

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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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 http://ets.hawaii.gov (see "Reports").

Sincerely,

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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



Overview

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Engagement Status
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 - A IV&V Criticality Ratings
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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	Н	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	
M	M	M	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	M	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.	
M	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	Н	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.	



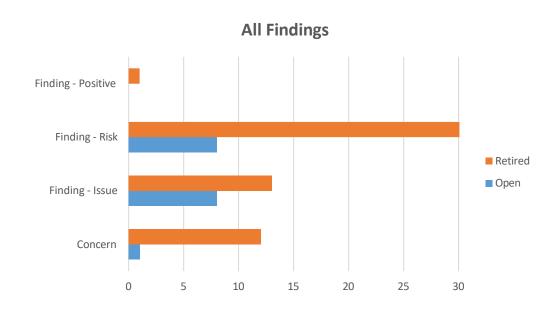


As of the September 2022 reporting period, PCG is tracking 16 open findings (8 risks, 8 issues) and has retired a total of 59 findings. Of the 16 open findings, 8 are related to Project Management, 2 in Integration and Interface Management, 1 in Testing, 2 in System Design, 2 in Configuration and Development, 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.	Project Management
	No material update in the reporting period.	

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	Progress
 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.	

Recommendations	
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.		
4/	IV&V remains concerned that the lack of in-person interactions may lead to reduced project team productivity.		

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

Recommendations	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



i	#	Key Findings	Criticality Rating
7	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.	H

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.	

Recommendations	Progress
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

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

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 rework. DHS product owners and SMEs have raised concerns about a lack of a cohesive design and a user experience that is less than satisfying. DHS users are citing examples of not being able to achieve desired tasks or achieve tasks timely.	M

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
	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts.	
73	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.	

Recommendations	
ASI 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 scaled 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), manage changes, and regression test once updates are applied. 	In process
The project team work to establish strong governance over the utilization and maintenance of various components to simplify their use and monitoring.	Not Started
 ASI development team identify infrastructure components and techniques that are new to them and take action to 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

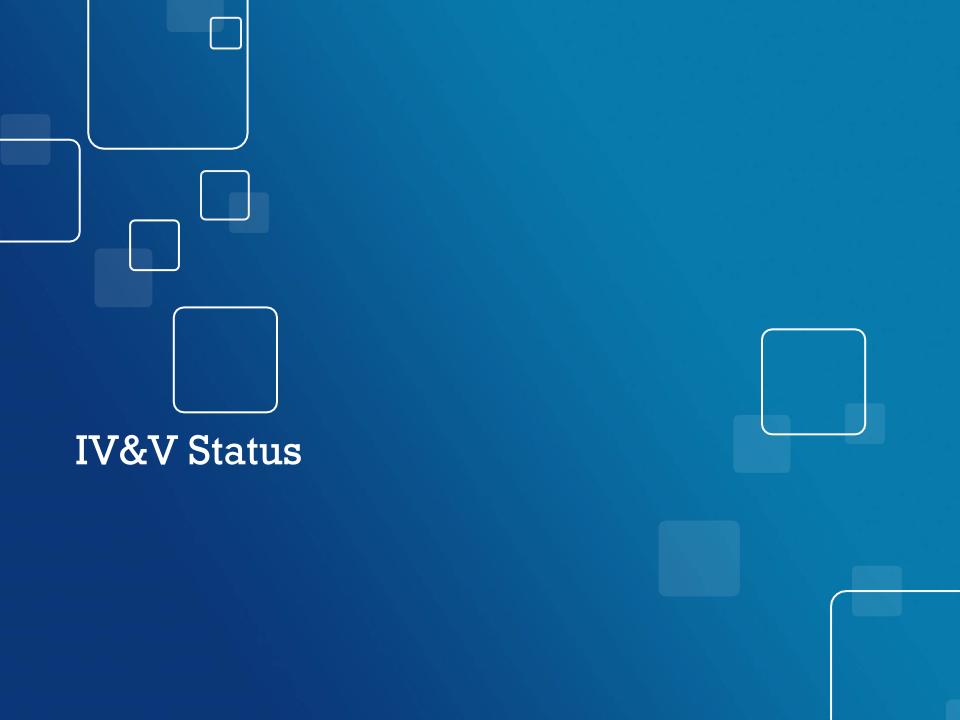
Recommendations	Progress
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process
 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

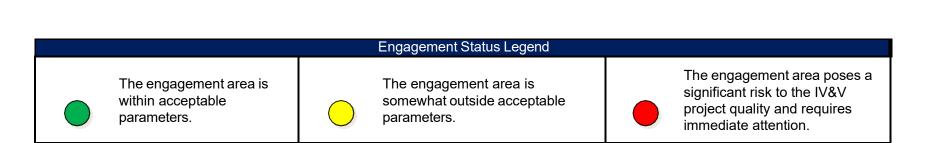
Recommendations	Progress
The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
 DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). 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 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				



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

<u>Additional Inputs – Artifacts</u>



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:

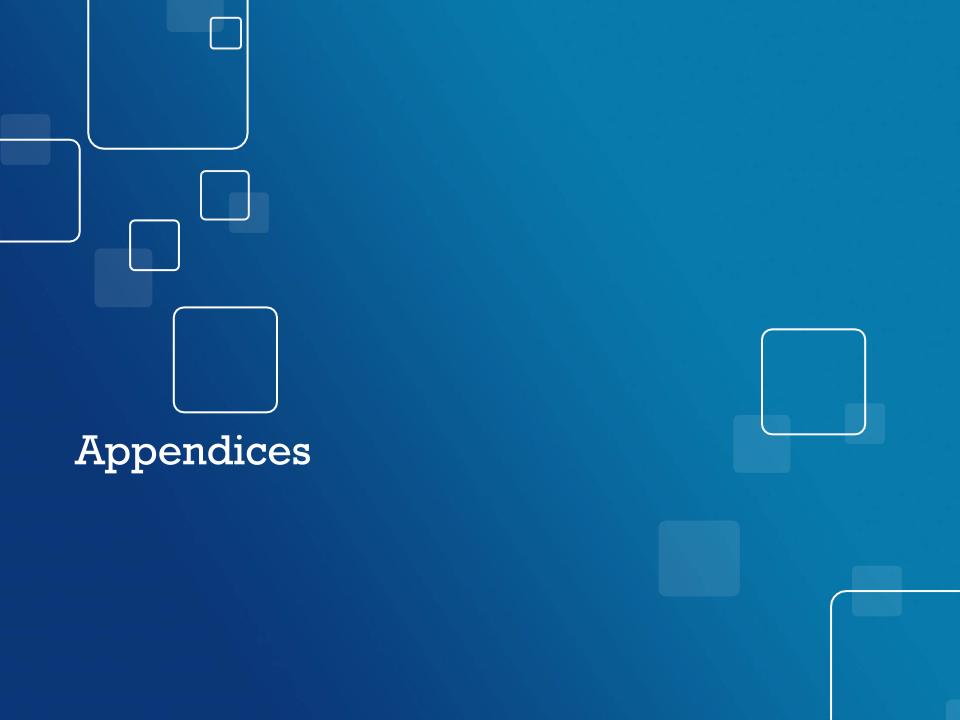
- 1. Weekly Platform Status Meeting 9/6/2022, 9/27/2022
- 2. Bi-Weekly BES PMO and IV&V Touch Base 9/1/2022, 9/15/2022
- 3. Weekly BES Dev Stand-up 9/7/2022
- 4. Weekly CMM Backlog Grooming Session 9/7/2022
- 5. Weekly BES Project Schedule Review Meeting-
- 6. IV&V Team Meeting 9/1/2022, 9/6/2022, 9/8/2022, 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





Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
	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.
	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



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



Appendix C – Acronyms and Glossary

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



Appendix C – Acronyms and Glossary

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

Appendix D – Background Information



Systems Modernization Project

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

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

Systems Modernization IV&V Project

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

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

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

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

Appendix D – Background Information



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

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

PCG's Eclipse IV&V® Technical Assessment Methodology

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

IV&V Assessment Categories for the BES Project

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

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

Ending Slide



Solutions that Matter

ID Finding	Identified					Analyst	Finding		
ITUE KEPOTTET Type 81 Lack of the skilled AST resources may reduce Michael Fors Concern	Date Lategory 9/8/2022 Project	Usservation DHS stakeholders and IVV have observed that working session productivity	A primary factor of project suggest is artiblishing a skilled	Request the SI explore augmenting their team with highly capable, expert-	event Honzon impact	Propagately Priority	Status	Status Update Unient Comments Vendor (10/4/22 × No material update in the reporting period.	omments
an project productively and quality of the BES design and lead to schedule delay.	projection Projection	has been hindered by some ASI forum members who may lack sufficient behave developened and analysis operfluirs. Incredisely, experience, still revel, and/or capabilities to assess with were quality and over all productivity of the control of the	productive, and high functioning team. If the ASI is not able to maintain this prive of team, project is studied and other project risks could recrease. The ASI recrease is the ASI is a totally and recrease the tap region and continue production of the ASI is a they attempt to compensate and expend additional efforts to assess or others are design augility and recrease the tap region militations are mer. If the ASI is unable to quickly regions the ASI recrease design quality cannot be effectively sourced. If charge design quality cannot be effectively sourced, if could lead to reduced user buy in and unexpected reverse that could impact the overall process.	level resources that can provide expert level orthware development. Lessenhips that could posterably scelerate has be project and reduce the burden or the SMEs. In this work following with the skin in their staffing efforcise to the staffing of the staffing of the staffing of the staffing efforcise. The SMEs efforts how some solidation shelp we provided, and key design decisions are properly writted by industry experts to ensure the best options are being presented to DHS SMEs.		s s m	Cpa1	оучуч к.г. по томогом вороше его от турк тогу, регосо.	
80 Development delays could negatively impact million. The project schedule and delay go live. Finding- 19.	6/9/2022 Configuration and Development	All reported development activities have been slowed at they have been usually to active and of maintain their expected development velocity. The ACIs working to produce a root cause analysis and remediation plant to the produce a root cause analysis and remediation plant to the produce and the produc	If the ASI smaller to schieve a velocity that resolutes them to meet planned microscop, scheduled delay may lead to a delayed system go by velocities. Failure to achieve a level of accuracy in estimating development tasks could be active a level of accuracy in estimating development tasks could be active to see the schieve and the schieve and the schieve active active and the active active active and the active active active and the active active active of these delays could be act to some ASI BAL lacking the expertise required to create system designs and specifications from the ASI BAL lacking the expertise interest of the activities and the developers could combine without his long to get acteriors of certification from the ASI BAL lacking the expertise interest of the schieve active ac	team resources strategically to effectively increase velocity. Note that adding additional junior resources may not be as effective as staffing additional expert-level development, analysis, and other resources. * Request the ASI effectively track and regularly provide DHS (potentially via the weekly DOI status meeting) with an accurate velocity (e.g., story points	immediate 1	3 3 Med	Open	10/3/372. The AS has amounted the departure of lay recourses that have grounded leadership and design quality assurance to the project. He which could further hander development productively. With the recent was oliopage, it is also that the productive of the project is the project which could further hander development productively. With the recent was oliopage, it is addressed to militage the trial. Call/2012. The ASI continues to ordeaved additional development recourser, stating they added 2 on whose and 2 off shorter development the trial. They also also speaks of choulded have been project that they recent term. They also may be paid to choulded have been project that they recent term. They also may be a project they also proposed time-frame. Neverwell also revised school is not brown. The ASI is delaying if it extracted the continues the project they also proposed time-frame. Neverwell are revised school is not brown. The ASI is delaying if it extracted the continues the project they also proposed time-frame. Neverwell are revised school is not brown. The ASI is delaying if it extracted the project is not proposed time-frame. Neverwell are revised school is not brown. The ASI is delaying if it extracted the project is not proposed time-frame. Neverwell are revised to the project of the project is not proposed time-frame. Neverwell are proposed to the project of the project is not proposed to the project is not proposed to the project in the project is not proposed to the project in the project is not proposed to the project in the project is not proposed to the project in the project is not proposed to the project in the project is not proposed to the project in the project is not project in the project is not project in the project in the project in the project is not project in the project in the project in the project is not project in the project in the project in the project is not project in the project in the project in the project is not project in the project in the project in the project in the	
79 Estarral vendor delays in development of Al Parguinum Finding: In the BES sub imagement system (Crest) interface have impacted the project schedule.	Interface Management	webhool, to be completed by (40/7/202. CL) reported that the webhool, development work would be done by (67/202. As of 05/35/202.), the ASI has not received any status from CA. The webhool is currently holding up the design of the CF44 – Manage CLI. Cata use case for Release 0.8.	Current (persously known as e-Richto) is a task management system developed by the Chappe and Innovation Agency (CA). The Department of Human Services (DRFI) uses the Current system to manage and create case and the Chappe and Control Carrent system to manage and create case and will send them to Current. Bit does not have the capabilities to manage or close the tasks. Bigibility works will client tasks, and the Supervisors of the Carrent system to carrent asks, and the Supervisors of the Carrent system to carrent tasks and the Supervisors of the Carrent system of t	relar/seponabilities and outcomes. Not applicable and completed. 2. Schodule recurring relently soft in Cit on some consistent communication between Disk, the ASI, IVV, and CIA. Completed. 3. The ASI provide text results from the task management integration to ensure that the interface works.		S 1 Med		material update in the reporting period. (I)(01)/2002 - 1061 Nas decided not to be tabilith an agreement with CAI (the tab management vendor) because LSG currently has a subscription that includes the BES requirements. In addition, DISS and the SAI has we established become lymenting with the task of the second subscription of the said of the second subscription of the said of the second subscription of the said of the sai	
76 Volunteer DFS resources loaving the Project Brad Mohina Finding- Re may lead to Sendul delays, lowered morals, and burnoud.	s ¥/2022 Priject Management	The Diff resources assigned to work with the ASI on the BIS Project, are advoluteders except on Resources are not indicated role satisfies the betammand have the option of returning to their previous operational roles at any time.	The replacement of DrS resources in project roles (e.g., tester and product owners)) is not guaranteed and Ords Fareby stated that on additional resources will be assigned to the set team. It is a risk to the reject that the additional resources will be assigned to the test team. It is a risk to the reject that the additional and the resource of the resource of the resource is a region of the ord resource is senight the Project. If additional Ords staff are provided, their training will add to the workloads of current DHS project resources.	more time for the DHS team members to dedicate time to the Project. • Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly.	mmedate	4 2 Med	Open	A SI/ADDC2 - With the BES Project and work stoppage, come of the Dist resource as significant event for the project are helping that intermits work. The work stoppage is a significant event for the project seam and the impacts to event and the project are related to the significant event for the project seam and the impacts to event and the significant event for the project seam and the impacts to event and the significant event for the project seam and the impacts to event the significant event of the significant event control. T37/3022 - No material update for this reporting provide. 7/8/2022 - No Nava, Dist added the following fine size of the BES Project - No Instrict Re Product Orders - A CAMA Product Chainer - Two SMR resources joined the team to support the standard they day and a significant size of the si	
74 The black of #EE Project scholarlis based on Payn Tan Finding - In account or emission deminishes effective glanning and resource management, which could result in face of the other pages, cost increases, and a late go live.	11/29/2021 Priject Usinggeneri	results that have not yielded improvement. Concerns with the structure,	de estimates for project schedule; another, are not accurate, this can had to construct schedule; arteger, insource not being equalable when reader, estable and extended, mashed activities, and general frustration which can lead to schedule delays, low qualify output, scope changes, and budget issues.	activity compared to past actual hours • Update as necessary and provide	immediate ,	d 4 High	Open	The State of the Control of the Cont	

ID VANOTAY	Finding	Identified	I NY ADOMINA	NUMBERANA	war-commonate on	NUMBER MORROR	mare wrongs	Analyst Brioriby	Finding	ATMIX IMAMA	I MART I COMPARTY	Wanner I ommoner
73. The planned list infrastructure is complex infossible to which could lief afficient to implement and lead to schedule/cost impacts.	Finding - Ris	10/28/2021 System Des	gin Corrent All Infrastructure plass include a significant number of capitacistical components that nake up a complex cloud infrastructure. Further, the Project Team havy the finalize components that will make up the BES infrastructure and the additional cash addition to Constitute of the BES infrastructure and the additional cash addition to Constitute and implement the planned complex environment remain unclear, and implement the planned complex environment remain unclear.	If the level of effort to implement and manage the complexites of the lexit instructural is not accurately accounted on an starfled by the ASI, the project could be met with unexpected costs and schedule delays. Delays in standing the composents being implemented could excertate the control of the control	- ASI clearly communicate the potential costs and schedule impacts to implement and markina the planned instructure. The Architecture process should include steps to provide a detailed impact of DISI architectural contribution and contributi	Neat several month	3	3 Med	Open	A)(A)(2022 - The Asia amounced the department of lay infrastructure in resources who have provided leadership to the infrastructure of efforts, which could exacerbate this risk. With the recent work stoppage, it is uncertainty to the infrastructure of efforts, which could exacerbate this risk. With the recent work stoppage, it is uncertainty to the council of the		
and costs of the Google Couch Platform (GCP) Charge Report (CR) may lead to usanticipated CR1 costs, schedule ebilgs, and for the need to reduce scope.		8/23/2021 Project Managemen	however, not all details were writted at that point is fines. In the July/August 2010 time from 10% and the Ast agent on how all Est environment or impairs and fine folials. Since them, he sough the base point and fine folials are sometimes to the fine of the sought and the first control of the first and fine folials are sought and the first control of the first and requisite the copy of which. The Est is being developed in OZ and OZ/ASI/Consistentify report they are working on the CR, however, it is not final.	maintenance of cloud environments from the ES to the ASI was included in the ASI/DHS SIAP Context Limendment flustlingted in April 2020. The decision to ringiste all BISS environments to the Cloud was made in the vice of the Context Context Context (and the Context C	when DHS will receive the GCP CR. 12/16/2021 Complete	ASSP	4	4 High	Open	A)(A)(2022 - The Dick Stransition of the BLS Project DID Activities will impact the CGP change requires. If Vivall implact on recommendations for his factor of the CGP change requires. If Vivall implact on recommendations of the CGP change requires and control of the CGP change requires and the CGP change and vival submit a formal document to India in Equation 2022. If Vival and Vival submit is formal document to India in Equation 2022. If Vival change and Vival submit is formal document to India in Equation 2022. If Vival change and Vival submit is formal document to India in Equation 2022. If Vival change is to the Project of India CGP. In East India India in Equation 2022 is vival to the CGP change of Vival CGP change 2022. If Vival CGP change is vival in CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work in CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete this work in CGP change and Activities in the schedule to complete this work. In CGP change and Activities in the schedule to complete the work of the CGP change and Activities in the schedule to complete the work of the CGP change and Activities in the schedule to complete the work of the CGP change and Activities in the schedule to complete the work of the CGP change and Activities in the schedule to complete the work of the CGP change and Ac		9/9/2021 - RAP - Roset of clarification. The of clarification is considered to the clarification of the SCAP agreement of the perspect would be perspect would be captioned to the Cloud. SCAP provided that one of the clarification of the in this Cloud and specifically that deployment would we let us the on-premise the consideration of the lowever, we did acknowledge that deployment would we for the consideration of scales of the scales of the deployment would we decision to move to GCF for production was made in July campaging the LMT, Production, and Disaster Recovery environments were scales and SCAP agreement or scales SCAP scales SCAP scales SCAP Scales SCAP scales SCAP SCAP SCAP
reduce the effect-veness of defect resolution			and the IB COOP has Deliverable, Section 3.2 establishes the flamework for the Configuration Management Plan, however, it remains unclear it sufficient progress has been found or flashishing CO of processes, selecting CO Modern (Sec. COMP), and complete good and found framework. The project Congenitarion of the Complete Congenitario of the Congenitario of the Complete Congenitario of the Congenitario o	includes tools that may provide a level of automation for Configuration Management that may reduce errors and should provide the project team with accurate, dynamic and timely information on some of the configuration	OPRI+ 34 slather to plain for configuration management a documental miles 60 PRins, Factor 3.2 and called yields and/or any changes with the 6. AS validate plans for configuration management with this 3 and gave on a meetingful set of configuration time or setting they will track. 4 Project management tools and first two they are setting they will track. 4 Project management tools and first two to fund and procure a CN tool, sit enquired, to avoid any register impacts to be project. COMPETED + identify the OSF PCC for the Configuration Management Activates that are set of the Configuration Management Activates that are activated to the configuration Management Activates that are activated to the configuration Management Activates that the confi	ASSP	2	2 Low	Open	09/29/22. The ASI amounced the departure of lay resources including their lead Chi strategies, where loud describes their size. With the recent work stoppes and glasmed reassignment, 10 ½ is not aware of the glasm to the strategies of the control of the control of their strategies of t		9/J/2011 - NPF - We see delivery - NPF - We receiving specific - I inquiries from the NW team on configuration and lawing conversations. We do acknowled by NPF do acknowled or processes in place on the proper for configuration management.
68 insufficient planning/decension of the BES Dustin-Heath Security Than services cannot provide the delay Security Than services are provided for the BES project to begin the Prior Phase.	Finding - Ris	7/28/2021 Security and Privacy	Over the last everal months, the BES project team has been working through the planning efforts to develop the \$1.35 excurpt Park and the door managing through ASS security Lead staffing changes. DNFS and the ASI agreed to modify the \$1.35 excury its mid-through table special control of the ASI agreed to modify the \$1.35 excury its mid-through table special control of the ASI agreed to modify the \$1.35 excurpt its mid-through table special control of the ASI agreed to modify the \$1.35 excurpt its mid-through table special control of the ASI agreed to the ASI agree	The ESE project must have a clear gain to diffine, implement, set, and walkated all Security of hirtory. Requirement, clear to disclose 1 and the project of his project of the project of	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	ASSP	4	S High	Open	10/27/20/22 - Since only one meeting was held between the Asi and DH 182 in Security teams prior to the work trappent, Vhia are material updates to report this month. The planned reassignment of the BEX DD work should conside the seperation ended for the work brappent security found and team. The planned reassignment of the BEX DD work should conside the seperation ended for the work security security security and team. In privary-focused workshops and technical reasons have a depth of perfective in NET 2002 3 and with experience a softening integration statements of System Security Plann (20%). The ASI will be changing the ASI and the properties when the ASI and the System (20%) and the properties and the properties and the plann (20%). The ASI will be changed the ASI and properties are the ASI and		9/9/2021 - RAP: The decision to move to GCP for deployment has divinen the need of GCP for deployment has divinen the need of the security plan per URS. The ASI is in the process of planning the effort to make three updates. The process of planning the effort to make three updates. Will be included in either the GCP change request we will be included in either the GCP change request we change request with a diddictional discussions additional discussions additional discussions.

D		Finding Identified	d						Analyst	Finding			
67 The American (1991)	Reporter	Type Date	Category 121 Testing	Usservation	Significance	Recommendation	Event Honzon	impact Propa	Dility Priority	Status	Scattus Upolate	Urent Comments	Vendor Comments
67 The Americans With Disa Section 508 compliance t		rinuing - NS //12/2021	rt resting	While R0.3 and R0.4 reported that Section 508 compliance had been successfully completed the ASI confirmed that there is currently no working	There is a contractual obligation and requirement for BES to be ADA compliant to obtain State and Federal funds for the development of the BES.	1/31/2022 - The following recommendations will be evaluated for this finding The ADA tool meets contractual and project requirements	As soon as possible	. 3	3 Med	Upen	9/30/2022 - DHS issued a work stoppage, and no progress was made to move forward with purchasing the ASI recommended ADA compliance tool.		9/9/21 - RAP: The ASI
installed for the Project,				tool installed and that Section 508 compliance testing has not been	The ADA Section 508 intent is to make electronic and information	The ASI communicates a plan for ADA test execution The ASI					8/30/2022 - No change in status. Walting on DHS acceptance/approval to		has invited the IV&V to
significant rework.	WIICH Hay cause			performed. This risk has been discussed with the ASI over the past several	technology accessible to people with disabilities (e.g., color blindness,	communicates how the tool will be used to report compliance and non-					move forward with purchase, installation, configuration, and		make contact with the
agreedit rework.				months, but there have been evidence of results to-date. The ASI did state	vision and hearing disabilities), in a way that is comparable to the access	communicates now the tool will be used to report compliance and non- compliance and how non-compliance will be addressed/corrected The					move forward with purchase, installation, configuration, and 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. TVV has not received	"all applicable State and federal policies, laws, regulations, and Standards.	the ADA tool execution and how to interpret the results. Superseded					and provided reports to DHS for their review and approval. The final steps		the desk-top tool to
				any data to demonstrate the desk-top tool results nor if it provides coverage	including without limitation the Electronic and Information Technology	8/30/2021 - The ASI should gain DHS' approval on the tool selected after the					remaining would be the purchase, installation, and implementation of the		gain insight. To date,
				for all ADA compliance items.	Accessibility Standards associated with Section 508 of the Rehabilitation	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		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 development lead to
					Approach that states "The system complies with DHS branding standards as defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	communicate the plan for when the ADA compliance tool will be put into action, how the tool will report compliance or non-compliance, how non-					The ASI is expected to provide results of the testing to DHS when the trial phase is finished, and the report generated. 5/31/2022 - The ASI has		development lead to have further
					parts of Section 508 of the Americans with Disabilities Act (ADA),	compliance will be corrected, and how and when DHS/IVV will be provided					identified an accessibility compliance tool that will meet the needs of the		discussions on this
					nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	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.					Project and DHS has approved opening a firewall to facilitate a demonstration of that tool. The ASI completed a Proof of Concept for the		
					Guidelines from the 901 Handbook, and contractual obligations to adhere to						tool and now needs to 1) receive DHS approval to use the tool, 2) purchase		
					the Section 508 compliance guidelines (https://section508.gov/) there may be a significant amount of rework to the solution.						the tool, 3) configure the system to accommodate the tool, and 4) institute		
					be a significant amount of rework to the solution.						the tool into the delivery pipeline. 4/26/2022 - The ASI is evaluating four ADA testine 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		
	and coordination Michael Fors	Finding - Ris 1/21/2021	21 Integration and	The following planning and execution items have not yet been addressed	Interfaces is one of the areas where DDI projects often underestimate the	OPEN 5. Complete all MOAs and obtain approval. 6. Confirm testine dates with interface partners in writing. COMPLETE 1. Establish a communication	Q4 2021	4	1 Low	Open	BES application. To mitigate this risk, the ASI stated that problems identified 09/29/22 - No material undate. 08/26/2022 - The statuses of the firee remaining required agreements (DAGS, DLIR, HYCF) have not changed.		
with interface partners m schedule delays	nay result in		Interface	and documented by the ASI Connectivity is planned to utilize a presently	time needed to effectively manage all the tasks and activities to successfully	with interface partners in writing. COMPLETE 1. Establish a communication					remaining required agreements (DAGS, DLIR, HYCF) have not changed.		7/20/21 RAP - The ASI
scnedule delays.			Management	undefined ETS API Gateway; however, there is no evidence that details have been determined or documented in this regard There is little evidence of	implement data sharing. A clearly defined communication plan and schedule that includes the coordination, planning, and execution activities	plan for each interface partner for the duration of the BES DDI activities. 10/29 COMPLETE 2. identify and document all interface partners' contacts.					08/01/2022 - DHS executed the DPS agreement (MOA) on 07/20/2022. The statuses of the three remaining required agreements are as follows. The		7/20/21 RAP - The ASI 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		IV&V reassess the
				coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	addition, after planning has been completed, interface partners will have to	include milestone dates, coordination, and execution and share with the					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		severity of this risk in
				planning and execution tasks and activities, including those for interface	be available during interface implementation to ensure that the interfaces	interface partners. 01/04 COMPLETE 4. Determine which deliverable will					to the DHS Directors' office with feedback from BESSD and MQD.		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		has made the urgency
				approved, testing dates have been confirmed, and communications have been frequent.							the DLIR, DPS, and HYCF agreements. 05/31/2022 - There were no changes to the interface communication plans in this reporting period. There are 5		for tackling these tasks less than it was before
											to the interface communication plans in this reporting period. There are 5 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 interested parties. DAGS has not been drafted by DHS; DHS is in		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 management. IVV has opened a new issue #79 related to vendor		misunderstanding of the current state of
											development delays for the task management software. 04/28/2022 -		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
											because the interface will not be able to offer additional data elements		Progress
											which DHS needs. 03/29/2022 - There were no changes to the interface		recommendations, and it continues to
											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. 01/28/2022 - There were no changes to the interface communication plans		trend in the right direction. In regards to
61 Poorly executed JAD and		Finding - lts 11/30/2020			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	9/30/2022 - DHS Product owners and SMEs have raised concerns about a		
could lead to inaccurate d	design and rework.				some concern regarding the CMM Workflow JAD sessions, specifically; (1)	leading questions BAs should come to Day one of Design Sprint fully					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 M&V
				participation On many occasions the conversation needed to be driven by leading questions, as expected, but was instead - lead by business users -	workflow? (2) What improvements will be made in the new BES to support the users and clients? Incomplete or unclear JAD sessions with insufficient	knowledge about business process and approach for design based on JAD/JAR notes and other pertinent material The ASI to bring User					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
				leading questions, as expected, but was instead. lead by business users -	the users and crients? Incomplete or unclear JAD sessions with insumoent	JAD/JAK notes and other pertinent material The ASI to bring user					design sessions has resulted in improvement. The Senior BAS offer guidance		many facets of the delsgn process
				Too much pause time when participants did not know the answer to a question; several occasions where complete silence on the call for 30	support husiness requirements: as well as missing opportunities to improve	Experience (UE) designers to engage with DHS and review the currently built BES solution. Closed - JAD and design sessions should be lead by					to ensure the project team remains focused on the design. Unfortunately, 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 and related system design.	experienced senior BAs, with goals, objectives and results communicated to					continue for all BES design sessions. 7/31/2022 - Although the ASI has		up reviews, backlog
				workflow could be designed to ease/improve process for client		all participants. (additional Senior BA being added, rest of recommendation					implemented preparatory sessions for their Business Analysts (BAs) prior to		grooming sessions,
						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 process. (Closed 4/30/2022) - The ASI should back-track significant					ASI support admins are not always assigned to meetings, leaving the BA solely responsible to lead discussions and capture notes, update artifacts.		discussions are meant to have limited
						differences in design direction to determine the root cause to identify these					and capture action items. DHS requested the ASI to address these concerns		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					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
						Document process, to include the Design Sprint concept, should be clearly					prior to each Sprint. These pre-sprint sessions with BAs are starting to		main reasons: 1) IV&V
						defined and shared with all project team members. (Closed, 1/31/2022) - Invite IVV to all future design sessions and design sprints to allow IVV to					address the remaining recommendations. IVV will continue to observe and look for impactful results from these latest changes to the process.		does not always stay silent in discussions on
						observe and assess the effectiveness of the revised design processes.					5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use		design despite
						(Closed, 1/31/2022) - ASI and DHS should work together to vet the in-					Cases to build knowledge of common business processes, strengthening		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 noted in this month's positive finding. 4/30/2022 - The ASI is working to		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
											the migration of Senior BA to CMM team and providing additional training/onboarding for new BAs. Additionally, a System Analyst will		processes to more
49 Poor quality project delive	erables may impact Brad Molina	Finding - lts 4/16/2020	I20 Project	In April, four BI-10 design deliverables and one Interface Control Document	The staff time spent on reviewing deliverables is exceeding the plan for all	OPEN - ASI reviews its Quality Management Plan to ensure that the Project	Immediate	2	2 Low	Open	9/30/2022 - No work has been performed regarding this finding due to	06/30/2020 - New deliverables this month included BI-10 and BI-20. BI-10	
system design, testing art	tifacts and the		Management	deliverable were submitted for client review. There was an average of 85	project entities and has caused schedule delays due to the associated	is working within the guidelines of this Plan document. In particular, the ASI					work stoppage. 8/31/2022 - No material update for this reporting period.	was initially called back for quality issues, and the issues were corrected.	7/30/21 RAP - The ASI
project schedule.				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 insufficient level of detail, and a lack of understanding of the subject matter	produced and submitted for review, this can continue to result in	Project Quality, which states, ASI measures process and product quality by 1) selecting BES implementation process and product attributes to measure:					quality metrics, which will be addressed in the CAP. 6/30/2022 - No significant change to the status of this finding although ASI has assigned a		respond to this issue again when a material
				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	and testing activities, potentially unfulfilled functionality, and additional	 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
				the Project Issue Log for corrective action by the ASI. The ASI acted by	and testing activities, potentially unruffiled functionality, and additional schedule delays.	each component activity: 4) recording observed activity values: and 5)					The revised DDI process, in particular the decien corints is bringing more		IV&V. We also
				conducting an internal root cause analysis and provided DHS and IVV the		each component activity; 4) recording observed activity values; and 5) combining the recorded attribute values into a single number called a					The revised DDI process, in particular the design sprints, is bringing more 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					quality when measured by the lower number of comments in deliverable		rethinking of the first
						utilizing metrics to measure its process and product quality When the					reviews. IVV will validate this metric is fully documented in the Quality		recommendation
						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 published, IVV will re-evaluate this finding. 2/28/2022 - IVV continues to		IV&V that this is a low risk. The tone, tenor,
						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					the number of defects attributed to design remain low throughout Release		perceived by the IV&V
						7/30/2021 - ASI verifies that the information in design and testing artifacts					0.6 testing, the focus of this finding will be addressed. 1/31/2022 - Based		for a number of
						is kent in suns and consistent (closed 5/21/2022) - ASI perform a root cause					on ASI and DHS testing and defect validation progress. IVV's root cause		months now to be low.
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DHS testing and defect validation progress, IVV's root cause recommendation is complete. If remaining testing for all sub-releases in		months now to be low. 4/23/21 rap - The ASI
						is kent in suns and consistent (closed 5/21/2022) - ASI perform a root cause					on ASI and DHS testing and defect validation progress, IVV's root cause recommendation is complete. If remaining testing for all sub-releases in Release 0.6 shows a low cause of defects from design, the primary concern		months now to be low. 4/23/21 rap - The ASI team agrees that the
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DHS testing and defect validation progress, IVV's root cause recommendation is complete. If remaining testing for all sub-releases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of		months now to be low. 4/23/21 rap - The ASI team agrees that the full embrace by the
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DMS testing and defect validation progress, IVV's root cause recommendation is complete. If remaining testing for all sub-releases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 testing should provide clarity on overall defects, specifically hotse related to facising. Results consistent with placeary completed SVP.		months now to be low. 4/23/21 rap - The ASI team agrees that the full embrace by the project of the Confluence tool has
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DHS testing and defect validation progress, INV's root cause recommendation is complete. If remaining testing for alls whereleases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 sterilip should provide charty no overall defects, specifically on those related to design. Results consistent with already completed SSP testing for Release 0.6 could address the scope of this finding. 11/30/2021.		months now to be low. 4/23/21 rap - The ASI team agrees that the full embrace by the project of the Confluence tool has improved the
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DHS testing and defect validation progress, INV's root cause recommendation is complete. If remaining testing for alls whereleases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 sterilip should provide charty no overall defects, specifically on those related to design. Results consistent with already completed SSP testing for Release 0.6 could address the scope of this finding. 11/30/2021.		months now to be low. 4/23/21 rap = The ASI team agrees that the full embrace by the project of the Confluence tool has improved the deliverable
						is kept in sync and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with DHS and IVV in attendance to determine the source of the					on ASI and DMS testing and defect validation progress, IVV's root cause recommendation is complete. If remaining testing for all sub-releases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 testing should provide clarity on overall defects, specifically hotse related to facising. Results consistent with placeary completed SVP.		months now to be low. 4/23/21 rap - The ASI team agrees that the full embrace by the project of the Confluence tool has improved the

Figure 1 was a was	ID ISSE	Keporter	Finding I	dentified Date Category	Upservation	Menticance	Kecommengation	Event Honzon	Impact _Hoo	Analy: paperty Priorit	Finding Status	STATUS LIDIGATE	Lient Comments	vengor comments
Part	47 The COVID-19 pandemic and the related	Michael Fors F	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.	- Tollinging
For the property of the proper	"stay at home" order could hinder project			Management	home" order that has reduced state departments' ability to be fully	hindered, not only by working remotely but also by the need to focus on	mitigation strategy and plan that is reviewed regularly and revised to					may lead to reduced project team productivity. 08/30/22 - No material		7/30/21 RAP - The ASI
The state of the s	activities and negatively impact the project schedule and burdeet				runctional as the large majority of state workers will be required to work from home/remotely at least until the end of May and some officer may be	delivering services to beneficiaries. Planned key activities such as design sessions may be facilitated remotely which may impact the quality of the	address the current state of the COVID-19 threat and related impacts Send broad communications to stakeholders to assure clear understanding					update for this reporting period. 07/31/22 - No material update for this reporting period. 06/30/22 - The ΔSI has stated they have removed the		agrees that COVID at this time is likely a low
The second secon	screens and badget.				completely shut down until that time as well. Unclear if the order will	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					vaccination requirement for working in person and are encouraging staff to		risk to both schedule
Part					extend beyond that date.	likely be conducted remotely until this crisis passes. The DHS project team	clarifying communications as to what will remain the same Project					spend time in the office. DHS team members are still not required to work		and budget for the
						state could experience a significant loss of revenue due to COVID, which	for meetings to converse Consider in-person meetings for critical design					05/31/22 - The ASI and their subcontractor are making efforts to increase in-		the delta variant. The
Particular with the control of the c						could lead to DHS budget challenges. If the state/DHS institutes a hiring	sessions if DHS and ASI COVID protocols allow. CLOSED - Continue to make					office/in-person work which could help to increase productivity and		ASI team continues to
Particular with the properties of the properties							and tools and continue to assist stakeholders with becoming highly							maintain social distancing in the office
Part						could be further constrained. Unclear if the state budget challenges will	functional with remote access technology (e.g. MS Teams/Skype)					rolled back most COVID mandates this month, however, most individual		in line with State
Property of the content of the conte						impact overall project funding.	Complete - Update the OCM Plan to include any new activities or updates to						1	
Part							the short and long term Complete - Explore options for freeing up key					foreseeable future. IVV recommends DHS consider strategically requesting in-		essentially reached the
Part							BESSD SME's to work on the project Complete					person meetings for discussions that can be significantly more productive in		new normal in
Part												person. 2/28/22 - The State of Hawaii is planning on eliminating most COVID	l :	
Part												design and other sessions, if the Project elects to increase in-person meeting	5.	resources travelling
												1/31/22 - The ASI has reaffirmed that remote		and more conference
Part												meetings are a less effective form of communication than in-person meetings and therefore. COVID continues to have a negative impact on the		
Part												quality of some project activities, albeit difficult to quantify. 12/31/21 -		the lack of in person
Part												Though Omicron COVID cases are surging, the project has indicated they do		meetings. In our off-
Part												will materially impact the project. 11/29/21 - The ASI has transitioned		shore office, we still
March Marc												their team from working remotely to primarily working in their Honolulu		
Part		Ryan Tan F	Finding - Iss		As reported in various project meetings, several key DHS PMO, BES and ASI	The key resources leaving the BES Project provide knowledge and history of	2/28/2022 - DHS consider other options (Contractors, State employees	ASAP	3	5 Hgh	Open		02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality rating	g 4/23/21 RAP - From
Part	cause gaps in knowledge transfer and			mungunun	next few months or have already transitioned off the project. While there	of consistency and continuity to the extended project team. This experience	difficulty in finding permanent hires. 5/31/2021 - DHS continue to work					remain unfilled. 7/29/2022 - DHS has received minimal applications for the	Responsibilities to the DHS team on January 29, 2021. (Gary provided the	
Part	leadership on the Project.				are plans and actions being taken, a formal transition/succession plan has	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
Part					not been documented. In January, the ASI did announce and introduce an interim Project Manager, but a plan for a permanent replacement is not	pianning errors for BES Maintenance and Operations activities. Additionally, as per the budget, DHS stated if they are unable to fill these	tnese positions In progress. The state should document a transition plan for the project and PMO resources as identified in the RFP (reference RFP)						uz/s/zuz1). us/30/2020 - Mark Choi is becoming more involved in the project. Involved in Arch decisions and PM decisions around tool sets	or the BES project have provided little
Part					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
Part						the \$37 million needed matching funds for continued development of BES.							have no insight into other DHS staffing.	project. At this point,
Part							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
Part							Eligibility Solution Project Staffing'.) - Closed					unfilled. However, some PMO responsibilities are being addressed through		been closed and the
Marked M												existing resources. For example, the contracted DHS PM has filled in		
Part												No material updates for this reporting period. 3/31/2022 - DHS continues		hands from DHS. We
Part												to recruit for these positions but received minimal interest to-date.		recommend that the
Part														
Part												positions are being viewed, as of this date, there has only been one		and severity of impact
Part												application. 1/28/2022 - No material updates in this reporting period.		and lower the overall
Part												12/30/2021 - No material updates in this reporting period. 11/26/2021 - No material updates in this reporting period. 10/31/2021 - No material		rating for this risk.3/3/2020 - The AS
The standard services of the standard services and standard services are standard services as the standard services are standard ser												updates in this reporting period. 9/30/2021 - The BESSD Administrator.		PM stated the Project
Part												serving as the interim DHS BES Project Manager resigned from DHS. To		Coordinator position is
The contest production contest p												Project Manager with a contractor possessing extensive BES project		
2 Notes of the property of the control of the property of the												experience. The Assistant BESSD Administrator will provide an active		3/9/2020, transition
2 Notes of the property of the control of the property of the												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.
Accordance of the second continue of the seco	29 Uncertainty and/or a lack of communication	Michael Fors F	Finding - Iss	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		06/30/2020 - Combined application is still planned. App still not finalized by	
In provide digit will be all the class of the fire of the provide beautiful to class of the provide beautifu	around long term architecture decisions			Management	and socialized to the project. For example, the ASI and DHS have stated that	inclusive of all known future solution plans as possible. As an example, if	Deliverable with additional details as they become available and with any					material update for this reporting period. 7/31/22 - IVV remains concerned	DHS. From Arch perspective, we are building in Liferay. Future Integration	n 4/23/21 rap - The ASI
In company in female in the property integrand to the property integra	could impact the project budget, schedule, system design, and planning decisions				they have reached agreement that the project will move forward with implementing two Siebel instances (one for KOLFA, one for RES), but this is	KOLEA and BES are to move to a single instance of Siebel in the future, planning for that integration should be incorporated into the project now. If	architectural changes are finalized Complete - DHS should finalize the Portal strategy and implementation details and clearly communicate out to					with the lack of clear communication around the planned configuration management tool and its intended use. DHS prefers Service Now but it is	of the portals is still to be determined, but is not more complex than originally planned for data sharing. If change is made to Adobe, this would	and DHS continue to
And Configuration Interpretation (Configuration Interpretation (Configuration Interpretation (Configuration Interpretation Int	-1				not currently reflected in the project change log or the project decision log.	such significant future changes are not planned for now, the project is likely	stakeholders and project teams. Complete 3/31 - The Project should					currently not funded, and IVV is unaware of contingency plans in the event	require a CR.	for the two portal
selection of the comment of the property of the propert					It remains unclear if the details of the rationale for this decision or the plan	to see increased complexity, rework, and costs when integrating the two	continue to vet possible architectural change impacts to the platform (e.g.,					Service Now funding is not approved The project is currently assessing the		vision. We expect that
See						systems in the future.								
the part of the pa					whether when/if all environments (including KOLEA and BES production)		perform due diligence in any recommendation for foundational architecture					that the move to Revision 5 and potential impact to the project architecture		this reporting period
The Property of section of continue and cont					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
see the first of t							The Project should continue to ensure communication between					technology improves or the cloud provider(s) make changes and that some		refers the IV&V to our
Register of the Park of the Pa							development leads and architecture leads to assure optimal collaboration					architecture decisions have yet to be finalized (e.g., use of Splunk vs.		
Figure 1. Figure														regarding
A professional programment of the company of programment of the company of the co							communication between the architecture team and the rest of the project					Further, the Project has previously stated their intention to utilize		From our perspective
List deflewy of project deliverable has been seemed as the service of the service							team to assess impacts of architecture decisions to the Project.					ServiceNow (SN) for Configuration Management (CM), however, it remains		all necessary actions
Signature Sign												used, how it will be licensed, division of responsibility between the		are complete. If the IV&V does not believe
Late delivery of project deliverables has been provided as a fine of project deliverables has been provided as a fine of project deliverable has been provided												ESI/DHS/ASI, and the status of funding for licenses. 5/31/22 - The ASIs		it is Complete we
4 A VALVISION - More Communicating and authorized for special for size and continue of the point of size and continue of the size and continue of the point of size and continue of the size and continue												addition of resources including backfilling of key positions may help to		
Late deliveny of project deliverables hat case schedule dispose. 1. Late deliveny of project deliverables hat case schedule dispose. 2. Late deliveny of project deliverables hat case schedule dispose. 3. Late deliveny of project deliverables hat case schedule dispose. 4. Late deliveny of project deliverables hat case schedule dispose. 4. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late deliveny of project deliverables hat case schedule dispose. 5. Late delivery of project deliverables hat case schedule dispose. 5. Late delivery of project deliverables hat case schedule dispose. 5. Late delivery of project deliverables have deliverables. 5. Late delivery of project deliverables. 5. Late delivery of pr												evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS.		
Lie delivery of project deliverables has a figure of project deliverables has a figur												4/29/22 - The ASI OCM team is developing a communication plan for		
List delivery of project deliverable in Nagration 1, 17,207 to 1, 17,2												walkthrough with the project team and videor prepared for DUS		refine the final plan
2 Let delivery of project deliverables but No. 1 Annual Project deliverables between the project deliverable but No. 1 and object to the deliverable for the project deliverable but No. 1 and object to the deliverable for the project deliverable but No. 1 and object to the deliverable for the project deliverable but No. 1 and object to the deliverable for the project for the project deliverable for the project for the published for the												stakeholders. 03/31/22 - The ASI has onboarded a new Lead Architect who		for the two portal
Secrifical, several desided for project deliverable howered mount designed flower posts. The estimate for project deliverable hower mounted and the fragment of the project has a seminar project secretary and the project has a seminar project has a project secretary and the project has a seminar project has a	2 I stadeliums of project delicembles b	Pinn -	Sinding to 1	1/20/2010 014	Based upon the project reheatule detect as the fact further and	Late deliverables can lead to schedule because and the second	IN DOOGDESS Describe not use bouring a serviced beautiful and and	TDD	-	2 ***	0	will be responsible for managing the system infrastructure which should		
Finite (PMF), which is the formal document that is used to manage the execution of the project. In some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, the project is a min boal restrict the weekly practice of reporting approach of the size of the project in some inflance, the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of th		rojati E	ung : 85 1	Management	specifics), several due dates for project deliverables have been missed. As of	deliverables may cause significant disruption to schedules or delavs.	monitoring and analyzing deliverables that may impact the critical path	100	3	3 fixed	upen	deliverables. IVV will continue to monitor this finding once the BES Project		will continue to refine
Finite (PMF), which is the formal document that is used to manage the execution of the project. In some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, this risk may be compared by a best of the project in some inflance, the project is a min boal restrict the weekly practice of reporting approach of the size of the project in some inflance, the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of the project is a min boal restrict the weekly practice of reporting approach of the size of th	,				the date of this report, these deliverables include the Project Management	***OLD***Without a PMP that depicts all Project Management processes,	COMPLETE 5/31/2021 - When the revised schedule is published the project					resumes. 8/30/2022 - The ASI is behind schedule with development		the published schedule
a backing of Poliverside Expectation Documents (DEC) requiring approar and acceptance from the State. Sent of the State o					Plan (PMP), which is the formal document that is used to manage the	the Project can suffer unplanned consequences in scope, schedule, cost, and	team should restart the weekly practice of reporting actions being taken for							
revised schedule against which project deliverables can be managed. project deliverables are delivered late, not critical path activities do not charge repairst for the signature of the celebration of the commendation. Any recommendation. Any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation of the project schedule based in any recommendation. Any recommendation of the project schedule based in any recommendation					a backlog of Deliverable Expectation Documents (DED) requiring approval		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
the estimating process to determine if charges should be made to reduce the number of the task and or croducts or class analysis to determine and address the root cases[1]. Cooked \$213,2020 Recommendations; An in the contract of the reduce					and acceptance from the State.		revised schedule against which project deliverables can be managed.					project deliverables are delivered late, and critical path activities do not		through the final
the number of list tables and or conducts a root cause analysis to determine and address the contractable). Comed \$2/1/2000 Recommendations. the state of the contractable of the contrac							by sur zuzu Recommendation - IVV recommends the project team evaluate the estimating process to determine if changes should be made to reduce					appear impacted when this happens since they are not dependent on those deliverables. For example, development delays found in Finding #80 do not		change request for the ATC which is nearing
and address the not cause(i) Closed \$17,12700 Recommendations - deliverables are minimal during this stage of the Project as opposed to the Recommendation of the R							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
project schedule to address the access instended by Dies. project schedule to address the access instended by Dies. the ASA, and DVI to unique the Related of Inconsist instended. Conded - the ASA, and DVI to unique the Related of Inconsist instended. Conded - the ASA, and DVI to unique the Project in ASA is reviewed in the ASI to unique the project in the ASI to unique the project in ASI and the ASI to unique the project in ASI and the ASI to unique the project in ASI and the ASI to unique the ASI and DVI to the ASI							and address the root cause(s) Closed 8/31/2020 Recommendations; -					deliverables are minimal during this stage of the Project as opposed to the		the recommendations
the AS, and NY to Include the Release AI Lessons larendsCound is reportedCound in the AS, and NY to Include the Release AI Lessons larendsCound in the Secretary of the Secretary of Deck and the AS of Including and the Secretary Flora obligations (E. 20/2002.). The is should be the Secretary Flora obligations (E. 20/2002.). The project schedule and be 31 Security Flora obligations (E. 20/2002.). The project schedule and be 31 Security Flora obligations (E. 20/2002.). The project schedule and be 31 Security Flora obligations (E. 20/2002.). The project schedule and be 31 Security Flora obligations (E. 20/2002.). The project schedule and security Flora obligations (E. 20/2002.). The AS of Security Flora obligations (E. 20/2002.). The Associated (E. 20/200												pianning/initiation stages where deliverables directly impacted subsequent activities. Given the reduced impact this finding has on the Project TVV is		Recommendation #1: Based on progress
project schedule basedine. Compiler. Establish the process for on going project schedule basedine. Compiler. Establish the process for on going and conduct meetings to address that may impact the critical path as expensed process for one going and conduct meetings to address that activities. Management table going of the Project Management Table (Red). Compiler activities may not impact the critical path, they may impact ASI and ESS project activities may not impact the critical path they may impact ASI and ESS project activities may not impact the critical path they may impact ASI and ESS project activities may not impact the critical path they may impact ASI and ESS project activities may not impact the critical path activities may not impact the critical path activities may not impact the critical path activities may not implicate the project activities may not impact ASI and ESS project activities may not impact the critical path activities may not implicate the project activities may not impact activities may not impact ASI and ESS project activities may not impact ASI activities may not activities may not impact ASI activities may not impact ASI activities may not activities may not impact ASI activities may not activities							the ASI, and IVV to include the Release 0.1 lessons learned Closed -					lowering the criticality rating to 'Medium'. IVV has separate findings for the		made to date, the ASI
schedule management and weekly updates, utilizing the Schedule Management Load weekly updates, utilizing the Schedule Schill Load on the Project Management Plan (Biol O). Compilet Activities may not impact the circle plant, the say should be special schedule to tadd ess the schill load of the project schedule to tadd ess the schill load of the sound to the s							Establish the process for DHS and the ASI to mutually agree to the revised					BI-5 Project Schedule and BI-13 Security Plan deliverables. 6/30/2022 - The		is hopeful, that we can
Management sub-plans of the Project Management File. (96.4) - Compilete activities may not impact the critical path, they may impact ASI and DISS ### STATE Compiler ### STATE ### STATE Compiler ### STATE ###							schedule management and weekly updates, utilizing the Schedule					and conduct meetings to address late activities. Although some late		the ATC change
\$31/2020 - Insilize the updates to the project schedule to address the outstanding terms (they need additional time to to the unplanned work. The outstanding terms (they need additional time to to the unplanned work. The published by the outstanding terms (they need and 10, but only 1) and 10, but they 10 and 10, but they 10 between the published by the outstanding terms (they need to the ASI to reviewing 4. Project schedules, they need to the ASI to reviewing 4. Project schedules, they need to the ASI to reviewing 4. Recommendation x (income additional science, Additional, but they need to the associate, but they need to the associate tof the associate to the associate to the associate to the associat							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
Establish the process for ICRs, and the ASI to multium's gare to the revised project schedules, Count of \$21/2000. Add at lasks that has been remoded and 1,0 ut only 1,0 impacting the critical gath. The ASIs reviewing project schedules, Count of \$21/2000. Add at lasks that has been remoded and the remoded and actions, Additional, based on late activation, and considerable of remoded and performed in the interior schedule. Count of the remode activation activation, addition, based on late activation, and considerable country and the remode activation activa							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
project schedule basedine. On 2474/2002-064 sit six short be seen remediation action. Additionally, based on late activities the schedule, Recommendations. Closed remediation actions. Additionally, based on late activities the schedule, Recommendations. Closed remediation actions. Additionally, based on late activities. The respect The team has a straight activities. The project of the schedule of their supplications. The project is straight activities and the project of the project of the schedule of their supplications. The project is straight activities and the project of the proje							Establish the process for DHS and the ASI to mutually agree to the revised					and 10, but only 10 is impacting the critical path. The ASI is reviewing		
performed or planned to be performed in the interim schedule. Closed the Project is updating the schedule further. 5,731/2022. The Project The team has 5/30/2020 - effects 9,731/2020 in 46x 16x 19,700 the 40x 19,700 th							project schedule baseline Closed 3/31/2020 - Add all tasks that have been					remediation actions. Additionally, based on late activities in the schedule,		Recommendation #2:
interim schedule. IVV recommends that the ASI complete the Project Although the schedule has not been approved, the ASI continues to monitor other week schedu							performed or planned to be performed in the interim schedule. Closed					the Project is updating the schedule further. 5/31/2022 - The Project		
Management Flan deliverable, work with Designal for I/or neview and exist a project activities that may impact be a project activities that may impact be a project activities that may impact be a project and pure high project and proj							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
needed, and attain approval of the PMP. This will help ensure that all address late tasks. The ASI has reported delays in development that may tracking actions be							Management Diag deliverable work with DUS and BU/ for review and edit as					project activities that may impact the critical path and conducts meetings to		meetings and is
processes within the project management entity are thoughtfully and Impact the project schedule. 4/28/2022 - The Project continues to conduct talen on late work							needed, and attain approval of the PMP. This will help ensure that all processes within the project management entity are thoughtfully and					address late tasks. The ASI has reported delays in development that may impact the project schedule. 4/28/2022 - The Project continues to conduct		tracking actions be taken on late work on