

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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October 13, 2022

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

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

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

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

Sincerely,

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: August 1 – 31, 2022

Submitted: September 16, 2022



Overview

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Engagement Status
- Appendices
 - A IV&V Criticality Ratings
 - B Risk Identification Report
 - C Acronyms and Glossary
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Executive Summary



In August, although progress occurred in some areas, the Project is facing significant challenges that must be addressed, including:

- Corrective Action Plan (CAP) DHS requested a CAP from the ASI to address the root causes of the continued schedule
 delays. The ASI provided a "plan to create the plan", requiring more time for the ASI to identify and document the muchneeded corrective actions. Should DHS accept this approach, the BES project duration is likely to extend further.
- Project Schedule Although the ASI agreed to provide a revised Project Schedule to DHS by August 12, 2022, the ASI failed to deliver, and they have yet to provide DHS with a revised target date.
- ASI Staffing As reported in prior status updates, the ASI stated the development delays were primarily the result of severe ASI staffing shortages. The ASI reported they developed a staffing mitigation plan but, have not shared it with DHS or IV&V. The ASI leadership communicated that they are pausing the implementation of the staffing mitigation plan until they have Project Schedule approval, but no Project Schedule was delivered to DHS.

IV&V continues to question the ASI's ability to deliver the BES solution in accordance with all contractual requirements. This is based on factual data that the ASI has not delivered the expected results as planned and scheduled over the last 4 years. This challenge is immense and requires strong experienced DD&I leadership to develop a realistic plan with a corresponding schedule and deliver the solution as planned.

Jun	Jul	Aug	Category	IV&V Observations
Н	H	Н	Project Management	This category remains a red status. The ASI did not deliver the revised project schedule or CAP as planned and has not completed the GCP Change Request (CR) for DHS' review/approval. (Red since July 2020)

Executive Summary

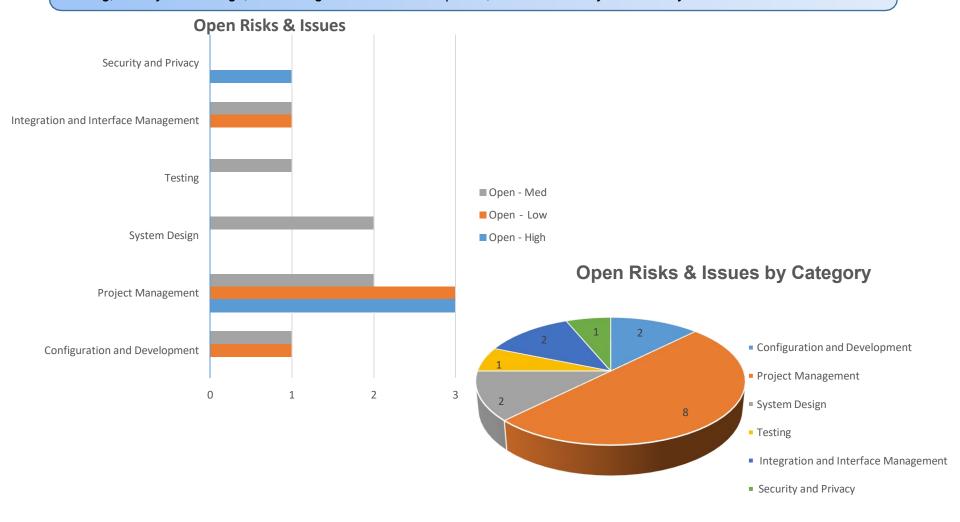


Jun	Jul	Aug	Category	IV&V Observations
M	M	M	System Design	Although the ASI is now assigning multiple Business Analyst (BA) staff to all design sessions, the Senior BA for the CMM module left the project, which may impact the project team's ability to facilitate the design and associated artifacts for this module.
M	M	M	Configuration and Development	The ASI plans to add 50 resources to the project to address the ongoing development delays. However, the ASI does not plan to hire those resources until the schedule is approved by DHS even though the ASI has not provided a revised project schedule to DHS for review and approval.
M	M	M	Integration and Interface Management	Progress toward finalizing the Memorandums of Agreements with two interface partners continued in August, with a third continuing to move through design. The lack of a schedule to share with the interface partners may have an impact to interface activities.
M	M	M	Testing	The ASI recommended an ADA Compliance tool to DHS. DHS is currently evaluating the ASI's recommendation. The ASI is waiting on DHS approval/acceptance before completing the purchase and installation.
Н	Н	Н	Security and Privacy	There continues be a significant amount of work for the BES Security functionality. The ASI is adjusting security staffing assignments to minimize the risk, but time is needed to determine the impact.



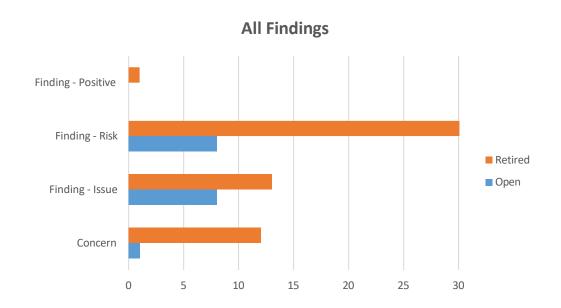


As of the August 2022 reporting period, PCG is tracking 16 open findings (9 risks, 7 issues) and has retired a total of 59 findings. Of the 16 open findings, 8 are related to Project Management, 2 in Integration and Interface Management, 1 in Testing, 2 in System Design, 2 in Configuration and Development, and 1 in Security and Privacy.





The following figure provides a breakdown of <u>all</u> IV&V findings (risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
16	Issue – Lack of clear understanding of the DDI approach may reduce effectiveness of all SDLC Processes. DHS leadership and IV&V agree that the new design process is understood by the project team and being followed. Therefore, IV&V is retiring this issue.	Configuration and Development
77	Issue – Insufficient DHS Security Resources on the BES Project may lead to delays in completing security tasks and the System Security Plan (SSP) – Low IV&V is retiring this issue as DHS has remediated the BES security staffing issue.	Security and Privacy



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Lack of the required ASI staff may reduce project productivity and quality of the BES design that may lead to schedule delays.	
81	Observation: DHS stakeholders and IV&V have observed that working session productivity has been hindered by the lack of sufficient knowledge, capabilities, and expertise of some ASI team members. IV&V acknowledges that some ASI staff are skilled and knowledgeable. However, lack of skilled and experienced staff in all design sessions will likely have negative downstream impacts. Additionally, the ASI recently announced the departure of some of their most capable and experienced resources.	Project Management

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 ASI is behind schedule with development activities which will impact the critical path. Without an approved schedule, however, it is difficult to determine what is behind schedule and what impacts late deliverables or activities will have to project deadlines.	M

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



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

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



#	Key Findings	Criticality Rating
43	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project.	Н
	DHS continues to seek applicants for the three PMO positions; these positions remain unfilled.	

Recommendations	
DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	s. In process
DHS consider other options (Contractors, State employees borrowed from other agencies) to fill these positi if there is ongoing difficulty in finding permanent hires.	ions 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. No material update for this reporting period.	L

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



#	# Key Findings	Criticality Rating
4	Issue – Poor quality project deliverables may impact system design, testing artisped schedule.	ifacts and the project
	No material update for this reporting period.	

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



#	Key Findings	Criticality Rating
	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.	
71	The ASI submitted a detailed project impact analysis to DHS and provided a demonstration of the current environment to DHS. The ASI is planning to provide DHS a GCP Best and Final Offer (BAFO) for review.	Н

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



#	Key Findings	Criticality Rating
	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.	
74	The ASI indicated that substantial changes and improvements were made to the schedule but did not deliver the revised draft to DHS by the August 12 th deadline nor has the ASI provided DHS with a new target date for delivery. Without a project schedule, it is difficult for the Project to plan future activities such as hiring required resources to staff the Project.	H

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



	#	Key Findings	Criticality Rating
,	76	Risk – Volunteer DHS resources leaving the Project may lead to schedule delays, lower morale, and burnout. No material update for this reporting period. IV&V continue to monitor.	M

Recommendations	Progress
Allocate more time for the DHS team members to dedicate time to the Project.	In process
 Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly. 	In process
Add cushion time to the schedule for unexpected project delays.	In process
 Provide incentives for the DHS resources to help maintain the project team and possibly alleviate attrition or increase the number of volunteers to the team. 	In process



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. The status-of the three remaining required agreements (DAGS, DLIR, HYCF) have not changed. The lack of a project schedule may impact the interface partners ability to plan for and support BES interface testing. IV&V is evaluating the lack of an approved schedule on the criticality rating for this finding.	

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



Integration and Interface Management

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

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



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. The ASI updated the Configuration Management Plan (CMP) with additional configuration management details.	L

Recommendations	
 ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS. 	In process
 ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track. 	In process
 Project work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project. 	Not Started



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Development delays could negatively impact the project schedule and delay go-live.	
8	The ASI continues to onboard additional development resources, stating they added 2 on-shore and 2 off-shore developers to their team. Though an updated schedule has yet to be completed by the ASI, they estimate they will need approximately 50 additional resources to assure adequate velocity and cadence to complete the project in the proposed timeframe. However, until a revised schedule is available the actual number of additional resources needed is not known. The ASI is delaying full recruitment for these positions until the project schedule is approved but have not submitted the revised schedule to DHS.	M

Recommendations	Progress
Complete and execute remediation plan based on the result of a Root Cause Analysis (RCA).	In process
ASI consider moving/adding/replacing project team resources strategically to effectively increase velocity.	In process
 ASI track and regularly provide DHS with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. 	In process



System Design

#	Key Findings	Criticality Rating
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework. The ASI's addition of senior BAs to the design sessions has resulted in improvement. The Senior BAs offer guidance to ensure the project team remains focused on the design. Unfortunately, one of the Senior BAs has left the project so it is unknown if this practice will continue for all BES design sessions.	M

Recommendations	Progress
The facilitator should use their expertise to drive discussions through leading questions.	In process
 BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on JAD/JAR notes and other pertinent material. 	In process



System Design

#	Key Findings	Criticality Rating
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. The ASI intends to engage two 3rd-party vendors to assist with the production environment build (once the GCP change order is approved), which could increase their velocity. The inclusion of these vendors could also mitigate the risk of maintaining a complex infrastructure if these vendors can provide experts who have significant experience with cloud infrastructure and related tools.	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
 ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied. 	In process
 The project team work to establish strong governance over the utilization and maintenance of various components to simplify their use and monitoring. 	Not Started
 ASI development team identify infrastructure components and techniques that are new to them and take action to assure potential integration problems do not lead to unexpected delays. 	Not Started



Testing

	#	Key Findings	Criticality Rating
	67	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework.	M
01	<i>.</i>	No change in status. Waiting on DHS acceptance/approval to move forward with purchase, installation, configuration, and implementation of the ASI-recommended ADA compliance tool.	*

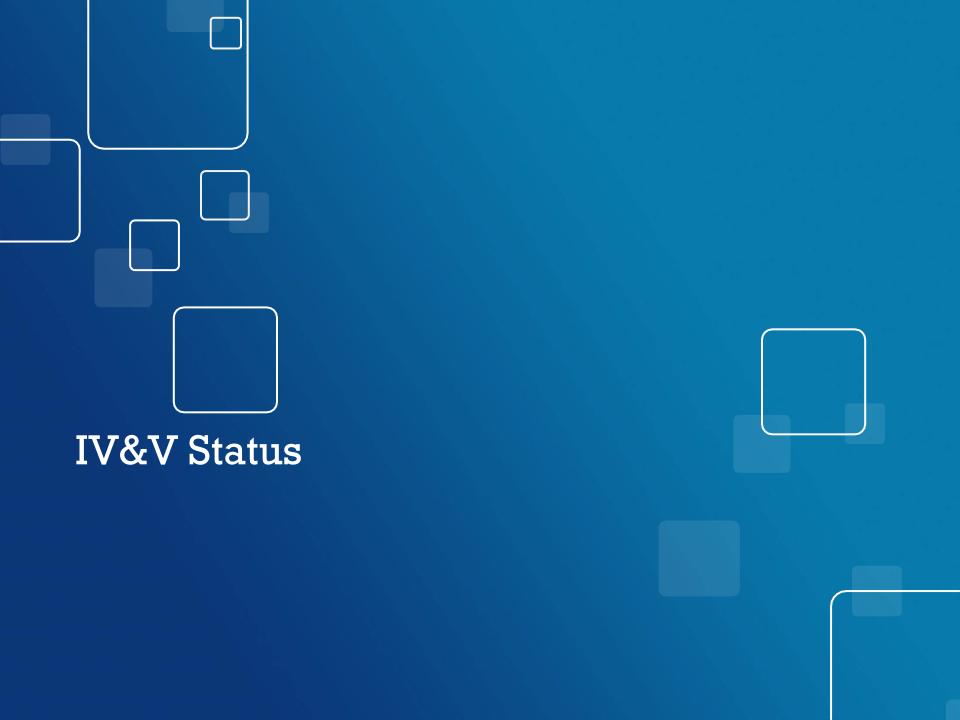
Recommendations		
The ADA tool meets contractual and project requirements.	In process	
The ASI communicates a plan for ADA test execution.	In process	
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process	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



Security and Privacy

#	Key Findings	Criticality Rating
68	Risk - Insufficient planning/execution of the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase. IV&V recommends that Security SMEs leading security and privacy-focused workshops and technical sessions have a depth of experience in NIST 800-53 and with experience authoring implementation	Н
	statements of System Security Plans (SSP). The ASI will be changing the ASI security lead in September 2022.	

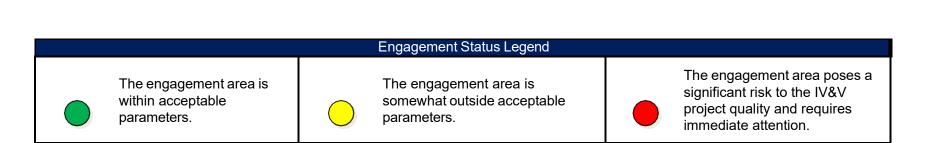
Recommendations	Progress
The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
 DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software).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



IV&V Engagement Status



IV&V Engagement Area	May	Jun	Jul	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final July IV&V Monthly Status Report.
IV&V Staffing				Al Pangelinan has left PCG and is no longer supporting the BES IV&V team.
IV&V Scope				



IV&V Activities



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

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-15 Release 0.8 Fully Configured and Developed System – DRAFT	8/26/2022	V0.2
BI-10 Release 0.9b CMM Broadcast Notification – DRAFT	8/25/2022	V0.1
BI-10 Release 0.8 FMM EBT Core(Iteration 3)	8/25/2022	V1.0
BI-10 Release 0.8 FIS Interface Consumption (Iteration 3)	8/25/2022	V1.0
BI-10 Release 0.8 FMM Card Issuance (Iteration 3)	8/25/2022	V1.0
BI-22 Release 0.9a System Test Report – DRAFT	8/24/2022	V0.1
BI-10 Release 0.10 FMM – DRAFT	8/15/2022	V0.1
BI-10 Release 0.9b Financial Management Module – DRAFT	8/55/2022	V0.1
BI-10 Release 0.8 FMM EBT Core(Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.8 FIS Interface Consumption (Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.8 FMM Card Issuance (Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.9 CF Create a Task - DRAFT	8/3/2022	V0.1
BI-22 Release 0.8 System Test Report (Iteration 1)	8/2/2022	V1.0

<u>Additional Inputs – Artifacts</u>



Artifact Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
FNS Handbook 901	01/2020	V2.4
BES Project Schedule (BI-5)	8/05/2022	_08052022
BES Weekly Status Report	8/31/2022 8/24/2022 8/17/2022 8/10/2022 8/3/2022	N/A
BES Risks and Issues Log	N/A	N/A
BES Interface Communication Plans and Interface Control Documents	N/A	N/A
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
BESControls_8_22_22.docx	8/22/2022	N/A
BES New System Certifications_8_28_22.pptx	8/28/2022	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. Weekly Platform Status Meeting 8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022, 8/30/2022
- 2. Bi-Weekly Project Status Meeting 8/3/2022, 8/17/2022, 8/31/2022
- 3. Bi-Weekly BES PMO and IV&V Touch Base 8/4/2022, 8/18/2022
- 4. Weekly BES Dev Stand-up 8/3/2022, 8/10/2022, 8/17/2022, 8/24/2022, 8/31/2022
- 5. Weekly BES Project Schedule Review Meeting 8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022
- 6. IV&V Team Meeting 8/1/2022, 8/4/2022, 8/8/2022, 8/11/2022, 8/15/2022, 8/18/2022, 8/22/2022, 8/25/2022, 8/29/2022, 8/31/2022
- 7. Weekly DHS-Unisys Security Touchpoint 8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022, 8/30/3033
- 8. C!A Bi-Weekly Meeting 8/4/2022, 8/4/2022, 8/18/2022
- 9. BES Security Controls Meeting 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 10. BES Testing Touch base 8/10/2022, 8/24/2022
- 11. HI DHS BES July Draft IV&V Report Review 8/11/2022
- 12. Bi-Weekly DHS and IV&V Touch Base Meeting 8/9/2022, 8/23/2022
- 13. ASI/IV&V Mid-month Check-in 8/19/2022
- 14. ASI and IV&V Pre-Draft Report Review 8/2/2022
- 15. Executive Steering Committee Meeting 8/18/2022
- 16. HI BES ASI and IV&V Touch Base Functional Team 8/17/2022
- 17. HI BES ASI and IV&V Touch Base Technical Team 8/17/2022
- 18. Monthly Project Risk and Issue Review Meeting 8/17/2022
- 19. Implementation Planning 8/10/2022, 8/24/2022
- 20. CO19 Manage Provider 8/1/2022, 8/3/2022, 8/5/2022, 8/10/2022

Additional Inputs – Continued



Meetings and/or Sessions Attended/Observed:

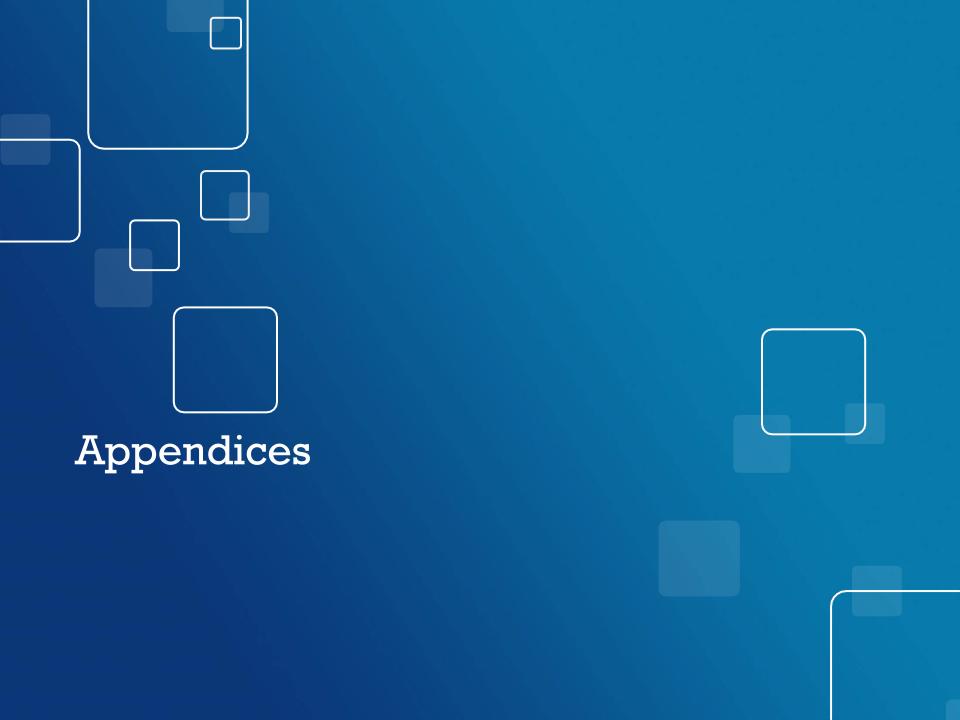
- 21. R0.13 Correspondence Specs 8/1/2022, 8/3/2022, 8/5/2022, 8/10/2022
- 22. CO23b Manage Interface Verification 8/1/2022, 8/3/2022,
- 23. FM50k Receive FIS Data Inactive/Dormant/Expunged File / FM50l Receive FIS Data Grant Expungement File 8/2/2022, 8/4/2022, 8/5/2022, 8/9/2022
- 24. R0.14 Report Specs 8/2/2022, 8/3/2022, 8/3/2022, 8/4/2022, 8/9/2022, 8/11/2022, 8/15/2022, 8/18/2022, 8/23/2022, 8/24/2022, 8/25/2022, 8/29/2022, 8/30/2022
- 25. Manage SMRF 8/2/2022, 8/4/2022, 8/9/2022, 8/10/2022, 8/11/2022, 8/16/2022
- 26. CO11 Restore Program 8/2/2022, 8/4/2022, 8/9/2022, 8/11/2022, 8/29/2022
- 27. PE04 Override Eligibility 8/3/2022, 8/9/2022, 8/11/2022, 8/16/2022, 8/18/2022, 8/23/2022, 8/24/2022
- 28. FM53 Receive Lockbox Data 8/4/2022, 8/10/2022, 8/18/2022, 8/23/2022, 8/23/2022
- 29. CF52a Manage Documents 8/12/2022, 8/15/2022, 8/17/2022, 8/22/2022
- 30. FM23a Manage Write-Offs 8/12/2022, 8/16/2022, 8/18/2022, 8/23/2022, 8/25/2022, 8/29/2022
- 31. FM51b Receive FNS Data 8/15/2022, 8/17/2022, 8/22/2022, 8/24/2022, 8/24/2022, 8/30/2022
- 32. CO54b Send BEER Data 8/16/2022, 8/18/2022, 8/23/2022, 8/29/2022
- 33. CF71 Manage Supervision 8/17/2022, 8/22/2022, 8/23/2022
- 34. FM30 View Overpayment List 8/29/2022
- 35. PE11a Review Additional Budget Details 8/29/2022
- 36. IF25 CYRCA ICD 8/30/3033
- 37. MDM Consent Management 8/30/2022
- 38. Weekly Functional PMO Meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/22/2022, 8/29/2022
- 39. Data Conversion PMO meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/29/2022
- 40. Weekly Interfaces PMO Meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/22/2022, 8/29/2022

Additional Inputs – Continued



Meetings and/or Sessions Attended/Observed:

- 41. PMO Meeting Structure Testing 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 42. PMO Meeting Structure BES Development 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 43. PMO Meeting Structure AH/MDM/SSP Development 8/9/2022, 8/16/2022, 8/23/2022, 8/30/2022
- 44. BES Design Sprint Retrospective & Planning 8/5/2022, 8/26/2022
- 45. BES CCB Monthly Meeting 8/10/2022
- 46. DDI Architecture Review 8/4/2022, 8/22/2022
- 47. [BES] Screen Prototype Review FMM FM50k Receive FIS Data Inactive/Dormant/Expunged File / FM50l Receive FIS Data Grant Expungement File 8/11/2022
- 48. [BES] Screen Prototype Review CMM CO19 Manage Resources 8/11/2022
- 49. R0.9 SIT Go/No Exit 8/16/2022
- 50. [BES] Screen Prototype Review CMM CO14 Manage SMRF 8/18/2022
- 51. Disqualification List 8/23/2022
- 52. [BES] BI-22 Release 0.9a Walk-Through System Test Report 8/25/2022
- 53. [BES] Screen Prototype Review CMM PE04 Override Eligibility 8/25/2022
- 54. [BES] Screen Prototype Review FMM FM53 Receive Lockbox Data 8/25/2022
- 55. [BES] RO.9c Sprint End Client Demo SSP Accessibility 8/29/2022
- 56. Review Draft UAT Outline 8/31/2022





Appendix A – IV&V Criticality Ratings

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

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



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



Appendix C – Acronyms and Glossary

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



Appendix C – Acronyms and Glossary

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

Appendix D – Background Information



Systems Modernization Project

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

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

Systems Modernization IV&V Project

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

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

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

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

Appendix D – Background Information



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

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

PCG's Eclipse IV&V® Technical Assessment Methodology

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

IV&V Assessment Categories for the BES Project

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

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

Ending Slide



Solutions that Matter

D		Finding	Identified						Analyst	Finding	
Lack of the required ASIstalf may reduce project productivity and quality of the RSS design that may lead to schedule delays, that may lead to schedule delays.			Date Category 9/8/2022 Project Management	expertise of some AS team members. I'vi acknowledges that some AS staff are askled and knowledgeable. However, lot of silled and experienced staff in all design sessions will filely have negative downstream impact. Additionally, the AS its entering amounted the desparture of some of their most capable and experienced resources.	productive, and high-functioning team. If the ASI is not all tell to maintain high year of team, project schade in risk could be rease. The ASI is receively high productive productive and the country of the country o	Accommendation	Event Horizon ASAP	Impact Probabl	3 Hgh	Status Open	State Update Comments Vendor Comments
80 Development delays could negatively impact the project schedule and delay go live.	t Michael Fors	+inding -	6/30/2022 Configuration and Development	unable to achieve and/or maintain their expected development velocity. The ASI is working to produce a root cause analysis and remediation plan to address these delays, however, both have been delayed. Previously, the	delays may lead to a delayed system go-live date. Fallure to achieve a level of accuracy in estimating development tasks challenge DHSI in planning for their project activities. DHS has indirected, and I/V agrees, that some of these delays could be due to some ASI BAs tacking the expertise required to create system designs and specifications that developers could consume without having to get extensive clarification from the ASI BA/SA team. DHS	team resources strategically to effectively increase velocity. Note that adding additional junior resources may not be as effective as staffing additional expert-level development, analysis, and other resources. • Request the ASI effectively track and regularly provide DHS (potentially via	immediate	3	3 Med	Open	OUR JOINT 2—The AST continues to solutions development recourses, statisting they add of a book near ast 2" of the overloopens to the time. Though an angelated schedule has yet in the completed by the AST, they are already to the completed by the AST, they are already to the complete by the AST, they are already to the complete by the AST, they are already to the complete by the AST, they are already to the complete by the AST, they are already to the complete by the AST, they are already to the AST, they are already to the AST, they are already to the AST, and they are already the AST, and
79 External vendor delays in development of the BES task management system (Current) interface have impacted the project schedule.		ksue	6/3/2022 Integration and Interface Management	ASI has not received any status from CLA. The webbook is currently holding up the design of the CF44 – Manage CLA Data use case for Release 0.8.	developed by the Charge and Innovation Agency (CIA). The Department of Human Service (Dirk) uses the Current special to the manage and create care related texts. The sevent Estigability Solution (ESS) will interface with the seventhern control of the Company of the Company of the Company seventhern to Current Service (Service Service Servic	Scheduler reurning meetings with C1A to ensure consistent communication between DES, the S(N) vs. and C1A. Completed. The ASI provides. The ASI provides to result from the task management integration to ensure that the interface works.	Q3	5	1 Med	Open	ORX/DIZ - No material update in the reporting period. 68(7)(1/1022 - 16%) has accided not be tablish an agreement with cliff because this currently has subscription that includes the BES registerment. In addition, ORX and the AIS we established bisweetly meetings with the fast management window. 69(7)(2)(7)(2): The table to be a subscription of the subscription of
76 Volunter Diff resources leaving the Project may jet als Seculded delays, Jowered morale, and burnout.		Finding -	JAZ-002 Project Management	The DHS recourses assigned to work with the ASI on the BHS Project are all volunteers encapt on. Resources are not indecluted rices within the team and have the option of returning to their previous operational roles at any time.	The replacement of this resource in project rotes (e.g., testers and product owners) is not guaranteed and to this ready stated that no additional resources with be assigned to the test team. It is a risk to the Project that the additional resources with beauting the testers and the project that the additional acquired to the project that the additional project that the additional project that the project is death to an acquired management of the project resources.	the DHS resources and adjust dates in the BES Project schedule accordingly. • Add cushion time to the schedule for unexpected project delays. • Provide	immediate	•	2 Wed	Open	MUNICIPAT Nominative all update for their reporting persols. We cention be monitor. 17/12/12/21. Nominative all update for their reporting persol. 1/6/20/21. In Janue, 10% staked the following five rate for the fast Sirveptor. 1/6/20/21. In Janue, 10% staked the following five rate for the fast Sirveptor. 1/6/20/21. In Janue, 10% staked the following five rate for the fast Sirveptor. 1/6/20/21. In Janue, 10% staked five following five rate for the fast Sirveptor. 1/6/20/21. In Janue, 10% staked five following five rate for the fast Sirveptor. 1/6/20/21. In Janue, 10% staked five plan on adjusting staff is received and pro-served year where the propriet chandles to indentify future. 1/6/20/21. In Janue 10% staked five five following five five five five five following five five five five five five five five
74 The lack of a BES Project schedule based on accurate estimations deminishes effective and the schedule schedule schedule colder result has dediversables, cost increases, and a late go-live.	Ryan Tan	Finding -	11/29/2021 Project Management	results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use	If estimates for project schedule activities are not accurate, this can lead to constant chedule changes, resource not being available when needed, the constant chedule changes, and the constant chedule schedule deliver, low quality output, stope changes, and budget tosses.	 Using the available tools, review the current estimates to complete each activity compared to past actual from * slipidue is necessary and provide the compared to past actual from * slipidue is necessary and provide the DRS/AST resource needs slong with over planted estimations of staff for the distriction of the Project * Stossa, validate and address additional concerns within the project processes that may cause the project delays other than inaccurate estimates such as over relaxer on PS_x flow degray other than inaccurate estimates such as over relaxer on PS_x flow degray order than inaccurate estimates such as over relaxer on PS_x flow degray revised schedule against which project deliverables can be managed. 	Immediate	4	4 High	Open	process, losing renounces will have increased impact on delivery and the \$1,31,2022—7-the \$1,0144 inclined that substantial hadges and improvements were made in the schedule but did not deliver the revised of ont to the following the schedule of the sche

ID Title Reporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Prob	Analyst ability Priority	Finding Status	Status Uodate	Client Comments	Vendor Comments
72 The planned BS: Infrastructre is compile: Michael fors which could be difficult to implement and lead to schedule/cost impacts.	Finding- Pesk	10/28/2021 System Design	Curren & Si infrastructure plans include a significant number of sophisticated compens that make up a complex cloud infrastructure. Further, the Project Team has yet for finalize components that will make the ESI officiaris used and the additional cost and time to configure, text, and explanates the planned complex environment remain sercicles.	infrastructure is not accounted for and staffed by the ASI, the project could be me with unspected costs and schedule delays. Delays in fisalising the components being implemented could execute the thirs as and lead to further delays. Complete jathoris mother present system and lead to further delays. Complete jathoris mother present system increased potential for rystem failure (i.e., due to the significant number of "moving parts") and recrease the level of time and effort to resolve infrastructure and application-level bugs. Further, some components remain in an inimutar test compared to their legicy countreports. For example, the project recently experienced a system failure because Configure component is considered in the configuration of the configuration of example. The project recently experienced a system failure because Configuration commonent is a. News. Coaste Coast in certain Venezia as a less makers and the commonent is a servative.	implement and maintain the planned infrastructure. The Architecture process bound involves the part provide a decidation impact of DRS architectural decidions too include the integration activities; support measured, and maintainment and operations impacts. 4 of This service with the required, and maintainment and operations impacts. 4 of This work with the read of counter that the process of	Net sevral month	3	3 Med	Open	Deligible 2. The ASI intends to engage the life jointly wedner to suits with the production environment build (precise the C-hange don's is approved, which could increase their velocity. In birulation of these velocity could under the production environment build (precise the C-hange don's is approved, which could increase it may be increased to the country of the		
The back of the final agreement on the cope Joe Frasca and cut of the Gingle Closel High many (GCT) Change Request (CI) may lead to unanticipated ORFS costs, schedule delays, and/or the need to reduce scope.	Finding - Issue	8/23/2021 Project Management	however, not all details were vertice at that point in time. In the July/Jugos 2020 timerfarms, for an other Asia greed not well BES environments. 2020 timerfarms, for an other Asia greed not well BES environments with the second of the State of the St	maintenance of could environments from the ISIs to the AXI was included in the AXI/INIS SLOW FOUNTED ATMENDED THE CONTROL AND AXI WAS A THE AXI WAS A		АЗАР	4	4 High		and techniques that are new to them and make effort to assure potential JAJ/JAJ227. Table Marker missed advantage once and small of the JAJ/JAJ227. Table Marker missed advantage once and the provide chiral scale for the chiral potential provides and planning to provide chiral scale from a chiral potential provides and downward to this forth head parental provides may be GC PC. The All is preparing a proper impact analysis and will subsert a formal documents to the holispast 2022. All vocations are servicessing and provides chiral provides on the provides of the scale of the provides on provides chiral provides (All potential). The provides was the all residual production controlments for ESIs is solvenow allong with the roles and reasonablished and be all the production controlments for provides chiral provides (All potential). The provides are provided to chiral provides and the production controlments for production controlments for ESIs is solvenow allong with the roles and reasonablished and the chiral provides are chiral provides and solvenows. All provides are time to complete by the first are not ask and admitted in the school provides and the chiral provides are school to a school provides and the chiral provides are school provides and the chiral provides are the school provides and the chiral provides are the school provides and the chiral provides are school pr		5/h/2011 - RAP: Prosts of clarification. The office of clarification and control of clarification and control of clarification. The clarification and control of clarification and clari
70 insufficient configuration management Michael Fors could lead to development configuration and a reduce the effectiveness of defect resolution	Finding - Risk	8/33/2021 Configuration and Development	The Bit GOD IFAn Deliverable, Section 5.2 establishes the framework for the Configuration Management Plan, however, it remains unclear it sufficient progres has been toward establishing CM processes, selecting CM took control of the Configuration of the Configu	Configuration Management is a set of processes and procedures that ensures the EEs is indentioned and work on cerviley. The EEs solution necessary of the process of the process of the configuration of the process of	OPEN -34 adhere to plans for configuration management as documented in 86 DDP has, Factor 5.2 and carriery feeting and or any exages with DRS -343 variation plans for configuration management with DRS and Variation plans for configuration management with DRS and Variation plans for configuration management experience of the Configuration management to or and DRS work to fund and procure a CN tool, as requirent, to avoid an employment plans for the project COMPMETED * suggister, to avoid an employmen impacts to the project COMPMETED * suggister, to avoid an employmen impacts to the project COMPMETED * world provide oversight of configuration management activities and assure defined CM stages and plans are being followed, are effective, and are achieving DRS objectives for CM. 7/31/2022	ASSP	2	2 low	Open	GIU/QUIZ — The ASI updated the Configuration Management Film (CMF) with additional configuration management desilo. 1972/722: CMF has additional configuration management management feel for. 1972/722: CMF has work with for configuration management efforts. (NV treasins concerned that to one configuration management efforts have yet to be finished and the list of carling various the CMF database (CMGI) tools. For example, it immunits uncincer with CMF tool will be used reflected to the configuration feel to the configuration to the configuration feel to configuration feel to the configuration feel to the confi		9)/ICZL: ABAP We have determed to be determed to be considered with the control general to receiving specific incurrence and the ICZL steam on configuration and habring conversations, which do acknowledge that the plan likely needs to be updated to receive the ICZL steam of the ICZ
68 Insufficient glamming/lescusion of the BLS Dustin Heath Security/Real Artificies may lead to delay in gailining Federal Plantner approval for the BES Project to begin the Plot Phase.	Floding - Resk	7/28/201 Security and Prisacy	Over the last several months, the BLS project team has been working through the planning efforts to develop the 13-1 Security Plan while also managing through AS Security used staffing changes. DRS and the ASI agreed to modify the LB Security Plan Enderwise LB Security Than Developed to Asia and the ASI agreed to modify the LB Security Plan Enderwise LB Security Than Developed to Asia plan to the requirements and changes to the project since technique.	The BIS project must have a close plan to define, implement, set, and validated all Security and through Regular most contenting the Pilot phase. There are many standards that must be met, and the project man plans to suits the BIS Security Control implementation Workhook to the map plans to suits the BIS Security Control implementation Workhook to Workhook to the suits of the BIS Security Control implementation (might be suits of the BIS Security Control implementation plan along with evidence for each control.	collaboration with DHS DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risk), stosse, evidence) along with the Requirement Traceability.	ASSP	4	S High	Open	ON/JUZIOZE — NV recommends that Security MMS is leading security and privacy focused workings and selectival securities have a sign of a experience in MST 800-33 and with perprivacy authoring implementation statements of system focus (VIV) ASS (2017). The ASS (8 Med New Security (ASS (100 Med New Security MSR (2007) in ASS (4 Med New Security ASS (100 Med New Security ASS (2007) in ASS (4 Med New Security ASS (100 Med New Security ASS (100 Med New Security ASS (100 Med New Security (ASS (100 Med New Security ASS (100 Med New Security ASS (100 Med New Security (ASS (100 Med		9/h/2021 - RAP: The decision to move to GCF for deployment for the complete result of the complete result for a complete result of the security plan per DRS. The ASIs in the process of the security plan per DRS. The ASIs in the process of the security plan per DRS. The ASIs in the process of the process o

ID Title Reporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon Impac	ct Proba <u>bilit</u>	Analyst ty Priority	Finding Status	Status Update	Client Comments	Vendor Comments
67 The Americans With Disabilities Act (ADA) Earl Burba	Finding -	7/12/2021 Testing	While R0.3 and R0.4 reported that Section 508 compliance had been	There is a contractual obligation and requirement for BES to be ADA	1/31/2022 - The following recommendations will be evaluated for this	As soon as possible	3	3 Med	Open	8/30/2022 - No change in status. Waiting on DHS acceptance/approval to		
Section 508 compliance tool has not been installed for the Project, which may cause	Risk		successfully completed the ASI confirmed that there is currently no working tool installed and that Section 508 compliance testing has not been	compliant to obtain State and Federal funds for the development of the BES. The ADA Section 508 intent is to make electronic and information	finding The ADA tool meets contractual and project requirements The ASI communicates a plan for ADA test execution The ASI					move forward with purchase, installation, configuration, and implementation of the ASI recommended ADA compliance tool. 7/27/2022 -		9/9/21 - RAP: The A has invited the IV&N
installed for the Project, which may cause 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 a plan for ADA test execution The ASI communicates how the tool will be used to report compliance and non-					The ASI successfully completed the ADA compliance tool proof of concept		to make contact will
			months, but there have been evidence of results to-date. The ASI did state	technology accessible to people with disabilities (e.g., color blindness, vision and hearing disabilities), in a way that is comparable to the access	compliance and how non-compliance will be addressed/corrected The					and provided reports to DHS for their review and approval. The final steps		the development te
			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					remaining would be the purchase, installation, and implementation of the		to review the result
			top tool for ADA compliance as an interim solution. IVV has not received any data to demonstrate the desk-too tool results nor if it provides coverage	"all applicable State and federal policies, laws, regulations, and Standards, including without limitation the Electronic and Information Technology	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					tool. 6/29/2022 - The ADA compliance tool is still in the trial phase and a compliance report will be run once the initial testing has been completed.		of the desk-top tool gain insight. To date
			for all ADA compliance items.	Accessibility Standards associated with Section 508 of the Rehabilitation	ASI validates it will perform as expected within the BES architecture,					The ASI is expected to provide results of the testing to DHS when the trial		the IV&V has not
				Act., which was verified in the ASI proposed Technical Requirements	meeting all contractual and project requirements. The ASI create and					phase is finished, and the report generated. 5/31/2022 - The ASI has		contacted the
				Approach that states "The system complies with DHS branding standards as defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	communicate the plan for when the ADA compliance tool will be put into action, how the tool will report compliance or non-compliance, how non-					identified an accessibility compliance tool that will meet the needs of the		development lead to have further
				parts of Section 508 of the Americans with Disabilities Act (ADA),	action, how the tool will report compliance or non-compliance, how non- compliance will be corrected, and how and when DHS/IVV will be provided					Project and DHS has approved opening a firewall to facilitate a demonstration of that tool. The ASI completed a Proof of Concept for the		have further discussions on this
				nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	the reports from the ADA compliance tool and how to interpret those reports for the code from previous, current and future releases.					tool and now needs to 1) receive DHS approval to use the tool, 2) purchase		topic.
				(https://www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS	reports for the code from previous, current and future releases.					the tool, 3) configure the system to accommodate the tool, and 4) institute		
				Guidelines from the 901 Handbook, and contractual obligations to adhere to the Section 508 compliance guidelines (https://section508.gov/) there may						the tool into the delivery pipeline. 4/26/2022 - The ASI is evaluating four		
				be a significant amount of rework to the solution.						ADA testing tools for consideration due to high pricing for the tool selected in March. This tool was demonstrated to the ASI and appeared to provide		
										the required reporting features and the needed integration with the BES		
										architecture. A second ADA tool under review has a proof of concept		
										scheduled for the week of 5/1/2022. The ASI has stated that little impact is expected from the delay in performing ADA compliance testing and that a		
										expected from the delay in performing AUA compliance testing and that a tool will be tested and selected shortly 3/28/2022 - The &SI testing lead		
										tool will be tested and selected shortly. 3/28/2022 - The ASI testing lead confirmed that an ADA tool has been selected for consideration and a		
										demonstration held. Next step is to execute a proof of concept within the		
										BES application. To mitigate this risk, the ASI stated that problems identified		
										by a tool or through manual evaluation to Section 508 criteria for web applications can be easily rectified with little impact to development and		
63 The lack of early planning and coordination Michael Fors	Finding -	1/21/2021 Integration and	The following planning and execution items have not yet been addressed	Interfaces is one of the areas where DDI projects often underestimate the	OPEN 5. Complete all MOAs and obtain approval. 6. Confirm testing dates	Q4 2021	4	1 Low	Open	08/26/2022 - The statuses of the three remaining required agreements (DAGS, DLIR, HYCF) have not changed. 08/01/2022 - DHS executed the DPS		
with interface partners may result in	Risk	Interface	and documented by the ASI Connectivity is planned to utilize a presently	time needed to effectively manage all the tasks and activities to successfully	with interface partners in writing, COMPLETE 1, Establish a communication					(DAGS, DLIR, HYCF) have not changed. 08/01/2022 - DHS executed the DPS		
schedule delays.		Management	undefined ETS API Gateway; however, there is no evidence that details have	implement data sharing. A clearly defined communication plan and	plan for each interface partner for the duration of the BES DDI activities.					agreement (MOA) on 07/20/2022. The statuses of the three remaining		7/20/21 RAP - The AS team requests that th
			been determined or documented in this regard There is little evidence of active and sufficient communication with interface partners for	schedule that includes the coordination, planning, and execution activities along with milestone dates may minimize the risk of possible delays. In	10/29 COMPLETE 2. Identify and document all interface partners' contacts. COMPLETE 3/31/2022 3. Define a release schedule for each interface to					required agreements are as follows. The DAGS agreement is moving forward with design work. DHS reviewed the DLIR MOA and resubmitted it to DLIR.		team requests that th IV&V reassess the
			coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	addition, after planning has been completed, interface partners will have to	include milestone dates, coordination, and execution and share with the					The latest draft of the HYCF was sent to the DHS Directors' office with		severity of this risk in
			planning and execution tasks and activities, including those for interface	addition, after planning has been completed, interface partners will have to be available during interface implementation to ensure that the interfaces	interface partners. 01/04 COMPLETE 4. Determine which deliverable will					feedback from BESSD and MQD. 06/30/2022 - There are 4 agreements		light of the following
			partners, are neither resident nor managed within the Project Schedule	are properly tested before deploying the system to production.	include the details associated with the planned connectivity and detailed					outstanding (DAGS, DLIR, DPS, and HYCF). DHS plans to discuss the		reasons: a) the ATC
			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					agreement at the next meeting with DAGS, which is tentatively scheduled		schedule extension has made the urgency
			interface partners during interface implementation after MOAs have been approved, testing dates have been confirmed, and communications have							for 07/06/2022. DHS is currently reviewing the DLIR, DPS, and HYCF agreements. 05/31/2022 - There were no changes to the interface		for tackling these
			been frequent.							communication plans in this reporting period. There are 5 agreements		tasks less than it was before that started
										outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF, and DLIR have		before that started
										all been drafted and are going through reviews with DHS and the interested parties. DAGS has not been drafted by DHS; DHS is in discussions with the		lessening the schedul risk, b) the increase
										Department of Tay for an interface that would hunges DAGS. The CYRCA		from Medium to High
										Department of Tax for an interface that would bypass DAGS. The CYRCA interface has been escalated within DHS as the business requirements		in May was based on
										CYRCA meets are being evaluated by DHS executive management. IVV has		misunderstanding of
										opened a new issue #79 related to vendor development delays for the task		the current state of the MOA's and
										management software. 04/28/2022 - There were no changes to the interface communication plans in this reporting period. The DAGS. DLIR.		contact metrics c)
										DOH, and HYCF agreements are still outstanding. In addition, there is a new		substantial progress
										element to this risk regarding DLIR because the interface will not be able to		has made against eac
										offer additional data elements which DHS needs. 03/29/2022 - There were		of the In Progress
										no changes to the interface communication plans in this reporting period. 02/25/2022 - There were no changes to the interface communication plans		recommendations, and it continues to
										in this reporting period. 01/28/2022 - There were no changes to the		trend in the right
										interface communication plans in this reporting period. Based on		direction. In regards t
61 Poorly executed JAD and design sessions Brad Molina	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	ASAP	2	5 Med	Open	8/31/2022 - The ASI's addition of senior BAs to the design sessions has		
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)	through leading questions BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of region with adequate					resulted in improvement. The Senior BAs offer guidance to ensure the		9/9/21 RAP - The
			goal of the JAD, overview on the process and the importance of their participation On many occasions the conversation needed to be driven by	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	knowledge about business process and approach for design based on					project team remains focused on the design. Unfortunately, one of the Senior BAs has left the project so it is unknown if this practice will continue		IV&V does participate
			leading questions, as expected, but was instead lead by business users -	the users and clients? Incomplete or unclear JAD sessions with insufficient	JAD/JAR notes and other pertinent material. Closed - JAD and design					for all BES design sessions. 7/31/2022 - Although the ASI has implemented		in many facets of the
			Too much pause time when participants did not know the answer to a	documentation could lead to a poor design, lacking the details needed to	sessions should be lead by experienced senior BAs, with goals, objectives					preparatory sessions for their Business Analysts (BAs) prior to design Sprint Day 1, IVV continues to observe occurrences of BAs not being fully prepared		deisgn process
			question; several occasions where complete silence on the call for 30 seconds or more - Lack of thought leadership from the ASI on how	support business requirements; as well as missing opportunities to improve workflow and related system design.	and results communicated to all participants. (additional Senior BA being added, rest of recommendation being met - Closed 4/30/2022) - The DHS					Day 1, IVV continues to observe occurrences of BAs not being fully prepared for the initial session. DHS has also raised concerns that the ASI support		including screen moc up reviews, backlog
			workflow could be designed to ease/improve process for client	worknow and related system design.	and ASI product owners should actively participate to ensure the system					admins are not always assigned to meetings, leaving the BA solely		grooming sessions,
					meets the requirements, designed taking advantage of new technology and					admins are not always assigned to meetings, leaving the BA solely responsible to lead discussions and capture notes, update artifacts, and		and Sprint demo's.
					aligns to the 'to be' business process. (Closed 4/30/2022) - The ASI should					capture action items. DHS requested the ASI to address these concerns		Product owner
					back-track significant differences in design direction to determine the root cause to identify these items as early in the SDLC as possible. COMPLETE -					going 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		discussions are mean to have limited
					The Product Owners should have more direct interaction with the					process and conducting prep sessions with the ASI Business Analysts (BA)		participation. The
					development team, proactively seeking collaboration. 10/5/21 Complete -					prior to each Sprint. These pre-sprint sessions with BAs are starting to		team is concerned
					The Functional Design Document process, to include the Design Sprint concept, should be clearly defined and shared with all project team					address the remaining recommendations. IVV will continue to observe and look for impactful results from these latest changes to the process.		about the participation of the
					concept, should be clearly defined and shared with all project team members. (Closed, 1/31/2022) - Invite IVV to all future design sessions and					look for impactful results from these latest changes to the process. 5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use		participation of the IV&V for two main
					design sprints to allow IVV to observe and assess the effectiveness of the					Cases to build knowledge of common business processes, strengthening		reasons: 1) IV&V doe:
					revised design processes. (Closed, 1/31/2022) - ASI and DHS should work					their facilitation during design meetings. DHS Lead Product Owners are also		not always stay silent
					together to vet the in-progress design with all SMEs for the area of focus.					taking an active role to ensure the BES Design meets the requirements as		in discussions on
					(being met by new design sprint process, closed 2/28/2022) - ASI staff all design sprint meetings with additional support staff to ensure the meetings					noted in this month's positive finding. 4/30/2022 - The ASI is working to mitigate the issues raised regarding inconsistent BA performance including		design despite assurances from the
					design sprint meetings with additional support staff to ensure the meetings are adequately documented and ASI Business Analyst are not running the					mitigate the issues raised regarding inconsistent BA performance, including the migration of Senior BA to CMM team and providing additional		IV&V PM that it is not
					meetings alone. Complete 7/31/2022					training/onboarding for new BAs. Additionally, a System Analyst will		their role, and 2) IV&
										participate in early days of design sprints to help with initial discussions of		participtation typicall
										design. The IVV team and DHS look to observe improved facilitation in design sprints as these changes take effect. An additional recommendation		drives what are mean to be informal
49 Poor quality project deliverables may impact Brad Molina	Finding -	4/16/2020 Project	In April, four BI-10 design deliverables and one Interface Control Document	The staff time spent on reviewing deliverables is exceeding the nian for all	- IVV recommends that a facilitated root cause analysis be performed by the	Immediate	2	2 Low	Open	9/21/2022 - No material undate for this reportion period 7/21/2022 - The	06/30/2020 - New deliverables this month included BI-10 and RI-20 RI-10)
system design, testing artifacts and the	Issue	Management	deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents	project entities and has caused schedule delays due to the associated	ASI with DHS and IVV in attendance. Quality issues are rarely generated by					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	was initially called back for quality issues, and the issues were corrected.	7/30/21 RAP - The AS
project schedule.			comments submitted for each of these deliverables. The documents	rework needed for remediation. If poor quality deliverables continue to be	single entity in a project, so there could potentially be multiple causes or					which will be addressed in the CAP. 6/30/2022 - No significant change to	DHS is not comfortable with BI-10 re-format, will be revised again.	team will review and
			exhibited erroneous information, a lack of a logical organizational flow, an insufficient level of detail, and a lack of understanding of the subject matter	produced and submitted for review, this can continue to result in unproductive use of time, unanticipated rework, misguided development	root causes of this current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns					the status of this finding although ASI has assigned a resource to research a solution for creating quality metrics. 5/31/2022 - The revised DDI process,		respond to this issue again when a materia
			from both a functional and technical perspective. DHS logged this issue in	and testing activities, potentially unfulfilled functionality, and additional	on in-process deliverables prior to submission of subsequent deliverables					in particular the design sprints, is bringing more focus and attention on		update is made by the
			the Project Issue Log for corrective action by the ASI. The ASI acted by	schedule delays.	on in-process deliverables prior to submission of subsequent deliverables] Closed 7/30/2021 - ASI reviews its Quality Management Plan to ensure that					in particular the design sprints, is bringing more focus and attention on design documents, which has a positive effect on quality when measured by		IV&V. We also
			conducting an internal root cause analysis and provided DHS and IVV the		the Project is working within the guidelines of this Plan document. In					the lower number of comments in deliverable reviews. IVV will validate this		recommend the
			high-level results.		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					metric is fully documented in the Quality Management Plan, when published by the ASI. 4/30/2022 - No material update for this reporting period as IVV		rethinking of the first
					and product quality by 1) selecting BES implementation process and product					awaits updates to the Quality Management Plan 3/30/2022 - When		recommendation based on the
					attributes to measure; 2) selecting component activities to measure; 3)					awaits updates to the Quality Management Plan. 3/30/2022 - When Release 6 final test results are published, IVV will re-evaluate this finding.		assessment from the
					defining value scales for each component activity; 4) recording observed					2/28/2022 - IVV continues to review the Release 0.6 test results and		IV&V that this is a low
					activity values; and 5) combining the recorded attribute values into a single					available metrics. The initial results show a positive trend, which is		risk. The tone, tenor,
					number called a process quality index. IVV has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality ASI					encouraging since Release 0.6 has the most complex functionality developed and tested by the project team to date. If the number of defects		and substance of that recommenation is ou
					verifies that the information in design and testing artifacts is kept in sync					attributed to design remain low throughout Release 0.6 testing, the focus of		of step with a risk
					and consistent. (closed 5/31/2022) - ASI perform a root cause analysis with					this finding will be addressed. 1/31/2022 - Based on ASI and DHS testing		perceived by the IV&\
					DHS and IVV in attendance to determine the source of the design defects.					and defect validation progress. IVV's root cause recommendation is		for a number of
					(closed, 1/31/2022)					complete. If remaining testing for all sub-releases in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should		months now to be
										low cause of defects from design, the primary concern of this finding should be addressed. 12/31/2021 - The completion of Release 0.6 testing should		low. 4/23/21 rap - The ASI
										provide clarity on overall defects, specifically on those related to design		4/23/21 rap - Ine ASI team agrees that the
										Results consistent with already completed SSP testing for Release 0.6 could address the scope of this finding. 11/30/2021 - The results of the system		full embrace by the
												project of the
										address the scope of this finding. 11/30/2021 - The results of the system		Conflue
										test for release 0.6 showed a significant reduction in defects compared to		Confluence tool has
										address the scope of this finding. 11/30/J0/21 - The results of the system test or release 0.6 showed a significant reduction in defects compared to prior releases, which could reflect improvement in the quality of deliverables. IV&V will review the root cause analysis when provide by the		Confluence tool has improved the deliverable

7 The COVIC 19 and online and the related Michael fors: Proding Stray and Produce of the Covic Andrews and Produce Stray at professor of ore could indeed and project activities and negatively impact the project schedule and budget.	3/29/2020 Project Management	Control of the Control of Install State of Yang at Done, and Fore On 22 clote the bit or bread state despensive "Self-ya to be fore the Control of the Control of the Control of the Control of Self-ya to be fore the Control of the C	The state deep pervication in lay activities could be applicarly included by the most of boson on delivering services to beneficiaries. Thereof by which generously do all by the most of boson on delivering services to beneficiaries. Facened by activities such as design except the section. The section of the facilitated remodely which may impact the quality of the sections. Going forward, most if not all project activities will more than one of the section of the sect	Continue to make efforts to setup, train, and assist new stakeholders on remote work devices and tools and continue to assist stakeholders will be committed to the continue to the continue to the continue that	l, d	2 2 1	ow Open	control (2014) The material specifies for this reporting prices (2017)(2)2. No ONLY has a specified for this posting prices (60/8022). The 63/10 state that you be removed the succination requirement for working in promise are encouraging staff to specified from the office. Diff it cam members are still not required to work in the office but Diffs is also encouraging office that the office of the office is the office but Diffs and somewhat Honolulus office. (63/12)22: The 63 and their subconstance are resident Honolulus office. (63/12)22: The 63 and their subconstance are resident Honolulus office. (63/12)22: The 63 and their subconstance are resident Honolulus office. (63/12)23: The 63 and their subconstance are resident Honolulus office. (63/12)23: The 63 and their subconstance are resident Honolulus office. (63/12)23: The 63 and their subconstance are resident Honolulus office. (63/12)23: The 63 and their subconstance are resident Honolulus office. (63/12)23: The 63/12 and 63/12		7/30/21 RAP - The ASI agrees that COVID at this time is likely a low risk to both schedule and budget for the project despite some increases related to
"stay at home" order could hinder project Risk activities and negatively impact the project		home" order that has reduced state departments' ability to be fully functional as the large majority of state workers will be required to work from home/remotely at least until the end of May and some offices may be completely shut down until that time as well. Unclear if the order will	hindered, not only by working remotely but also by the need to focus on the delivening services to beneficiaries. Harmode synthesis such a design session may be facilitated remotely which may impact the quality of the silvent of the property of the prope	remote work devices and tools and continue to assist stakeholders with becoming highly furctional with remote access technologing (e.g. MS Teams/Sayel) - Complete - Suggest the project and Off-Sc orates a default, documented ris in Marginion strategy and jobs that is reviewed regularly and revised to address the current state of the CDVID-19 threat and related in projects Uplate that CDVIP and to Include any level activation or spokins to impacts Uplate the CDVIP and to Include any level activation or spokins to in the short and long term Complete - Send broad communications or askeledden to such cell and uplate and communications or the stakeholders to such cell and uplate and communications or the stakeholders to such cell and uplate and the spokins of the spokins	l, d		updi	material update for this reporting period. 66/30/22 - The KS has stated they have removed the sectication requirement for working in person and are encouraging staff to spend time in the office. Dist seam members are staff not required to work in the office that DHS is also encouraging office at time. Three DHS team members currently work out of the KS is downtrowned to the contract of the SI to downtrowned to the success the SI to downtrowned to the SI to downt	TBD.	agrees that COVID at this time is likely a low risk to both schedule and budget for the project despite some
activities and negatively impact the project schedule and budget.		from home/remotely at least until the end of May and some offices may be completely shut down until that time as well. Unclear if the order will	delivering services to beneficiaries. Flammed bey activities such as design sessions may be faithful entended without majorest the quality of the sessions. Going florward, most if not all project activities will more than they be conducted mently until this cities spaces. The DES project team will soon loss some key members of the PMOI, the PMOI sold will retire on WI 20/20 and another by remember or in an 20/20. On this account short the VI 20/20 and another by remember or in an 20/20. On this account short the could find to DES budget challenges. If the state/PSS institutes a bring freeze, DES PMOI may not be able to replace them key reposures.	Team/Skype) - Complete - 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 Update the COVID-19 include any new activities or updates to planned activities to add the organization through this COVID-19 pandemia in the short and long term Complete - Send broad communications to stakeholders to source lear understanding of changes to the Project with the contraction of the contra				they have removed the vaccination requirement for working in person and are encouraging staff to spend time in the office. DHS team members are still not required to work in the office but DHS is also encouraging office time. Three DHS team members currently work out of the ASI's downtown Honolulu office. 05/31/22 - The SAI and their subcontractor are making efforts to increase in-office/in-person work which could help to increase productivity and communication as well as overall quality of protect work.		this time is likely a low risk to both schedule and budget for the project despite some
schedule and budget.		from home/remotely at least until the end of May and some offices may be completely shut down until that time as well. Unclear if the order will	sestion: may be facilitated remotely which may impact the quality of the sestions. Going forward, most if not all project activities will more than likely be conducted remotely until this crisis passes. The DHS project team will soon lose some key members of the PMD, the PMD lead will reiter on 4/38/20 and another key member in June 2020. DHS has concerns that the state could experience a significant loss of revenue due to COVID, which could lead to DHS budget challenges. If the state/PMS institutes a hiring freeze, DHS PMD may not be able to regate these key recomb.	Team/Skype) - Complete - 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 Update the COVID-19 include any new activities or updates to planned activities to add the organization through this COVID-19 pandemia in the short and long term Complete - Send broad communications to stakeholders to source lear understanding of changes to the Project with the contraction of the contra				are encouraging staff to spend time in the office. DHS team members are still not required to work in the office but DHS is also encouraging office time. Three DHS team members currently work out of the ASFs downtow Honolulu office. OS[31]22 - Ho ASI and their subcontractor are major efforts to increase in-office/in-person work which could help to increase productivity and communication as well as overall quality of proletic.		this time is likely a low risk to both schedule and budget for the project despite some
			likely be conducted remotely until this crisis passes. The DHS project team will soon lose some key members of the PMD, the PMO lead will retire on 4/30/20 and another key member in June 2020. DHS has concerns that the state could reperience a significant loss of revenue due to COVIO, which could lead to DHS budget challenges. If the state/DHS institutes a hiring freeze, DHS PMO may not be able to replace these by resources.	revised to address the current state of the COVID-19 threat and related impacts Update the OCM Plan to include any new activities or updates to planned activities to aid the organization through this COVID-19 pandemic in the short and long term Complete - Send broad communications to stakeholders to assure clear understanding of changes to the Project with				still not required to work in the office but DHS is also encouraging office time. Three DHS team members currently work out of the ASI's downtown Honolulu office. 05/31/22 - The ASI and their subcontractor are making efforts to increase in-office/in-person work which could help to increase productifity and communication as well as overall loadity or orlociet work.		and budget for the project despite some
			likely be conducted remotely until this crisis passes. The DHS project team will soon lose some key members of the PMD, the PMO lead will retire on 4/30/20 and another key member in June 2020. DHS has concerns that the state could reperience a significant loss of revenue due to COVIO, which could lead to DHS budget challenges. If the state/DHS institutes a hiring freeze, DHS PMO may not be able to replace these by resources.	revised to address the current state of the COVID-19 threat and related impacts Update the OCM Plan to include any new activities or updates to planned activities to aid the organization through this COVID-19 pandemic in the short and long term Complete - Send broad communications to stakeholders to assure clear understanding of changes to the Project with				time. Three DHS team members currently work out of the ASI's downtown Honolulu office. 05/31/22 - The ASI and their subcontractor are making efforts to increase in-office/in-person work which could help to increase productivity and communication as well as overall quality of project work.	1	and budget for the project despite some
			4/30/20 and another key member in June 2020. DHS has concerns that the 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 freeze, DHS PMO may not be able to replace these key resources.	planned activities to aid the organization through this COVID-19 pandemic in the short and long term Complete - Send broad communications to stakeholders to assure clear understanding of changes to the Project with	0			efforts to increase in-office/in-person work which could help to increase productivity and communication as well as overall quality of project work.		project despite some
			state could experience a significant loss of revenue due to CDVID, which could lead to DHS budget challenges. If the state/DHS institutes a hiring freeze, DHS PMO may not be able to replace these key resources.	in the short and long term Complete - Send broad communications to stakeholders to assure clear understanding of changes to the Project with				productivity and communication as well as overall quality of project work.		
			could lead to DHS budget challenges. If the state/DHS institutes a hiring freeze, DHS PMO may not be able to replace these key resources.	stakeholders to assure clear understanding of changes to the Project with						the delta variant. The
			freeze, DHS PMO may not be able to replace these key resources.					04/29/22 - No material update for this reporting period. 03/31/22 - State		ASI team continues to
			Additionally, if the state institutes furloughs, DHS project team resources	regard to impacts of COVID, as well as clarifying communications as to what				leadership has rolled back most COVID mandates this month, however, most	d	maintain social
				will remain the same Explore options for freeing up key BESSD SME's to				individual State departments have been given the option of not requiring		distancing in the office
			could be further constrained. Unclear if the state budget challenges will	work on the project Complete - Project leadership continue to encourage	e			their staff to work in-person. DHS will likely maintain remote work policies		in line with State
			impact overall project funding.	independent phone conversations to enhance and accelerate				for the foreseeable future. IVV recommends DHS consider strategically		mandates. However,
				communications, and for team members to not wait for meetings to				requesting in-person meetings for discussions that can be significantly more	1	the team has essentially reached
				converse.				productive in-person. 2/28/22 - The State of Hawaii is planning on eliminating most COVID mandates as of 3/5/22. In-person meetings could	4	the new normal in
								improve collaboration for design and other sessions, if the Project elects to		Honolulu This
								increase in-person meetings. 1/31/22 - The ASI has reaffirmed that remote	2	includes fewer
								meetings are a less effective form of communication than in-person		resources travelling
								meetings and therefore, COVID continues to have a negative impact on the	t	and more conference calls: however, the
								quality of some project activities, albeit difficult to quantify. 12/31/21 -		calls; however, the project has adjusted
								Though Omicron COVID cases are surging, the project has indicated they do not plan to make changes to current protocols and do not expect this surge		to the lack of in
								will materially impact the project. 11/29/21 - The ASI has transitioned		person meetings. In
The state of the s								their team from working remotely to primarily working in their Honolulu		our off-shore office,
								office as of October 2021. It remains unclear whether the new COVID		we still have staff
								variant (Omicron) will disrupt project activities. 10/28/21 - No material		working from home.
43 DHS PMO project team members have Ryan Tan Finding -	1/10/2020 Project		The key resources leaving the BES Project provide knowledge and history of		ASAP	3 5 1	ligh Open	8/31/2022 - DHS continues to seek applicants for the three PMO positions	02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality rating	
transitioned off the Project, which may Issue	Management	project team members are planning to retire or leave the project within the next few months or have already transitioned off the project. While there	DHS and its software, solutions, and business processes, along with a level of consistency and continuity to the extended project team. This experience	borrowed from other agencies) to fill these positions if there is ongoing				these positions remain unfilled. 7/29/2022 - DHS has received minimal applications for the open PMO positions therefore, they may fill the	on this Finding (#43) and DHS rolled out the DHS Product Owner Roles and Responsibilities to the DHS team on January 29, 2021. (Gary provided the	the ASI perspective, the changes to the
cause gaps in knowledge transfer and leadership on the Project.			of consistency and continuity to the extended project team. This experience and knowledge is critical for the BES DDI and KOLEA Modifications, and	difficulty in finding permanent hires. 5/31/2021 - DHS continue to work with the appropriate organizations to identify the funds necessary to fill				applications for the open PMO positions therefore, they may fill the positions with contractors. IVV does not have visibility to the full impact of		project manages to the
		not been documented. In January, the ASI did announce and introduce an	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	1			the delay in filling these positions. However, some of the administrative and	d 02/8/2021). 06/30/2020 - Mark Choi is becoming more involved in the	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)				contract management activities are significant so DHS assigned these	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	section 3.4.3 'DHSStaffing'). The plan should include the possible COVID-19	9			activities to internal staff on an interim basis. 6/30/2022 - DHS continues to	future vision, etc. Day to day PM working closely w/ Gary and Emerald. We	impact on the overall
			the \$37 million needed matching funds for continued development of BES.	economic impact to the state budget, directly in relation to the project				recruit for PMO resources. No other material updates for this reporting	have no insight into other DHS staffing.	project. At this point,
				resources Closed The ASI should document a transition plan for each key				period. 5/31/2022 - DHS continues to recruit for PMO resources, but the		the knowledge
				resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits Eligibility Solution Project Staffing'.) - Closed				three positions remain unfilled. However, some PMO responsibilities are being addressed through existing resources. For example, the contracted		transfer gaps have been closed and the
				anguard, sometime of contrast				DHS PM has filled in leadership gans and and has positively imparted the		been closed and the leadership of the
								Project. 4/28/2022 - No material updates for this reporting period.		project remains strong
								3/31/2022 - DHS continues to recruit for these positions but received		hands from DHS. We
								minimal interest to-date. 2/28/2022 - DHS posted the PMO positions but		recommend that the
								are having difficulty identifying candidates. While online metrics show there is interest and the positions are being viewed, as of this date, there		IV&V reassess the
								there is interest and the positions are being viewed, as of this date, there has only been one application. 1/28/2022 - No material updates in this		probability of impact
								reporting period. 12/30/2021 - No material updates in this reporting		and severity of impact and lower the overall
								period. 11/26/2021 - No material updates in this reporting period.		rating for this
								10/31/2021 - No material updates in this reporting period. 9/30/2021 - The	é	risk.3/3/2020 - The
								BESSD Administrator, serving as the interim DHS BES Project Manager resigned from DHS. To mitigate the knowledge and leadership risk, DHS		ASI PM stated the
								resigned from DHS. To mitigate the knowledge and leadership risk, DHS		Project Coordinator
								backfilled the DHS BES Project Manager with a contractor possessing extensive BES project experience. The Assistant BESSD Administrator will		position is filled and
								provide an active decision-making role in the project. INV will monitor the		they will begin work on 3/9/2020,
								impact of these project management changes. The remaining DHS PMO positions continue to be unfilled. 8/30/2021 - No material update in this		transition artivities
								positions continue to be unfilled. 8/30/2021 - No material update in this		from Donna will begin
29 Uncertainty and/or a lack of communication Michael 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 1	.ow Open	8/30/22 - No material update. 7/31/22 - IVV remains concerned with the	06/30/2020 - Combined application is still planned. App still not finalized	
around long term architecture decisions Issue	Management	and socialized to the project. For example, the ASI and DHS have stated that	inclusive of all known future solution plans as possible. As an example, if	Deliverable with additional details as they become available and with any				lack of clear communication around the planned configuration managemen	t by DHS. From Arch perspective, we are building in Liferay. Future	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 implementing two Siebel instances (one for KOLEA, one for BES), but this is	KOLEA and BES are to move to a single instance of Siebel in the future, planning for that integration should be incorporated into the project now. If	architectural changes are finalized Complete - DHS should finalize the Portal strategy and implementation details and communicate clearly				tool and its intended use. DHS prefers Service Now but it is currently not	Integration 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	and DHS continue to refine the final plan
system design, and planning decisions.		implementing two Siebel instances (one for KOLEA, one for BES), but this is	planning for that integration should be incorporated into the project now. If	Portal strategy and implementation details and communicate clearly communicate out to stakeholders and project teams. Complete 3/31 - The				funded, and IVV is unaware of contingency plans in the event Service Now funding is not approved. The project is currently assessing the additional	than originally planned for data sharing. If change is made to Adobe, this	refine the final plan for the two portal
		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	such significant future changes are not planned for now, the project is likely	Project should continue to vet possible architectural change impacts to the				level of effort that will be required to comply with the latest revision	would require a CK.	vision. We expect that
		for integrating the two instances post go-live have been thoroughly vetted	systems in the future	platform (e.g., ADA, Configuration Management tools), MandO, MQD, and	d .			(Revision 5) of Federally required security controls. IVV is concerned that		final decisions will
		and/or documented. Further, there may be some uncertainty around	.,	RFS systems before finalizing architectural decisions - DHS continue to				the move to Revision 5 and potential impact to the project architecture have		likely be made during
		whether when/if all environments (including KOLEA and BES production)		request ASI perform due diligence in any recommendation for foundationa architecture change decisions and continue to review with appropriate DH:	al			not been broadly communicated to stakeholders. 6/30/22 - The ASI has		this reporting period
		will be moved to the cloud.		architecture change decisions and continue to review with appropriate DH:	4S			stated that their cloud infrastructure will continue to evolve as the		and communicated to
				stakeholders to assure a common understanding of the implications of these				technology improves or the cloud provider(s) make changes and that some	I	the project. The ASI
				decisions The Project should continue to ensure communication between development leads and architecture leads to assure optimal collaboration	n			architecture decisions have yet to be finalized (e.g., use of Splunk vs. Dynatrace). IVV has little to no visibility into whether these changes are		refers the IV&V to our February update
				on possible architecture changes that could impact decisions in each area.				heing effectively communicated to or vetted by the right stakeholders		regarding
				Maintain current communication processes to ensure regular				Further, the Project has previously stated their intention to utilize		Recommendation #3.
				communication between the architecture team and the rest of the project	t			Further, the Project has previously stated their intention to utilize ServiceNow (SN) for Configuration Management (CM), however, it remains		From our perspective
				team to assess impacts of architecture decisions to the Project.				unclear if progress has been made on finalizing this decision, how it will be		all necessary actions
								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		are complete. If the IV&V does not believe
								ESI/DHS/ASI, and the status of funding for licenses. 5/31/22 - The ASIs addition of resources including backfilling of key positions may help to		IV&V does not believe it is Complete we
								increase communication of architecture changes. The ASI stated they are		request supporting
								evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS.		detail.
								4/29/22 - The ASI OCM team is developing a communication plan for		
										4/23/21 rap - The ASI
								walkthrough with the project team and videos prepared for DHS stakeholders. 03/31/22 - The ASI has onboarded a new Lead Architect who		and DHS continue to refine the final plan
								sustenuouers. us/s1/zz - The ASI has onboarded a new Lead Architect who		for the two portal
								will be responsible for managing the system infrastructure which should improve clarity around governance, capabilities of the different		vision. We expect that
2 Late delivery of project deliverables has Ryan Tan Finding -	11/28/2018 Project	Based upon the project schedule dated 11/26/18 (refer to schedule for	Late deliverables can lead to schedule impacts and too many late	IN PROGRESS Despite not yet having a revised baseline schedule, continue	e TBD	3 3 1	And Open	8/30/2022 - The ASI is behind schedule with development activities which		7/20/21 RAP - The ASI
caused schedule delays. Issue	Management	specifics), several due dates for project deliverables have been missed. As of	deliverables may cause significant disruption to schedules or delays. ***OLD***Without a PMP that depicts all Project Management processes,	monitoring and analyzing deliverables that may have impact to the critical	4			will impact the critical path. Without an approved schedule, it is difficult to		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,	path COMPLETE 5/31/2021 - When the revised schedule is published the	2			determine what is behind schedule and what impacts late deliverables or		the published
		Plan (PMP), which is the formal document that is used to manage the	the Project can suffer unplanned consequences in scope, schedule, cost, and quality parameters. Without a schedule that provides the required level of	project team should restart the weekly practice of reporting actions being	3			activities will have to project deadlines. 7/29/2022 - Fewer project		schedule based on
		execution of the project. In some instances, this risk may be compounded by	quality parameters. Without a schedule that provides the required level of	taken for late tasks and develop mitigation plans for those tasks that may be	ie			deliverables are delivered late, and critical path activities do not appear		feedbackfrom DHS
		a backlog of Deliverable Expectation Documents (DED) requiring approval and acceptance from the State.	detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI				impacted when this happens since they are not dependent on those		and the IV&V while we work through the final
		une acceptance nom the state.		agree to a revised schedule against which project deliverables can be	m			deliverables. For example, development delays found in Finding #80 do not appear to be caused by late deliverables. Schedule impacts from late		work through the final change request for the
				managed. 9/30/2020 Recommendation - IVV recommends the project team evaluate the estimating process to determine if changes should be made to	0			appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the		ATC which is nearing
				reduce the number of late tasks and-or conduct a root cause analysis to				planning/initiation stages where deliverables directly impacted subsequent		completion. Regarding
				determine and address the root rause(s) - Closed 8/31/2020				activities. Given the reduced impact this finding has on the Project. IVV is		
				Recommendations; - Prior to acceptance of the new baseline, finalize the				lowering the criticality rating to 'Medium'. IVV has separate findings for the		the recommendations: Recommendation #1:
				needed updates to the project schedule to address the outstanding				BI-5 Project Schedule and BI-13 Security Plan deliverables. 6/30/2022 - The		Based on progress made to date, the ASI
				items/issues identified by DHS, the ASI, and IVV to include the Release 0.1				ASI continues to monitor project activities that may impact the critical path		made to date, the ASI
				lessons learned Closed - Establish the process for DHS and the ASI to				and conduct meetings to address late activities. Although some late		is hopeful, that we can
				mutually agree to the revised project schedule baseline Complete -				activities may not impact the critical path, they may impact ASI and DHS		agree in principle on
				Establish the process for on-going schedule management and weekly				staffing since they need additional time to do the unplanned work. The		the ATC change request in July and
				updates, utilizing the Schedule Management sub-plan of the Project Management Plan (BI-04) Complete 5/31/2020 - Finalize the updates to				Project reported development activities are running behind in Releases 8, 9		have a final schedule
				management Plan (BI-U4) Complete 5/31/2020 - Finalize the undates to	,			and 10, but only 10 is impacting the critical path. The ASI is reviewing		published by the end
				the analysis about the state of				annualistic estado Additionally based or laterative and a fine		
				the project schedule to address the outstanding items/issues identified by	/ SI			remediation actions. Additionally, based on late activities in the schedule.		of the month.
				the project schedule to address the outstanding items/issues identified by DHS and IVV Closed. 5/31/2020 - Establish the process for DHS and the AS to mutually agree to the revised project schedule baseline Closed	SI			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. 5/31/2022 - The Project continues to refine SDLC processes to improve project schedule estimates.		of the month. Recommendation #2:
				the project schedule to address the outstanding items/issues identified by DHS and IVV Closed. 5/31/2020 - Establish the process for DHS and the AS to mutually agree to the revised project schedule baseline Closed	SI			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. 5/31/2022 - The Project continues to refine SDLC processes to improve project schedule estimates.		of the month. Recommendation #2: The team has
				the project schedule to address the outstanding items/issues identified by DHS and HVClosed. 5/31/2020 - Establish the process for DHS and the AS 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 5/3/2020 - effective 5/15/2020	SI			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. 5/31/2022 - The Project continues to refine SDLC processes to improve project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that may impact the critical path and conducts meetings to		of the month. Recommendation #2: The team has reinstituted every
				the project schedule to address the outstanding items/issues identified by INFS and IVV Closed. 5/3/12009 - Establish the process for DRS and the AS to mutually agree to the revised project schedule baseline Closed 3/31/2002 - Add all tasks that have been performed or planned to be performed in the interim schedule. Closed 5/30/2002 - effective 9/15/2004 the ASI is no longer maintainine the interim schedule. IVV recommends.	SI EO at			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. §73/27027. The Project continues to refine SDLC processes to improve project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that may impact the critical path and conducts meetings to address late tessis. The ASI has reported delays in development that may address late tessis. The ASI has reported delays in development that may have been appropriated to the proper delays in the development that may address late the salt. The ASI has reported delays in development that may have been appropriated to the salt of th		of the month. Recommendation #2: The team has reinstituted every other week schedule
				the project schedule to address the outstanding items/issues identified by INFS and IVV Closed. 5/3/12009 - Establish the process for DRS and the AS to mutually agree to the revised project schedule baseline Closed 3/31/2002 - Add all tasks that have been performed or planned to be performed in the interim schedule. Closed 5/30/2002 - effective 9/15/2004 the ASI is no longer maintainine the interim schedule. IVV recommends.	SI EO at			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. 5/31/2022—The Project continues to refine SDLC processes to improve project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that mary impact the critical path and conducts meeting to address late tasks. The ASI has reported delays in development that may impact the project schedule. 4/35/2022—The Project continues to conduct		of the month. Recommendation #2: The team has reinstituted every other week schedule meetings and is
				the project schedule to address the outstanding items/issues identified by DHS and HVClosed. 5/31/2020 - Establish the process for DHS and the AS 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 5/3/2020 - effective 5/15/2020	SI EO at			remediation actions. Additionally, based on late activities in the schedule, the Project is updating the schedule further. §73/27027. The Project continues to refine SDLC processes to improve project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that may impact the critical path and conducts meetings to address late tessis. The ASI has reported delays in development that may address late tessis. The ASI has reported delays in development that may have been appropriated to the proper delays in the development that may address late the salt. The ASI has reported delays in development that may have been appropriated to the salt of th	t	of the month. Recommendation #2: The team has reinstituted every other week schedule