

#### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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November 17, 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 <a href="http://ets.hawaii.gov">http://ets.hawaii.gov</a> (see "Reports").

Sincerely,

Douglas Murdock (Nov 17, 2022 10:53 HST)

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: October 1 – 31, 2022

Submitted: November 15, 2022



#### Overview

- Executive Summary
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# **Executive Summary**

#### **Executive Summary**



The transition of the BES Project to the new ASI was the focus of the DHS and BES Project team in this reporting period. While completion of the transition by the November 10, 2022 target date is on-track, IV&V anticipates that the new ASI will gain a better understanding over time of the BES capabilities/functionality built by the previous ASI.

Since the BES project was officially placed 'on hold' to allow for the transition to occur, most of the IV&V findings do not have material updates this month. As the project re-starts, the IV&V findings will be updated. DHS and IV&V were pleased to hear the new ASI plans to conduct an assessment of the BES tools and architecture. IV&V would further suggest that this is a good time to step back and identify other actions that may benefit the BES project as it restarts, including:

- Proactive and comprehensive project management The BES project has several open IV&V critical findings about the
  management of the BES Project and the lack of a realistic project schedule. The new ASI has the opportunity to apply
  lessons from the past four years and provide strong project management resources and tools that lead to a successful
  project.
- Project staffing The lack of adequate ASI staffing levels and the level of experience of ASI staff has been a significant
  contributor to BES Project delays as reflected in several open IV&V findings. DHS and the new ASI should conduct a
  staffing assessment to ensure that the proper staff with the required skill sets for the BES architecture and solution are
  assigned to the BES project.
- BES solution usability –Ensuing that the BES solution is easy to use for clients and DHS users will allow services to be
  delivered effectively. DHS BES project team members have expressed, and IV&V has documented in our findings the
  concerns that the BES solution lacks an overall cohesive design to include ease of usability. To address this, the new
  ASI has begun work to develop a BES process model to identify areas that may be adjusted to align with the original
  BES vision.

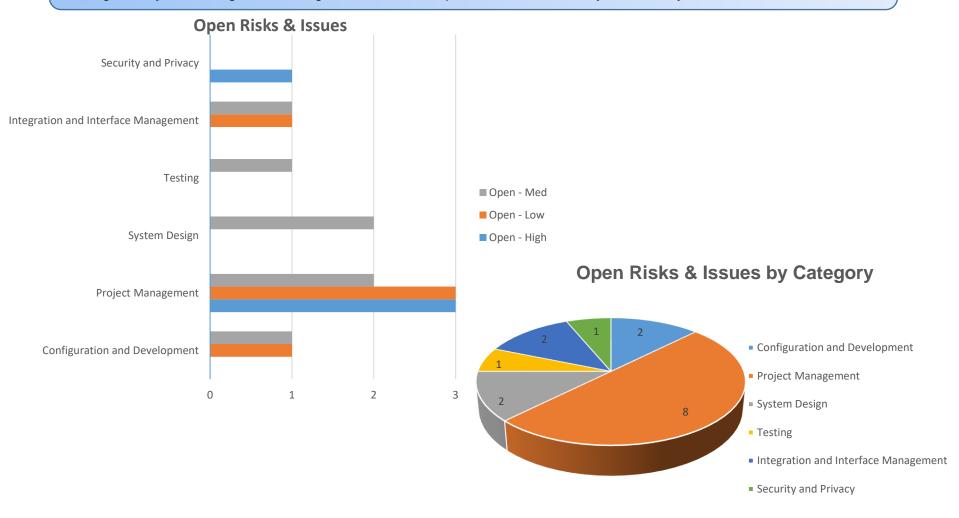
# **Executive Summary**



Aug	Sep	Oct	Category	IV&V Observations
Н	Н	Н	Project Management	DHS has replaced their contract Project Manager, and the former PM remains available to the BES Project as needed. The new ASI has added a new Project Manager with significant DHS experience. The new ASI and DHS are planning a new approach and methodology to complete the BES project, and IV&V waits to review the details.
M	M	M	System Design	DHS management has communicated a high-level vision for completing the BES project that will deliver functionality to BESSD sooner. The new ASI is reassessing the BES design and architecture to best align with this vision. Additionally, DHS project team members have identified and documented design concerns they want addressed as the project resumes.
M	M	M	Configuration and Development	The Project restart under the new ASI's leadership presents an opportunity to adjust/improve the development approach. IV&V concerns with the accuracy of development estimates and the resultant schedule delays that previously occurred will inform our review of the new ASI's planning.
M	M	M	Integration and Interface Management	The timeline for integrating the BES project components and the various interfaces is included in the Project restart planning that the new ASI started.
M	M	M	Testing	The approach, staffing, and tools used for testing the BES application are all under review by the new ASI and may change.
Н	Н	Н	Security and Privacy	The new ASI has not yet named a new Security Lead. IV&V remains concerned about the amount of security and privacy work outstanding.

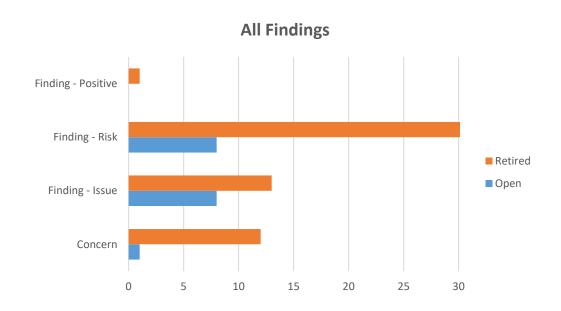


As of the October 2022 reporting period, PCG is tracking 16 open findings (8 risks, 8 issues) and has retired a total of 59 findings. Of the 16 open findings, 9 are related to Project Management, 2 in Integration and Interface Management, 1 in Testing, 2 in System Design, 2 in Configuration and Development, 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 skilled ASI resources may reduce project productivity and quality of the BES design and 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
	This finding was raised in relation to the prime contractor and subcontractor staff. No work has been performed regarding this preliminary concern due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess this finding once the BES project restarts.	

#### 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 BES Project is being assigned to the new ASI and transition activities are underway therefore no work was performed on the BES deliverables in this reporting period. The ASI transition is planned to complete in November, IV&V will provide an update on this finding when the new ASI begins work on the project deliverables.	M

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



#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	Given that the project is transitioning to the new ASI, it remains unclear what changes the new ASI will make to the planned infrastructure and other technologies being utilized. IV&V will update the recommendations to include any infrastructure changes the new ASI may adopt, if any.	L

Recommendations		
<ul> <li>The Project should continue to vet possible architectural change impacts to the platform (e.g., ADA, Configuration Management tools), M&amp;O, MQD, and BES systems before finalizing architectural decisions.</li> </ul>	In process	
<ul> <li>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.</li> </ul>	In process	
<ul> <li>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.</li> </ul>	In process	
<ul> <li>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.</li> </ul>	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.	
43	No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	Н

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 position if there is ongoing difficulty in finding permanent hires.	s 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.	
47	No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	

Recommendations	Progress
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>Project leadership continue to encourage independent phone conversations to enhance and accelerate communications, and for team members not wait for meetings to converse.</li> </ul>	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.	
43	No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	

Recommendations	Progress
<ul> <li>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&amp;V has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality.</li> </ul>	In Process
<ul> <li>When the project restarts, resources be allocated to create a Quality Management Plan to help address this finding.</li> </ul>	Not Started



#	Key Findings	Criticality Rating
71	Issue – The lack of the final agreement on the scope and costs of the GCP Change Request (CR) may lead to unanticipated DHS costs, schedule delays, and/or the need to reduce scope.  DHS will now work with the new ASI to complete the GCP change request. IV&V waits to see the details	Н
	included in the change request, and whether our recommendations are addressed.	

Recommendations	Progress
<ul> <li>The ASI should document the current environment M&amp;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&amp;O.</li> </ul>	In process
<ul> <li>The ASI clearly document the scope of work and cost for the GCP CR during DDI and M&amp;O and provide to DHS for approval.</li> </ul>	In process



#	<b>#</b>	Key Findings	Criticality Rating
7	4	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.  A project schedule documenting post-transition activities and project execution activities of the new ASI has not been developed. IV&V will provide an update on this finding when the new ASI begins work on the BES	Н
		project schedule.	

Recommendations	Progress
<ul> <li>Using the available tools, review the current estimates to complete each activity compared to past actual hours.</li> </ul>	In process
<ul> <li>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.</li> </ul>	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
<ul> <li>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.</li> </ul>	In process
DHS and the ASI agree to a revised schedule against which project deliverables can be managed.	In process



#	Key Findings	Criticality Rating
	Risk – Volunteer DHS resources leaving the Project may lead to schedule delays, lower morale, and burnout.	
76	DHS BES project team members are actively participating in the transition to the new ASI. They identify and communication possible gaps and are highly motivated to ensure the start-up with the new ASI is successful. DHS BES project team members have expressed a need to fully understand the future direction of the BES project and how known issues will be corrected. IV&V will monitor the project restart planning and the DHS BES project team members participation.	M

Recommendations	Progress
Allocate more time for the DHS team members to dedicate time to the Project.	In process
<ul> <li>Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly.</li> </ul>	In process
Add cushion time to the schedule for unexpected project delays.	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	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 work has been performed regarding this finding due to the work stoppage and ongoing transition to the	L
	new ASI. IV&V will reassess our recommendations for this finding once more is known.	

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



#### Integration and Interface Management

#	Key Findings	Criticality Rating
79	Issue – External vendor delays in the development of the BES task management system (Current) interface have impacted the project schedule.  No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	M

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
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.  No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	L

Recommendations	
<ul> <li>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.</li> </ul>	In process
<ul> <li>ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.</li> </ul>	In process
<ul> <li>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.</li> </ul>	Not Started



#### Configuration and Development

#	Key Findings	Criticality Rating
80	Risk – Development delays could negatively impact the project schedule and delay go-live.  No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	M

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



#### System Design

#	Key Findings	Criticality Rating
	Issue - Poorly executed JAD and "design sessions" could lead to inaccurate design and rework.	
61	No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	M

Recommendations	Progress
The facilitator should use their expertise to drive discussions through leading questions.	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>The ASI to bring User Experience (UE) designers to engage with DHS and review the currently built BES solution.</li> </ul>	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 previous ASI was largely responsible for the infrastructure design and build out, these responsibilities are now transitioned to the new ASI. The previous ASI is performing knowledge transfer (KT) to the new ASI; however, IV&V is concerned that KT will suffer given the complexity of the infrastructure and that some of the new ASI resources appear to lack significant experience with some of the tools and techniques used. IV&V will reassess our recommendations for this finding once more is known.	M

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
<ul> <li>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.</li> </ul>	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
<ul> <li>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.</li> </ul>	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.	M
07	No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IV&V will reassess our recommendations for this finding once more is known.	

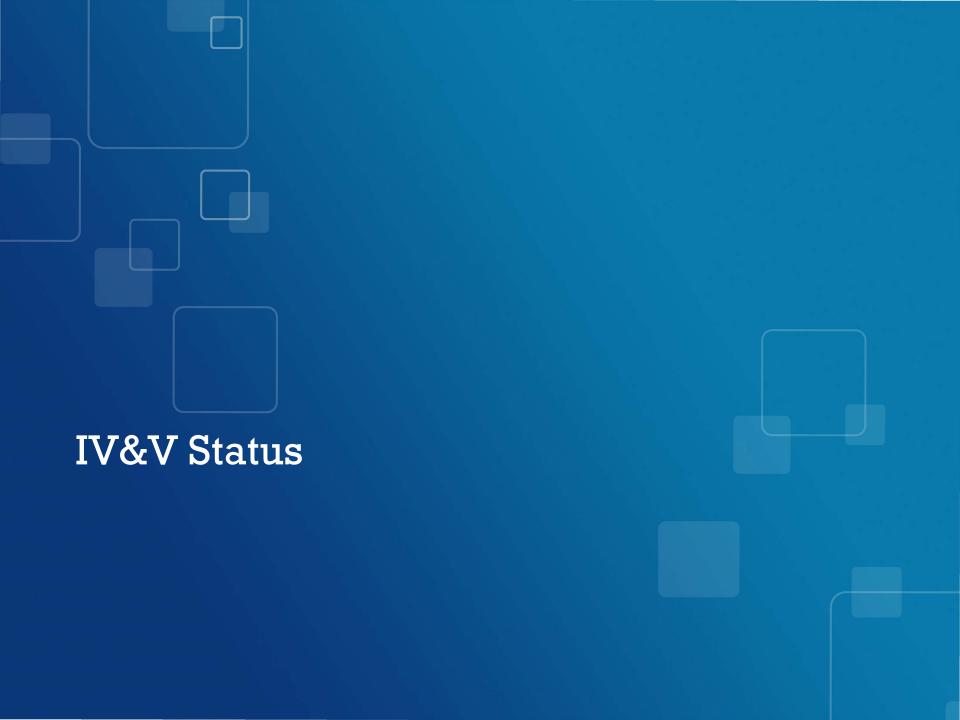
Recommendations	
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process
The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



#### Security and Privacy

#	Key Findings	Criticality Rating
	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.	
68	With the transition to the new ASI, the key position of Security Lead will be filled by a new resource. As of the reporting period end, this position remains unfilled. As the new ASI assumes the responsibility for the Project security and privacy tasks it is appropriate to revisit the IV&V recommendations and the tools used to document and track security controls.	Н

Recommendations	
The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
<ul> <li>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).</li> </ul>	In process
ASI add a Security Architect to the Project ASAP to assist with the Security Plan activities.	In process
<ul> <li>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).</li> </ul>	Not Started



#### IV&V Engagement Status



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

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

#### **IV&V** Activities



- IV&V activities in the October reporting period:
  - Completed September Monthly Status Report
  - Ongoing Review the BES Project Artifacts
  - 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 November reporting period:
  - Ongoing Participate is DHS and IV&V Transition Planning meetings
  - Starting Attend BES Project Restart 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
No deliverables submitted in reporting period due to work stoppage		

# Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
Unisys Contract Amendment 4	5/1/2021	N/A
FNS Handbook 901	01/2020	V2.4
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
BES Transition Aha Board	N/A	N/A
MES Transition Plan v1.0.mpp	10/18/2022	Version 1

#### **Additional Inputs**



#### **Meetings and/or Sessions Attended/Observed:**

- 1. Weekly Platform Status Meeting 10/4/2022, 10/18/2022, 10/25/2022
- 2. IV&V Team Meeting 10/3/2022, 10/6/2022, 10/11/2022, 10/17/2022, 10/20/2022, 10/24/2022, 10/27/2022, 10/31/2022
- 3. HI DHS BES September Draft IV&V Report Review 10/13/2022
- 4. Bi-Weekly DHS and IV&V Touch Base Meeting 10/4/2022, 10/18/2022
- 5. DHS/IV&V Check-in 10/4/2022, 10/6/2022, 10/11/2022, 10/13/2022, 10/20/2022, 10/24/2022, 10/28/2022, 10/31/2022
- 6. Daily Transition Status 10/3/2022, 10/4/2022, 10/5/2022, 10/6/2022, 10/10/2022, 10/11/2022, 10/12/2022, 10/13/2022, 10/17/2022, 10/18/2022, 10/19/2022, 10/20/2022, 10/24/2022, 10/25/2022, 10/26/2022, 10/27/2022, 10/31/2022
- 7. Transition: Knowledge Transfer Functional Demo of AH (Administrative Hearing) 10/10/2022
- 8. Transition: Knowledge Transfer Functional Demo of SSP (Self Service Portal) 10/10/2022
- 9. BES Process Model Review 10/11/2022
- 10. Transition: Knowledge Transfer FMM (Session 1) 10/12/2022, 10/13/2022, 10/14/2022, 10/17/2022, 10/18/2022, 10/19/2022, 10/20/2022
- 11. Transition: Knowledge Transfer FMM (Session 2) 10/12/2022
- 12. PCG/HI Review Mtg 10/13/2022
- 13. FW: Transition: Knowledge Transfer OCM 10/13/2022, 10/22/2022, 10/31/2022
- 14. Transition: Figma (Web App for UI design in SSP) 10/13/2022
- 15. Transition: RTM Report Part 2 10/13/2022
- 16. Transition: Knowledge Transfer SSP Architecture/Technical Discussion 10/13/2022
- 17. Transition: FMM Data Model Review 10/14/2022
- 18. Transition: BES Software (Touch base) 10/14/2022
- 19. Transition: Knowledge Transfer Eligibility Discussion 4 10/14/2022
- 20. Transition: Oracle OPA/OIA 10/18/2022
- 21. Transition: Knowledge Transfer Technical Demo of AH (Administrative Hearing) 10/18/2022
- 22. Transition: Knowledge Transfer Walkthrough Completing BI-21 R0.7 Updated and Completed Detailed Functional and Technical RTM (final deliverable) 10/18/2022
- 23. Transition: Knowledge Transfer Technical Demo of AH (Administrative Hearing) Data Model Review 10/19/2022

#### Additional Inputs – Continued



#### **Meetings and/or Sessions Attended/Observed:**

- 24. Transition: Landing zone General Automation 10/19/2022
- 25. Transition: Boomi connectivity 10/20/2022
- 26.Transition: RTM Report (Technical Discussion) 10/20/2022
- 27. Transition: Knowledge Transfer Technical Demo of AH (Administrative Hearing) Camunda/Integration/UI Code/Backend Code 10/20/2022
- 28. Transition: Knowledge Transfer Figma web app tool 10/20/2022
- 29. Transition: Knowledge Transfer Eligibility Discussion 5 10/20/2022
- 30. Transition: Knowledge Transfer Requirements Management (Part I) Mtg Coverage 10/20/2022, 10/24/2022
- 31. Transition: Knowledge Transfer Software Test Management (Part 1 of 10) 10/21/2022, 10/24/2022,10/25/2022,
- 10/26/2022, 10/27/2022, 10/28/2022
- 32. Transition: Knowledge Transfer SSP Architecture/Technical Discussion (Backend Code Walkthrough) 10/24/2022
- 33. Transition: Knowledge Transfer Configuration Management (Session 1) 10/24/2022
- 34. Transition: Requirements Management UI Requirements 10/25/2022
- 35. Transition: Knowledge Transfer Training 10/25/2022
- 36.Transition: Knowledge Transfer Pilot Management 10/25/2022
- 37. Transition: Knowledge Transfer Release Management (Part II) 10/25/2022, 10/27/2022
- 38. Knowledge Transfer on Configuration Management Non-Tech Session 10/26/2022
- 39. Transition: Security Management Walkthrough of Security Plan 10/26/2022
- 40. Transition: Knowledge Transfer (usable.net) 10/26/2022
- 41.Transition: Knowledge Transfer SSP Architecture/Technical Discussion (How To Set up SSP and AH Dev Environment) 10/26/2022
- 42. Transition: Knowledge Transfer Walkthrough Project Management (Part I) 10/28/2022
- 43.Lucidchart migration 10/28/2022
- 44. Transition: Lucidchart Migration Your Help is Required 10/31/2022
- 45. Transition: Knowledge Transfer Deliverables Management (Part I) 10/31/2022
- 46. Transition: Knowledge Transfer SSP Functional Discussion (1 of 3) 10/31/2022





### Appendix A – IV&V Criticality Ratings

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

#### Appendix B – Findings Log



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

#### Appendix C – Acronyms and Glossary



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



# Appendix C – Acronyms and Glossary

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



# Appendix C – Acronyms and Glossary

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

#### Appendix D – Background Information



#### **Systems Modernization Project**

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

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

#### **Systems Modernization IV&V Project**

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

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

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

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

#### Appendix D – Background Information



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

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

#### PCG's Eclipse IV&V® Technical Assessment Methodology

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

#### **IV&V** Assessment Categories for the BES Project

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

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

#### Ending Slide



**Solutions that Matter** 

ID Finding	Identified					Analyst	Finding	
The Reportor Type  11 Lack of the skilled ASI resources may reduce Michael Fors Concern project productivity and quality of the BES dospy and feed to school-de elsivy.	Date Category 9/8/2022 Project Management	levels, and/or capabilities to assure software quality and overall productivity to meet project milestones. As team members who may have sufficient capabilities appear to be working at capacity and often appear overwhelmed with maintaining quality and compensating for less experienced or less	productive, and high-functioning team. If the ASI is not able to maintain this type of team, project schedule and other project risks could increase. The ASI recordly determined that in order to meet the current projected go-live date, they would need to add approximately 50 additional resources to their team. With the recent loss of some of the ASI most capable can be called a experienced resources, project delays could continue, productivity could be highered, and otherwise design quality could be reduced. Farther, the lack of	SMEs. • DHS work closely with the ASI in their staffing efforts and quickly, but thoroughly, wet additions to the ASI project team. • Request the ASI make efforts to ensure solutions they have provided, and key design decisions are properly vetted by industry experts to ensure the best options	Event Notion Impact Prob	ability Priority  3 Med	Status Open	State bydate Office Comments Office Comments Office Comments Office Comments Office Comments Office
	4/30/2021 Configuration and Development	As reported dovelopment activities have been showed at they have been usually to achieve and/or mutation there appeted development velocity. The AS is working to produce a root cause analysis and remediation plan to adverse these delays, however, both have been designed. Proceedings and adverse these delays, however, both have been designed. Procedure that the contract of effort (i.e., story posted) in the past and the AS has been caused to the contract of effort (i.e., story posted) in the past and the AS has been caused to the contract of effort (i.e., story posted) in the past and the AS has been caused to the contract of effort (i.e., story posted) in the past and the AS has been caused to the contract of effort (i.e., story posted) in the past and the AS has been caused to the contract of effort (i.e., story posted). The AS continues to be challenged with finding qualified resources in a timely manner.	Failur to carbine a level of accuracy in estimating development tasks cold feet to a project softed that is flewed and evenisher. Of the indicated, the control of the co	team resources strategically to effectively increase velocity. Note that adding additional junor resources may not be as effective as staffing additional expert-level development, analysis, and other resources. * Request the AS effectively track and regularly provide DHS (potentially via the weekly DOI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the provier's rebedule.	immediate 3	3 Med	Open	JACU 1922 - No work has been performed regarding this finding due to the work stoppage and roughly restantion to the week X.07 will resease our recommendations for this finding once more is known. 69(39723 - The ASI has anomacroff to department of key resources that here provided has anomacroff to department of key resources that here provided has anomacroff to department of key resources that here provided has anomacroff to department of key resources that the provided has anomacroff to department of key resources and the control of the co
79 Esternal weeder delay in development of Al Pangelinan Finding - the 1815 salt management system (Current) Issue interface have impacted the project schedule.	6/3/2022 integration and interface Management	The BST-Project expected the CLK developed Current interface (bits, weekhood) to be compared by 9(8/7/2012. Clk septents that the weekhoods which compared by 9(8/7/2012. As of 96/5/2/9021. As of 96/5/2/9	Current (previously licens as d'abito) il a talk management system developed by the Manga and involution (appre) (CM). The Department of Human Services (DRS) uses the Current system to manage and create case related scale. The destrict ligibility solution (ESS) will interface using control to manage stalk. The ESS system will create tasks and will be compared to the Current system to manage stalk. The ESS system will create tasks and will not destrict the case that the services will create the stalk of the tasks, and the Supervisors will control the case. The Stalk has tasked to the case that the week of the case that the best tagged as V/C Altar (Ill in create case in the Stalk section to meet the design of the CR44—Antage (CAD list as case. The ASI has stalked that weekhood is required before some critical path development tasks can commence.	between DHS, the ASI, IVV, and CIA. Completed. 3. The ASI provide test results from the task management integration to ensure that the interface	Q3 S	1 Med	Open	10/21/21.2 No work has been performed regarding this finding due to the work stopage and onlyging transitions for the week. 36.4 W will resease our recommendations for this finding once more is inown. 09/30/21.2 No material update in the reporting period. 09/20/22 - Nor has of certain update in the reporting period. 09/20/22 - Nor has decided not to establish an agreement with CR in the best samagement work of the best samagement work of the best samagement with CR in the best samagement with the other best samagement with the size samagement with CR in the best samagement with the disk samagement with the disk samagement with the disk samagement with the size samagement with the size of the sama
76 Volunteer EHS mources leaving the Project Brad Molina Freding - may lead to knowled delays, lowered in the morale, and burnout.	3/1/2027 Project Management	and have the option of returning to their previous operational roles at any time.		Carefully plan for all project activities with reasonable hours allocations for the Diff resources and adjust date in the Bit Sproject schedule accordingly. The Diff resources should be provided to the plant of the Diff resources to high markation the project team and proposably allocated sentions or increase the number of volunteers to the team. *Bits less plant adjustment of the Diff resources to high markation they project team and proposably allocated sentions or increase the number of volunteers to the team. *Bits less plant assigned Project resources informed of the transition progress and the termine for when they will be advect to junt cipitate again, so resources can marketing their engagements with the Project.		2 Med	Open	06/00/2002. Issue created.  101/1/2002. **Other Exemple Comment of the Comment of
7.4 The last of a BET Project checkled based on Ryan Tam Feeding accounts cellulation dimelsible effect the tasse planning and resource management, which could result in the deliverables, cost screening, and a lating polive.	11/29/2021 Project Management	results that have not yielded improvement. Concerns with the structure.	rushed activities, and general frustration which can lead to schedule delays, low quality output, scope changes, and budget issues.	activity compared to past actual hours • Update as necessary and provide	Immediate 4	4 High	Open	instants. These factors, held mistissed this fordine, but it is undered; if this will  301/2022 - A project schedule documentage pool transmiss mervires and  a resisting project schedule based on accurate estimates, it is difficult for the Project to plan factor activities, estimates stating meeds, and successor project to plan factor activities, estimates stating meeds, and successor project to plan factor activities, estimates stating meeds, and successor project to plan factor activities, estimates stating meeds, and successor project to plan factor activities, estimates stating meeds, and successor project to plan factor activities, estimates stating meeds, and successor project to plan factor activities and activities of the stating of the s

clared BL enfrastructure is complex informs information in the property of the		Observation  Current AS infrastructure plans include a significant number of sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will imake up the BES infrastructure and the additional costs and time to configure, test, and implement the planned complex environment remain unclear.	project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system	implement and maintain the planned infrastructure. The Architecture process should include steps to provide a detailed impact of DHS	Event Horizon Impact Pro Wext several month: 3	bability Priority 3 Med	Status Open	Status Update CII  (III) (31/12/022 - The previous ASI was largely responsible for the infrastructure design and build out, these responsibilities are now transitioned to the new ASI. The previous ASI is performing knowledge transfer (I/I) to the new ASI; however, NV is concerned that KT will suffer given the complexity of the infrastructure and that some of the new ASI responsers appear to lack	ent Comments Vendo
h could be difficult to implement and Risk		sophisticated components that make up a complex cloud infrastructure.  Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test.	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system	implement and maintain the planned infrastructure. The Architecture process should include steps to provide a detailed impact of DHS architectural decisions to include the integration activities, support required,	wext several month: 3	3 Med	Open	design and build out, these responsibilities are now transitioned to the new ASI. The previous ASI is performing knowledge transfer (KT) to the new ASI; however, IVV is concerned that KT will suffer given the complexity of the	
		Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test.	project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system	process should include steps to provide a detailed impact of DHS architectural decisions to include the integration activities, support required,				ASI. The previous ASI is performing knowledge transfer (KT) to the new ASI; however, IVV is concerned that KT will suffer given the complexity of the	
		the BES infrastructure and the additional costs and time to configure, test, and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system	architectural decisions to include the integration activities, support required, and maintenance and operations impacts. • DHS work with the ASI to assess				however, IVV is concerned that KT will suffer given the complexity of the	
		and implement the planned complex environment remain unclear.							
			increased potential for system failure (i.e., due to the significant number of	the potential challenges of maintaining a complex environment and consider				significant experience with some of the tools and techniques used. IVV will reassess our recommendations for this finding once more is known.	
			"moving parts") and increase the level of time and effort to resolve	infrastructure costs. • ASI develop a process to closely monitor cloud and				9/30/2022 - The ASI announced the departure of key infrastructure	
			infrastructure and application-level bugs. Further, some components	other product changes (software updates/new releases), manage changes,				resources who have provided leadership to the infrastructure efforts, which	
			remain in an immature state compared to their legacy counterparts. For	and regression test once updates are applied. • The project team work to				could exacerbate this risk. With the recent work stoppage, it is uncertain	
			example, the project recently experienced a system failure because Google	establish strong governance over the utilization and maintenance of various				how this risk will be mitigated going forward. 08/30/22 - The ASI intends	
			Cloud failed to clearly communicate a change that led to failure in another component (i.e., Nexus). Google Cloud is generally viewed as a less mature					to engage two 3rd-party vendors to assist with the production environment build (once the GCP change order is approved), which could increase their	
			product offering compared to their rivals (Amazon Web Services, Microsoft	are new to them and take action to assure potential integration problems do				velocity. The inclusion of these vendors could also mitigate the risk of	
			Azure). IV&V remains concerned that this could lead to failures at critical	not lead to unexpected delays. For example, allot time in the schedule to				maintaining a complex infrastructure if these vendors can provide experts	
			points in the project (including post-go live production failures) that could	conduct proof of concepts to assure infrastructure components work as				who have significant experience with cloud infrastructure and related tools.	
			be difficult to resolve and lead to project disruption. If DHS intends to	expected.				07/31/22 - The newly assigned ASI architects continue to ramp up to meet	
			eventually reduce M&O outsourcing costs turning over M&O tasks to State employees, they could face challenges supporting tools they may not be					productivity expectations. The ASI recently reinstituted weekly architecture meetings with DHS and other infrastructure stakeholders. The ASI is	
			familiar with in a complex infrastructure environment.					analyzing the impact of the revised federal security controls on the project.	
			Tallina Will in a Complex initiation of the					System changes resulting from the security controls update may further	
								complicate the infrastructure and/or add unexpected work to complete the	
								infrastructure buildout. The ASI reported they are experiencing turnover of	
								some infrastructure staff; this may result in exacerbating this risk due to the potential loss of explicit and tacit infrastructure knowledge or if efforts to	
								capture their knowledge will prove sufficient. 06/30/22 - IVV added a new	
								recommendation and is escalating the criticality rating from 'Low' to	
								'Medium' based on the following ASI statements regarding: - The ASI	
	8/23/2021 Project	In April 2020, the DHS/ASI SOAP contract amendment codified the migration		OPEN - The ASI should document the current environment M and O	ISAP 4	4 High	Open	10/31/2022 - DHS will now work with the new ASI to complete the GCP	9/9/20
costs of the Google Cloud Platform Issue ) Change Request (CR) may lead to	Management	of some of the BES environments from an on-prem to cloud based solution however, not all details were vetted at that point in time. In the July/August	maintenance of cloud environments from the ESI to the ASI was included in	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				change request. IVV waits to see the details included in the change request, and whether our recommendations are addressed. 9/30/2022 - The DHS	of clari SOAP a
ticipated DHS costs, schedule delays.		2020 timeframe. DHS and the ASI agreed to have all BES environments	decision to migrate all BES environments to the cloud was made in the	Pilot/Implementation and M and O The ASI clearly document the scope of				transition of the BES Project DDI activities will impact the GCP change	not est
or the need to reduce scope.		migrated to the cloud. Since then, the scope has been adjusted and the CR is	July/August 2020 timeframe. DHS' intent is for this CR to be cost-neutral.	work and cost for the GCP CR during DDI and M and O and provide to DHS				request. IVV will update our recommendations for this finding once more is	project
		being drafted by the ASI. It has been over 12 months since the project	While the BES application is being developed in the cloud, details regarding	for approval DHS and the ASI Subcontractor agree to a firm delivery date				known. 8/31/2022 - The ASI submitted a detailed project impact analysis to	deploy
		decided to move all BES environments to the Cloud solution – more than	the specific services to be provided and by which vendor during the BES DDI	for when DHS will receive the GCP CR. COMPLETE - DHS and the ASI agree to a firm delivery date for when DHS will receive the GCP CR. 12/16/2021				DHS and provided a demonstration of the current environment to DHS. The	SOAP p
		enough time to document, price and negotiate the scope of work. The BES is being developed in GCP and DHS/ASI consistently report they are working	and maintenance and Operations Phases have not been finalized.	a firm delivery date for when DHS will receive the GCP CR. 12/16/2021 Complete				ASI is planning to provide DHS a GCP Best and Final Offer (BAFO) for review. 7/30/2022 - The ASI and DHS have a general agreement to the scope of the	develo in the i
		is being developed in GCP and DHS/ASI consistently report they are working on the CR. however: it is not final.		Complete				GCP CR. The ASI is preparing a project impact analysis and will exhaut a	in the i
		on the cit, nowever, it is not min.						GCP CR. The ASI is preparing a project impact analysis and will submit a formal document to DHS in August 2022. IVV concerns are increasing as this	deploy
								CR is not finalized and is focused on the impact to the Project if not	be to t
								completed. Uncertainty created by this open scope issue has already	enviror
								impacted security planning. 6/30/2022 - IVV remains concerned that the production environment for BES is unknown along with the roles and	Howev acknow
								responsibilities of the ASI, ESI and DHS. There are many possible impacts to	deploy
								the project ranging from contract changes to procurement and integration	to the
								activities. All these take time to complete yet there are no tasks and	decisio
								activities in the schedule to complete this work. 5/31/2022 - IVV has	GCP fo
								increased concerns about the slow progress and lack of detail regarding the	was m
								GCP change request, as this has been in discussion since July/August 2020.  The ASI has stated that their work on tasks within the scope of the CR is 'at	2020. T manag
								risk' and may need to stop, pending the CR approval. Based on the ASI	Produc
								Security Lead's report that the lack of an approved GCP decision is delaying	Disaste
								security work, this risk has materialized to an issue and the criticality rating	enviro
								is escalated to High. 4/30/2022 - The ASI developed a Rough Order of Magnitude (ROM) for the cost of the change request based on scope	not inc
								Magnitude (ROM) for the cost of the change request based on scope discussions with DHS. While progress is being made, the pace is slow. The	SOAP a
ficient configuration management Michael Fors Finding - 8/	8/23/2021 Configuration and	The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedures that	OPEN • ASI adhere to plans for configuration management as documented	ASAP 2	2 Low	Open	20/22/23 No. cont. has been preferred considerable finding due to the	Old the
d lead to development confusion and Risk	Development	Configuration Management Plan, however, it remains unclear if sufficient	ensures the BES is understood and works correctly. The BES solution	in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS.				work stoppage and ongoing transition to the new ASI. IVV will reassess our	9/9/20
ce the effectiveness of defect resolution		progress has been toward establishing CM processes, selecting CM tools	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 thenly information to some of the configuration I learn. However, it is critical that DHS/ASI agree to the full list of items that are larished in the configuration in plan along with the details recarding the house of the configuration in plan along with the details recarding the	on work to clarify/solidify plans for the potential use of configuration t management tools and DHS work to fund and procure a CM tool, as required to avoid any negative impacts to the project COMPLETED *					look fo
		(e.g., CMDB), and building out the CM Infrastructure. The projects Google Cloud Platform (GCP) Change Request and Security Plan have yet to be finalized which may include additional requirements or decisions that could impact CM. The project currently relies on Github for tracking of some						announced the departure of key resources including their lead CM strategist, which could exacerbate this risk. With the recent work stoppage and	receivi
								which could exacerbate this risk. With the recent work stoppage and planned reassignment, IVV is not aware of the plans to mitigate this risk.	inquiri IV&V t
								08/30/22 - The ASI updated the Configuration Management Plan (CMP) with	config
		configurations.	management of the configuration items, reporting and audit features.	Identify the DHS POC for the Configuration Management Activities that				additional configuration management details. 07/27/22 - DHS has identified	manag
				would provide oversight of configuration management activities and assure				technical and functional primary points of contacts for ASI to work with for	having
				defined CM steps and plans are being followed, are effective, and are				configuration management efforts. IVV remains concerned that some	We do
				achieving DHS objectives for CM. 7/31/2022				configuration management (CM) details have yet to be finalized and the lack of clarity around the CM database (CMDB) tools. For example, it remains	that th needs
								unclear what CMDB tool will be used if Service Now is not part of the GCP	torefic
								change request. 06/30/22 - The Project previously stated its intention to	proces
								utilize ServiceNow (SN) for Configuration Management (CM), however, it	the pro
								remains unclear if progress has been made on 1) finalizing this decision, 2)	configu
								how it will be used, and 3) the status of funding for purchase. Further, it remains unclear whether DHS will utilize their existing SN installation or	manag
								create a separate instance and who will be responsible for defining the	
								service catalog and SN/CM processes. Funding for SN is currently dependent on the approval and funding of the GCP change request; it remains unclear	
								on the approval and funding of the GCP change request; it remains unclear	
								if contingencies have been detailed or documented if GCP is not approved.  IVV has elevated this 'Concern' to a 'Risk'. 05/31/22 - No material update in	
								IVV has elevated this 'Concern' to a 'Risk'. 05/31/22 - No material update in the reporting period. 4/29/22 - IVV expects this concern to be increasingly	
								impactful as the Project approaches go-live. Implementation of all the	
								components of configuration management later in the Project could leave	
								the project team scrambling to implement during pre-go-live when	
ficient planning/execution of the BES Dustin Heath Finding - 7/	7/28/2021 Security and	Over the last several months, the BES project team has been working	The BES project must have a clear plan to define, implement, test, and	OREN - The ASI continue to develop the D122 Consults Disc to size	ISAP 4	5 High	One-	resources are likely to be constrained. Delayed completion may lead to 10/31/2022 - With the transition to the new ASI, the key position of Security	
ficient planning/execution of the BES Dustin Heath Finding - 7/ rity Plan activities may lead to delays in Risk		Over the last several months, the BES project team has been working through the planning efforts to develop the BI-13 Security Plan while also		OPEN - The ASI continue to develop the BI13 Security Plan in close collaboration with DHS DHS and the ASI agree upon the tools and process	un 4	э нідп	Open	10/31/2022 - With the transition to the new ASI, the key position of Security  Lead will be filled by a new resource. As of the reporting period end this	9/9/20
ng Federal Partner approval for the BES		managing through ASI Security Lead staffing changes. DHS and the ASI	Pilot phase. There are many standards that must be met, and the project	that will be used to document and track security control implementation,				position remains unfilled. As the new ASI assumes the responsibility for the	decisio
nct to begin the Pilot Phase.		agreed to modify the BI-13 Security Plan Deliverable Expectation Document	team plans to utilize the BES Security Control Implementation Workbook to	such as security governance, risk, and control (GRC software). The process				Project security and privacy tasks it is appropriate to revisit the IV&V	GCP fo
		(DED) last month and are currently revising it to align to the requirements	document the status of each control. The Security Control Implementation	should define the level of detail needed to track progress (estimates, target				recommendations and the tools used to document and track security	has dri
		and changes to the project since inception.	Workbook must be detailed and allow for ease of referencing to the Security	dates, risks, issues, evidence) along with the Requirement Traceability				controls. 09/29/2022 - Since only one meeting was held between the ASI	for a ci
			Policies, Standards, Controls, and implementation plan along with evidence for each control.	Matrix, and plans of actions and milestones (POAM) ASI add a Security Architect to the Project ASAP to assist with the Security Plan activities ASI				and DHS BES Security teams prior to the work stoppage, IVV has no material updates to report this month. The planned reassignment of the BES DDI	of the :
			TO COLUMN.	Architect to the Project ASAP to assist with the Security Plan activities ASI ensure that the ASI Security Lead has a depth of experience in NIST 800-53				updates to report this month. The planned reassignment of the BES DDI work should consider the expertise needed for the vendor Security Lead and	per DH the pro
				and experience authoring implementation statements of System Security				team. 08/31/2022 - IVV recommends that Security SMEs leading security	plannir
				Plans (SSP). COMPLETE - DHS and the ASI agree and finalize the BI-13 DED.				and privacy-focused workshops and technical sessions have a depth of	make t
				1/4/22 Complete - ASI, per DHS guidance, should begin to pivot toward the				experience in NIST 800-53 and with experience authoring implementation	The eff
				adoption of 800-53 Rev 5 since Rev 4 will be obsolete when the system goes				statements of System Security Plans (SSP). The ASI will be changing the ASI	comple will be
				live. COMPLETE 3/31/2022 -DHS should determine the FNS requirements for go live based on their meeting and provide ASI with proper guidance. FNS				security lead in September 2022. 07/31/2022 – The ASI filled the Security SME position this month and their prior NIST Security Standard experience	will be either
				requirements should be documented as part of BI-13 Security Plan				should benefit the BES project. The ASI does not have a Security Architect on	reques
				requirements should be documented as part of Bi-13 Security Plan  COMPLETE 3/31/2022 - ASI have a security SME attend the weekly security				this project which may lead to an incomplete security and privacy design. It	change
				planning meetings and workshops. COMPLETE 7/31/2022				is IVV's understanding that the addition of the Security Architect is included	look fo
								in the GCP change request (CR) and will not be filled until the CR is	additio
								approved. An agreement has been reached for the immediate term to use	with rv
								Aha and Confluence to develop and collaborate on System Security Plan (SSP) controls. However, an electronic Governance, Risk, and Compliance	
								system (eGRC) is under consideration at DHS. 6/28/2022 - The ASI hired a	
								Security SME who will be working with DHS on security governance, risk,	
								The state of the s	
								and compliance activities. Weekly security meetings began again in May but are more in the form of status undates. Working sessions on the number	
								and compliance activities. Weekly security meetings began again in May but are more in the form of status updates. Working sessions on the system security plan controls will resume in July. 5/31/2022 - The ASI plans to add	

	Finding	Identified					Analyst	Finding		
Title Reporter The Americans With Disabilities Act (ADA) Ryan Tan	r Type n Finding -	Date Category 7/12/2021 Testing	Observation While R0.3 and R0.4 reported that Section 508 compliance had been	Significance There is a contractual obligation and requirement for BES to be ADA	Recommendation 1/31/2022 - The following recommendations will be evaluated for this	Event Horizon Impact Pro As soon as possible 3	abability Priority 3 Med	Status	Status Update  Client Comments  10/31/2022 - No work has been performed regarding this finding due to the	Vendor Co
The Americans With Disabilities Act (ADA) Ryan Tan Section 508 compliance tool has not been	n Finding -	7/12/2021 Testing		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.		As soon as possible 3	3 Med	Open	10/31/2022 - No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. NV will reassess our	9/9/21 - R
installed for the Project, which may cause	Nak		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				work stopping and origing crainstoon to the new ASC. MV will reassess our recommendations for this finding once more is known. 9/30/2022 - DHS	has invited
significant rework.			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-				issued a work stoppage, and no progress was made to move forward with	make cont
			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	compliance and how non-compliance will be addressed/corrected The				purchasing the ASI recommended ADA compliance tool. 8/30/2022 - No	developme
			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				change in status. Walting on DHS acceptance/approval to move forward	review the
			top tool for ADA compliance as an interim solution. IVV has not received any data to demonstrate the desk-top tool results nor if it provides coverage		the ADA tool execution and how to interpret the results. Superseded 8/30/2021 - The ASI should gain DHS' approval on the tool selected after the				with purchase, installation, configuration, and implementation of the ASI recommended ADA compliance tool. 7/27/2022 - The ASI successfully	the desk-to gain insigh
			any data to demonstrate the desk-top tool results nor if it provides coverage 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,				recommended AUA compliance tool. 7/27/2022 - The Asi successfully completed the ADA compliance tool proof of concept and provided reports	gain insign the IV&V h
			for all ADA compliance items.	Act., which was verified in the ASI proposed Technical Requirements	meeting all contractual and project requirements. The ASI create and				to DHS for their review and approval. The final steps remaining would be the	contacted
				Approach that states "The system complies with DHS branding standards as	communicate the plan for when the ADA compliance tool will be put into				purchase, installation, and implementation of the tool. 6/29/2022 - The	developme
				defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	action, how the tool will report compliance or non-compliance, how non-				ADA compliance tool is still in the trial phase and a compliance report will	have furth
				parts of Section 508 of the Americans with Disabilities Act (ADA),	compliance will be corrected, and how and when DHS/IVV will be provided				be run once the initial testing has been completed. The ASI is expected to	discussion
				nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	the reports from the ADA compliance tool and how to interpret those				provide results of the testing to DHS when the trial phase is finished, and the	topic.
				(https://www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS Guidelines from the 901 Handbook, and contractual obligations to adhere to	reports for the code from previous, current and future releases.				report generated. 5/31/2022 - The ASI has identified an accessibility compliance tool that will meet the needs of the Project and DHS has	
				the Section 508 compliance guidelines (https://section508.gov/) there may					approved opening a firewall to facilitate a demonstration of that tool. The	
				be a significant amount of rework to the solution.					ASI completed a Proof of Concept for the tool and now needs to 1) receive	
									DHS approval to use the tool, 2) purchase the tool, 3) configure the system	
									to accommodate the tool, and 4) institute the tool into the delivery pipeline.	
									4/26/2022 - The ASI is evaluating four ADA testing tools for consideration	
									due to high pricing for the tool selected in March. This tool was demonstrated to the ASI and appeared to provide the required reporting	
									features and the needed integration with the RFS 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	
									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	
		a facilitate a constitution of						_	selected shortly. 3/28/2022 - The ASI testing lead confirmed that an ADA	
The lack of early planning and coordination Michael Fo with interface partners may result in	Fors Finding - Risk	1/21/2021 Integration and Interface	The following planning and execution items have not yet been addressed and documented by the ASI Connectivity is planned to utilize a presently			Q+ 2021 4	1 Low	Open	10/31/22 - No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. NV will reassess our	
with interface partners may result in schedule delays.	rusk	Management	undefined ETS API Gateway; however, there is no evidence that details have		plan for each interface partner for the duration of the BES DDI activities.				recommendations for this finding once more is known. 09/29/22 - No	7/20/21 R
		- manage-nent	been determined or documented in this regard There is little evidence of	schedule that includes the coordination, planning, and execution activities	10/29 COMPLETE 2. Identify and document all interface partners' contacts.				material update in the reporting period. 08/26/2022 - The statuses of the	team requ
			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				three remaining required agreements (DAGS, DLIR, HYCF) have not changed.	IV&V reass
			coordination, design, and testing activities (Unit Test, SIT, UAT) Interface planning and execution tasks and activities, including those for interface	addition, after planning has been completed, interface partners will have to	include milestone dates, coordination, and execution and share with the				08/01/2022 - DHS executed the DPS agreement (MOA) on 07/20/2022. The	severity of
			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				statuses of the three remaining required agreements are as follows. The	light of the
			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 technical designs of all interfaces. 01/04 COMPLETE				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	reasons: a
			A mitigation plan has not been developed to address the unavailability of interface partners during interface implementation after MOAs have been		technical designs of all interfaces: 01/04 COMPLETE				DLIR MOA and resubmitted it to DLIR. The latest draft of the HYCF was sent to the DHS Directors' office with feedback from BESSD and MQD.	schedule e has made
			interface partners during interface implementation after MOAs have been approved, testing dates have been confirmed, and communications have						to the DHS Directors office with reedback from BESSU and MiQU.  06/30/2022 - There are 4 agreements outstanding (DAGS, DLIR, DPS, and	for tackling
		been frequent.						HYCF). DHS plans to discuss the agreement at the next meeting with DAGS,	less than it	
								which is tentatively scheduled for 07/06/2022. DHS is currently reviewing	that starte	
								the DLIR, DPS, and HYCF agreements. 05/31/2022 - There were no changes	the schedu	
									to the interface communication plans in this reporting period. There are 5	the increas
								agreements outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF, and DLIR have all been drafted and are going through reviews with DHS and	Medium to May was b	
									the interested parties. DAGS has not been drafted by DHS; DHS is in	misunders
								discussions with the Department of Tax for an interface that would bypass	the curren	
								DAGS. The CYRCA interface has been escalated within DHS as the business	the MOA's	
								requirements CYRCA meets are being evaluated by DHS executive	metrics, c)	
								management. IVV has opened a new issue #79 related to vendor	progress h	
									development delays for the task management software. 04/28/2022 - There were no changes to the interface communication plans in this	against ear Progress
									There were no changes to the interface communication plans in this reporting period. The DAGS, DLIR, DOH, and HYCF agreements are still	Progress
									reporting period. The burst, burst, burst, and PTCF agreements are sun	and it cont
									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	trend in th
									which DHS needs. 03/29/2022 - There were no changes to the interface	direction.
Poorly executed JAD and design sessions Brad Molin	olina Finding -	11/30/2020 System Design	ASI-led Workflow JAD sessions have been held for CMM, with the following	The CMM Workflow JAD sessions restarted in November. DHS indicated	OPEN - The facilitator should use their expertise to drive discussions through	ASAP 2	5 Med	Open	10/31/2022 - No work has been performed regarding this finding due to the	
could lead to inaccurate design and rework.	Issue		concerns being observed, - No clear introduction to all participants on the	some concern regarding the CMM Workflow JAD sessions, specifically; (1)  Do the JAD participants understand how the Case will be managed through	leading questions BAs should come to Day one of Design Sprint fully				work stoppage and ongoing transition to the new ASI. IVV will reassess our	9/9/21 RA
				Do the JAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BES to support	prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on				recommendations for this finding once more is known. 9/30/2022 - DHS  Product owners and SMEs have raised concerns about a lack of a cohesive	9/9/21 RA does partii
				the users and clients? Incomplete or unclear JAD sessions with insufficient					design and a user experience that is less than satisfying. DHS users are	many face
			Too much pause time when participants did not know the answer to a		Experience (UE) designers to engage with DHS and review the currently built				citing examples of not being able to achieve desired tasks or achieve tasks	deisgn pro
			question; several occasions where complete silence on the call for 30	support business requirements; as well as missing opportunities to improve	RES solution Closed - IAD and design sessions should be lead by				timely. 8/31/2022 - The ASI's addition of senior BAs to the design sessions	including s
			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				has resulted in improvement. The Senior BAs offer guidance to ensure the	up reviews
			workflow could be designed to ease/improve process for client		all participants. (additional Senior BA being added, rest of recommendation				project team remains focused on the design. Unfortunately, one of the	grooming
					being met - Closed 4/30/2022) - The DHS and ASI product owners should				Senior BAs has left the project so it is unknown if this practice will continue	and Sprint
					actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be' business				for all BES design sessions: 7/31/2022 - Although the ASI has implemented preparatory sessions for their Business Analysts (BAs) prior to design Sprint	Product ou discussion
					process. (Closed 4/30/2022) - The ASI should back-track significant				Day 1, IVV continues to observe occurrences of BAs not being fully prepared	to have lim
					differences in design direction to determine the root cause to identify these				for the initial session. DHS has also raised concerns that the ASI support	participati
					items as early in the SDLC as possible. COMPLETE - The Product Owners				admins are not always assigned to meetings, leaving the BA solely	team is co
					should have more direct interaction with the development team, proactively				responsible to lead discussions and capture notes, update artifacts, and	about the
					seeking collaboration. 10/5/21 Complete - The Functional Design				capture action items. DHS requested the ASI to address these concerns going	of the IV&
					Document process, to include the Design Sprint concept, should be clearly defined and shared with all project team members. (Closed, 1/31/2022) -				forward. 6/30/2022 - The ASI continues to revise the Design Sprint process by engaging the DHS SMEs and ASI systems analysts earlier in the process	main reaso does not a
					Invite IVV to all future design sessions and design sessiots to allow 2015-				uy engaging the una arres and was systems analysts earner in the process and conducting ones sessions with the ASI Rusiness Analysts (RA) prior to	does not a silent in di
					Invite IVV to all future design sessions and design sprints to allow IVV to observe and assess the effectiveness of the revised design processes.				and conducting prep sessions with the ASI Business Analysts (BA) prior to each Sprint. These pre-sprint sessions with BAs are starting to address the	design des
					(Closed, 1/31/2022) - ASI and DHS should work together to vet the in-				remaining recommendations. IVV will continue to observe and look for	assurances
					progress design with all SMEs for the area of focus. (being met by new				impactful results from these latest changes to the process. 5/31/2022 - The	IV&V PM t
					design sprint process, closed 2/28/2022) - ASI staff all design sprint				ASI instituted a new process to align ASI BAs to similar Use Cases to build	their role,
					meetings with additional support staff to ensure the meetings are				knowledge of common business processes, strengthening their facilitation	participtat
					adequately documented and ASI Business Analyst are not running the meetings alone. Complete 7/31/2022				during design meetings. DHS Lead Product Owners are also taking an active role to ensure the BES Design meets the requirements as noted in this	drives wha
					meetings alone: complete 7/51/2022				month's positive finding. 4/30/2022 - The ASI is working to mitigate the	processes
Poor quality project deliverables may impact Brad Molin	olina Finding -	4/16/2020 Project			OPEN - ASI reviews its Quality Management Plan to ensure that the Project	Immediate 2	2 Low	Open	10/31/2022 - No work has been performed regarding this finding due to the 06/30/2020 - New deliverables this month included BI-10 and BI-20. BI	10
system design, testing artifacts and the	Issue	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 and ongoing transition to the new ASI. IVV will reassess our was initially called back for quality issues, and the issues were corrected	7/30/21 R
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				recommendations for this finding once more is known. 9/30/2022 - No DHS is not comfortable with BI-10 re-format, will be revised again.	team will r
			exhibited erroneous information, a lack of a logical organizational flow, an	produced and submitted for review, this can continue to result in	Project Quality, which states, ASI measures process and product quality by				work has been performed regarding this finding due to work stoppage.	respond to
			insufficient level of detail, and a lack of understanding of the subject matter from both a functional and technical perspective. DHS logged this issue in	unproductive use of time, unanticipated rework, misguided development	selecting BES implementation process and product attributes to measure;     selecting component activities to measure;     selecting component activities to measure;				8/31/2022 - No material update for this reporting period. 7/31/2022 - The	again whe
			from both a functional and technical perspective. DHS logged this issue in the Project Issue Log for corrective action by the ASI. The ASI acted by	and testing activities, potentially unfulfilled functionality, and additional schedule delays.	<ol> <li>selecting component activities to measure; 3) defining value scales for each component activity; 4) recording observed activity values; and 5)</li> </ol>				ASI plans to provide resources to develop and report on quality metrics, which will be addressed in the CAP. 6/30/2022 - No significant change to	update is r IV&V. We
			the Project Issue Log for corrective action by the ASI. The ASI acted by conducting an internal root cause analysis and provided DHS and IVV the	acresses weldys.	each component activity; 4) recording observed activity values; and 5) combining the recorded attribute values into a single number called a				which will be addressed in the CAP. 6/30/2022 - No significant change to the status of this finding although ASI has assigned a resource to research a	recommen
			high-level results.		process quality index. IVV has not seen evidence indicating the ASI is				solution for creating quality metrics. 5/31/2022 - The revised DDI process,	rethinking
					utilizing metrics to measure its process and product quality When the				in particular the design sprints, is bringing more focus and attention on	recommen
					project restarts, resources be allocated to create a Quality Management				design documents, which has a positive effect on quality when measured by	based on t
					Plan to help address this finding. CLOSED - IVV recommends that a				the lower number of comments in deliverable reviews. IVV will validate this	assessmen
					facilitated root cause analysis be performed by the ASI with DHS and IVV in				metric is fully documented in the Quality Management Plan, when published	IV&V that
										risk. The to
					attendance. Quality issues are rarely generated by a single entity in a				by the ASI. 4/30/2022 - No material update for this reporting period as IVV	
					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				awaits updates to the Quality Management Plan. 3/30/2022 - When	and substa
					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 current condition. Once the root cause(s) are identified, IVV recommends				awaits updates to the Quality Management Plan. 3/30/2022 - When  Release 6 final test results are published, IVV will re-evaluate this finding.	and substa recommen
					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 current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns on in-process				awaits updates to the Quality 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 review the Release 0.6 test results and	recommer of step wit
					attendance. Qualify issues are rarely generated by a single entity in a project, so there could potentially be untitiple causes or root causes of this current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns on in-process deliverables prior to submission of subsequent deliverables [Osced 7/30/2021 - 8/4 werlies that the information in design and testing artifacts				awaits updates to the Quality Management Plan. 3/30/2022 - When  Release 6 final test results are published, IVV will re-evaluate this finding.	and substa recommen
					attendance. Qualify issues are rarely generated by a single entity in a project, so there could potentially be untitiple causes or root causes of this current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns on in-process deliverables prior to submission of subsequent deliverables [Osced 7/30/2021 - 8/4 werlies that the information in design and testing artifacts				awaits updates to the Quality Management Plan. 3/30/2022 - When Release filinal text results are published, n/V will re-evaluate this finding, 2/38/2022 - MY continues to review the Release 0.6 text results and available mentrix. The initial results know a postrive trend, which is	and substa recommer of step wit perceived for a numb months no
					attendance. Quality issues are rarely generated by a single entity in a project, to there could potentially be multiple causer or not caused this current condition. Once the root cause() are identified, If Vir ecommends immediate action be employed for resolve quality concerns on in jeroses deliverables prior to submission of subsequent deliverables [Closed 73/20/2011.48 prifers but the information in design and testing artifacts is kept in sync and consistent. (Closed 5/31/2021). Als perform a root cause analysis with DSF and Wir alteredances to determine the source of the manaliss with DSF and Wir alteredances to determine the source of the				avails update to the Gally Xep Appendent Plan J J (2002)  Relicace End to State Transport Plan J (2002)  Relicace End to State Transport Plan J (2002)  Relicace End to State Transport Plan J (2002)  Relicace End Transport	and substa recommer of step wit perceived for a numb months no
					attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causes or not causes of this current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns on in-process deliverables prior to submission of subsequent deliverables [Closed 7,302/021: ASI werlfiles that the information in design and testing artifact is kept in sync and consistent; (closed 5/31/022): ASI perform a root cause.				awaks updates to the Caulity Management Flam. 1/30/2022. Under Relative State	and substa recommer of step wit perceived for a numb months no 4/23/21 ra team agre
					attendance. Quality issues are rarely generated by a single entity in a project, to there could potentially be multiple causer or not caused this current condition. Once the root cause() are identified, If Vir ecommends immediate action be employed for resolve quality concerns on in jeroses deliverables prior to submission of subsequent deliverables [Closed 73/20/2011.48 prifers but the information in design and testing artifacts is kept in sync and consistent. (Closed 5/31/2021). Als perform a root cause analysis with DSF and Wir alteredances to determine the source of the manaliss with DSF and Wir alteredances to determine the source of the				awaltu sudiants to the Caulity Management Plan. 3/36/2022. "Dem Release Efficial sets ruits are published, NYM in evaluate this finding. 2/38/2022. "Wit confinence to review the Release OE list set results and available merics." In site of the set of th	and substa recommer of step wit perceived for a numb months no 4/23/21 ra team agre- full embra
					attendance. Quality issues are rarely generated by a single entity in a project, to there could potentially be multiple causer or not caused this current condition. Once the root cause() are identified, If Vir ecommends immediate action be employed for resolve quality concerns on in jeroses deliverables prior to submission of subsequent deliverables [Closed 73/20/2011.48 prifers but the information in design and testing artifacts is kept in sync and consistent. (Closed 5/31/2021). Als perform a root cause analysis with DSF and Wir alteredances to determine the source of the manaliss with DSF and Wir alteredances to determine the source of the				await updates to the Caulity Management Flam. 1/30/2022. When Release Shall sate travals are published, Novil to evaluate this finding.  Associated the second of the seco	and substa recommer of step wit perceived for a numb months no 4/23/21 ra team agre- full embra project of
					attendance. Quality issues are rarely generated by a single entity in a project, to there could potentially be multiple causer or not caused this current condition. Once the root cause() are identified, If Vir ecommends immediate action be employed for resolve quality concerns on in jeroses deliverables prior to submission of subsequent deliverables [Closed 73/20/2011.48 prifers but the information in design and testing artifacts is kept in sync and consistent. (Closed 5/31/2021). Als perform a root cause analysis with DSF and Wir alteredances to determine the source of the manaliss with DSF and Wir alteredances to determine the source of the				await updates to the Caulity Management Flam. 1/30/2022. When Release Shall sate travals are published, Novil to evaluate this finding.  Associated the second of the seco	and substare recommer of step with perceived for a numb months not 4/23/21 rs team agrefull embra project of Confluence
					attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causer or not caused this current condition. Once the root cause() are identified, If Vir ecommends immediate action be employed for resolve quality concerns on in jeroses deliverables prior to submission of subsequent deliverables [Closed 73/20/2011.48 prifers but the information in design and testing artifacts is kept in sync and consistent. (Closed 5/31/2021). Als perform a root cause analysis with DES and Wir alteredances to determine the source of the manaliss with DES and Wir alteredances to determine the source of the				awaltu sudiants to the Caulity Management Plan. 3/36/2022. "Dem Release Efficial sets ruits are published, NYM in evaluate this finding. 2/38/2022. "Wit confinence to review the Release OE list set results and available merics." In site of the set of th	and substa recommer of step wit perceived for a numb months no 4/23/21 ra team agre- full embra project of

D Title <u>Ro</u>	leporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Analyst Impact Probability Prjority	Finding Status	Status Update	Client Comments	Vendor Comments
"Stay at home" order could hinder project activities and negatively impact the project	Alchael Fors	Finding - Risk	3/29/2020 Project Management	On 3/23/2020, the Governor of Hawaii issued a "stay at home, work from home" order that has reduced state departments' ability to be fully functional as the large majority of state workers will be required to work	hindered, not only by working remotely but also by the need to focus on delivering services to beneficiaries. Planned key activities such as design	OPEN - 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	ASAP	2 2 Low	Open	10/31/22 - No work has been performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IVV will reassess our recommendations for this finding once more is known. 09/29/22 - IVV		7/30/21 RAP - The AS agrees that COVID at
schedule and budget.				from home/remotely at least until the end of May and some offices may be	sessions may be facilitated remotely which may impact the quality of the	Send broad communications to stakeholders to assure clear understanding				remains concerned that the lack of in-person interactions may lead to		this time is likely a lo
				completely shut down until that time as well. Unclear if the order will extend beyond that date.	sessions. Going forward, most if not all project activities will more than likely be conducted remotely until this crisis passes. The DHS project team	of changes to the Project with regard to impacts of COVID, as well as clarifying communications as to what will remain the same Project				reduced project team productivity. 08/30/22 - No material update for this reporting period. 07/31/22 - No material update for this reporting period.		risk to both schedule and budget for the
				extend beyond that date.	will soon lose some key members of the PMO, the PMO lead will retire on	leadership continue to encourage independent phone conversations to				reporting period. U7/31/22 - No material update for this reporting period. 06/30/22 - The ASI has stated they have removed the vaccination		project despite some
						enhance and accelerate communications, and for team members to not wall	t			requirement for working in person and are encouraging staff to spend time		increases related to
					state could experience a significant loss of revenue due to COVID, which could lead to DHS budget challenges. If the state/DHS institutes a hiring	for meetings to converse Consider in-person meetings for critical design sessions if DHS and ASI COVID protocols allow. CLOSED - Continue to make				in the office. DHS team members are still not required to work in the office but DHS is also encouraging office time. Three DHS team members		the delta variant. The ASI team continues to
					freeze, DHS PMO may not be able to replace these key resources.	efforts to setup, train, and assist new stakeholders on remote work devices				currently work out of the ASI's downtown Honolulu office. 05/31/22 - The		maintain social
					Additionally, if the state institutes furloughs, DHS project team resources	and tools and continue to assist stakeholders with becoming highly				ASI and their subcontractor are making efforts to increase in-office/in-		distancing in the office
					could be further constrained. Unclear if the state budget challenges will impact overall project funding.	functional with remote access technology (e.g. MS Teams/Skype) Complete - Update the OCM Plan to include any new activities or updates to				person work which could help to increase productivity and communication as well as overall quality of project work. 04/29/22 - No material update for	r	in line with State mandates. However,
					planned activities to aid the organization through this COVID-19 pandemic in the short and long term Complete - Explore options for freeing up key	n			this reporting period. 03/31/22 - State leadership has rolled back most COVID mandates this month, however, most individual State departments		the team has essentially reached th	
						the short and long term Complete - Explore options for freeing up key BESSD SME's to work on the project Complete				COVID mandates this month, however, most individual State departments have been given the option of not requiring their staff to work in-person.		essentially reached th new normal in
										DHS will likely maintain remote work policies for the foreseeable future. IV	ı	Honolulu. This
										recommends DHS consider strategically requesting in-person meetings for discussions that can be significantly more productive in-person. 2/28/22 -		includes fewer resources travelling
										The State of Hawaii is planning on eliminating most COVID mandates as of		and more conference
										3/5/22. In-person meetings could improve collaboration for design and other sessions, if the Project elects to increase in-person meetings. 1/31/2:		calls; however, the project has adjusted t
										. The ASI has reaffirmed that remote meetings are a less effective form of		the lack of in nerson
										communication than in-person meetings and therefore, COVID continues to have a negative impact on the quality of some project activities, albeit		meetings. In our off- shore office, we still
										nave a negative impact on the quality of some project activities, albeit difficult to quantify. 12/31/21 - Though Omicron COVID cases are surging,		have staff working
			1/10/2020 Project							the project has indicated they do not plan to make changes to current		from home. We expe
3 DHS PMO project team members have Retransitioned off the Project, which may	tyan Tan	Finding -	1/10/2020 Project Management		The key resources leaving the BES Project provide knowledge and history of DHS and its software, solutions, and business processes, along with a level		ASAP	3 5 High	Open	10/31/2022 - No work has been performed regarding this finding due to the work stonnage and opening transition to the new ASI IVV will reassess our	<ul> <li>02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality ration this Finding (#43) and DHS rolled out the DHS Product Owner Roles and</li> </ul>	ig 4/23/21 RAP - From
cause gaps in knowledge transfer and leadership on the Project.				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				recommendations for this finding once more is known. 9/30/2022 - No	Responsibilities to the DHS team on January 29, 2021. (Gary provided the	the changes to the
leadership on the Project.					and knowledge is critical for the BES DDI and KOLEA Modifications, and planning efforts for BES Maintenance and Operations activities.	with the appropriate organizations to identify the funds necessary to fill these positions In progress The state should document a transition plan				material update in the reporting period. 8/31/2022 - DHS continues to seel applicants for the three PMO positions these positions remain unfilled.	<ul> <li>Final DHS Product Owner Roles and Responsibilities document to IVV on 02/8/2021). 06/30/2020 - Mark Choi is becoming more involved in the</li> </ul>	project management of the BES project
				interim Project Manager, but a plan for a permanent replacement is not	Additionally, as per the budget, DHS stated if they are unable to fill these	for the project and PMO resources as identified in the RFP (reference RFP				7/29/2022 - DHS has received minimal applications for the open PMO	project. Involved in Arch decisions and PM decisions around tool sets,	have provided little
				currently known.	positions timely, DHS may fall out of federal funding compliance and lose the \$37 million needed matching funds for continued development of BES.	section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-19				positions therefore, they may fill the positions with contractors. IVV does not have visibility to the full impact of the delay in filling these positions.	future vision, etc. Day to day PM working closely w/ Gary and Emerald. W have no insight into other DHS staffing.	We impact on the overall project. At this point,
					the \$37 million needed matching runds for continued development of BES.	resources Closed The ASI should document a transition plan for each key				However, some of the administrative and contract management activities	nave no insignt into other DHS statting.	the knowledge
						resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits				are significant so DHS assigned these activities to internal staff on an interir	1	transfer gaps have
						Eligibility Solution Project Staffing'.) - Closed				basis. 6/30/2022 - DHS continues to recruit for PMO resources. No other material updates for this reporting period. 5/31/2022 - DHS continues to		been closed and the leadership of the
										recruit for PMO resources, but the three positions remain unfilled. Howeve	•	project remains strong
										some PMO responsibilities are being addressed through existing resources.  For example, the contracted DHS PM has filled in leadership gaps and and		hands from DHS. We recommend that the
										has positively impacted the Project. 4/28/2022 - No material updates for		IV&V reassess the
										this reporting period. 3/31/2022 - DHS continues to recruit for these		probability of impact
										positions but received minimal interest to-date. 2/28/2022 - DHS posted the PMO positions but are having difficulty identifying candidates. While		and severity of impact and lower the overall
										online metrics show there is interest and the positions are being viewed, as		rating for this
										of this date, there has only been one application. 1/28/2022 - No material updates in this reporting period. 12/30/2021 - No material updates in this		risk.3/3/2020 - The At PM stated the Project
										reporting period. 11/26/2021 - No material updates in this reporting		Coordinator position i
										period. 10/31/2021 - No material updates in this reporting period. 9/30/2021 - The BESSD Administrator, serving as the interim DHS BES		filled and they will
										Project Manager resigned from DHS. To mitigate the knowledge and		begin work on 3/9/2020, transition
										Project Manager resigned from DHS. To mitigate the knowledge and leadership risk, DHS backfilled the DHS BES Project Manager with a		activities from Donna
9 Uncertainty and/or a lack of communication M	Aichael Fors	Finding -	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	contractor possessing extensive BES project experience. The Assistant BESSI 10/31/22 - Given that the project is transitioning to the new ASI, it remains	06/30/2020 - Combined application is still planned. App still not finalized	will begin next week.
around long term architecture decisions		Issue	Management	and socialized to the project. For example, the ASI and DHS have stated that	t inclusive of all known future solution plans as possible. As an example, if	Deliverable with additional details as they become available and with any				unclear what changes the new ASI will make to the planned infrastructure	DHS. From Arch perspective, we are building in Liferay. Future Integration	n 4/23/21 rap - The ASI
could impact the project budget, schedule, system design, and planning decisions.				they have reached agreement that the project will move forward with	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. It	architectural changes are finalized Complete - DHS should finalize the				and other technologies being utilized. IVV will update the recommendations to include any infrastructure changes the new ASI may adopt, if any.	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
system design, and praining decisions.				not currently reflected in the project change log or the project decision log.  It remains unclear if the details of the rationale for this decision or the plan for integrating the two instances cost eo-live have been thoroughly vetted	<ul> <li>such significant future changes are not planned for now, the project is likely to see increased complexity, rework, and costs when integrating the two</li> </ul>	ly stakeholders and project teams. Complete 3/31 - The Project should				9/29/22 - No material update for this reporting period. 8/30/22 - No	require a CR.	for the two portal
										material update for this reporting period. 7/31/22 - IVV remains concerned with the lack of clear communication around the planned configuration		vision. We expect that final decisions will
				and/or documented. Further, there may be some uncertainty around	systems in the luture.	before finalizing architectural decisions DHS continue to request ASI				management tool and its intended use. DHS prefers Service Now but it is		likely be made during
				whether when/if all environments (including KOLEA and BES production) will be moved to the cloud.		perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders				currently not funded, and IVV is unaware of contingency plans in the event Service Now funding is not approved The project is currently assessing the		this reporting period and communicated to
				will be moved to the cloud.		to assure a common understanding of the implications of these decisions.	•			additional level of effort that will be required to comply with the latest		the project. The ASI
						The Project should continue to ensure communication between				revision (Revision 5) of Federally required security controls. IVV is concerne	d	refers the IV&V to our
						development leads and architecture leads to assure optimal collaboration on possible architecture changes that could impact decisions in each area.				that the move to Revision S and potential impact to the project architecture have not been broadly communicated to stakeholders. 6/30/22 - The ASI		February update regarding
						Maintain current communication processes to ensure regular				has stated that their cloud infrastructure will continue to evolve as the		Recommendation #3.
						communication between the architecture team and the rest of the project team to assess impacts of architecture decisions to the Project.				technology improves or the cloud provider(s) make changes and that some architecture decisions have yet to be finalized (e.g., use of Splunk vs.		From our perspective all necessary actions
						team to assess impacts of arcintecture decisions to the Froject.				Dynatrace). IVV has little to no visibility into whether these changes are		are complete. If the
										being effectively communicated to, or vetted by, the right stakeholders.		IV&V does not believe
										Further, the Project has previously stated their intention to utilize ServiceNow (SN) for Configuration Management (CM), however, it remains		it is Complete we request supporting
										unclear if progress has been made on finalizing this decision, how it will be used, how it will be licensed, division of responsibility between the		detail.
										used, how it will be licensed, division of responsibility between the ESI/DHS/ASI, and the status of funding for licenses. 5/31/22 - The ASIs		4/23/21 rap - The ASI
										addition of resources including backfilling of key positions may help to		and DHS continue to
										increase communication of architecture changes. The ASI stated they are evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS.		refine the final plan for the two portal
2 Late delivery of project deliverables has R		Fledie	11/28/2018 Project	Based upon the project schedule dated 11/26/18 (refer to schedule for		IN PROCEETS Deserting the second seco	TRD		0-	4/29/22 - The ASI OCM team is developing a communication plan for		vision. We expect that
2 Late delivery of project deliverables has Recaused schedule delays.	.yıd∏	Finding -	11/28/2018 Project Management	specifics), several due dates for project deliverables have been missed. As of	f deliverables may cause significant disruption to schedules or delays.	IN PROGRESS Despite not yet having a revised baseline schedule, continue monitoring and analyzing deliverables that may impact the critical path		3 3 Med	Open	10/31/2022 - The BES Project is being assigned to the new ASI and transitio activities are underway therefore no work was performed on the BES		7/20/21 RAP - The AS will continue to refine
-				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 t team should restart the weekly practice of reporting actions being taken for				deliverables in this reporting period. The ASI transition is planned to		the published schedul
				Plan (PMP), which is the formal document that is used to manage the	the Project can suffer unplanned consequences in scope, schedule, cost, an	team should restart the weekly practice of reporting actions being taken for late tasks and develop mitigation plans for those tasks that may be late.				complete in November, IVV will provide an update on this finding when the new ASI begins work on the project deliverables. 9/30/2022 - The DHS		based on feedback from DHS and the
				a backlog of Deliverable Expectation Documents (DED) requiring approval	y quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a				work stoppage halted all efforts on project deliverables. IVV will continue t	3	IV&V while we work
				and acceptance from the State.		revised schedule against which project deliverables can be managed. 9/30/2020 Recommendation - IVV recommends the project team evaluate				monitor this finding once the BES Project resumes. 8/30/2022 - The ASI is behind schedule with development activities which will impact the critical		through the final change request for the
						the estimating process to determine if changes should be made to reduce				path. Without an approved schedule, it is difficult to determine what is		ATC which is nearing
						the number of late tasks and or conduct a root cause analysis to determine				behind schedule and what impacts late deliverables or activities will have to		completion. Regarding
						and address the root cause(s) Closed 8/31/2020 Recommendations; - Prior to acceptance of the new baseline, finalize the needed updates to the				project deadlines. 7/29/2022 - Fewer project deliverables are delivered late, and critical path activities do not appear impacted when this happens		the recommendations Recommendation #1:
						project schedule to address the outstanding items/issues identified by DHS.				since they are not dependent on those deliverables. For example,		Based on progress
						the ASI, and IVV to include the Release 0.1 lessons learned Closed - Establish the process for DHS and the ASI to mutually agree to the revised				development delays found in Finding #80 do not appear to be caused by lab deliverables. Schedule impacts from late deliverables are minimal during		made to date, the ASI is hopeful, that we can
						project schedule baseline Complete - Establish the process for on-going				this stage of the Project as opposed to the planning/initiation stages where		agree in principle on
						schedule management and weekly updates, utilizing the Schedule				deliverables directly impacted subsequent activities. Given the reduced		the ATC change
						Management sub-plan of the Project Management Plan (BI-04) Complete 5/31/2020 - Finalize the updates to the project schedule to address the				impact this finding has on the Project, TVV is lowering the criticality rating to 'Medium'. IVV has separate findings for the BI-5 Project Schedule and BI-13		request in July and have a final schedule
						outstanding items/issues identified by DHS and IVV Closed. 5/31/2020 -				Security Plan deliverables. 6/30/2022 - The ASI continues to monitor project	t	published by the end
						Establish the process for DHS and the ASI to mutually agree to the revised				activities that may impact the critical path and conduct meetings to address		of the month.
						Establish the process for DHS and the ASI to mutually agree to the revised project schedule baseline. • Closed 3/31/2020 • Add all tasks that have been performed or planned to be performed in the interim schedule. Closed	n			activities that may impact the critical path and conduct meetings to address late activities. Although some late activities may not impact the critical path they may impact ASI and DHS staffing since they need additional time to do		of the month. Recommendation #2: The team has
						Establish the process for DHS and the ASI to mutually agree to the revised project schedule baseline Closed 3/31/2020 - Add all tasks that have been performed or planned to be performed in the interim schedule. Closed 5/20/2020 - effective 5/15/2020 the ASI is no longer maintaining the				activities that may impact the critical path and conduct meetings to address late activities. Although some late activities may not impact the critical path they may impact ASI and DHS staffing since they need additional time to do the unplanned work. The Project reported development activities are		of the month.  Recommendation #2: The team has reinstituted every
						Establish the process for DHS and the ASI to mutually agree to the revised project schedule baseline Closed 3/31/2000 - AGI at lasks that have been performed or planned to be performed in the interim schedule. Closed 5/30/2000 - Efective 5/15/2000 He ASI is no longer maintaining the interim schedule. IVV recommends that the ASI complete the Project Management Plan deliverable, work with DHS and IVV for review and edit as				activities that may impact the critical path and conduct meetings to address relate activities. Although some last activities may not impact the critical relations that they may impact AS and DHS staffing since they need additional time to do the unplanned work. The Project reported development activities are running behind in Releases 8, 9 and 10, but only 10 is impacting the critical path. The ASI is reviewing remediation actions. Additionally, based only		of the month.  Recommendation #2: The team has reinstituted every other week schedule meetings and is
						Establish the process for DHS and the ASI to mutually agree to the revised project schedule baseline. • Closed 3/31/2020 • Add all tasks that have been performed or planned to be performed in the interim schedule. Closed				activities that may impact the critical path and conduct meetings to address late activities. Although some late activities may not impact the critical path they may impact ASI and DHS staffing since they need additional time to do the unplanned work. The Project reported development activities are crunning behind in Releases, 8,9 and 10, but only 10 is impacting the critical		of the month.  Recommendation #2: The team has reinstituted every other week schedule