Confluence 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
FAT Testing Dashboard	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 7/3/2024, 7/8/2024, 7/11/2024, 7/15/2024, 7/18/2024, 7/22/2024, 7/25/2024, 7/29/2024
- 2. HI DHS BES January Draft IV&V Report Review 7/15/2024
- 3. Bi-Weekly DHS and IV&V Touch Base 7/09/2024, 7/18/2024
- 4. Weekly BES Infrastructure meeting 7/5/2024, 7/12/2024, 7/19/2024, 7/26/2024
- 5. Weekly Client BES 2023 Project Status Meeting 7/3/2024, 7/10/2024, 7/17/2024, 7/24/2024, 7/31/2024
- 6. Security Touchpoint 7/3/2024, 7/10/2024, 7/17/2024, 7/31/2024
- 7. (Externa(I) Weekly Interfaces Touchpoint 7/1/2024, 7/8/2024, 7/15/2024, 7/23/2024
- 8. (External) Readiness Working Group Meeting 7/2/2024, 7/9/2024, 7/16/2024, 7/23/2024
- 9. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 7/3/2024, 7/17/2024, 7/31/2024
- 10. (External) Bi-weekly BES CCB Meeting 7/10/2024
- 11. FAT Testing Site Visits 07/16/2024, 07/17/2024
- 12. (External) BES: FNS Connect 7/18/2024
- 13. (External) C!A Current Weekly Checkpoint-7/2/2024, 7/9/2024, 7/16/2024
- 14. eWorld/IV&V Mid-Month Check-in 7/29/2024
- 15. (External) BES M&O Project Status Meeting 7/1/2024, 7/8/2024, 7/15/2024, 7/22/2024, 7/29/2024
- 16. (External) BES Snow Touchpoint 7/3/2024, 7/10/2024, 7/17/2024, 7/24/2024, 7/31/2024
- 17. (External) BES FAT Daily Touchpoint 7/1/2024, 7/2/2024, 7/3/2024, 7/5/2024, 7/8/2024, 7/9/2024, 7/10/2024, 7/11/2024, 7/12/2024, 7/15/2024, 7/16/2024, 7/17/2024, 7/18/2024, 7/19/2024, 7/22/2024, 7/23/2023, 7/24/2024, 7/25/2024, 7/26/2024, 7/29/2024, 7/30/2024, 7/31/2024
- 18. (External) BES FAT Daily Defect Status Meeting 7/1/2024, 7/2/2024, 7/3/2024, 7/5/2024, 7/8/2024, 7/9/2024, 7/10/2024, 7/11/2024, 7/12/2024, 7/15/2024, 7/16/2024, 7/17/2024, 7/18/2024, 7/19/2024, 7/23/2024, 7/23/2024, 7/24/2024, 7/25/2024, 7/26/2024, 7/29/2024, 7/30/2024, 7/31/2024
- 19. (External) M&O Schedule Update / DCF Review- 7/2/2024
- 20. (External) BES M&O Schedule Update 7/9/2024
- 21. (External) BI-22a BES 1.0 SIRT Comment Response Review Meeting cont'd 7/11/2024, 7/15/2024, 7/22/2024, 7/25/2024
- 22. (External) BES 1.0 ADA Test Results Review Meeting 7/19/2024
- 23. (External-Epic Demo) Epic 208 Mass Change 7/24/2024





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.
М	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						Analyst	Finding			
ID Title Reporter Type 98 Delays in providing the required deliverables Molina, Brad Concern	Date Category 7/24/2024 Project	Observation	Significance The BES pillot cannot start without FNS's concurrence. Therefore, it's critica	Recommendation	Event Horizon	Impact Prot	ability Priority	Status	Status Update	Client Comments	Vendor Comments
to FNS concurrence to start the pilot.	Management	the weekly Readliness 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 review to take the full 60 days. The longer DFS delays getting deliverables to FNS, the closer it gets to the planned start for Plot.	the project team deliver the required deliverables to FNS as soon as possible		11,000	v	5 164	Opan			
97 Insufficient coordination and management Kalsi, Neetu Concern of time based text execution and the time travel environment Coold lead to rework and schedule delays.	7/23/2024 Testing	NY is concerned with the time travel test environment which may cause delay in the testing schedule. Time Travel is a testing process in which superate testing environment is moved forward to specific floare dates to verify eligibility and ensure date driven scenarios behave correctly. The current configuration has the specime date inmusually advanced after work and the specific date of the specific date	refreshes has resulted in some testers needing to re-execute test set-up steps. With FAT the final test phase immediately prior to Pilot, test qualty can suffer as testers are under pressure to complete their testing on time. Rework increases testers' workloads and increases the chance that FAT	Explore a solution to implement a more flexible date update process and/or mechanism to mitigate potential text execution delays.	0	0	O NA	Open			
94 The lack of an effective way to validate MES Molina, traid Productive requirements cold used to project either Progress Page and unfulfilled user needs if DHS Stater identifies unmet contractual requirements.	4/23/2024 Requerement Analysis & Management Management	The Regularments Tracability Matrix (RTM) (8:21) plays a vital rickin in causing the system's compliance with contactal commissments by associating each requirement with passed test case(s). Sowwer, the approved priese; varied to these that RTM commissed on or \$7.27 pt., with 22 pt. or \$1.00 pt. or	ST completion. Delt may be usable for note an informed decision on SIT ex- orters. This could be observable from 2 counters the register of the orters. This could be observable from 2 counters the register of the standard plan and of registerancies have been fully mot resulting in other.	the BI-13 Complete and First Test Film). Thags the implementation, functional and excitors (requirements to the state case and test scripts.* Emure test scripts the storoughly and comprehensively test the system to assure seath requirement has been fully nex.		3	3 Med		and structure of the Requirements Traceability Matrix (RTM), However, the ASI has not distributed a reformation \$4.1 Sequirements Traceability Matrix deliverable for DrS reviews and approval. In Virenaiss occurred that the ded syn findishing the RTM rely last for conquirements traceing staust, and the ded syn findishing the RTM rely last for conquirements concerned that the ded syn findishing the RTM rely last for conquirements concerned that \$4.50 DUZS + VIV is reporting positive movement on the six this rounds. The ASI delivered and rivel 12 STM IND LOSS and cold First feedback to review the RTM's structure to simplify the basing of requirements, use case, epic. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to the report of the VIV is a single report of the VIV is a produced to the ASI of the VIV is a single report of the VIV is a produced to the view of the VIV is a single report of the VIV is a produced to the single report of the VIV is a produced that the single report of the VIV is a single report of the VIV is a single view of the VIV is a view of the VIV is a single view of the VIV is a view of the VIV is		7/12/2024 I'm not sure if this is worth noting but worth noting but worth noting but worth noting but with the sure workers of the sure workers of the sure in the
93. Due to the lack of physical and schemical tensing of the interfaces and data transitive Mark Mark Right stating of the interfaces and data transitive Mark Right (Final Lack) and the stating of the schemic Advances and	4/29/2024 Integration and letterface Management	aude from the functional teating accomplished during ego cleating, specific data flow testing is usually part of an interface definition.	This being is exemital folior initial displayment to prevent invespected and difficultion revolved investigation and initial control initial displayment and initial control i	In Process LA Printerfaces should be tested for failure conditions during connection and transfer operations. LTP and let interfaces bounded be tested for data and file integrings. A Test data fields for system impacts resulting from data that poorly formatting, out of range, or determined the resulting from data that poorly formatting, out of range, or determined the resulting from the property of the property	2024 2nd Op	3	2 Med	Open	GBUJU2024 - Approximately SNs of the planned testing activities for the state faces in the ELE S1 D interface is testing. In (Print) release the been completed, EBS 1D interface testing is espected to conclude by mid-August, CBC (PSZ/2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the testing testing the secretary oxygain for the secretary		OS/14/2024 As mentioned at the May pre-meet, a technical Interface team plan does exist to address PCG's recommendations. f this finding-5/11/20 As mentioned at the pre-meet, a technical Interface team plan does exist to address to address.
89 The current approach to completing the development of the remaining eyes is condomed and algogacious, which may condomed and algogacious, which may condome and algogacious, which may condome and algogacious, which may condome and a higher volume of testing defects.	12/21/2023 Testing	Ten of the Epics scheduled for completion before Reflesse 0.12 ST will not be really. To avoid ST delay, the current approach is to begin ST without BI Digics and terth them such year complient. Additionally, Reflesse 0.12 and the second state of the second state of the second seco	Overlapping development and testing introduces potential quality issues: treafficient NRT may create pain in ST, leading to further quality issues. This may increase the road or agriculture delays or introduce defects into the production environment.	OPEN - The ASI validates that development and testing resources have 1 stiflicient bandwidth to complete overlapping assigned responsibilities 1 stiflicient bandwidth to complete overlapping assigned responsibilities 1 stiflicient bandwidth to complete overlapping assigned responsibilities 1 secretary for the stifling of the stifling assigned assigned assigned assigned 1 secretary for incomplete space to Diff for review/approach aband of Star 1 securious. CLOSIO The plan to complete file stifling/amentation does not include overlapping testing phases (SVA20204 - The ASI should evaluated 1 beginning to stifling the procession of the stifling of the stifling overlapping testing phases (SVA20204 - The ASI should evaluated 1 beginning the stifling the procession of the stifling of the stifling overlapping the stifling the stifling the stifling overlapping the stifling t	Now	4	S High	Open	7/31/2024 - In July, the ASI delayed the delivery of several reporting functions planned to be phased into FAT. Some of these reports are financial functions planned to be phased into FAT. Some of these reports are financial wildrafe for accuracy and completeness. He are very large for plant and the several post of the property and the several configuration of the several post function of the property and the several post function of the property and property and post function of the property and post function of the property and post function of the property of the property and property and post function of the property of the property and property		PCOS recommendations: this finding. O6/14/2028 Why is this still red This should be in yellow for monitoria after discussions in April (March red) in addition, the Item itset should be an AIST It tests have be reviewed and post approved by DAS approved
BS Implementing a force Adultion for go like Mollins, Bad Finding - carries in the ment make my impact over all project success and reduce user adoption.	11/20/2023 Project Stansgement	stated timeline. This version is generally referred to in Agile software development as a Minimum Viable Product (MVP), which is a simplified version of a product that 1) offers functionality that meets the core needs of	such as potential challenges in security over buyer. This can result in limited user adoption, or dissultation, and engagine publicity, particularly considering the financial intentiment mode for the dividery of limited functionally. A compressed trainless may compresse the quality of designs, user interface suphistications, and least to an upcif, in inchieses bug required viconsplaces, such as last antienal design of the public of publicity complainers, such as last antienal septem of time regularity bodies last PAS, which could find certain system demonsts non-complaint with their standards and devily the gib held dark hadilgement between stakeholder expectations and the Cost Solution may lead to dissurtation or a last of support for the project on double deprively impact future project funding requests, templementing a limited Core Solidons typically defined to the support of the project on double deprively impact future project funding requests, templementing a limited Core Solidons typically defined to the support of the project on double depression for spically for the project of the dispersion of the support of the project of the double project of the dispersion of the size of the support of the solid means and the size of the solid means and the size of the solid means are sized for the solid means and the size of the solid means are sized for the solid means and the size of the solid means are sized and the size of the si	I monitor, assess, and address potential challenges throughout the development process including code quality, curting scope to meet development milestones, insufficient user validation of demonstrated the insufficient process. In control of the control of t	Now	3	3 Med	Open	reports from Groups 2, BIT completion of 6721/2024 to Group 2, BIT completion of 1721/2024 to Group 2, BIT completion of 1721/2024 to With comment that the plasming reports into MATE of the Completion of 1721/2024. We be commented used using strong control and completion of 1721/2024 to MATE OF 1721/20		followed the same 5 entry offers as documented in the 5 entry offers as documented in the 5 soft and 5 for BS 1.0. Then were no amendment to the Bi-19 decrease, as result of the 7 ga decrease, and expenditude of the 5 for soft and
			features are further delayed when be given and other features take procedures. Other nation join confedence that the features or system improvements will over be implemented. Going live with a solution that is missing functionally intakhaldeders were experting systeally requires an increase in DOM efforts both by the ASI and DHS staff to temperate an increase in DOM efforts both by the ASI and DHS staff to stemper stakeholdeer's reactions to a system with limited functionality.	and buy-in. (06/3Q/2034)					solution not tested in a real-world Pilicia environment may lead to unspected issues and bags. In Verenation concreded that user expectations will not be fully met as the go live system will be missing functionally that could be important to many users. DI 2173.17. The Air recently instructionally that could be important to many users. DI 2173.17. The Air recently instructional or reducing the risk associated with implementing the Corn Solution and reducing the risk associated with implementing the Corn Solution and effectively managed user, public, and eight with expectation. The ASI has stated they do not expect this transition to negatively impact the project and have need so one presented improvements. J 2174/213 - Delay in soone part of the contraction of th		functionality in multiple releases (Filot/Stakewide/Pos Statewide)."12/15/2 23 - Above already addressed by OHS/. Campos.Ensure recommendations reflect "in Progress" "In Process".

ID. T	Ma	Finding Penarter Tyres	Identified	Observation	Similirara	Saconmentation	Funnt Haritan Im	unact Brobability	Analyst Priority	Finding	Status Hadata	Client Comments	Vander Comments
	mited collaboration between the ASI and HS in the design process could lead to BES ability issues and functionality gaps in the	Molina, Brad Finding - Issue	8/1/2023 System Design	concerns raised by the DHS testers regarding the usability of the BES system, challenges with the user interface, missing functionality, and basic screen	A significant amount of money and DHS resource time have been invested in the BES solution, with the expectation that the new system will at minimum provide all functionality found in current applications – but really should provide additional capabilities, greatly enhanced user interface, and overall	sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products. CLOSED - ASI and DHS re-evaluate	Now	2	2 Low	Open	7/31/2024 - IVV observed positive progress this month with the ASI providing specific actions to address DRS concerns regarding the Mass Change Functionality (Epic 208). 6/31/2024 - IVV observed DHS and the ASI working collaboratively in a setting that promoted healthy dialogue on the	10/11/2023 Jessica - Our SMEs are providing their feedback. This is one of the items that I clarified with IV&V, that there are feedback given, no feedback means design is ok. I rec'd an emal back from Joe F. that IV&V	
n	pplications, not meeting critical business needs for DHS and State clients.			Liquot lauses that would not be expected in a modern application. Based on defect reporting from the URT process, Jaigen applicing the defects are related to 'Geign errors'. Although the Release II LNT cycle was testing a partially build system, a significant amount of design defects was attributable to functionality developed for Release II.	improved usability from current systems. Should the solution fall short of expectations, there may be challenges in DHS staff adoption; lack of confidence in the solution providing the accurate information needed to provide benefits to HI citizens: reduction in ability for DHS to provide the	the effectiveness of the recorded Sprint review process to ensure that designs align with 156 espectations, (cloud 3/13/2024). Housed a wide enough audience in all design and demo esszions to validate PNS and DNS functional and technical requirements and system usability. (Cloud 6/14/2024). Perform comprehensive (demo all requirements) review during Epic demo, not just the Items Mark were addefujudated, allowing DNS to provide early feedback on possible issue/ligaps that might not be apparent when focusing on specific functionality. (Cloud 6/14/2024)					BES design therefore, the criticality rating is updated from a medium to low. OS/30/2024 — Max Jipan to continue live Sprint Demos for the remaining Epic design work, providing a venue to increase collaboration with DHS. The SSP development will follow the Waterfall methodology, so no sprints or demos will occur. O4/30/2024 - NV commends the ASI and DHS team for reverting to conducting four live sprint demos in support of Epic 209. These proved to enable lemby, efficient collaboration. O3/31/2024 - Due to a high and the control of th	wants to meet with our reviewer to validate this.	Why is this in Not Started? We had a live sprint demo for Epic 209. In addition, this should not include Epic demos. We have always had live Epic
											number of questions and concerns from DHS during Epic demo 25E. (Approval and Science Science) and concerns from DHS during Epic demo 25E (Approval and Science), the Act of committee the hacing another of committee the properties of the propertie		demox. Regarding SSP following the Waterfail methodology – DHS has approved all the designs, except one. We are collaborating with DHS to obtain their approval on the outstanding design. Design sessions will be scheduled as part of this process. There are 20+ people invited to the design sessions. 04/10/2024
83 G	aps in test coverage and slower-than- pected progress in testing may result in chedule delays if subsequent test phases	Kalsi, Neetu Finding - Issue	6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be lagging. Concerning testing coverage, it appears	and cost-effective to address issues during the early testing stages. If there	OPEN - DHS should request that the ASI develop a Corrective Action Plan to address the failure of prior test phases (Unit, INT) to capture defects that rolled into SIT CLOSED - The ASI should determine the root cause of the	UAT	4	4 Hgh	Open	agreements), that the ASI is not considering at this time. As of the end of 7/31/2024 - DHS Testers have logged 453 defects (excluding duplicates or those determined not to be defects, such as user error) in the first 5 weeks of FAT with the following severities (High = 84, Medium = 201, Low = 168).		7/17/2024
	ncover a higher volume of defects and user redback than initially anticipated.			that not all epics and use cases in R11 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain unexecuted, and not all defects have been resolved as the project	more defects leaking into subsequent testing phases, necessitating more extensive and rigorous testing efforts. Insufficient testing coverage or slower than-anticipated progress throughout the project lifecycle increases the risk	failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT (Closed 4/30/2024) NOT COMPLETED - The Project team reviews					Open/unresolved defects total 230 (50%) with the following severities (High = 36, Medium = 112, Low = 82). Seven high-severity defects have been in unresolved status for 5 days or more, with one defect remaining open since		As mentioned previously, eWorldES
				commences System Integration Testing (SIT). The ASI has plans to complete the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	of encountering significant delays, extensions, or the introduction of defects into the production environment during the final testing stage, known as Final Acceptance Testing (FAT).	the STF exit criteria and revises them as needed to ensure UAT/FAT begins with the best system possible, (3/31/2024) in PROGRESS - DISS and ASI monitor INT/STT closely for both breadth and depth of testing to ensure the system is adequately tested					6/28/2024. NV is concerned that the test execution schedule will be compromised if testers continue to wait for fixes to be delivered before they can complete their planned tests and the risk that testers will discover new downstream defects that must also be fixed prior to Plat. (3/0)/2024 - improvement of System Integration Testing (STI) defect resolution totals		delivered a simplified RTM to DHS to enter into FAT in order to meet the requirements Go FAT criteria. In
											addressed IVV's concern that the high number of unresolved defects would delay SIT exit. The ASI exited the SIT phase as scheduled on 6/21/2024 with 91 unresolved defects (43 medium severity and 48 low severity, or 10% of the total) compared to 352 unresolved defects at the end of Nay and with our unresolved critical and high-priority/severity defects. However, IVV is		terms of the SIRT, this is deliverable is not a criteria for entering into FAT. Please confirm with DHS.
											concerned that the project team entered Final Acceptance Testing [FAT] on 6/24/2024 without approved versions of the RTM and System integrity Review Tool (SRT) deliverables. While the SRT is not a criterion for entering FAT, both the RTM and SRT deliverables demonstrate that the BES system meets functional and contract requirements. Risk dissist halt testers smay		06/14/2024 Why is this still red? It is very clear that we have full coverage of
											identify unmet contractual requirements during FAT execution that delay the Pilot or result in the need for workarounds that can compromise system usability or user satisfaction. IVV will monitor testing results and trends as the project moves through FAT execution. 5/31/2024-0n 5/9/2024. 43%		all the functionality and that we are going to make it to FAT. This should be in yellow for
63	he lack of technical documentation may	Heath Deaths Finding	4/27/2023 Security and	to deall the Artifold custom annulus des (ren) subsequences sides	Country with the control of the country of the coun	COSTA Patronia who downstall a will be sould under a sel	Delevate the steet of		5 High	Open	(352 out of 818) of the defects identified during SIT were unresolved. Of those, there were 2 critical severity defects and 19 high severity defects. By the end of this reporting period, the percentage of unresolved defects. 7/25/2024 The ASI stood up the production environment on July 8th,		monitoring. 04/10/2024 - All test scripts for
le le	ne lack of technical documentation may ad to incorrect implementation statements delay the System Security Plan	Heath, Dustin Hinding - is Issue	4/21/2023 Security and Privacy	decisions on what tools support the SSP controls are still being decided on. Implementation statements are currently being written from the perspective	Once the system architecture and design have been completed, the SSP authors may need to edl to reverite implementation statements. A full draft of the SSP is scheduled to be published August 15th, 2023, and the final SSP (ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large schnical document with hundreds of controls and control	available for the SSP authors Collaborate and communicate with SSP authors about when reliable and correct documentation will be available Perform a full review of all draft SSP controls for content and accuracy prior to the start of the independent Security Controls Assessment of BES and	the third-party assessment.	•	5 Hgn	Open	allowing the BES Independent Security Assessment penetration testing team to gain access and start the four-week period of testing the BES system. The ASI participated in interviews with the BES Independent Security Assessment assessors. Additional interviews will continue into August. The ASI is		06/14/2024 Feedback already provided by David
				of how the system should be designed from the SSP author's perspective instead of how the system is actually designed. The SSP authors need to know and use documentation such as System Architecture and Design, network topology, dataflow, ports and protocols, tools used for logging, etc.	enhancements, and each one requires an implementation statement of how the control or enhancement has been met.	submission of the SSP package to federal regulators. This will allow the SSP authors to update controls with changes from Design through Implementation. COMPLETE - Determine when the Infrastructure design baseline will be completed. (06/30/2024)					Internally reviewing the Disaster Recovery (DR) plan before delivering it to DHS. However, this DR plan is unavailable for the current security assessment and should be available and tested prior to another assessment, such as the IRS. The completion of the Secure Enclave design now allows significant updates to "Planned" responses to be made to Appendix A, which		Rolla at May pre-meet. "My concern with the Security & Privacy slide is that there is no context provided
											contains IRS security controls in the SSP. The Social Security Administration (SSA) also performed its security assessment in July, and the ASI/DHS Security Team is providing additional information and evidence prior to the SSA report and POAMs (Plans of Action and Milestones) being issued for		regarding the responsibility for the majority of the documents. As we
											remediation. It is too early to determine the impact of remediation activities and if there are any impacts on the BES Pilot schedule. 6/28/2024 — The ASI reported that they continue to author security documentation throughout June 2024. All available documentation, such as policies or procedures ched in the systems occurrly plan (SSP), has been provided to the BES hird-party		have discussed previously, DHS has thus far been unable to produce these documents, but that
											security assessment team. Seventy-nine (79) documents are cited in the SSP by name. Thirty-nine (39) of those documents are either in draft form or do not exist. Of the thirty-nine (39) documents, thirty (30) documents DHS was identified as the owner, and nine (9) the ASI was recognized as the owner.		would not be evident to the reader without additional context." 5/11/2024
											Penetration testing was moved from the LIAT environment to the production environment and the assessment team was ensured that production and LIAT were in parity with each other. One reason to move the environment was to keep the penetration testing from interfering with final acceptance testing. The ASI reports the production environment will be available for DTTS/S/3-T the SIATs are centry provided additional development deays.		Feedback already provided by David Rolla at pre-meet. "My concern with the
in	rvelopment delays have negatively spacted the project schedule and delayed -live.	Fors, Michael Finding - Issue	6/30/2022 Configuration and Development	ASI had previously reported development activities have been slowed as they have been unable to achieve and/or maintain their expected development velocity. Previously, the development team was challenged with accurately estimating development teak level of effort (Le, story points) and the project has been challenged with producing a project schedule that accurately reflects realistic timelines (see Finding 874). The	If the AS is unable to achieve a velocity that enables them to meet planned inelectones, schoule delays may lead to a delayed system go-live date. Failure to achieve a level of accuracy in estimating development tasks could lead to a project schedule that is lawed and unrealistic. Previously, DHS had indicated, and IVV agreed, that some of these delays were due to some ASI BAs Laicing the expertise required to create optimal designs and system	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 • The ASI should provide DHS	Immediate	3	3 Med	Open	07726/3-1- The ASI has recently reported additional development delay is but could put go live milectones at risk. The ASI plant to mitigate their six byt acquiring additional resources to compensate for recent delays. Burndown charts typically provide project stakeholders and executive leadership visibility into the overall productivity of system development efforts. However, DHS has stated the ASI provided burndown charts currently		05/11/2024 As discussed at premeet, the development team has
				Schooling that Accuracy is need to take to immente (see Finding 414). He 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 where ASI BAs/SAs have presented less than optimal designs and left it to DHS (who may lack software or IIII design expertise) to improve which has	each demo. • ASI regularly report estimated story points for the total remaining project work to reach go-live and present a dynamic burndown chart to track the progress. • The ASI should consider enhancing the depth of developer unit tecting. COMPLETE CLOSED • DISS request the ASI.					provide little to no value to project stakeholders. I'V' recommends under to the Sunday provide little to no value to project stakeholders. I'V' recommends DHS request burndown charts for other reports that provide value to the project and give visibility into their overall velocity and whether they will be able to mest Satewide go-they predictions. 06/30/24- The ASI adjusted how they calculate velocity to provide projects.		been primarily focused on fixing BES 1.0 defects. DDI work for BES 1.1 and 1.2 are forthcoming.
					contributed to unproductive design sessions (see Finding #61). It remains unclear if scope creep has contributed to these delays.	effective as staffing additional expert-level development, analysis, and other resources that can lead and mentor junior resources. A Si reviews the development process and identifies and mitigates the challenges preventing them from incorporating Epic demo activities into the project schedule.					The ASI is creating burndown charts to provide greater visibility/clarity into their development productivity and progress. The Project continues to be challenged with high defect rates which pose code quality risks that could delay go-live. 05/31/24 - The ASI adjusted how they calculate velocity to provide greater transparency on the level of progress they're making. The		- ALANIE BY
						(9/29/23- ASI will not be doing this, with DHS approval) ASI consider taking steps to increase code quality, including enhancing the depth of developer unit testing, tracking and proactively preventing leakage, and enforcing effective coding standards and good governance.					ASI is elevating the planned story points per sprint to motivate developers to be more productive even though the planned goal may not be realistic or achievable. While this approach may benefit the development team, it obfuscates their true productivity and whether the team is getting better estimating (a key Aglie methodogo objective). I'v recommends that the		
											ASI work to improve their estimates to provide realistic timelines, avaiding continual re-baselining of schedule and providing stability in dates for DHS tasks. The ASI may wish to consider whether they keep their developer "stretch" story point goals separate from what's reported to the customer, executive stakeholders, and project leadership. IV recommends the ASI		
											enhance their executive reporting by providing a clear perspective on their productivity/velocity and remaining work (e.g. via Burn-down charts).		

West March	Vendor Comments 7/12/2024	Client Comments	Status Update	Status	iority	mnact Prohability Prior	Event Horizon	Recommendation	Senfirance	Observation	Date Category	Reporter Type	Title
interpretation panel, or secure and the second control protection panel, or secure and the second control protection panel, or second panel, o	7/12/2024				gh	3 4 Hah	Immediate	OPEN - Monitor, evaluate and revise scheduling estimates for accuracy	If artimates for project schedule activities are not accurate this can lead to	DUS and the ASI have tried multiple times to rework the schedule with	11/29/2021 Project	Molina Brad Sinding	
and contain processing with a simple service of the simple service	7/12/2024				٥.								
In the simple file continues. It is should be continued to the simple continue								the remaining work ASI conduct a Root Cause Analysis (RCA) with DHS and		estimating practices, and ability to manage to the schedule persist. The use			and resource management. which could
A service response to extract supporting the first service of designation that the service of the service			Traceability, are behind schedule. The ASI is hiring additional resources;					IVV to determine why the BES project continues to experience schedule	low quality output, scope changes, and budget issues.	of multiple tools to track resources obfuscate resource management.			result in late deliverables, cost increases,
Segment of the control of the contro	The update for this							delays ASI Project Management works with the development teams to					and a late go-live.
the control to the production control	finding does not							evaluate the accuracy of development velocity and adjust accordingly to					
For the control of th	reflect current state									addressed and closed.			
Internal Control Contr	of the Primary/DDI		to be a high risk. The ASI completed their schedule reviews with DHS and					charts that provide visibility into the remaining work. NOT COMPLETED - ASI					
skelder general and personal property delination can be required. (Col. 2013) 2013 2013 2013 2013 2013 2013 2013 2013	project schedule(s)												
Septiminary Programment of the control of programment of the contr	6/14/2024												
The planes of the first and the second program and the second progra	An email stating th												
A place of the control place of the place of	concern regarding to												
In the content content of the content content of the content c	deliverable timing s												
Recorded to special to the control to the progress to the prog	sent by PCG at 4:47												
As a plant of the first and the property to be an interest of the property to be an interest of the property to be an interest to the property provided by the property to be an interest to the property provided by the property to be an interest to the property provided by	pm on May 31st. I		that are control DUC (0.0) and are The desired at revised screedile										
Sign. (1997-12) All up the time of a price of the 12 Confirm content content of the 12 Confirm content contents to confirm content contents to confirm content contents to con	responded within ti												
supplies the set of th	hour stating we wil		deliverables (Requirements Traceability Matrix (RTM) System Integrity					Foics (9/29/23 ASI says that they will not do this) Confirm current					
Fig. 1. The process of the process o	look at adjust the												
Section of the control of the contro	dates at the schedu												
All report and several report to the price of the price o	review meeting, wh		IVV shared the DHS resourcing challenge with the ASI on May 31st and the					development tasks estimates if needed. Leverage velocity and burn down					
using Fax Logic Plan Authorized Configuration Annual Plan Authorized Configuration An	we did. I do not th												
complete son, interpretability companies to group and sumal north (12)/12/231 - new AGM Ref and 12/24/2011 Tyrism Despit sold the difficult to implement and sold and supplement and sold and sold and sold and supplement and sold and so	this should be		Review Meeting on June 5, 2024, IVV will continue to monitor the project										
## Replaced ES Infrastructure scorpus For A Mobile Finding F	identified in May's												
## Replaced ES Infrastructure scorpus For A Mobile Finding F	report. Meetings w		that could impact the go-live dates. 4/30/2024 - Several tasks have been					Not Started) Update as necessary and provide the DHS/ASI Project Managers					
The places of Eth inflamentaria consequences with consideration consequences and the consequences of the c	still underway to		delayed in the project schedule - some (i.e., data conversion) more than 20					with reports and data that accurately reflect the DHS/ASI resource needs					
The planned Bits infrastructures complex Fact, Model Fooding Fact, Model Fooding Fact, Model Fooding Fact, Model Factor	adjust the updated		days. Additionally, the HANA/BES integration (Epic 209), scheduled to enter					along with over/under allocations of staff for the duration of the Project					
which could be difficult to impelment with a subject containing the part of surplied by the XI, Flatter, the Prince Part of the SI in the surplied contains the surplied contain	schedule.		SIT on April 15, was in development at the end of the month. IV&V is					(1/31/2023 - new ASI - Not Started) Develop mitigation and contingency					
lead to schedule/cost impacts. Further, the Project Tourn has yet to finalize components that will make up the SE	11/17/2023 -			Open	w	2 2 Low	Vext several	ASI develop a process to closely monitor cloud and other product changes	If the level of effort to implement and manage the complexities of the BES		10/28/2021 System Design	Fors, Michael Finding -	
the BES infrastructure and the extra ordingent cuts and immediate the region graphement could accordance the risk and immediate disconfigure, text, and immediate decomplex environment remain unclass. In additional control indication and maintenance of the various system. As all with time the studied for counting and immediate the studied for the stud	11/17/2023 - Again, why is DR be						ionuis					MSK	
and implement the planned complex environment remain unclair. In least the further delays, Complex parties make the planned complex environment remain unclair. In least the planned complex environment remains an immalar state of personal planned of the planned of th	referenced here? P												lead to schedule/cost impacts.
maintenance and operations full-integrated protest in fairty case, but the located and protest for from the large of the located and protest for the result of the located and protest for the result of the located and protest for the located and protest f	the current project												
increased potential for youther flavor. (i.e., due to the significant number of "Pooling implementation fasts to avoid "rowing part of the manufactor of the row of the production flavor in the manufactor of the row of the production flavor in the manufactor of the manufactor of the manufactor of the manufactor of the significant or management in the regioning general. 37(3): A mention algorithm in th	schedule, the DR pl									and imprement the planned complex environment remain disclear.			
"moving parts") and increase the level of them and effort to recolve indistratives the level of them and effort to recolve indistratives and applications below [and papertannish of the part of them and effort to recolve indistrative them and papertannish in an immalizer state compared to their large, contemparts. For Configuration and application below [and papertannish of the papertannish of the papertannish in an immalizer state compared to their large, contemparts. For Configuration Management is an immalized that compared to the first paper (and papertannish of the papertanni	is scheduled to be												
in far any out and application loved large. Further, some components read in a faunt variety and application loved large. Further, some components from the property application of the infegor countries list indiges. 21/21/23 - the material update in the reporting period. 17/21/24 - the second update. 17/21/	submitted at the er												
remain in an immature statis compared to their largue, counterparts. For example, the project receits gening counterparts. For example, the project receits gening counterparts. For example, the project receits gening and grains faller because dispate and part of the findings. 2017.13 - No material supports of the findings of the fin	of the year. Remind												
Good failed to clearly communitate a change that liet for failure in another component (a), Feed, and Good failed to failure in another component (a), Feed, and Good failed to failure in another in another component (a), Feed, Feed, Good failure in another component (a), Feed, Feed, Communitate and Example (a), Feed, Communitate (a), Feed, Feed, Feed, Communitate (a), Feed, Feed, Communitate (a), Feed, Feed, Feed, Communitate (a), Feed, Feed, Feed, Communitate (a), Feed, Feed	Pilot Go-Live is Apri												
composer (i.e., Nexus), Google Cood in generally vieweds as less mature product offering compared to their was Concord to product offering compared to their was concord to Assert, NEX view manus concorded that this cood less the fall of believe at official Assert, NEX view manus concorded that this cood less to fall one at official to define the cook of the cook o	2024.								example, the project recently experienced a system failure because Google				
composer (i.e., Nexus), Google Cood in generally vieweds as less mature product offering compared to their was Concord to product offering compared to their was concord to Assert, NEX view manus concorded that this cood less the fall of believe at official Assert, NEX view manus concorded that this cood less to fall one at official to define the cook of the cook o			11/30/23 - Some components of the BES system infrastructure have yet to						Cloud failed to clearly communicate a change that led to failure in another				
Arust, NBV remois concerned that this could lead to feature at ortical points in the projection failure project for failure and the project for failure project for failure and project failur	10/31/2023 -								component (i.e., Nexus). Google Cloud is generally viewed as a less mature				
point in the project (Including past go law production failures) that could be difficult on the ASI appears to be making progress on DR johns and decignings. 175(8):737-78-78 (color studies) to decigning the ASI appears to be making progress on DR johns and decignings. 175(8):737-78-78 (color studies) to decigning the ASI has yet to final be the exhibition of the color studies of the	Vic - westill do		will impact project schedules and budgets going forward. The ASI has						product offering, compared to their rivals (Amazon Web Services, Microsoft				
be difficult to residue and lead for priject disouption. If this imminist to enturn the residue and lead for priject disouption. If this imminist to enturn the residue and lead for priject disouption in this imminist to enturn the residue and the residue	notunderstand why												
eventually reface MEO outsourcing costs turning over MEO tasks to State employees, the page could face challenge apporting tools they may not be familiar with in a complie infrastructure environment. In the page of the pa	this remains.												
employee, they could face challenges supporting tools they may not be familiar with in a complex infrastructure environment. Part	10/11/2023								be difficult to resolve and lead to project disruption. If DHS intends to				
familiar with in a complex infrastructure environment. could technology being implemented offers some benefit and can simply some elements of IRL support, it remain unclear for the complex infrastructure and in the complex infrastructure and infrastructure and in the complex infrastructure and in confident the complex infrastructure and incomplex infrastructure and incomplex infrastructure and incomplex infrastructure and inc													
some elements undered the complex infrastructure with DR. Accountment of the complex infrastructure infrastructure infrastructure with DR. Accountment of the complex infrastructure			plans and technical architecture for conducting Disaster Recovery (DR). The						employees, they could face challenges supporting tools they may not be				
Infrastructure (with the multitude of composents being employed) will impact the first ability to test any approximate profession. The ASI has experienced tumover of their Enterprise Architect position, this does not appear to here had a managering the special impact on the overall imp	Please reference								familiar with in a complex infrastructure environment.				
impact the inferent sharing to be san appear on the JAZI/3-The ASI has experienced harmony to describe the formation of the speciment of the s	your updates on												
experience during critical principles of the Policy Assistance and Special Configuration amangements as documented. ASAP 2 1 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 1 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 1 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 1 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76-7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/76-7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7- Non-Internative shall confidence that the SASP 2 Low Open 7/75/76/7-	finding #82 Security and Privacy which		intrastructure (with the multitude of components being employed) will										
appear to hear have retail impact on the overall infristructure build. The Accordance of the configuration management is a set of processes and procedures that The Accordance of the configuration management is a set of processes and procedures that The Accordance of the Configuration Management is a set of processes and procedures that The Accordance of the Configuration Management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that OPEN + All adhere to plan to configuration management is a set of processes and procedures that the configuration management is a set of processes and procedures that the configuration management is a set of processes and processes and processes and procedures that the configuration management is a set of processes and processes and processes and proc	documents the work												
The ASI continues to make progress in the buildow of their infrastructure and incompleted by the infrastruct	being done for the												
70 Insufficient configuration management For Michael Finding 8,72/2/2021 Configuration and The Bill- DDI Plan Deliverable, Section 5.2 establishes the framework for the Configuration Management is a set of processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2 Low Open 7/7/6/2/1-A Processes and procedures that 0 PSN + XSI adherer to plans for configuration managements as documented ASAP 2 2	Secure Enclave.												
70 Insufficient configuration management Fors, Midhoud Finding: 8/72/2011 Configuration and The Bi-6 DOR Has Deliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 1 and Poliverable, Section 5.2 establishes the framework for the Configuration management is a set of processes and procedures that VPR 2 is a set of processes and processes and procedures that VPR 2 is a set of processes and procedures that VPR 2 is a set of processes and	Secure Enclave.												
70 Insufficient configuration management Fors, Midhael Finding 8/23/2012 Configuration and The Bill 60 DIP Ian Deliverable, Social on 5.2 establishes the framework for the Configuration management is a set of processes and procedures that OPEN + ASI adhere to plans for configuration management as documented ASAP 2 1 law Open 7/25/24 - No material update for this reporting period. 6/20/24 - No													
				Open	w	2 2 Low	SAP	OPEN • ASI adhere to plans for configuration management as documented	Configuration Management is a set of processes and procedures that	d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for th	8/23/2021 Configuration and	Fors, Michael Finding -	Insufficient configuration management
			material update for this reporting period. 5/31/24 - NV has yet to receive a			- 100		in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS				Risk	could lead to development confusion and
reduce the effectiveness of defect resolution progress has been made toward establishing CNI processes and governance, includes tools that may provide a level of automation for Configuration management with DHS and agree on a detailed, comprehensive list of configuration terms the ASI validate plans for configuration management with DHS and agree on a	10/31/2023 -										,	1	
selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The Management that may reduce errors and should provide the project team meaningful set of configuration items or settings they will track - DHS and 4/30/24 - NV has yet to receive a detailed, comprehensive list of	Vic - We provided a		4/30/24 - IVV has yet to receive a detailed, comprehensive list of					meaningful set of configuration items or settings they will track. • DHS and	Management that may reduce errors and should provide the project team	selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The			
projects Security Plan has yet to be finalized which may include additional with accurate, dynamic and timely information on some of the configuration as of the potential use of configuration configuration configuration configuration.	listing, working on												
requirements or decisions that could impact CM. The project currently items. However, it is critical that CHS/ASI agree to the full lat of items that	plan to implement.												
relies on Github for tracking of some configurations. are included in the configuration plan along with the details regarding the Configuration Management Activities that would provide oversight of DHS Security Contractor was updating the CMP for related security	MF - Broad categor							Configuration Management Activities that would provide oversight of	are included in the configuration plan along with the details regarding the				
management of the configuration items, reporting and audit features. configuration items, reporting and audit features. configuration management activities and assure defined CM steps and plans controls.) The ASI is resuming this scope of work at a time when its	Vic - we are working							configuration management activities and assure defined CM steps and plans	management of the configuration items, reporting and audit features.				
are being followed, are effective, and are achieving DHS objectives for CM. resources are stretched and may lead to CMP and configuration	on the details now.												
7/31/2022 management quality challenges. 2/29/24 - No material update in this	This will become me							7/31/2022					
reporting period. 1/23/24-No material update in the reporting period.	important and we												
12/31/23 - The project will utilize the DHS contractor currently assisting	work to get ahead												
with security activities to update the Configuration Management Plan	the M&O plan. 10/11/2023												
(CMF). The xeep of works that the Different constraints or responsible for is understoned from the XML Table XML Tab	10/11/2023												
unclear to IVV. 1,1,9,9,1 and 1,5 in Fig.	IV&V requested t												
composite the level of the later of the late	list last month and												
so that are rever to the configuration on the cent in configuration of the cent in configuration the cent in c	waiting on the ASI												
provide data land configuration items for IV Yeekev. The AS has	respond - Please												
deprintinged come companies and the second companies are second companies and the second companies and the second companies are second companies are second companies and the second companies are second companies are second companies and the second companies are secon	see the following lis												
perform preparation for Maintenance and Operation (M. and Cl.). 9/28/23	of configuration												
The ASI pained DHS approval on the items that will be tracked and	management items												
monitored as part of configuration management. We requested the list last	which are/will b		monitored as part of configuration management. IVV requested the list last										
month and is waiting on the AS to respond. 8/31/23- No material update.	managed in		month and is waiting on the ASI to respond. 8/31/23 - No material update.										
7/31/23 - No material update. 6/30/22 - No material update. 6/30/23 - No material update. 5/31/2023 -	ServiceNow:		7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 -										
The ASI continues to make progress with its utilization of the ServiceNow	Incident Response		The ASI continues to make progress with its utilization of the ServiceNow										
Configuration Management (CM) Gool. They have recently performed an	Change/Configuration		Configuration Management (CM) tool. They have recently performed an										
	Management		initial import of Google Cloud Platform server details into the ServiceNow										

Finding	Identified						Analyst	Finding			
ID Title Reporter Type 98 Delays in providing the required deliverables Molina, Brad Concern	Date Category 7/24/2024 Project	Observation	Significance The BES pillot cannot start without FNS's concurrence. Therefore, it's critica	Recommendation	Event Horizon	Impact Prot	oability Priority	Status	Status Update	Client Comments	Vendor Comments
To Energy in proving die required terverantes months, oracl. Concern to FNS could extend the review time needed and delay FNS's concurrence to start the pilot.	Management Management	too, at the documents into trips or legicles to review have been provided, in 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 review to take the full 60 days. The longer DNS delays getting deliverables to FNS, the closer it gets to the planned start for Plot.	the project team deliver the required deliverables to FNS as soon as possible		How	Ü	U NA	Open			
97 Insufficient coordination and management Kalsi, Neetu Concern of time tavel test execution and the time travel environment could lead to rework and schedule delays.	7/23/2024 Testing	IVV is concerned with the time travel text environment which may cause did a jn in the testing schedule. Time Travel is a testing process in which a separate testing environment is more floward to specific future dates to verify eligibility and ensure date drivens research behave correctly. The current configuration has the system date minusuly advanced drive work house for a single date change. FAT testins must wait for their specific date more configuration of the specific date of the configuration of the specific date when the configuration of the specific date in the specific date of the specific date in the specific date on the specific date on the specific date on the specific date when the specific date is specific date.	refreshes has resulted in some testers needing to re-execute test set-up steps. With FAT the final test phase immediately prior to Pilot, test qualty can suffer as testers are under pressure to complete their testing on time. Rework increases testers' workloads and increases the chance that FAT	Explore a solution to implement a more flexible date update process and/or mechanism to mitigate potential test execution delays.	0	0	O NA	Open			
As The Lock of an effective way to validate test. Molina, stud. Finding, requirements, cold dated to project debugs. Right and unfulfilled user meeds if this Stater identifies unmeet contractual requirements.	4/29/004 Programment Analysis Maragement Maragement	The Regularments Tracability Matrix (RTM) (8:21) plays a vital rickin in causing the system's compliance with contactal commissments by associating each requirement with passed test case(s). Sowwer, the approved priese; varied to these that RTM commissed on or \$7.27 pt., with 22 pt. or \$1.00 pt. or	ST completion. Delt may be usable for note an informed decision on SIT ex- orters. This could be observable from 2 counters the register of the orters. This could be observable from 2 counters the register of the standard plan and of registerancies have been fully mot resulting in other.	the BI-13 Complete and First Test Film). Thags the implementation, functional and excitors (requirements to the state case and test scripts.* Emure test scripts the storoughly and comprehensively test the system to assure seath requirement has been fully nex.		3	3 Med		and structure of the Requirements Traceability Matrix (RTM), However, the ASI has not distributed a reformation \$4.1 Sequirements Traceability Matrix deliverable for DrS reviews and approval. In Virenaiss occurred that the ded syn findishing the RTM rely last for conquirements traceing issues, the ded syn findishing the RTM rely last for conquirements concerned that the ded syn findishing the RTM rely last for conquirements concerned that \$4.50 DUZE + VIV is reporting positive movement on the six this rounds. The ASI delivered and rivel 12 STM IND LOSS and cold First feedback to review the RTM's structure to simplify the bacing of requirements, use case, epic. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to make additional reviews and test in a single report. The ASI concerned to the ASI of t		7/12/2024 If m not sure if this is worth noting but worth noting but worth noting but with the requirement of the requirement for entering into BE 1.0 FeV. OS/14/2024 The BE 2.1 RIM deliverable has been reviewed and discussed multiple times at the bit word of the reput to the reput of the reput to the reput of the reput to the reput of the
93 Due to the last of physical and storhood: Reprodult, Fisciling - the limiter sear and data zerold. But with date families, conditions may east sivel date formult, broundings, and disperiences and hard-to-isolate problems or errors.	4/29/2024 Integration and letterface Management	aude from the functional teating accomplished during ego cleating, specific data flow testing is usually part of an interface definition.	This being is exemital fefor initial displayment to prevent invespected and difficultion revolves levels, and a scandided mining data—or the system may have a fault of exception. Since the Project has not established and tested the fault scenarios, we do not know how the system may react.	In Process LA Printerfaces should be tested for failure conditions during connection and transfer operations. LTP and let interfaces bounded be tested for data and file integrings. A Test data fields for system impacts resulting from data that poorly formatting, out of range, or determined the resulting from data that poorly formatting, out of range, or determined the resulting from the property of the property	2024 2nd Op	3	2 Med	Open	GBUJU2024 - Approximately SNs of the planned testing activities for the state faces in the ELE S1 D interface is testing. In (Print) release the been completed, EBS 1D interface testing is espected to conclude by mid-August, CBC (PSZ/2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the test oxygain for the 12 mid-August (PSZ-2024 - The SA) has prepared the testing testing the secretary oxygain for the secretary		Os/14/2024 As mentioned at th May pre-meet, a technical Interface team plan does exis to address PCG's recommendations this finding.5/11/2 As mentioned at th pre-meet, a technic Interface team plan does exist to addre
89 The current approach to completing the development of the remaining eyes is condemed and agreement, which many quality insues, and a higher volume of testing defects.	12/21/2023 Testing	Ten of the Epics scheduled for completion before Release 0.12 ST will not be really. To avoid ST delay, the current approach is to beign ST without the 10 Epics and them so they are complete. Additionally, Release Additional Release Additional Release Additional Release Additional Relational Release Additional Release Additi	Derhapping development and testing introduces potential quality issues: totafficient NR may create paps in SIT, leading to further equility issues. This may increase their not of agricultural delays or introduces defects into the production environment.	OPEN - The ASI validates that development and testing resources have is ufficient bandwidth to complete contrigoing assigned responsibilities is ufficient bandwidth to complete contrigoing assigned responsibilities where the production of the production is to see illegace between the production of the production	Now	4	S High	Open	7/11/2024 - In July, the ASI didayed the delivery of several reporting functions planned to be phased into FAT. Some of these reports are financial provide key poststand interfects that complete and take time to and provide key poststand interfects that complete and take time to the provide provide and the several collection of the control of the provided provided and the several collection of the provided provide		PCG's recommendations this finding. O6/14/2024 Why is this still red This should be in yellow for monitori after discussions in length of the province of th
BB Implementing a Core Solution for go Ne Molina, Bad Finding - carries inherent risks that may impact Rule over all proport success and reduce outer adoption.	11/80/2023 Project Management	stated timeline. This version is generally referred to in Agile software development as a Minimum Viable Product (MVP), which is a simplified version of a product that 1) offers functionality that meets the core needs of	such as potential challenges in securing our beyon. This can execute in limited user adoption, or existentification, and exiginity publicity, purchasily considering the floatical intentiment mode for the delivery purchasily considering the floatical intentiment mode for the delivery and suboptiment publicities. The second is a mystick in conflictive the and suboptiment code. Further, this agreement have apposed the project to regulately complianted, such as last eximised species to their publicities. When the second is a suppliant of the second of t	I monitor, assess, and address potential challenges throughout the development process, burdleng code quality, conflict scope to meet force the control of t	Now	3	3 Med	Öpen	(Group 3). In addition, with DIRS's approval, the ASI shifted a subsect of reports from Group 2 (ET Completed of \$21/2024) to Group 2 (ET Completed of \$21/2024) to Group 2 (ET completed from \$4.000) to Group 2 (ET completed from \$4.000) to Group 2 (ET and contenting of evolutions of \$21/2024) to Group 2 (ET and contenting of evolutions of 2 (ET and contenting of evolutions of 2 (ET and Contenting 2 (ET an		followed the same said course the same said course the said course the said course the said course to the IB-19 needs as a result of the "gradesian Area and by IB-19 needs as a result of the "gradesian. Are area and by IB-19 needs as a result of the "gradesian. Are area and by IB-19 needs as a result of the "gradesian. Area and by IB-19 needs as a made by IB-19 needs as such area and IB-19 needs are said the IB-19 nee
			features can be built into the system. User could become impatient if the features are further developed with the gibts and other feature state procedures. Others may lose confidence that the feature sor system improvements will one be implemented. Gold pre-level has shadown that improvements will one be implemented. Gold pre-level has shadown that improvements will not be implemented. Gold pre-level has shadown that increase in OCIA efforts both by the ASI and DRS staff to temper stakeholders' reactions to a system with limited functionality.	 functionality, requires fewer worksrounds, and increases user artisfaction and boy-in. (06/20/2024) 					usultion and tested in a real-world finde environment en yillard for unexpected issues and bugs. Not remains concrete that user expectations will not be fully met as the goil-the system will be missing functionally take used be imported to increase the COSI flags from the system of the cost of the importance of the COSI flags from the system or source. CPL dark prices will be red sittle effectively managing one; public, and legislative expectations. The ASI loss stated they do not expect this transition to negatively impact the project and have noted come presental improvements. 123/123-2 fleight is some planned activities (e.g., expl. demos, interface designal and of development and continues to the contract of the contract		implement require functionality in multiple releases (Riot/Statewide). 12/15/2 23 - Above already addressed by DH5/ Campos. Fisure recommendations reflect "In Progress".

ID THE	Finding Penorter Turn	Identified	Obrancition	Sanificaca	Saconmandation	Funnt Haritan Im	oact Deshability	Analyst Briority	Finding	Status Hodata	Client Comments	Vander Comments
86 Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the applications, not meeting critical business	Molina, Brad Finding - Issue	8/1/2023 System Design	concerns raised by the DHS testers regarding the usability of the BES system, challenges with the user interface, missing functionality, and basic screen layout issues that would not be expected in a modern application. Based on	provide additional capabilities, greatly enhanced user interface, and overall	sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products. CLOSED - ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that	Now	2 2	Low	Open	7/31/2024 - IVV observed positive progress this month with the ASI providing specific actions to address DRS concerns regarding the Mass Change Functionality (Epic 208). 6/31/2024 - IVV observed DHS and the ASI working collaboratively in a setting that promoted healthy dialogue on the	10/11/2023 Jessica - Our SMEs are providing their feedback. This is one of the items that I clarified with IV&V, that there are feedback given, no feedback means design is oil. I rec'd an emal back from Joe F. that IV&V wants to meet with our reviewer to validate the	06/14/2024
needs for DHS and State clients.			defect reporting from the LMT process, a large majority of the defects we related to "design error". Although the Release 11 LMT of the set setting a partially build system, a significant amount of design defects was attributable to functionality developed for Release 11.	improved usability from current systems. Should the solution fall short of expectations, there may be challenges in DHS staff adoption; lack of confidence in the solution providing the accurate information needed to provide benefits to HI citizens; reduction in ability for DHS to provide the	designs align with DHS expectations. (closed 3/31/2004) - Include a wide nough audience in all design and demone sections to validate PS and DHS functional and technical requirements and system usability. (closed 6/14/2024) - Perform comprehensive (foreign all requirements) review during Epic demos, not just the Items that were added/updated, allowing DHS to provide early refereducks on positive issue/lagap that might not be apparent when focusing on specific functionality. (closed 6/14/2024)					BES design therefore, the criticality rating is updated from a medium to low (5)/8/10/2024 — Host Joan to continuou les Joans to the remaining Epic design work, providing a venue to increase collaboration with DHS. The SSF development will follow the Vaterfall methodology, no no spirits or demos will occur. 04/30/2024 - HV commends the ASI and DHS team for reverting to conducting four live spirit demos in support of Ego 209. These provide to enable timely, efficient collaboration. 03/31/2024 - Use to a high number of outstooms and occerners from OHS during Epic demos in mather of the second and concerns from OHS during Epic demos in mather of the second and concerns from OHS during Epic demos in provided to the control of the demostration of the control of the control of the provided of the control of the control of the demostration of the control of the demostration of the control of the demostration of demostration of demostratio		Why is this in Not Started? We had a live sprint demo for Epic 209. In addition, this should not include Epic demos. We have always had live Epic demos.
										(Approval and Supervision), the ASI committed to hosting another demo to address all the feedback. Changes raised their in the design process could require code changes, potentially causing included will see the residency of the resulting standard or the control of the contro		Regarding SSP following the Waterfall methodology – DHS has approved all the designs, except one. We are collaborating with DHS to obtain their approval on the outstanding design. Design sessions will be scheduled as part of this process. There are 2D people invited to the design invited on the design of the process.
83 Gaps in test coverage and slower-than- expected progress in testing may result in schedule delays if subsequent test phases	Kalsi, Neetu Finding - Issue	6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be lagging. Concerning testing coverage, it appears	and cost-effective to address issues during the early testing stages. If there	OPEN - DHS should request that the ASI develop a Corrective Action Plan to oddress the failure of prior test phases (Unit, INT) to capture defects that rolled into SIT CLOSED - The ASI should determine the root cause of the	LIAT	4 4	High	Open	agreements), that the ASI is not considering at this time. As of the end of 7/31/2024 - DHS Testers have logged 453 defects (excluding duplicates or those determined not to be defects, such as user error) in the first 5 weeks of FAT with the following severities (High = 84, Medium = 201, Low = 168).		7/12/2024
uncover a higher volume of defects and user feedback than initially anticipated.			that not all epics and use cases in R11 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain unexecuted, and not all defects have been resolved as the project	more defects leaking into subsequent testing phases, necessitating more extensive and rigorous testing efforts. Insufficient testing coverage or slower than-anticipated progress throughout the project lifecycle increases the risk of encountering significant delays, extensions, or the introduction of defects	failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT (Closed 4/30/2024) NOT COMPLETED. The Project team reviews the SIT exit rateria and reviews them as a needed to ensure UAT/FAT begins.					Open/unresolved defects total 230 (50%) with the following severities (High = 36, Medium = 112, Low = 82). Seven high-severity defects have been in unresolved status for 5 days or more, with one defect remaining open since 6/28/2024. NV is concerned that the test execution schedule will be		As mentioned previously, eWorldES delivered a simplified
			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 Final Acceptance Testing (PAT).	with the best system possible. (3/31/2024) IN PROGRESS - DHS and ASI monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested					compromised if testers continue to wait for fixes to be delivered before they can complete their planned tests and the risk that testers will discover new downstream defects that must also be fixed prior to Pilot. 5/30/2024. Improvement of System integration Testing (STT) defect resolution totals addressed IVV's concern that the high number of unresolved defects would delay STT exit. The ASI exited the STT phase as scheduled on 6/21/2024 with		RTM to DHS to enter into FAT in order to meet the requirements Go FAT criteria. In terms of the SIRT, this
										91 unresolved defects (43 medium severity and 48 low severity, or 10% of the total) compared to 352 unresolved defects at the end of May and with no unresolved critical and high-priority/severity defects. However, IVV is concerned that the project team entered Final Acceptance Testing (FAT) on		is deliverable is not a criteria for entering into FAT. Please confirm with DHS. 06/14/2024
										6/24/2024 without approved versions of the RTM and System Integrity Review Tool (SIT) deliberables. While the SIRT is not actited not not entering FAT, both the RTM and SRT deliberables demonstrate that the BES system meet functional and contract requirements. Risk usids that testers any identify unmeet contract negativements. Risk usids that testers any identify unmeet contract negativements. Risk usids that testers and identify to meet contract negativements. But one contract negative Risk or result in the need for wentbareautist that a commencial is such		Why is this still red? It is very clear that we have full coverage of all the functionality
										Plicd or result in the need for workarounds that can compromise system usability or user satisfaction. Not will monitor testing results and trends as the project moves through FAT execution. 5/31/2024-0n 5/9/2024, 43% (352 out of 818) of the defects identified during 91 were unresolved of those, there were 2 critical severity defects and 19 high severity defects. By the end of this reporting period, the percentage of unresolved defects.		and that we are going to make it to FAT. This should be in yellow for monitoring. 04/10/2024 - All test scripts for
82 The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan	Heath, Dustin Finding - Issue	4/27/2023 Security and Privacy	decisions on what tools support the SSP controls are still being decided on	Once the system architecture and design have been completed, the SSP authors may need to edit or rewrite implementation statements. A full draft of the SSP is scheduled to be published August 15th, 2023, and the final SSP (ready for federal partner review) is scheduled for September 15, 2023. The	available for the SSP authors Collaborate and communicate with SSP authors about when reliable and correct documentation will be available Perform a full review of all draft SSP controls for content and accuracy prior	Prior to the start of the third-party assessment.	4 5	High	Open	7/25/2024 The ASI stood up the production environment on July 8th, allowing the BES independent Security Assessment penetration testing team to gain access and start the four-week period of testing the BES system. The ASI participated in interviews with the BES independent Security Assessment		06/14/2024 Feedback already provided by David
			Implementation statements are currently being written from the perspective of how the system should be designed from the SSP author's spacetive instead of how the system is actually designed. The SSP authors need to know and use documentation such as System Architecture and Design, network topology, datafilow, ports and protocols, tools used for flogging, etc.	enhancements, and each one requires an implementation statement of how	to the start of the Independent Security Controls Assessment of BES and submission of the SSP package to federal regulators. This will allow the SSP authors to update controls with changes from Design through Implementation. CDMPLETE - Determine when the Infrastructure design baseline will be completed. (60/30/2024)					assessors. Additional interviews will continue into August. The ASI is internally reviewing the Disaster Recovery (DR) plan before delivering it to DHS. However, this DR plan is unavailable for the current security assessment and should be available and tested prior to another assessment, such as the IRS. The commelcion of the Secure Enchay decian now allows for		provided by David Rolla at May pre-meet. "My concern with the Security & Privacy slide is that there is no
										significant updates to "Planned" responses to be made to Appendix A, which contains IRS security controls in the SSP. The Social Security Administration (SSA) also performed its security assessment in July, and the AS/DIVIS Security Team is providing additional information and evidence prior to the SSA report and POAMs (Plans of Action and Milescends) being issued for		context provided regarding the responsibility for the majority of the documents. As we
										remediation. It is too early to determine the impact of remediation activities and if there are any impacts on the BES Pilot schedule. 6/28/2024 – The ASI reported that they continue to author security documentation throughout June 2024. All available documentation, such as policies or procedures cited.		have discussed previously, DHS has thus far been unable to produce these
										in the system security plan (SSP), has been provided to the BES third-party security assessment team. Seventy-nine (79) documents are cited in the SSP by name. Thirty-nine (39) of those documents are either in draft form or do not exist. Of the thirty-nine (39) documents, thirty (30) documents DHS was dentified as the owner, and nine (9) the ASI was recognized as the owner.		documents, but that would not be evident to the reader without additional context." 5/11/2024
										Penetration testing was moved from the UAT environment to the production environment and the assessment team was ensured that production and UAT were in parity with each other. One reason to move the environment was to keep the penetration testing from interfering with final acceptance		Feedback already provided by David Rolla at pre-meet. "My concern with the
80 Development delays have negatively impacted the project schedule and delayed go-live.	Fors, Michael Finding - Issue	6/30/2022 Configuration and Development	ASI had previously reported development activities have been slowed as they have been unable to achieve and/or maintain their expected development velocity. Previously, the development team was challenged with accurately estimating development teak level of effort (Le, story points) and the project has been challenged with producing a project schedule that accurately reflects realistic timelines (see Finding 874). The	If the ASI is unable to achieve a velocity that enables them to meet planned unlestones, schedule delays may lead to a delayed system go-live date. Failure to achieve a level of accuracy in estimating development tasks could lead to a project schedule that is lawed and unrealistic. Previously, DHS had indicated, and IVV agreed, that some of these delays were due to some ASI BAS is clinify the expertise required to create optimal designs and system	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 • The ASI should provide DHS	Immediate	3 3	Med	Open	testing. The ASI reports the production environment will be available for 07/28/34 The ASI has recently reported additional development delay state could put go-live milestones at risk. The ASI plans to mitigate this risk by acquiring additional resources to compensate for recent delays. Burndown charts typically provide project stakeholders and executive leadership visibility into the overall productivity of system development efforts. However, DHS has stated the ASI provided burndown charts currently		05/11/2024 As discussed at premeet, the development team has
			schedule that accurately reflects realists timelines (see Finding 874). The Ad continues to be challenged with finding qualified resources in a timely matter.	specifications that developers could consume which requiring estensive admiration from the SAB SIAS fasts m. We shad for Volserveré instances where AS SAB SIAS fasts m. The second control of the sec	such demo. ASI regularly report estimated storp points for the total remaining project work to earsh go live and present a dynamic burndown that to track the projects. Yes all bould consider demanding the deplin starting collection of the project to an event of the project starting collection of the starting collection of the project team resources to effectively increase velocity. Note that adding additional priori resources may not be as effective as staffing obtained appears development, analysis, and other resources that can lead and member justice resources. ASI reviews the most project project project resources are all the project projects and the project project projects and the project project projects and the project projects pr					However, Jrs has stated the Asi provided autonomy charts currently provided little to no value to project stakeholders. We recommends DHS request burndown charts (or other reports) that provide value to the project and give visibility into their overall evolucity and whether they will be able to mest Statewide go-live mellistones. OG/80/24 - The ASI adjusted how they calculate velocity to provide projects.		been primarily focused on fixing BES 1.0 defects. DOI work for BES 1.1 and 1.2 are forthcoming.
										The ASI is creating burndown charts to provide greater visibility/darrly into their development productivity and progress. The Project continues to be challenged with high defect rates which pose code quality risks that could delay go live. 05/31/24. The ASI adjusted how they calculate velocity to provide greater transparency on the level of progress they're making. The ASI is elevating the planned story points per sprint to motivate developers to		
					(9/29/23 - ASI will not be doing this, with DHS approval) ASI consider taking steps to increase code quality, including enhancing the depth of developer unit testing, tracing and practively preventing leakage, and enforcing effective coding standards and good governance.					be more productive even though the planned goal may not be realistic or achievable. While this approach may benefit the development team, it obfuscates their true productivity and whether the team is getting better at estimating (a key Aelle methodology objective). My recommends that the		
										ASI work to improve their estimates to provide realistic timelines, avoiding continual re-baselining of schedule and providing stability in dates for IMS tasks. The ASI may with to consider whether they keep their developer "stretch" story point goals separate from what's reported to the customer, executive stakeholders, and project ideedrishy. IN recommends the ASI enhance their executive stakeholders, and project ideedrishy. In Veronemends the ASI enhance their executive reporting by providing a clear perspective on their productivity/webotry and remaining over (e.g. vis Burn own charts).		
										productivity/velocity and remaining work (e.g. via Burn-down charts).		

ID	Title	Finding Reporter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Proba	Analyst ibility Priority	Finding Status	Status Update	Client Comments	Vendor Comments
74	A BES Project schedule based on inaccurate	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 Hgh	Open	07/31/2024 - The ASI is actively working on defect resolution and new		
	estimations diminishes effective planning	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					development work. A few key documents/deliverables, including the		
	and resource management, which could			estimating practices, and ability to manage to the schedule persist. The use	rushed activities, and general frustration which can lead to schedule delays,	the remaining work ASI conduct a Root Cause Analysis (RCA) with DHS and					Disaster Recover Plan, Data Conversion results, and Requirements		7/12/2024
	result in late deliverables, cost increases,			of multiple tools to track resources obfuscate resource management.	low quality output, scope changes, and budget issues.	IVV to determine why the BES project continues to experience schedule					Traceability, are behind schedule. The ASI is hiring additional resources;		
	and a late go-live.			Previous IV&V findings focused on specific schedule components such as resource management and critical path analysis, all of which were		delays ASI Project Management works with the development teams to evaluate the accuracy of development velocity and adjust accordingly to					however, it is not known if these resources will have a positive impact on the work remaining as defined in the schedule. 06/31/2024 - The Project's		The update for this finding does not
				resource management and critical path analysis, all of which were addressed and closed		reduce risk in the revised BES project schedule. •ASI provides Burndown					ability to perform according to the approved BES Project Schedule continuer		reflect current status
				addressed and closed.		charts that provide visibility into the remaining work. NOT COMPLETED - ASI					to be a high risk. The ASI completed their schedule reviews with DHS and		of the Primary/DDI
						provide details on how Velocity measures were used to calculate the					IVV, baselining the schedule on 06/19/2024. IVV continues to monitor a		project schedule(s).
						remaining development work. COMPLETE DHS and the ASI agree to a revised					schedule that has seen six (6) delays to the Pilot and Statewide Go Live dates		6/14/2024
						schedule against which project deliverables can be managed. (2/28/2023 -					since the BES 2023 restart in February 2023, with two (2) eight-week delays		
						complete) ASI host a weekly meeting with DHS and IVV to review all changes					introduced in March and May of this year. The original Pilot start was		An email stating the
						to the project schedules (Primary and DDI). (8/31/2023-complete) CLOSED					01/02/2024, with Statewide Go-live on 04/01/2024. Based on the schedule		concern regarding the
						ASI plan and execute Epic development so that Epic demos can occur earlier					published on June 29, 2024, Pilot starts on 09/16/2024, and the Statewide		deliverable timing was sent by PCG at 4:47
						in the release schedule and allow time for possible revisions. (12/31/2023 No done) As requested by DHS, add key milestones to the project schedule.					Go-live is on 02/10/25. 05/30/2024 – The ASI released a revised schedule that may reduce DHS/IVV concerns. The draft schedule was under review at		pm on May 31st. I
						such as Sprint and Epic demos, to show key progress towards completion of					the end of this reporting period. The revised schedule has three key		responded within the
						Epics. (9/29/23 ASI says that they will not do this.) Confirm current					deliverables (Requirements, Traceability Matrix (RTM), System Integrity		hour stating we will
						assumption that a delay with the current go-live date will not result in major					Review Tool (SIRT), and Validated Results of Data Conversion Testing)		look at adjust the
						implications. (6/29/23) Leverage velocity and burn down charts to adjust					scheduled from June 7 - 14, which could be a resourcing challenge for DHS.		dates at the schedule
						development tasks estimates if needed. Leverage velocity and burn down					IVV shared the DHS resourcing challenge with the ASI on May 31st and the		review meeting, which
						charts to adjust development tasks estimates if needed. (4/30/2023 - ASI					ASI responded immediately that they would address it at the next Schedule		we did. I do not think
						using Jira) Using the available tools, review the current estimates to					Review Meeting on June 5, 2024. IVV will continue to monitor the project		this should be
						complete each activity compared to past actual hours (1/31/2023 - new ASI					team's ability to meet this schedule and for any new or re-introduced risks		identified in May's report. Meetings were
						Not Started) Update as necessary and provide the DHS/ASI Project Managers					that could impact the go-live dates. 4/30/2024 - Several tasks have been		report. Meetings were still underway to
						with reports and data that accurately reflect the DHS/ASI resource needs					delayed in the project schedule - some (i.e., data conversion) more than 20		adjust the updated
						along with over/under allocations of staff for the duration of the Project (1/31/2023 - new ASI - Not Started) Develop mitigation and contingency					days. Additionally, the HANA/BES integration (Epic 209), scheduled to enter SIT on April 15, was in development at the end of the month. IV&V is		adjust the updated schedule.
73	The planned BES infrastructure is complex	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	(1/31/2023 - new ASI - Not Started) Develop mitigation and contingency ASI develop a process to closely monitor cloud and other product changes	Next several	2	2 Low	Open	SIT on April 15, was in development at the end of the month. IV&V is 7/26/24 - No material update for this reporting period. 6/20/24 - No		
//	which could be difficult to implement and	Risk	,, Jacin beagn	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 once		-	- 104	- part	material update for this reporting period. 5/31/24 - It remains unclear how		11/17/2023 -
	lead to schedule/cost impacts.			Further, the Project Team has yet to finalize components that will make up	project could be met with unexpected costs and schedule delays. Delays in	updates are applied. • The project team work to establish strong governance					infrastructure complexity will impact DR testing and execution. 4/30/24 -		Again, why is DR being
				the BES infrastructure and the additional costs and time to configure, test,	finalizing the components being implemented could exacerbate this risks	over the utilization and maintenance of the various system					No material update in this reporting period. 3/31/24 - During a recent		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					Change Control Board (CCB) meeting the ASI presented DHS with a for-cost		the current project
					maintenance and operations challenges as system changes can hold the	concepts to assure infrastructure components work as expected. • ASI					change request (CR) to the design of the Secure Enclave (the addition of		schedule, the DR plan
					increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOps implementation tasks to avoid					roles). In the CCB, it was clear that DHS and the ASI were not in agreement		is scheduled to be
					"moving parts") and increase the level of time and effort to resolve infrastructure and application-level bugs. Further, some components	unexpected delays that could delay project milestones and the critical path.					regarding the funding of this change request. 2/29/24 - No material update in the reporting period. 1/23/24 - No material update in the reporting		submitted at the end of the year. Reminder:
					remain in an immature state compared to their legacy counterparts. For						period. IVV continues to monitor this finding. 12/31/23 - No material		Pilot Go-Live is April
					example, the project recently experienced a system failure because Google						update in the reporting period. IVV continues to monitor this finding.		2024
					Cloud failed to clearly communicate a change that led to failure in another						11/30/23 - Some components of the BES system infrastructure have yet to		
					component (i.e., Nexus). Google Cloud is generally viewed as a less mature						be finalized and tested, it remains unclear how or if the added complexity		10/31/2023 -
					product offering, compared to their rivals (Amazon Web Services, Microsoft						will impact project schedules and budgets going forward. The ASI has		Vic - westill do
					Azure). IV&V remains concerned that this could lead to failures at critical						reported they are close to finalizing the Secure Enclave infrastructure to		notunderstand why
					points in the project (including post-go live production failures) that could						house FTI data. The ASI appears to be making progress on DR plans and		this remains.
					difficult to resolve and lead to project disruption. If DHS intends to						designs. 10/30/23 - The ASI continues to have productive discussions with		10/11/2023
					eventually reduce M&O outsourcing costs turning over M&O tasks to State						DHS during their weekly Architecture calls. The ASI has yet to finalize their		
					employees, they could face challenges supporting tools they may not be familiar with in a complex infrastructure environment.						plans and technical architecture for conducting Disaster Recovery (DR). The cloud technology being implemented offers some benefit and can simplify		Please reference
					initial war in a compact initiate detail direction.						some elements of DR. However, it remains unclear if the complex		your undates on
											infrastructure (with the multitude of components being employed) will		finding #82 Security
											impact their ability to test and perform DR. 9/28/23 - The ASI has		and Privacy which
											experienced turnover of their Enterprise Architect position; this does not		documents the work
											appear to have had a material impact on the overall infrastructure build.		being done for the
											The ASI continues to make progress in the build-out of their infrastructure		Secure Enclave.
											and is confident that the automation they've implemented will simplify		
	Insufficient configuration management	Fors, Michael Finding	0/22/2021 Carliana	The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Carlianania Managaratica antafananana and an	OPEN • ASI adhere to plans for configuration management as documented	AFAD	2	2 Low	Open	many maintenance tasks Given that, they remain confident they will be able 7/26/24 - No material update for this reporting period. 6/20/24 - No		
	Insufficient configuration management could lead to development confusion and	Fors, Michael Finding -	8/23/2021 Configuration and Development			OPEN • ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS		4	2 LOW	Upen	7/26/24 - No material update for this reporting period. 6/20/24 - No material update for this reporting period. 5/31/24 - NV has yet to receive a		
	reduce the effectiveness of defect resolution	Non	Development		includes tools that may provide a level of automation for Configuration						detailed, comprehensive list of configuration items the ASI will be tracking.		10/31/2023 -
					 includes tools that may provide a level of automation for Configuration Management that may reduce errors and should provide the project team with accurate, dynamic and timely information on some of the configuration 						4/30/24 - IVV has vet to receive a detailed, comprehensive list of		Vic - We provided a
											configuration items the ASI will be tracking. 3/31/24 - Responsibility for the		listing, working on a
				requirements or decisions that could impact CM. The project currently	items. However, it is critical that DHS/ASI agree to the full list of items that	management tools. COMPLETED • Identify the DHS POC for the					Configuration Management Plan (CMP) reverted to the ASI (previously, the		plan to implement.
				relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the	Configuration Management Activities that would provide oversight of					DHS Security Contractor was updating the CMP for related security		MF - Broad categories
					management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plans					controls). The ASI is resuming this scope of work at a time when its		Vic - we are working
						are being followed, are effective, and are achieving DHS objectives for CM.					resources are stretched and may lead to CMP and configuration		on the details now.
						7/31/2022					management quality challenges. 2/29/24 - No material update in this		This will become more
											reporting period. 1/23/24 - No material update in the reporting period. 12/31/23 - The project will utilize the DHS contractor currently assisting		important and we work to get ahead of
											with security activities to update the Configuration Management Plan		work to get anead or the M&O plan.
											(CMP). The scope of work that the DHS contractor is responsible for is		10/11/2023
											unclear to IVV. 11/30/23 - The ASI has yet to provide a detailed list of		
											configuration items to DHS and IVV. IVV has restated this request to the ASI		IV&V requested the
											so that the level of detail is clear. 10/26/23 - The ASI provided broad		list last month and is
											information on the configuration items being tracked but have yet to		waiting on the ASI to
											provide detailed configuration items for IVV review. The ASI has		respond - Please
											deprioritized some configuration management activities, which it intends to		see the following list
											perform in preparation for Maintenance and Operation (M and O). 9/28/23 - The ASI gained DHS' approval on the items that will be tracked and		of configuration management items
											monitored as part of configuration management. IVV requested the list last month and is waiting on the ASI to respond. 8/31/23 - No material update.		which are/will be managed in
											month and is waiting on the ASI to respond. 8/31/23 - No material update. 7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 - The ASI continues to make progress with its utilization of the ServiceNow		managed in ServiceNow: Incident Response
											month and is waiting on the ASI to respond. 8/31/23 - No material update. 7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 -		managed in ServiceNow: