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October 18, 2022

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-First State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-First 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

Demandock and 18, 2022 13:50

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: September 1 – 30, 2022

Submitted: October 14, 2022



Solutions that Matter

Overview

- Executive Summary
- IV&V Findings and Recommendations
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Solutions that Matter

Executive Summary



Executive Summary



In September, DHS took the significant step of issuing an "Order to Stop Performance" to the ASI. This order had the immediate effect of halting all Design, Development, and Implementation (DDI) activities on the BES project. This action by DHS comes after the ASI provided an inadequate Corrective Action Plan and failed to deliver a BES Project Schedule.

The sixty (60) day order is in effect until November 10, 2022 and is intended to allow time for the transition of the BES DDI activities to the ASI Subcontractor. The objective of DHS, the ASI, and the ASI Subcontractor is an orderly transition that will lead to a successful BES Project completion.

This transition faces major challenges that must be closely managed. IV&V has listed three key considerations below.

- 1. Inventory of project assets and completion status DHS, the ASI, and the ASI Subcontractor are performing a detailed assessment to identify DDI work that has been completed, is in progress, and has not yet started. Having a clear understanding of this inventory that is shared across the three organizations is key to a successful transition.
- 2. Knowledge Transfer (KT) from ASI resources to Subcontractor resources In addition to documents and artifacts, the KT from resource to resource is valuable in retaining important details regarding work in progress. IV&V is concerned about reports that ASI resources are leaving the BES project with little notice, possibly impacting the KT effectiveness. The ASI should provide a staff succession plan that incorporates KT activities to the Subcontractor resources.
- 3. Subcontractor staffing requirements The ASI Subcontractor faces a significant increase in their BES Project responsibilities and must take on critical project roles. The importance of experienced project management resources has been an ongoing theme of IV&V, along with the need for highly experienced Business Analysts and Security Leads. IV&V will monitor this staffing situation closely.

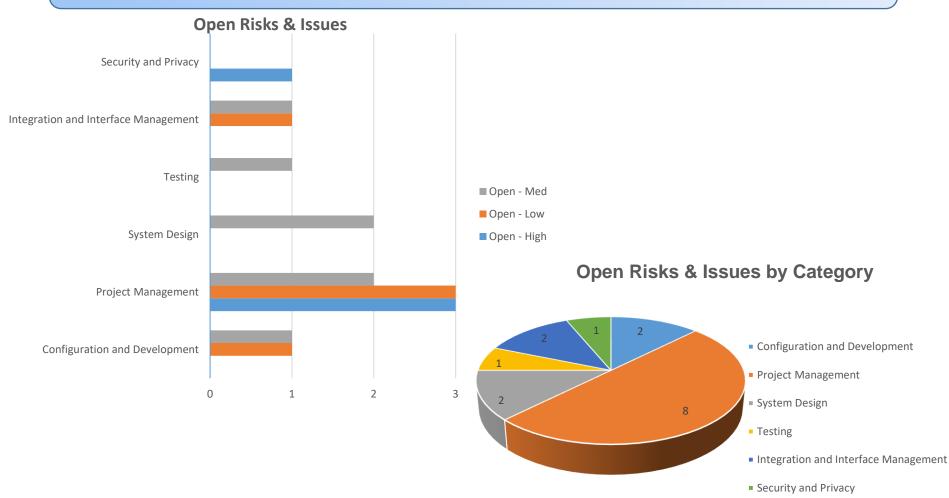
Jul	Aug	Sep	Category	IV&V Observations
н	Н	Ŧ	Project Management	Project management and the ability of the ASI to deliver the BES solution has been a prevalent concern throughout the project. As DHS pursues a new direction for the BES DDI, the importance of highly skilled and experienced project management cannot be overemphasized. Transition planning and execution require active project management.

Executive Summary

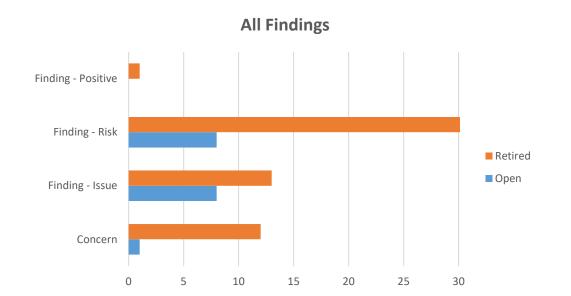


Jul	Aug	Sep	Category	IV&V Observations
м	м	Z	System Design	DHS Users are concerned the overall User Experience may not meet DHS expectations and may result in low customer satisfaction. The BES user interface design process is focused on individual and small groups of related screens. However, without an overall plan and understanding of how all functionality works together, DHS users are seeing examples where 1) its may be difficult to achieve a task, 2) it may take too long to achieve certain tasks, and 3) there may be low user satisfaction.
M	M	X	Configuration and Development	Prior to the work stoppage, ASI resourcing continued to be a risk to ongoing development of the BES solution. IV&V is concerned that resourcing will continue to affect development unless reasonable planning and scheduling occur.
M	M	M	Integration and Interface Management	Memoranda of Agreements remain outstanding for the DAGS, DLIR, and HYCF interfaces. IV&V remains concerned that the lack of an approved project schedule impacts the planning and coordination with interface partners.
М	M	M	Testing	DHS remains concerned with the opportunity to thoroughly test the system. In recent draft schedules, test phases for either System Testing or Final Acceptance Testing have either been reduced, removed or combined resulting in less opportunity for testing.
н	Н	E	Security and Privacy	IV&V is concerned with the pace of Security and Privacy activities. The BES project must have a clear plan to define, implement, test, and validate all Security and Privacy Requirements/Controls prior to entering the Pilot phase. The focus to date has been on "Planned" responses for security and privacy controls.

As of the September 2022 reporting period, PCG is tracking 16 open findings (8 risks, 8 issues) and has retired a total of 59 findings. Of the 16 open findings, 8 are related to Project Management, 2 in Integration and Interface Management, 1 in Testing, 2 in System Design, 2 in Configuration and Development, and 1 in Security and Privacy.



The following figure provides a breakdown of <u>all</u> 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
	Lack of the required ASI staff may reduce project productivity and quality of the BES design that may lead to schedule delays.	
81	Observation: DHS stakeholders and IV&V have observed that working session productivity has been hindered by the lack of sufficient knowledge, capabilities, and expertise of some ASI team members. IV&V acknowledges that some ASI staff are skilled and knowledgeable. However, lack of skilled and experienced staff in all design sessions will likely have negative downstream impacts. Additionally, the ASI recently announced the departure of some of their most capable and experienced resources. No material update in the reporting period.	Project Management

Findings Opened During the Reporting Period

#	Finding	Category
	None	

#	Key Findings	Criticality Rating
2	Issue – Late Delivery of project deliverables has caused schedule delays. The DHS work stoppage halted all efforts on project deliverables. IV&V will continue to monitor this finding once the BES Project resumes.	M

Recommendations		
 Despite not yet having a revised baseline schedule, continue monitoring and analyzing deliverables that may impact the critical path. 	In process	



#	Key Findings	Criticality Rating
29	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions. No material update for this reporting period.	L

Recommendations	Progress
 The Project should continue to vet possible architectural change impacts to the platform (e.g., ADA, Configuration Management tools), M&O, MQD, and BES systems before finalizing architectural decisions. 	In process
 DHS continue to request ASI perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders to assure a common understanding of the implications of these decisions. 	In process
The Project should continue to ensure communication between development leads and architecture leads to assure optimal collaboration on possible architecture changes that could impact decisions in each area.	In process
 Maintain current communication processes to ensure regular communication between the architecture team and the rest of the project team to assess impacts of architecture decisions to the Project. 	In process



#	Key Findings	Criticality Rating
43	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project. No material update for this reporting period.	Н

R	ecommendations	Progress
•	DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	In process
•	DHS consider other options (Contractors, State employees borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent hires.	In process





#	Key Findings	Criticality Rating
47	Risk – The COVID-19 pandemic and the related "stay at home" order could hinder project activities and negatively impact the project schedule and budget. IV&V remains concerned that the lack of in-person interactions may lead to reduced project team productivity.	L

Recommendations	
 Suggest the Project and DHS create a detailed, documented risk mitigation strategy and plane regularly and revised to address the current state of the COVID-19 threat and related impact 12 months. The plan should include the possible economic impacts to the state budget direct project resources. 	ts over the next 6 to
 Send broad communications to stakeholders to assure clear understanding of changes to the regard to impacts of COVID as well as clarifying communications as to what will remain the statement of the	
 Project leadership continue to encourage independent phone conversations to enhance and communications, and for team members not wait for meetings to converse. 	l accelerate In process
Consider in-person meetings for critical design sessions if DHS and ASI COVID protocols al	low. Not Started

#	Key Findings	Criticality Rating
49	Issue – Poor quality project deliverables may impact system design, testing artifacts and the project schedule. No work has been performed regarding this finding due to work stoppage.	L

R	ecommendations	Progress
•	ASI review the Quality Management Plan to ensure that the Project is working within the Quality guidelines. In particular, the ASI should evaluate and consider if it is in alignment with Section 3.1.2 Measure Project Quality, which states "ASI measures process and product quality by 1) selecting BES implementation process and product attributes to measure; 2) selecting component activities to measure; 3) defining value scales for each component activity; 4) recording observed activity values; and 5) combining the recorded attribute values into a single number called a process quality index." IV&V has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality.	In Process
•	When the project restarts, resources be allocated to create a Quality Management Plan to help address this finding.	Not Started



#	Key Findings	Criticality Rating
71	Issue – The lack of the final agreement on the scope and costs of the GCP Change Request (CR) may lead to unanticipated DHS costs, schedule delays, and/or the need to reduce scope. The DHS transition of the BES Project DDI activities will impact the CGP change request. IV&V will update our recommendations for this finding once more is known.	Н

R	Recommendations	
•	The ASI should document the current environment M&O activities to ensure all activities are known with a clear understanding of the "AS IS" and "TO BE" model for services beginning with the DDI, through Pilot/Implementation and M&O.	In process
•	The ASI clearly document the scope of work and cost for the GCP CR during DDI and M&O and provide to DHS for approval.	In process

#	Key Findings	Criticality Rating
74	Risk – The lack of a BES Project schedule based on accurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live. The ASI did not deliver a revised BES Project Schedule prior to DHS issuing the work stoppage on September 9, 2022. Regardless of the BES move-forward strategy, obtaining estimates provided by staff performing the work is critical to developing a realistic project schedule.	Н

Recommendations	Progress
 Using the available tools, review the current estimates to complete each activity compared to past actual hours. 	In process
 Update as necessary and provide the DHS/ASI project managers with reports and data that accurately reflect the DHS/ASI resource needs along with over/under allocations of staff for the duration of the Project. 	In process
 Develop mitigation and contingency plans that are tracked/managed by DHS/ASI for all tasks that are behind schedule or are at risk of being behind schedule which includes resource management. 	In process
 Discuss, validate and address additional concerns within the project processes that may cause the project delays other than inaccurate estimates such as over reliance on POs, slow design sprints, and cadence of development teams. 	In process
DHS and the ASI agree to a revised schedule against which project deliverables can be managed.	In process

#	Key Findings	Criticality Rating
76	Risk – Volunteer DHS resources leaving the Project may lead to schedule delays, lower morale, and burnout. With the BES Project work stoppage, some of the DHS resources assigned to the project are helping with transition work. The work stoppage is a significant event for the project team and the impact to overall morale (positive or negative) is uncertain.	м

Recommendations	Progress
Allocate more time for the DHS team members to dedicate time to the Project.	In process
 Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly. 	In process
Add cushion time to the schedule for unexpected project delays.	In process
 Provide incentives for the DHS resources to help maintain the project team and possibly alleviate attrition or increase the number of volunteers to the team. 	In process
 DHS keep all assigned Project resources informed of the transition progress and the timeline for when they will be asked to participate again, so resources can maintain their engagement with the Project. 	Not Started



Integration and Interface Management

#	Key Findings	Criticality Rating
63	Risk – The lack of early planning and coordination with interface partners may result in schedule delays. No material update in the reporting period.	L

Recommendations	
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process



Integration and Interface Management

#	Key Findings	Criticality Rating
79	Issue – External vendor delays in the development of the BES task management system (Current) interface have impacted the project schedule.	M
	No material update in the reporting period.	

Recommendations	Progress
Ensure that there is an agreement between DHS and C!A to address roles/responsibilities and outcomes.	In process
The ASI provide test results from the task management integration to ensure that the interface works.	Not Started



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	-
70	The ASI announced the departure of key resources including their lead CM strategist, which could exacerbate this risk. With the recent work stoppage and planned reassignment, IV&V is not aware of any plans to mitigate this risk.	L

F	Recommendations	Progress
•	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
•	Project 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.	Not Started



Configuration and Development

#	Key Findings	Criticality Rating
80	Risk – Development delays could negatively impact the project schedule and delay go-live. The ASI has announced the departure of key resources who have provided leadership and design quality assurance to the project, which could further hinder development productivity. With the recent work stoppage, it remains unclear if factors that created development delays will be fully addressed to mitigate this risk.	M

Recommendations	Progress
Complete and execute remediation plan based on the result of a Root Cause Analysis (RCA).	In process
ASI consider moving/adding/replacing project team resources strategically to effectively increase velocity.	In process
 ASI track and regularly provide DHS 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



System Design

#	Key Findings	Criticality Rating
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and DHS product owners and SMEs have raised concerns about a lack of a cohesive design and a experience that is less than satisfying. DHS users are citing examples of not being able to achie tasks or achieve tasks timely.	user

Recommendations	Progress
The facilitator should use their expertise to drive discussions through leading questions.	In process
 BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on JAD/JAR notes and other pertinent material. 	In process
 The ASI to bring User Experience (UE) designers to engage with DHS and review the currently built BES solution. 	Not Started



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. The ASI announced the departure of key infrastructure resources who have provided leadership to the infrastructure efforts, which could exacerbate this risk. With the recent work stoppage, it is uncertain how this risk will be mitigated going forward.	M
Rec	commendations	Progress
• A	SI clearly communicate the potential costs and schedule impacts to implementing the planned infrastructure.	In process
	DHS work with the ASI to assess the potential challenges of maintaining a complex environment and consider caled back options that could reduce this risk and reduce long-term support costs.	In process
	ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), nanage 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 components to simplify their use and monitoring.	Not Started
	SI development team identify infrastructure components and techniques that are new to them and take action assure potential integration problems do not lead to unexpected delays.	Not Started



Testing

#	Key Findings	Criticality Rating
67	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework. DHS issued a work stoppage, and no progress was made to move forward with purchasing the ASI recommended ADA compliance tool.	M

Recommendations	
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
 The ASI communicates how the tool will be used to report compliance and non-compliance and how non- compliance will be addressed/corrected 	In process
 The ASI communicates how and when DHS/IV&V will be provided the reports from the ADA tool execution and how to interpret the results. 	In process



Security and Privacy

#	Key Findings	Criticality Rating
68	Risk - Insufficient planning/execution of the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase. Since only one meeting was held between the ASI and DHS BES Security teams prior to the work stoppage, IV&V has no material updates to report this month. The planned reassignment of the BES DDI work should consider the expertise needed for the vendor Security Lead and team.	Н

Recommendations	
The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
 DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix, and plans of actions and milestones (POAM). 	In process
ASI add a Security Architect to the Project ASAP to assist with the Security Plan activities.	In process
 ASI ensure that the ASI Security Lead has a depth of experience in NIST 800-53 and experience authoring implementation statements of System Security Plans (SSP). 	Not Started

IV&V Status



IV&V Engagement Status

IV&V Engagement Area	Jul	Aug	Sep	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final August IV&V Monthly Status Report.
IV&V Staffing				Earl Burba has retired from PCG and is no longer supporting the BES IV&V team.
IV&V Scope				

	Engagement Status Legend	
The engagement area is within acceptable parameters.	The engagement area is somewhat outside acceptable parameters.	The engagement area poses a significant risk to the IV&V project quality and requires immediate attention.

IV&V Activities



- IV&V activities in the September reporting period:
 - Completed August Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Reviewed available ASI Original Contract and BES Optimization contract amendment documentation
 - Ongoing Participate is DHS and IV&V Transition Planning meetings
- Planned IV&V activities for the October reporting period:
 - Ongoing Participate is DHS and IV&V Transition Planning meetings
 - Ongoing Monthly IV&V Draft Report Review with DHS, ETS and ASI
 - Ongoing Participate in weekly DHS and IV&V Touch Base meetings
 - Ongoing Review BES artifacts and deliverables

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-14 Release 0.7 Technical Design Document - FMM - Overpayments – DRAFT	9/14/2022	V0.2
BI-22 Release 0.9a System Test Report (Iteration 1)	9/2/2022	V1.0

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
Unisys Contract Amendment 4	5/1/2021	N/A
FNS Handbook 901	01/2020	V2.4
BES Project Schedule (BI-5)	8/05/2022	_08052022
BES Weekly Status Report	9/07/2022	N/A
BES Risks and Issues Log	N/A	N/A
BES Interface Communication Plans and Interface Control Documents	N/A	N/A
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
One RTM (Aha)	N/A	V1
Conditionally Approved Deliverable Status (Confluence)	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. Weekly Platform Status Meeting 9/6/2022, 9/27/2022
- 2. Bi-Weekly BES PMO and IV&V Touch Base 9/1/2022, 9/15/2022
- 3. Weekly BES Dev Stand-up 9/7/2022
- 4. Weekly CMM Backlog Grooming Session 9/7/2022
- 5. Weekly BES Project Schedule Review Meeting-
- IV&V Team Meeting 9/1/2022, 9/6/2022, 9/8/2022, 9/12/2022, 9/15/2022, 9/19/2022, 9/22/2022, 9/26/2022, 9/29/2022
- 7. Weekly DHS-Unisys Security Touchpoint 9/6/2022
- 8. BES Security Controls Meeting 9/1/2022
- 9. BES Testing Touch base 9/7/2022
- 10. HI DHS BES August Draft IV&V Report Review 9/6/2022
- 11. Bi-Weekly DHS and IV&V Touch Base 9/6/2022, 9/20/2022
- 12. Executive Steering Committee Meeting 9/15/2022
- 13. Implementation Planning 9/7/2022
- 14. BES-HANA integration (CO60 manage HANA data) 9/6/2022, 9/8/2022
- 15. R0.15 Report Specs 9/8/2022
- 16. R0.14 Correspondence Specs 9/1/2022, 9/9/2022
- 17. CO11 Restore Program 9/1/2022, 9/6/2022, 9/9/2022
- 18. CF52a Manage Documents 9/9/2022
- 19. FM23a Manage Write-Offs 9/1/2022, 9/6/2022, 9/8/2022
- 20. FM51b Receive FNS Data 9/8/2022

Additional Inputs – Continued



Meetings and/or Sessions Attended/Observed:

21. FM30 View Overpayment List – 9/1/2022, 9/6/2022

- 22. PE11a Review Additional Budget Details 9/1/2022, 9/6/2022, 9/8/2022
- 23. IF25 CYRCA ICD 9/6/2022, 9/8/2022
- 24. Weekly Functional PMO Meeting 9/6/2022
- 25. Data Conversion PMO meeting 9/12/2022
- 26. Weekly Interfaces PMO Meeting 9/6/2022
- 27. PMO Meeting Structure Testing 9/1/2022, 9/8/2022
- 28. PMO Meeting Structure BES Development 9/1/2022, 9/8/2022
- 29. PMO Meeting Structure AH/MDM/SSP Development 9/6/2022
- 30. Prep and planning the path forward 9/13/2022, 9/14/2022
- 31. IV&V/DHS 1:1 9/22/2022
- 32. DHS/IV&V Check-in 9/21/2022, 9/27/2022, 9/29/2022
- 33. BES IV&V Finding Review 9/26/2022
- 34. BES discussion with DHS PM 9/28/2022
- 35. BES update with DHS CTO 9/28/2022
- 36. BES September Roast 9/29/2022

Appendices





Appendix A – IV&V Criticality Ratings

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

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



Acronym	Definition
APD	Advance Planning Document
ASI	Application System Integrator
BES	Benefits Eligibility Solution
CCWIS	Comprehensive Child Welfare Information System
CM	Configuration Management
СММІ	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

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

Ending Slide



Solutions that Matter

ID Finding Identified Title Reporter Type Date Category	Observation	Significance	Recommendation	ent Horizon Impact Probabili	Analyst F ity Priority S	Finding Status	Status Update	Client Comments Vendor	r Comments
EL Lack of the skilled At resources may reduce Michael Fors Concern 9/f/2022 Project project productive and gualing of the Bit Source Sources Management design and lead to schedule delays.	has been hedrered by some AS team members who may bed sufficient bothman development and maysins generation, knowledge, expensions, stull levels, and/or capabilities to source software quality and orwall productivity applicities appare to be working at capacity and often apper overwhelmer with mattaining quality and compensating for less appertenced or less liable datas members, further, the AS recently amount of the departure of important guidence and leadership to their team.	producting, and high-functioning team. If the ALI is not able to marrian the line of team, project tanks and dim register this could increase. The ALI increases the second sec	Iedenhaph that could potentially accelerate the project and reduce the border on RHS 3054. Cold work coldway that AB in their staffing efforts and gaickly, but theroughly, end additions to the AS project sum - * Rejust decisions are project work and you have a staffing of the decisions are project which by industry organits to ensure the best options are being presented to DHS 5MEs.	AP 3	3 NA (10/4/22 - No material update in the reporting period.		
80 Development debys could negatively impact mfors Pinding - Ris (v)20/2022 Configuration and the project schedule and delay go-live. Development	unable to achieve and/or maintain their expected development velocity. The ASI is working to produce a root cause analysis and remediation plan to address these delays, however, both have been delayed. Previously, the	If the ASIs unable to achieve a value(orty that enables them to meet planned instances, schoole days may lead to adapted yostma golv days. Failure to achieve a level of accuracy in estimating development tasks code and the school activity of the school activity of the school activity of the activity of the school activity of the school activity of the lacking the experime required to create system designs and specifications and values, school activity of the test school activity of the school activit	Root Clause Analysis (RCL) - AS Consider moving/adding/replacing project team resources strategical to effectively increase velocity, how the that adding additional junior resources may not be as effective as staffing additional experime development, analysis, and other resources. • Request the AS effectively track and regularly provide (PSIS [potentially va weekly) (OSI stansemelly with an accurate velocity (e.g. roug points per day/week/month) and assure that the current velocity is accurately and consistently reflection in the project staffic develop.	ned ate 3	3 Med (09/29/22 — The AXT has amounced the departure of lary provinces that hyper- provides loadwhap and design quality assumes to the project, which could further finder development productively. With the recent work trappage, to define the development productively. With the recent work trappage, the defined on higher test. Click 20/20 — The AC continues to obtain additional development resources, stating they added 2 a non-bare and 2 defi- test and the trans. Though any assist schedule has well to be there developers to the ratio. The OA any analysis of the transmission of the additional development resources, stating they added 2 a non-bare and 2 defi- additional development resources, stating they added 2 a non-bare and 2 defi- additional development resources, stating they added 2 a non-bare and 2 defi- available the schular funders of the schular and the schular development and they are consistent to the schular development (27/27/22 - The AXI has a severe shorting of development resources and its hallings. The AXI plants to update the schular last constrained adveloper and its owner bare schular to the schular last schular in the schular development to the schular last schular last schular last schular field resources the schular last schular last schular last schular development schular last schular last schular last schular field resources the schular last schular last schular last schular development schular last schular last schular last schular development schular last schular last schular last schular development schular last schular last schular last schular last schular development schular last schular last schular last schular development schular last schular l		
79 External vendor delloy in development of Al Pangelinan Finding-Ista 6/3/2022 Vetrgardion and the B15 site sumparent system (Circured) interface have impacted the project Management schedule.	webhook) to be completed by 04/07/2022. CIA reported that the webhook development work would be done by 05/27/2022. As of 05/25/2022, the ASI has not received any status from CIA. The webhook is currently holding	Current (previously howns as deflated) is a task management system developed by the Charge and Innovation Approx (CIA). The Department of Homan Services (DRIS) uses the Current system to manage and creater case that tasks. The Benefit Eligibility Subtract (EIS) will interface with the Current system to manage tasks. The BIS system will create tasks and will and ment to Current. System is that the Single method and the task and the Single Single Single Single Applications and the manage task to main single Carter system. The webbook is being manage task to main single Carter system. The webbook is being manage task to make the sequences to meet the design of the CART. Tasks and Carter Single Carter System is the second single Carter System.	Schedure recurring meetings with CA to ensure consistent communication between DHS, the ASI, NV, and CI.A. Completed. 3. The ASI provide test results from the task management integration to ensure that the interface works.	i 5	1 Med 0		09/13/02.2 - No material update in the reporting period. 09/13/02.2 - With Stackcied net timetral update in the reporting period. 09/03/022.2 - With Stackcied net to establish an agreement with CL (Me task management yeardor) beazures of the stackcied net time of the Stackcied net addition, DFS and the ASI have established bisweshy meetings with the task management wendor. 60/03/022 - The stack management system wendor periodiad datalia regarding the weldwesh at a moreant meeting with DFS abounds for installed Stackweshan meeting with DFS abounds for installed Stackweshan meeting with DFS abounds for installed Stackweshan meeting with DFS the needed information, Wit in reducing the criticality rating to 'Medium'. 09/02/022 - time created.		
74 Volketer CMS recources leaving the Project Brad Molina Finding - Ris 3/1/2022 Project may lead to behave Management Management Management marale, and burnout. Proding - Ris 11/29/2021 Project 74 The lack of a BIS Project schedule based on Ryan Tam accurate estimations dimensions effective accurate estimations dimensions effective control on the deliverable, cost Proding - Iss 11/29/2021 Project 74 The lack of a BIS Project schedule based on Ryan Tam accurate estimations dimensions effective cost of rough the deliverable, cost Proding - Iss 11/29/2021 Project Management Cost of rough the deliverable, cost Proding - Iss 11/29/2021 Project	voluters a cept one. Resources are not in declarate fores within the team and have the option of returning to their previous operational roles at any time.	overen is not guaranteed and DFS aready stated that no additional records will be append to be lest state. It is a risk to the Project that the records of the append to be lest state. It is a risk to the Project that the records of the appendix to the server be records and the project that the provided, thet training will add to the worklass's of current DFS project resources.	Confully galant for all project activities with reasonable hour allocations for the Diff resource and adjust date in the Bit Singest calculate confugly. * Add calculations into the schedule for unexpected project devide accordingly. * Add calculations into the schedule for unexpected project devide accordingly. * Add calculations into the schedule for unexpected project devides the test * Diff see and a schedule for a schedule according to the test * Diff see and a schedule for outer schedule that add to participate again, do resources can matrician their engagement with the Project. * Using the available tools, notive the current estimates to complete each. In the schedule tools, review the current estimates to complete each. In the compared to past actual hours * Update an excessary and provide the Diff Orligect Managers with reports and data that according the devident of the compared to past actual hours * Update as an excessary and provide the devident of the report is add as that coursely information the devision of the report is add as that coursely informations and the devision of the report is add as that accounts in formation and the devision of the report is add as that accounts in formations and the devision of the report is more address additional accounts in the devision of the report is address additional accounts in the devision of the report is more address additional accounts in the devision of the report is more address additional accounts in the devision of the report is more address additional accounts in the devision of the report is inclusion.		2 Med (Dpen	9/a/2022. With the EE Project and highpage, some of the DHS resources assigned to be project and highpart throansiton work. The work stoppage is a significant event for the project team and the inspect to overall stoppage is a significant event for the project team and the inspect to available team of projection of project and highpart team and the inspect to available material update for the reporting project. 7/E/2022 - 1: https://arxiv.org/ and/arxiv.org/ energy and/arxiv.org/ energy and/arxiv.org/		
increase, and a liste go live.	Previou NUV findings focused on pacefic tachedule components such as resource management and critical path analysis, all of which were addressed and closed.		the duration of the Project - Discuss, williafte and address additional concress with the project processes that must cause the project dialog other than inducurate administration and over refunct on POs, Nove Redge revised schedule against which project deliverables can be managed.				R/1/2022: The Ad indicated that isolatathial changes and improvements $R/1/2022$: The Add indicated that isolatathial changes and improvements the the isolatable badd dior ddiwine the revised diar bit merce to Add the revised diar badd to Add with the revised diar badd to Add with the revised diar badd to Add with the Add Add Add Add Add Add Add Add Add Ad		

10	Finding Identified					Analys	Finding			
Title Reporter	Type Date Category	Observation	Significance	Recommendation	Event Horizon Imp	act Probability Priorit	Status	Status Update	Client Comments	Vendor Comments
ID Reporter 1 The lack of the final agreement on the scope Jue Tracea and cost of the Google Cloud Traitom (GTC) Clauge Repuest (Cl) may lead to unancicated bits (cost, schedule delay,	Finding - Ris 10/28/2021 System Design	however, not all details were vetted at that point in time. In the July/Augus 2020 timeframe. DHS and the ASI agreed to have all BES environments	finaling the components being implemented codel secondaria the index and and to fail the data data. Consider justices data presents system and and the data data data. Consider justices data presents system increased potential for system failure (Lo, due to the significant number horizong part) and increase the level of the and definits receive infrastructure and application-level bags. Earther, since component infrastructure and application-level bags. Earther, since increase infrastructure and application-level bags. Earther, since increase infrastructure and application-level bags. Earther, since increase infrastructure and application-level bags. Earther, since increase component (Lo, Hewan, Google Code light system failure harbackase Google Code failed to darks, Google Code light system failure harbackase Google Code failed to darks. Code Code light system failure harbackase Google Code failed to careful components to the code law for failures a contra- tionary. How may and level to project disruption. If for kinetes to mentally include float obstackaring cost mixing over MAD tasks to State familiar with in a complex infrastructure environment.	Implement and maintain the planned infrastructure. The Architecture process should induce these top provide adjusticel impact of 055 more and maintenance and operations impacts DHS work with the AHS asset of the planned induced and the top adjustice top atm infrastructure crack Add develops a more and and maintenance and a Add develops the top adjustice top atm infrastructure crack Add develops a more adjustice to the AHS and regression test one-updates are applied The project test work for components to simplify their use and monitoring Reguest the ASI and regression test one-updates are applied The project test work is components to simplify their use and monitoring Reguest the ASI and the adjustice top additions and monitoring Reguest the ASI and the adjustice top additions and monitoring and the adjustice top atm in the adjustice top additions and monitoring and the adjustice top atm in the adjustice top additions and monitoring and the adjustice top	ASAP	nct Probability Prom 3 3 Med 3 4 High	t Finding 9 Status Open	Chick to 10x4x1 STADD222: The SS scenarios die departure of key infrastructure recorrect we how provide landerhips to the infrastructure form, which code assertiate this risk. With the recent work stoppage, it is uscettain the regulate the LF and the recent work stoppage, it is uscettain the regulate the LF and the recent work stoppage, it is uscettain to regulate the LF and the recent work stoppage, it is uscettain to regulate the LF and the recent work stoppage. The SI interduc- tion of the recent stoppage and the recent stoppage and the related the voltage that the recent work stoppage and the related to D23122: The reacy assertiate discrimination of the related to D23122: The reacy assertiate discrimination of the related to D23122: The reacy assertiate discrimination of the related to D23122: The reacy assertiate devia schedules: Locations is a reacy use there interpret the impact of the related to the related to the the L analyzing the impact of the related devia schedules: Locations is a related to relation infrastructures and the infrastructure and excertainty the related to relation the relation of the related to the related to the related to the the potential loss of explicit and tactification is used to related to the potential loss of explicit and tactification is used to related to the relation the following Add schements regarding:The Add relations the following Add schements regarding:The Add relation the following Add schements regarding:The Add regarding and managed to work effectively The level of refers to at add regarding and managed to work effectively The level of refers to at add regarding and managed to work effectively The level of refers to at add relation the following Add schements regarding:The Add regarding and managed to work effectively The level of refers to at add regarding and relation and the relation of the instructure. Complem Instructures after researce developers to be relation the molecution for the relation of the c		Vender Commune 99/J2021 - MAP - Fole of callrightson, The 50/J2021 - MAP - Fole
and/or the need to reduce scope.		being drafted by the ASL it has been over 12 months of the draft of th	s	for approxil. COMPLITE: DKS and the AD apree to a firm delivery date for when DKS will receive the GOP CL 12/16/2011 Complete				environment to DeK. The ADI patienting to provide DEK 3 CPF Bast of DFR 100 FG IRAFO (for resv. 7)/20/2022. The ADI of DK and DFS have general agreement to the scope of the GPC R. The ADI approaches and DFS have general agreement to the scope of the GPC R. The ADI approaches and DFS have provide DFK and DFK have provide DFK have p	1 - 1	nde stabilish that the project wold be deployed to the Cloud. 2004 provided that development be doned in the Cloud and deployment would we be to the on-premise environment. However, we did acknowledge that deployment may move to the Cloud. The final deployment may move to the Cloud. The final deployment may move to the Cloud. The final 2020. The cloud. For managing the LIAT, Production, and Disaster Recovery environments were not included in the SAPA areament, for
could lead to development confusion and reduce the effectiveness of defect resolution	Development	configurations.	ensures the BLS shutderstood and works correctly. The BLS solution includes tools that may provide a level damation for Gradinguration Managements that may reduce renors and should provide the project Barrow Barrow and the BLS solution of the BLS solution of the BLS solution management of the configuration plan along with the dealls reparing the management of the configuration term, reporting and audit features.	management tools and DFW work to fund and procure a CM tool, as required, to avoid any enginesis indicates the project. CDM/TLTD is there if provide somethy of configuration management Actions as assure dimension of the tool of		2 2 Low	Open	00/25/22: The Adl anomanced the departure of key resources including thri lacd CM strategies, which cold accounts the in risk. Which he recent militights this risk. 01/20/22: The Adl supelated the Configuration management Pin-Lip (W) with add stratus Collinguration management details 02/27/22: OH's his identified technical and functional pinnary points of the collection of the Collinguration management details 02/27/22: OH's his identified technical and functional pinnary points 02/27/22: OH's his identified technical and functional pinnary points 02/27/22: OH's his identified technical and functional pinnary points 02/27/22: OH's his identified technical and functional pinnary with to be finalized and the lack of carry around the CM debalase (CMMD) 02/03: OH and the coll carry around the CM debalase (CMMD) debalase pinner (CMM, Newer, it remains uncertain which of the SM and the OH and the Coll carry around the CM debalase (CMMD) of the SM and the Coll carry around the CM debalase (CMMD) and the pinnary biotic debalase (CMMD) and the SM and the OH and the CMMD and the CMMD and the coll of the SM and the their exciting this decision, 2) how a will be used, and 3) his tatistic for SM as carrend (SM and SM and CMMD) and function of the CGP charge respective in the approxemation is extrated the CMC oncert to a support. It is carrent to be increasing ly impactful as the Project approaches later in the Project candid heave project tiam scarabilities to impact the management of the approaches. Other and cardinary the increase later in the Project candid heave project tiam scarabilities to implement the reset of the Project conder scarability impactful as the Project approaches the management of the Amplement that does not fully ment the reset of the Project conder scarability impactful as the Project approaches of the neutral application for the scarability of the Institute of the fully the management of the Project conder scarability impactful as the neutral application for the scarability management that does not f		9/9/2021. RAP: We look format to the look format to the inquirises from the VRW team on configuration management and having conversations, We at the jobs linking medits to be updated to reflect the processes in place on the project for configuration management.
64 Isuaffcent planing/execution of the IES Dust Heath Security Planis activities may lead to edd pin parting Heather Planine approval for the BES Project to begin the Plane Plane.	Finding - Rix 7/28/2021 Security and Privacy	Over the last several month, the BE project team has been working through the planned forts to develop the 13 - Society Plan while also many planned provide the several several team of the several several provides the several several several several several several several (CRI) last north and are currently related to all several several several and changes to the project since inception.	Pilot phase. There are many standards that must be met, and the project team plans to utilize the BES Security Control Implementation Workbook to	 collaboration with DHS DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risks, guese, evidence) along with the Requirement Traceability 		4 S High	Open	00/23/2022 - Since only own neeting was held between the AI and OHE BE Security stamm give to the work stoppage, TW has no material updates to social the segretime needed for the vender Security Faced and team privacy focused workshops and technical sessions have adgets of security attaining the segretime needed for the vender Security Faced and team privacy focused workshops and technical sessions have adgets of security and is signature and the security faced and team privacy focused workshops and technical sessions have adgets of security and is signature 22/03/12/022 - The AI difficult the Security security to also signature 22/03/12/022 - The AI difficult the Security adjusted benefit the EIS project. The AI disos not have a Security Airchited to Security faced the security faced and sequences about down that the prior that Security Security Security faced and approved. An agreement has been raceford for the immediate terms to use AI as solutions that the section to the Security Airchited the Security Airchited the Security Airchited the CI is approved. An agreement has been raceford for the immediate terms to use AI as and Configurate tables the saddiood for the immediate terms to use AI as and configurate attribute. Weekly security and additional resources. While a security Marketime has additional resources that additional resources. While the lack of complete activity advect comes for the immediate terms. We have a security Resource in these and may need be additional resources. Whith the lack of completes activity advect comes for the immediate terms. With the lack of a complete activity marketime terms and may need be additional resources. Whith the lack of a completed CIC charge respects is impacting generic tasks. The of the privacy subset of the sadditional resources. Whith the lack of a complete terms and marketime terms are impact to the same that any need to the same that approved has agreen the same term is the same term is the same term is the same term is the same te		9/9/2021 - RAP: The decision to move to the decision to move to the decision to move to the decision the need for a complete reverte based over the need of the security plan aper DHS. The AB is in planning the effort negated to complete the size of the effort negated to charge request to charge request to charge request the definition discussions with IV&V and DHS.

ID	FindingId	dentified					_	Analyst	Finding.			
Title Reporter	Туре	Date Category	Observation	Significance	Recommendation	Event Horizon Impact	t Probability	Priority	Status	Status Update	Client Comments	Vendor Comments
67 The Americans With Disabilities Act (ADA) Ryan Tan	Finding - Risi 7	/12/2021 Testing				As soon as possible	3 3	Med	Open	9/30/2022 - DHS issued a work stoppage, and no progress was made to		
Section 508 compliance tool has not been installed for the Project, which may cause			successfully completed the ASI confirmed that there is currently no working tool installed and that Section 508 compliance testing has not been	compliant to obtain State and Federal funds for the development of the BES. The ADA Section 508 intent is to make electronic and information	finding. The ADA tool meets contractual and project requirements.					move forward with purchasing the ASI recommended ADA compliance tool.		9/9/21 - RAP: The ASI has invited the IV&V to
significant rework.					The ASI communicates a plan for ADA test execution. The ASI communicates how the tool will be used to report compliance and non-					8/30/2022 - No change in status. Waiting on DHS acceptance/approval to move forward with purchase. installation. configuration. and		make contact with the
				vision and hearing disabilities), in a way that is comparable to the access	compliance and how non-compliance will be addressed/corrected. The					implementation of the ASI recommended ADA compliance tool. 7/27/2022 -		development team to
			that they are coding to some of the ADA requirements and are using a desk-	available to others. Part of the system acceptance criteria for BES is to meet	ASI communicates how and when DHS/IVV will be provided the reports from					The ASI successfully completed the ADA compliance tool proof of concept		review the results of
			top tool for ADA compliance as an interim solution. IVV has not received any data to demonstrate the desk-too tool results nor if it provides coverage		the ADA tool execution and how to interpret the results. Superseded 8/30/2021 - The ASI should gain DHS' approval on the tool selected after the					and provided reports to DHS for their review and approval. The final steps remaining would be the purchase, installation, and implementation of the		the desk-top tool to gain insight. To date.
				Accessibility Standards associated with Section 508 of the Rehabilitation	8/30/2021 - The ASI should gain DHS approval on the tool selected after the ASI validates it will perform as expected within the BES architecture,					tool. 6/29/2022 - The ADA compliance tool is still in the trial phase and a		gain insight. To date, the IV&V has not
				Act., which was verified in the ASI proposed Technical Requirements	meeting all contractual and project requirements. The ASI create and					compliance report will be run once the initial testing has been completed.		contacted the
				Approach that states "The system complies with DHS branding standards as	communicate the plan for when the ADA compliance tool will be put into					The ASI is expected to provide results of the testing to DHS when the trial		development lead to
				defined by DHS and adheres to W3C level 2 accessibility guidelines, sub- parts of Section 508 of the Americans with Disabilities Act (ADA),	action, how the tool will report compliance or non-compliance, how non- compliance will be corrected, and how and when DHS/IVV will be provided					phase is finished, and the report generated. 5/31/2022 - The ASI has identified an accessibility compliance tool that will meet the needs of the		have further discussions on this
				parts of section SUB of the Americans with Disabilities Act (ADA), nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	compliance will be corrected, and how and when DHS/IVV will be provided the reports from the ADA compliance tool and how to interpret those					Project and DHS has approved opening a firewall to facilitate a		topic.
				(https://www.hawaii.edu/access/uh-guidelines-for-accessibility/). FNS	reports for the code from previous, current and future releases.					demonstration of that tool. The ASI completed a Proof of Concept for the		
				Guidelines from the 901 Handbook, and contractual obligations to adhere to the Section 508 compliance guidelines (https://section508.gov/) there may						tool and now needs to 1) receive DHS approval to use the tool, 2) purchase the tool, 3) configure the system to accommodate the tool, and 4) institute		
				the section SUB compliance guidelines (https://sectionSUB.gov/) there may be a significant amount of rework to the solution.						the tool, s) configure the system to accommodate the tool, and 4) institute the tool into the delivery pipeline. 4/26/2022 - The ASI is evaluating four		
										ADA testing tools for consideration due to high pricing for the tool selected		
										in March. This tool was demonstrated to the ASI and appeared to provide		
										the required reporting features and the needed integration with the BES architecture. A second ADA tool under review has a proof of concept		
										scheduled for the week of 5/1/2022. The ASI has stated that little impact is		
										expected from the delay in performing ADA compliance testing and that a		
										tool will be tested and selected shortly. 3/28/2022 - The ASI testing lead confirmed that an ADA tool has been selected for consideration and a		
										demonstration held. Next step is to execute a proof of concept within the		
·····					· · · · · · · · · · · · · · · · · · ·					BES application. To mitigate this risk, the ASI stated that problems identified		
63 The lack of early planning and coordination Michael Fors with interface partners may result in	s ⊢inding - Risi 1,	/21/2021 Integration and Interface	The following planning and execution items have not yet been addressed and documented by the ASI = Connectivity is planned to utilize a presently	interfaces is one of the areas where DDI projects often underestimate the time needed to effectively manage all the tasks and activities to successfully	UPEN 5. Comprete all MOAs and obtain approval. 6. Confirm testing dates with interface partners in writing. COMPLETE 1. Establish a communication	Q4 2021	4 1	Low	Open	09/29/22 - No material update. 08/26/2022 - The statuses of the three remaining required agreements (DAGS, DLIR, HYCF) have not changed.		
with interface partners may result in schedule delays.		Management	and documented by the ASI Connectivity is planned to utilize a presently undefined ETS API Gateway; however, there is no evidence that details have	implement data sharing. A clearly defined communication plan and	plan for each interface partners for the duration of the BES DDI activities.					08/01/2022 - DHS executed the DPS agreement (MOA) on 07/20/2022. The		7/20/21 RAP - The ASI
			been determined or documented in this regard There is little evidence of	schedule that includes the coordination, planning, and execution activities	10/29 COMPLETE 2. Identify and document all interface partners' contacts.					statuses of the three remaining required agreements are as follows. The		team requests that the
			active and sufficient communication with interface partners for	along with milestone dates may minimize the risk of possible delays. In	COMPLETE 3/31/2022 3. Define a release schedule for each interface to					DAGS agreement is moving forward with design work. DHS reviewed the DLIR MOA and resubmitted it to DLIR. The latest draft of the HYCF was sent		IV&V reassess the severity of this risk in
			planning and execution tasks and activities, including those for interface	addition, after planning has been completed, interface partners will have to be available during interface implementation to ensure that the interfaces	interface partners. 01/04 COMPLETE 4. Determine which deliverable will					DLIR MOA and resubmitted it to DLIR. The latest draft of the HYCF was sent to the DHS Directors' office with feedback from BESSD and MQD.		severity of this risk in light of the following
			partners, are neither resident nor managed within the Project Schedule.	are properly tested before deploying the system to production.	include the details associated with the planned connectivity and detailed					06/30/2022 - There are 4 agreements outstanding (DAGS, DLIR, DPS, and		reasons: a) the ATC
			A mitigation plan has not been developed to address the unavailability of		technical designs of all interfaces. 01/04 COMPLETE					HYCF), DHS plans to discuss the agreement at the next meeting with DAGS.		schedule extension
			interface partners during interface implementation after MOAs have been approved, testing dates have been confirmed, and communications have							which is tentatively scheduled for 07/06/2022. DHS is currently reviewing the DLIB. DPS, and HYCF agreements. 05/31/2022 - There were no changes		has made the urgency for tackling these tasks
			been frequent.							to the interface communication plans in this reporting period. There are 5		less than it was before
										agreements outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF,		that started lessening
										and DLIR have all been drafted and are going through reviews with DHS and the interested parties. DAGS has not been drafted by DHS; DHS is in		the schedule risk, b) the increase from
										discussions with the Department of Tax for an interface that would bypass		Medium to High in
										DAGS. The CYRCA interface has been escalated within DHS as the business		May was based on a
										requirements CYRCA meets are being evaluated by DHS executive		misunderstanding of
										management. IVV has opened a new issue #79 related to vendor development delays for the task management software. 04/28/2022 -		the current state of the MOA's and contact
										There were no changes to the interface communication plans in this		metrics, c) substantial
										reporting period. The DAGS, DLIR, DOH, and HYCF agreements are still		progress has made
										outstanding. In addition, there is a new element to this risk regarding DLIR because the interface will not be able to offer additional data elements		against each of the In Progress
										which DHS needs. 03/29/2022 - There were no changes to the interface		recommendations.
										communication plans in this reporting period. 02/25/2022 - There were no		and it continues to
										changes to the interface communication plans in this reporting period.		trend in the right
61 Poorly executed JAD and design sessions Brad Molina	Finding - Issi 11	/30/2020 System Design	ASI-led Workflow JAD sessions have been held for CMM, with the following	The CMM Workflow JAD sessions restarted in November DHS indicated	OPEN - The facilitator should use their expertise to drive discussions through	ASAP	2 5	Med	Open	01/28/2022 - There were no changes to the interface communication plans 9/30/2022 - DHS Product owners and SMEs have raised concerns about a		direction. In regards to
could lead to inaccurate design and rework.	renaming - task - and	John Sharen Design	concerns being observed, - No clear introduction to all participants on the	some concern regarding the CMM Workflow JAD sessions, specifically; (1)	leading questions BAs should come to Day one of Design Sprint fully		1 5	inicu.	Open	lack of a cohesive design and a user experience that is less than satisfying.		
			goal of the JAD, overview on the process and the importance of their	Do the JAD participants understand how the Case will be managed through	prepared to facilitate discussion on topic of sprint, with adequate					DHS users are citing examples of not being able to achieve desired tasks or		9/9/21 RAP - The IV&V
				workflow? (2) What improvements will be made in the new BES to support the users and clients? Incomplete or unclear JAD sessions with insufficient						achieve tasks timely. 8/31/2022 - The ASI's addition of senior BAs to the design sessions has resulted in improvement. The Senior BAs offer guidance		does participate in many facets of the
			Too much pause time when participants did not know the answer to a	documentation could lead to a poor design, lacking the details needed to	Experience (UE) designers to engage with DHS and review the currently built					to ensure the project team remains focused on the design. Unfortunately,		deisgn process
			question; several occasions where complete silence on the call for 30	support business requirements; as well as missing opportunities to improve	BES solution. Closed - JAD and design sessions should be lead by					one of the Senior BAs has left the project so it is unknown if this practice will		including screen mock-
			seconds or more - Lack of thought leadership from the ASI on how workflow could be designed to ease/improve process for client	workflow and related system design.	experienced senior BAs, with goals, objectives and results communicated to all participants. (additional Senior BA being added rest of recommendation					continue for all BES design sessions. 7/31/2022 - Although the ASI has implemented preparatory sessions for their Business Analysts (BAs) prior to		up reviews, backlog grooming sessions,
			worknow could be delighted to ease improve process for cherk		being met - Closed 4/30/2022) - The DHS and ASI product owners should					design Sprint Day 1, IVV continues to observe occurrences of BAs not being		and Sprint demo's.
					actively participate to ensure the system meets the requirements, designed					fully prepared for the initial session. DHS has also raised concerns that the		Product owner
					taking advantage of new technology and aligns to the 'to be' business					ASI support admins are not always assigned to meetings, leaving the BA		discussions are meant to have limited
					process. (Closed 4/30/2022) - The ASI should back-track significant differences in design direction to determine the root cause to identify these					solely responsible to lead discussions and capture notes, update artifacts, and capture action items. DHS requested the ASI to address these concerns		to have limited participation. The
					items as early in the SDLC as possible. COMPLETE - The Product Owners					going forward. 6/30/2022 - The ASI continues to revise the Design Sprint		team is concerned
					should have more direct interaction with the development team, proactively					process by engaging the DHS SMEs and ASI systems analysts earlier in the		about the participation
					seeking collaboration. 10/5/21 Complete - The Functional Design Document process, to include the Design Sprint concept, should be clearly					process and conducting prep sessions with the ASI Business Analysts (BA) prior to each Sprint. These pre-sprint sessions with BAs are starting to		of the IV&V for two main reasons: 1) IV&V
					defined and shared with all project team members. (Closed, 1/31/2022) -					address the remaining recommendations. IVV will continue to observe and		does not always stay
					Invite IVV to all future design sessions and design sprints to allow IVV to					look for impactful results from these latest changes to the process.		silent in discussions on
					observe and assess the effectiveness of the revised design processes. (Closed, 1/31/2022) - ASI and DHS should work together to vet the in-					5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use Cases to build knowledge of common business processes, strengthening		design despite assurances from the
					progress design with all SMEs for the area of focus. (being met by new					their facilitation during design meetings. DHS Lead Product Owners are also		IV&V PM that it is not
					design sprint process, closed 2/28/2022) - ASI staff all design sprint					taking an active role to ensure the BES Design meets the requirements as		their role, and 2) IV&V
					meetings with additional support staff to ensure the meetings are adequately documented and ASI Business Analyst are not running the					noted in this month's positive finding. 4/30/2022 - The ASI is working to mitigate the issues raised regarding inconsistent BA performance, including		participtation typically drives what are meant
					meetings alone. Complete 7/31/2022					the migration of Senior BA to CMM team and providing additional		to be informal
49 Poor quality project deliverables may impact. Brad Molina	-			-	OPEN - ASI reviews its Quality Management Plan to ensure that the Project			Low	-	training/onboarding for new BAs. Additionally, a System Analyst will	06/30/2020 - New deliverables this month included Bi-10 and Bi-20. Bi-10	processes to more
49 Poor quality project deliverables may impact Brad Molina system design, testing artifacts and the	Hinding - Issi 4	I/16/2020 Project Management			OPEN - ASI reviews its Quality Management Plan to ensure that the Project is working within the guidelines of this Plan document. In particular, the ASI	immediate	2 2	LOW	Open	work stonnage 8/31/2022 - No material undate for this reporting period	was initially called back for quality issues, and the issues were corrected	7/30/21 RAP - The ASI
project schedule.		management	deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents	rework needed for remediation. If poor quality deliverables continue to be	should evaluate and consider if it is in alignment with Section 3.1.2 Measure					7/31/2022 - The ASI plans to provide resources to develop and report on	DHS is not comfortable with BI-10 re-format, will be revised again.	team will review and
			exhibited erroneous information, a lack of a logical organizational flow, an	produced and submitted for review, this can continue to result in	Project Quality, which states, ASI measures process and product quality by					quality metrics, which will be addressed in the CAP. 6/30/2022 - No		respond to this issue
			insufficient level of detail, and a lack of understanding of the subject matter from both a functional and technical perspective. DHS logged this issue in	unproductive use of time, unanticipated rework, misguided development	 selecting BES implementation process and product attributes to measure; selecting component activities to measure; defining value scales for 					significant change to the status of this finding although ASI has assigned a resource to research a solution for creating quality metrics. 5/31/2022 -		again when a material update is made by the
				and testing activities, potentially unfulfilled functionality, and additional schedule delays.	 selecting component activities to measure; 3) defining value scales for each component activity; 4) recording observed activity values; and 5) 					resource to research a solution for creating quality metrics. 5/31/2022 - The revised DDI process, in particular the design sprints, is bringing more		IV&V. We also
			conducting an internal root cause analysis and provided DHS and IVV the		combining the recorded attribute values into a single number called a					focus and attention on design documents, which has a positive effect on		recommend the
			high-level results.		process quality index. IVV has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality When the					quality when measured by the lower number of comments in deliverable reviews. IVV will validate this metric is fully documented in the Quality		rethinking of the first
					project restarts, resources be allocated to create a Quality Management					Management Plan, when published by the ASI. 4/30/2022 - No material		based on the
					Plan to help address this finding. CLOSED - IVV recommends that a					update for this reporting period as IVV awaits updates to the Quality		assessment from the
					facilitated root cause analysis be performed by the ASI with DHS and IVV in					Management Plan. 3/30/2022 - When Release 6 final test results are		IV&V that this is a low
					attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causes or root causes of this					published, IVV will re-evaluate this finding. 2/28/2022 - IVV continues to review the Release 0.6 test results and available metrics. The initial results		risk. The tone, tenor, and substance of that
					current condition. Once the root cause(s) are identified, IVV recommends					show a positive trend, which is encouraging since Release 0.6 has the most		recommenation is out
					immediate action be employed to resolve quality concerns on in-process					complex functionality developed and tested by the project team to date. If		of step with a risk
					deliverables prior to submission of subsequent deliverables] Closed 7/30/2021 - ASI verifies that the information in design and testing artifacts					the number of defects attributed to design remain low throughout Release 0.6 textion the focus of this fielden will be addressed 1/21/2023 - Raced		perceived by the IV&V for a number of
					is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause					0.6 testing, the focus of this finding will be addressed. 1/31/2022 - Based on ASI and DHS testing and defect validation progress, IVV's root cause		months now to be low.
					analysis with DHS and IVV in attendance to determine the source of the					recommendation is complete. If remaining testing for all sub-releases in		4/23/21 rap - The ASI
					design defects. (closed, 1/31/2022)					Release 0.6 shows a low cause of defects from design, the primary concern		team agrees that the
										of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 testing should provide clarity on overall defects, specifically on		full embrace by the project of the
										those related to design. Results consistent with already completed SSP		Confluence tool has
										testing for Release 0.6 could address the scope of this finding. 11/30/2021		improved the
										The results of the system test for release 0.6 showed a significant reduction in defects compared to prior releases, which could reflect improvement in		deliverable management process
										and a second sec		

ID Finding Identified	Observation	£100(0)	Barran della	Duran Hardware	terror Buckshill	Analyst	Finding	Change Harden	511	Wand and Committee
47 The COVID-19 pandemic and the related Michael Fors Finding - Ris 3/29/2020 Project	On 3/23/2020, the Governor of Hawaii issued a "stay at home, work from	DHS stakeholder participation in key activities could be significantly	OPEN - Suggest the project and DHS create a detailed, documented risk	ASAP	2	2 Low	Open	09/29/22 - IVV remains concerned that the lack of in-person interactions	06/30/2020 - Office opening may be delayed until September/October.	vendor comments
"stay at home" order could hinder project Management activities and negatively impact the project	home" order that has reduced state departments' ability to be fully functional as the large majority of state workers will be required to work	hindered, not only by working remotely but also by the need to focus on delivering services to beneficiaries. Planned key activities such as design	mitigation strategy and plan that is reviewed regularly and revised to address the current state of the COVID-19 threat and related impacts.					may lead to reduced project team productivity. 08/30/22 - No material update for this reporting period. 07/31/22 - No material update for this	TBD.	7/30/21 RAP - The ASI agrees that COVID at
schedule and budget.	from home/remotely at least until the end of May and some offices may be	sessions may be facilitated remotely which may impact the quality of the	Send broad communications to stakeholders to assure clear understanding					reporting period. 06/30/22 - The ASI has stated they have removed the		this time is likely a low
	completely shut down until that time as well. Unclear if the order will extend beyond that date.	sessions. Going forward, most if not all project activities will more than	of changes to the Project with regard to impacts of COVID, as well as clarifying communications as to what will remain the same Project					vaccination requirement for working in person and are encouraging staff to		risk to both schedule
	extend beyond that date.	likely be conducted remotely until this crisis passes. The DHS project team will soon lose some key members of the PMO, the PMO lead will retire on	leadership continue to encourage independent phone conversations to					spend time in the office. DHS team members are still not required to work in the office but DHS is also encouraging office time. Three DHS team		and budget for the project despite some
		4/30/20 and another key member in June 2020. DHS has concerns that the	enhance and accelerate communications, and for team members to not wait	t				members currently work out of the ASI's downtown Honolulu office.		increases related to
		state could experience a significant loss of revenue due to CDVID, which could lead to DHS budget challenges. If the state/DHS institutes a hiring	for meetings to converse Consider in-person meetings for critical design sessions if DHS and ASI COVID protocols allow. CLOSED - Continue to make					05/31/22 - The ASI and their subcontractor are making efforts to increase in office/in-person work which could help to increase productivity and		the delta variant. The ASI team continues to
		freeze, DHS PMO may not be able to replace these key resources.	efforts to setup, train, and assist new stakeholders on remote work devices					communication as well as overall quality of project work. 04/29/22 - No		maintain social
		Additionally, if the state institutes furloughs, DHS project team resources could be further constrained. Unclear if the state budget challenges will	and tools and continue to assist stakeholders with becoming highly functional with remote access technology (e.g. MS Teams/Skype)					material update for this reporting period. 03/31/22 - State leadership has rolled back most COVID mandates this month, however, most individual		distancing in the office in line with State
		impact overall project funding.	Complete - Update the OCM Plan to include any new activities or updates to					State departments have been given the option of not requiring their staff to		mandates. However,
			planned activities to aid the organization through this COVID-19 pandemic in the short and long term Complete - Explore options for freeing up key	1				work in-person. DHS will likely maintain remote work policies for the foreseeable future. IVV recommends DHS consider strategically requesting		the team has essentially reached the
			BESSD SME's to work on the project Complete					in-person meetings for discussions that can be significantly more productive	1	new normal in
								in-person. 2/28/22 - The State of Hawaii is planning on eliminating most COVID mandates as of 3/5/22. In-person meetings could improve		Honolulu. This includes fewer
								collaboration for design and other sessions if the Project elects to increase		resources travelling
								in-person meetings. 1/31/22 - The ASI has reaffirmed that remote meetings are a less effective form of communication than in-person		and more conference calls: however, the
								meetings and therefore, COVID continues to have a negative impact on the		project has adjusted to
								quality of some project activities, albeit difficult to quantify. 12/31/21 - Though Omicron COVID cases are surging, the project has indicated they do		the lack of in person meetings. In our off-
								not plan to make changes to current protocols and do not expect this surge		shore office, we still
								will materially impact the project. 11/29/21 - The ASI has transitioned their team from working remotely to primarily working in their Honolulu		have staff working from home. We expect
43 DHS PMO project team members have Ryan Tan Finding - Issi 1/10/2020 Project		The key resources leaving the BES Project provide knowledge and history of		ASAP	3	5 High	Open	9/30/2022 - No material update in the reporting period. 8/31/2022 - DHS	02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality rating	4/23/21 RAP - From
transitioned off the Project, which may Management cause gaps in knowledge transfer and	project team members are planning to retire or leave the project within the next few months or have already transitioned off the project. While there	DHS and its software, solutions, and business processes, along with a level of consistency and continuity to the extended project team. This experience	borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent bires 5/31/2021 - DHS continue to work					continues to seek applicants for the three PMO positions these positions remain unfilled 7/29/2022 - DHS has received minimal applications for the	on this Finding (#43) and DHS rolled out the DHS Product Owner Roles and Reconscibilities to the DHS team on January 29, 2021. (Gay provided the	the ASI perspective, the changes to the
leadership on the Project.	are plans and actions being taken, a formal transition/succession plan has	of consistency and continuity to the extended project team. This experience and knowledge is critical for the BES DDI and KOLEA Modifications, and	with the appropriate organizations to identify the funds necessary to fill					open PMO positions therefore, they may fill the positions with contractors.	Final DHS Product Owner Roles and Responsibilities document to IVV on	project management
	not been documented. In January, the ASI did announce and introduce an interim Project Manager, but a plan for a permanent replacement is not	planning efforts for BES Maintenance and Operations activities. Additionally, as per the budget, DHS stated if they are unable to fill these	these positions In progress The state should document a transition plan for the project and PMO resources as identified in the RFP (reference RFP					IVV does not have visibility to the full impact of the delay in filling these positions. However, some of the administrative and contract management	02/8/2021). 06/30/2020 - Mark Choi is becoming more involved in the project. Involved in Arch decisions and PM decisions around tool sets	of the BES project have provided little
	currently known.	positions timely, DHS may fall out of federal funding compliance and lose	section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-19					activities are significant so DHS assigned these activities to internal staff on	future vision, etc. Day to day PM working closely w/ Gary and Emerald. We	impact on the overall
		the \$37 million needed matching funds for continued development of BES.	economic impact to the state budget, directly in relation to the project resources Closed The ASI should document a transition plan for each key					an interim basis. 6/30/2022 - DHS continues to recruit for PMO resources. No other material updates for this reporting period. 5/31/2022 - DHS	have no insight into other DHS staffing.	project. At this point, the knowledge
			resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits					continues to recruit for PMO resources, but the three positions remain		transfer gaps have
			Eligibility Solution Project Staffing'.) - Closed					unfilled. However, some PMO responsibilities are being addressed through existing resources. For example, the contracted DHS PM has filled in		been closed and the leadership of the
								leadership gaps and and has positively impacted the Project. 4/28/2022 -		project remains strong
								No material updates for this reporting period. 3/31/2022 - DHS continues to recruit for these positions but received minimal interest to-date.		hands from DHS. We recommend that the
								2/28/2022 - DHS posted the PMO positions but are having difficulty		IV&V reassess the
								identifying candidates. While online metrics show there is interest and the positions are being viewed, as of this date, there has only been one		probability of impact and severity of impact
								application. 1/28/2022 - No material updates in this reporting period.		and severity or impact and lower the overall
								12/30/2021 - No material updates in this reporting period. 11/26/2021 -		rating for this
								No material updates in this reporting period. 10/31/2021 - No material updates in this reporting period. 9/30/2021 - The BESSD Administrator,		risk.3/3/2020 - The ASI PM stated the Project
								serving as the interim DHS BES Project Manager resigned from DHS. To		Coordinator position is
								mitigate the knowledge and leadership risk, DHS backfilled the DHS BES Project Manager with a contractor possessing extensive BES project		filled and they will begin work on
								experience. The Assistant BESSD Administrator will provide an active		3/9/2020, transition
								decision-making role in the project. IVV will monitor the impact of these project management changes. The remaining DHS PMO positions continue		activities from Donna will begin next week.
29 Uncertainty and/or a lack of communication Michael Fors Finding - Issi 5/28/2019 Project	Some platform and BES system architecture decisions have yet to be made	The current project architecture and design should be as representative and	- The ASI continue to make updates to the BI-12 System Architecture	ASAP	2	2 Low	Open	9/29/22 - No material update for this reporting period. 8/30/22 - No	06/30/2020 - Combined application is still planned. App still not finalized by	/
around long term architecture decisions Management could impact the project budget, schedule,	and socialized to the project. For example, the ASI and DHS have stated that they have reached agreement that the project will move forward with	inclusive of all known future solution plans as possible. As an example, if KOLEA and BES are to move to a single instance of Siebel in the future.	Deliverable with additional details as they become available and with any architectural changes are finalized Complete - DHS should finalize the						DHS. From Arch perspective, we are building in Liferay. Future Integration of the portals is still to be determined, but is not more complex than	4/23/21 rap - The ASI and DHS continue to
system design, and planning decisions.	implementing two Siebel instances (one for KOLEA, one for BES), but this is	planning for that integration should be incorporated into the project now. If	Portal strategy and implementation details and clearly communicate out to					management tool and its intended use. DHS prefers Service Now but it is	originally planned for data sharing. If change is made to Adobe, this would	refine the final plan
	not currently reflected in the project change log or the project decision log. It remains upriesr if the details of the rationale for this decision or the plan	such significant future changes are not planned for now, the project is likely to see increased complexity, rework, and costs when integrating the two	stakeholders and project teams. Complete 3/31 - The Project should continue to vet possible architectural change impacts to the platform (e.g.,					currently not funded, and IVV is unaware of contingency plans in the event Service Now funding is not approved. The project is currently assessing the	require a CR.	for the two portal vision. We expect that
	It remains unclear if the details of the rationale for this decision or the plan for integrating the two instances post go-live have been thoroughly vetted	systems in the future.	ADA, Configuration Management tools), M and O, MQD, and BES systems					Service Now funding is not approved The project is currently assessing the additional level of effort that will be required to comply with the latest		final decisions will
	and/or documented. Further, there may be some uncertainty around whether when/if all environments (including KOLEA and BES production)		before finalizing architectural decisions DHS continue to request ASI perform due diligence in any recommendation for foundational architecture					revision (Revision 5) of Federally required security controls. IVV is concerne that the move to Revision 5 and potential impact to the project architecture	1	likely be made during this reporting period
	will be moved to the cloud.		change decisions and continue to review with appropriate DHS stakeholders					have not been broadly communicated to stakeholders. 6/30/22 - The ASI		and communicated to
			to assure a common understanding of the implications of these decisions The Project should continue to ensure communication between					has stated that their cloud infrastructure will continue to evolve as the technology improves or the cloud provider(s) make changes and that some		the project. The ASI refers the IV&V to our
			development leads and architecture leads to assure optimal collaboration					architecture decisions have yet to be finalized (e.g., use of Splunk vs.		February update
			on possible architecture changes that could impact decisions in each area Maintain current communication processes to ensure regular					Dynatrace). IVV has little to no visibility into whether these changes are being effectively communicated to, or vetted by, the right stakeholders.		regarding Recommendation #3.
			communication between the architecture team and the rest of the project					Further, the Project has previously stated their intention to utilize		From our perspective
			team to assess impacts of architecture decisions to the Project.					ServiceNow (SN) for Configuration Management (CM), however, it remains unclear if progress has been made on finalizing this decision, how it will be		all necessary actions are complete. If the
								used, how it will be licensed, division of responsibility between the		IV&V does not believe
								ESI/DHS/ASI, and the status of funding for licenses. 5/31/22 - The ASIs addition of resources including backfilling of key positions may help to		it is Complete we request supporting
								increase communication of architecture changes. The ASI stated they are		detail.
								evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS. 4/29/22 - The ASI OCM team is developing a communication plan for		4/23/21 rap - The ASI
								communicating the 2-portal strategy, which may include a portal overview		and DHS continue to
								walkthrough with the project team and videos prepared for DHS stakeholders. 03/31/22 - The ASI has onboarded a new Lead Architect who		refine the final plan for the two portal
· · · · · · · · · · · · · · · · · · ·								suiterinites. 035222 - The Ast has oncorrow a new tead architect who will be responsible for managing the system infrastructure which should 9/30/2022 - The DHS work stoppage halted all efforts on project		vision. We expect that
2 Late delivery of project deliverables has Ryan Finding - Issi 11/28/2018 Project caused schedule delays. Management	Based upon the project schedule dated 11/26/18 (refer to schedule for regrifier), reserved due dater for project deliverables have been mixed. As of	Late deliverables can lead to schedule impacts and too many late deliverables may cause classificant discustion to schedules or delays	IN PROGRESS Despite not yet having a revised baseline schedule, continue monitoring and analysing deliverables that may impact the critical path	TBD	3	3 Med	Open	9/30/2022 - The DHS work stoppage halted all efforts on project deliverables _ NO(will continue to monitor this finding area the BES Broject		7/20/21 RAP - The ASI will continue to refine
wanagement	the date of this report, these deliverables include the Project Management	deliverables may cause significant disruption to schedules or delays. ***OLD***Without a PMP that depicts all Project Management processes, the Project can suffer unplanned consequences in scope, schedule, cost, and	COMPLETE 5/31/2021 - When the revised schedule is published the project					deliverables. IVV will continue to monitor this finding once the BES Project resumes. $8/30/2022$ - The ASI is behind schedule with development		the published schedule
	Plan (PMP), which is the formal document that is used to manage the execution of the project. In some instances, this risk may be compounded by	the Project can suffer unplanned consequences in scope, schedule, cost, and quality parameters. Without a schedule that provides the required level of	I team should restart the weekly practice of reporting actions being taken for late tasks and develop mitigation plans for those tasks that may be late -					activities which will impact the critical path. Without an approved schedule it is difficult to determine what is behind schedule and what impacts late		based on feedback from DHS and the
	a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a					deliverables or activities will have to project deadlines. 7/29/2022 - Fewer		IV&V while we work
	and acceptance from the State.		revised schedule against which project deliverables can be managed. 9/30/2020 Recommendation - IVV recommends the project team evaluate					project deliverables are delivered late, and critical path activities do not appear impacted when this happens since they are not dependent on those		through the final change request for the
			the estimating process to determine if changes should be made to reduce					deliverables. For example, development delays found in Finding #80 do not		ATC which is nearing
			the number of late tasks and or conduct a root cause analysis to determine					appear to be caused by late deliverables. Schedule impacts from late		completion. Regarding the recommendations:
			and address the root cause(s) Closed 8/31/2020 Recommendations; - Prior to acceptance of the new baseline, finalize the needed updates to the					deliverables are minimal during this stage of the Project as opposed to the planning/initiation stages where deliverables directly impacted subsequent		Recommendation #1:
			project schedule to address the outstanding items/issues identified by DHS, the ASI, and IVV to include the Release 0.1 lessons learned Closed -					activities. Given the reduced impact this finding has on the Project, IVV is		Based on progress
			Establish the process for DHS and the ASI to mutually agree to the revised					lowering the criticality rating to 'Medium'. IVV has separate findings for the BI-5 Project Schedule and BI-13 Security Plan deliverables. 6/30/2022 - The		made to date, the ASI is hopeful, that we can
			project schedule baseline Complete - Establish the process for on-going schedule management and weekly updates, utilizing the Schedule					ASI continues to monitor project activities that may impact the critical path and conduct meetings to address late activities. Although some late		agree in principle on the ATC change
			Management sub-plan of the Project Management Plan (BI-04) Complete					activities may not impact the critical path, they may impact ASI and DHS		request in July and
			5/31/2020 - Finalize the updates to the project schedule to address the					staffing since they need additional time to do the unplanned work. The		have a final schedule
			outstanding items/issues identified by DHS and IVV Closed. 5/31/2020 - Establish the process for DHS and the ASI to mutually agree to the revised					Project reported development activities are running behind in Releases 8, 9 and 10, but only 10 is impacting the critical path. The ASI is reviewing		published by the end of the month.
			project schedule baseline Closed 3/31/2020 - Add all tasks that have been	1				remediation actions. Additionally, based on late activities in the schedule,		Recommendation #2:
			performed or planned to be performed in the interim schedule. Closed 5/30/2020 - effective 5/15/2020 the ASI is no longer maintaining the					the Project is updating the schedule further. 5/31/2022 - The Project continues to refine SDLC processes to improve project schedule estimates.		The team has reinstituted every
			interim schedule. IVV recommends that the ASI complete the Project					Although the schedule has not been approved, the ASI continues to monitor		other week schedule
			Management Plan deliverable, work with DHS and IVV for review and edit as needed, and attain approval of the PMP. This will help ensure that all					project activities that may impact the critical path and conducts meetings to address late tasks. The ASI has reported delays in development that may		meetings and is tracking actions be
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