

#### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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December 16, 2021

The Honorable Ronald D. Kouchi,
President, and
Members of The Senate
Thirty-First State Legislature
Hawaii State Capitol, Room 409
Honolulu, Hawaii 96813

The Honorable Scott K. Saiki, Speaker, and Members of The House of Representatives Thirty-First State Legislature Hawaii State Capitol, Room 431 Honolulu, Hawaii 96813

Dear 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 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 Hawaii 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

Attachment (2)



# Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: November 1 - 30, 2021

Submitted: December 13, 2021



#### Overview

- Executive Summary
- IV&V Findings and Recommendations
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# Executive Summary

#### **Executive Summary**



In this reporting period the BES project team appears to be at a crossroads, where they are facing several challenges. Some of those challenges include:

- Discrepancies between the ASI's design artifacts and DHS' requirements, which have not been mitigated by modifications to the SDLC process.
- Delays in release 6 development, which includes the CMM Interview, SSP, FMM Overpayments, and Interfaces.
- Inefficient project management, evidenced by a continued inability to accurately plan and execute tasks, and the absence of an approved project schedule.

The BES Project Schedule was opened as a new risk finding by IV&V. While the lack of an approved schedule has been reported for months in conjunction with finding #2 concerning late deliverables, the inability to accurately plan and execute tasks is now tracked as a separate risk.

IV&V notes four of the six categories have a high criticality rating. The BES Project leaders and staff are developing or executing mitigation plans for these risks/issues meaning they are diverted from planned to unplanned activities. Unless new resources are added, this increases the risk the project team cannot meet the planned BES Pilot and Go-Live dates.

Sep	Oct	Nov	Category	IV&V Observations
Н	Н	Н	Project Management	The criticality rating for this category remains high due to the: 1) absence of an approved and reasonable schedule 2) lack of velocity reporting on FCM (CMM and FMM modules) development that drives project planning, and 3) lack of state funding to fill vacant PMO positions. This category has been at a high criticality rating since July 2020 (17 months).
M	M	M	System Design	IV&V observed DHS product owners (PO) raising design concerns late in the process. In some cases, the DHS PO assigned has changed over time, and design artifacts do not capture enough detail including prior decisions.  IV&V remains concerned about the complex design of the BES Infrastructure and possible impacts. The ASI stated that the proposed BES Infrastructure is designed to automate tasks and improve efficiency.

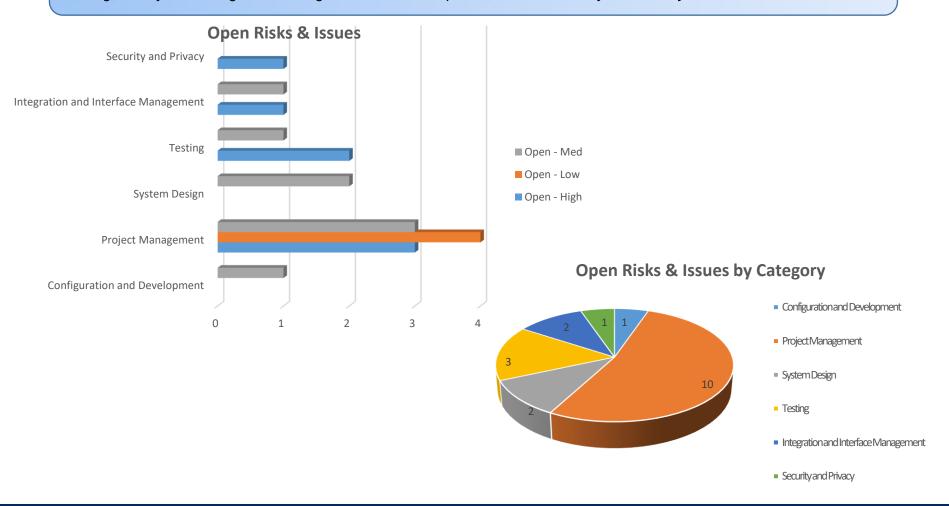
# **Executive Summary**



Sep	Oct	Nov	Category	IV&V Observations
M	M	M	Configuration and Development	IV&V is concerned that DHS POs are being asked to finalize designs before they are fully vetted by DHS. The DDI process does not appear to be consistently followed, as design issues are showing up after development.
Н	H	IRS interface, the DLIR modernization phase, and the modernization of the tax interf		IV&V is concerned with additional scope regarding the 120-day certification process for the IRS interface, the DLIR modernization phase, and the modernization of the tax interface. These new items may impact the BES project schedule, scope, and previously completed work.
M	M	Н	Testing	This category has elevated to high based upon the Regression testing finding.  IV&V requested the ASI further detail the root cause of defects found during testing and the remediation plans to address.  The ASI demonstrated the ADA compliance tool against the vendor's website, but it has not been verified to work for the BES application and environment.
Н	H Security and Privacy DHS and the ASI continue discussions on the BI-13 BES Security Plan DED to ensume tall State and Federal Partner requirements.		DHS and the ASI continue discussions on the BI-13 BES Security Plan DED to ensure it will meet all State and Federal Partner requirements.	

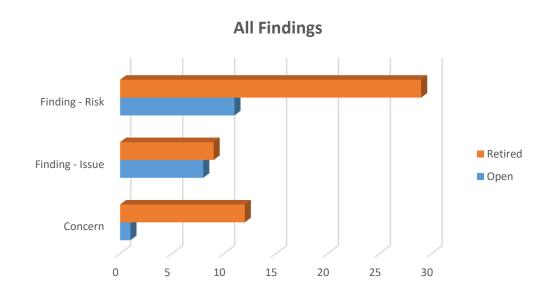


As of the November 2021 reporting period, PCG is tracking 19 open findings (11 risks and 8 issues) and has retired a total of 50 findings. Of the 19 open findings, 10 are related to Project Management, 2 in Integration and Interface Management, 3 in Testing, 2 in System Design, 1 in Configuration and Development, and 1 in Security and Privacy.





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





#### Findings Retired During the Reporting Period

#	#	Finding	Category
5	4	Risk – Missing and incomplete artifacts required as entry and exit criteria for each testing stage could lead to schedule slippage or delivery of a solution that does not meet business needs or requirements.  IV&V observed multiple go/no go meeting for testing. Artifacts required as entry and exit criteria have been provided by the ASI and approved by DHS for transition to the next testing stage. Therefore IV&V retired this finding.	Project Management



# Preliminary Concerns Investigated During the Reporting Period

	#	Finding	Category
		Insufficient configuration management may result in preventable defects, schedule delays, budget issues and resource adjustments to compensate for quality and schedule issues.	
7	70	The ASI stated their plans to utilize Service Now as their Configuration Management Database (CMDB). If utilized to its fullest extent, Service Now can effectively track system configurations and provide system support personnel with an effective means to resolve system bugs. IV&V will continue to monitor for the effective build out of the CMDB and further elaboration by the ASI of their configuration management plans.	Configuration and Development



#### Findings Opened During the Reporting Period

#	Finding	Category
	Risk – The ASI demonstrates the inability to accurately plan and execute tasks in the BES project schedule, which could result in late deliverables, cost increases, and a late go-live.	
	<b>Observation:</b> DHS and the ASI have tried multiple times to rework the schedule with results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use of multiple tools to track resources obfuscate resource management.	
	<b>Significance:</b> If estimates for project schedule activities are not accurate, this can lead to constant schedule changes, resources not being available when needed, rushed activities, and general frustration which can lead to schedule delays, low quality output, scope changes, and budget issues.	
	Recommendations:	Drainat
74	<ul> <li>Using the available tools, review the current estimates to complete each activity compared to past actual hours.</li> </ul>	Project Management
	<ul> <li>Update as necessary and provide the DHS/ASI Project Managers with reports and data that accurately reflect the DHS/ASI resource needs along with over/under allocations of staff for the duration of the project.</li> </ul>	
	- 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.	
	<ul> <li>Discuss, validate and address additional concerns within the project processes that may cause the project delays other than inaccurate estimates such as over reliance on POs, slow design sprints, and cadence of development teams.</li> </ul>	



#	Key Findings	Criticality Rating
	Issue - Late Delivery of project deliverables may cause schedule delays.	
2	Some project deliverables were late this month. For example, CF Special Indicator and CMM Interview did not go into Release 6 System Integration Testing on schedule. As project deliverables slip, it may be an indication that the schedule itself is unreasonable versus the execution of project tasks. The project team is currently re-evaluating the schedule. IV&V has opened a new risk #74 to monitor planning and scheduling activities.	Н

Recommendations	Progress
<ul> <li>DHS and the ASI agree and publish the revised schedule based on the KOLEA ATC impact, CMM development delays and any other changes to address the potential SDLC Process adjustments.</li> </ul>	In process
<ul> <li>Despite not yet having a revised baseline schedule, continue monitoring and analyzing deliverables that may have impact to the critical path.</li> </ul>	In process



#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	The ASI reported progress in finalizing details of the Two-Portal and GCP change requests (CRs) and vetted several key details with DHS. They are also working to finalize some of the architecture components. However, it remains unclear if these changes are fully communicated and vetted by the larger project team.	L

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



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

Recommendations	Progress
DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	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.  The ASI has transitioned their team from working remotely to primarily working in their Honolulu office as of October 2021. It remains unclear whether the new COVID variant (Omicron) will disrupt project activities.	L

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



#	Key Findings	Criticality Rating
49	Issue – Poor quality project deliverables may impact system design, testing artifacts and the project schedule.  The results of the system test for release 0.6 showed a significant reduction in defects compared to prior releases, which could reflect improvement in the quality of deliverables. IV&V will review the root cause analysis when provide by the ASI.	L

Recommendations	Progress
<ul> <li>ASI review the Quality Management Plan to ensure that the project is working within the Quality guidelines. In particular, the ASI should evaluate and consider if it is in alignment with Section 3.1.2 Measure Project Quality, which states "ASI measures process and product quality by 1) selecting BES implementation process and product attributes to measure; 2) selecting component activities to measure; 3) defining value scales for each component activity; 4) recording observed activity values; and 5) combining the recorded attribute values into a single number called a process quality index." IV&amp;V has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality.</li> </ul>	In process
<ul> <li>ASI verifies that the information in design and testing artifacts is kept in sync and consistent.</li> </ul>	In process
<ul> <li>ASI perform a root cause analysis with DHS and IV&amp;V in attendance to determine the source of the design defects.</li> </ul>	Not started



#	Key Findings	Criticality Rating
62	Issue – Inability to measure development team velocity may impact the projects' ability to forecast the delivery date of the remaining features.  IV&V met with the ASI on November 3rd to discuss the velocity charts. There are six development teams (3 for FCM and 3 for SSP). IV&V found that the velocity charts contain aggregated data that does not represent each team's velocity. At this time, IV&V cannot determine if each development team is tracking its velocity.	Н

Recommendations	Progress
Calculate the average velocity from past iterations to be used as a historical reference.	In process
Provide velocity charts with committed and completed story points for projects documented in Jira.	In process
Optimize work based on estimations.	In process



#	Key Findings	Criticality Rating
	Risk – Insufficient project availability of DHS BESSD staff with expansive business knowledge could lead to a BES solution design that falls short of the DHS business needs.	
65	DHS BESSD staff with extensive business knowledge have been available for the project, especially in the last month now that a permanent BESSD PM has been hired and involved. There is significant improvement with the availability of DHS product owners, SMEs, and managers. As a result, IV&V is lowering the criticality rating to low.	L

Recommendations	
DHS continue to identify BESSD SME's to support the project as the project progresses.	In process
Identify and on-board a replacement BES Project Manager.	Complete
<ul> <li>Continue coaching the new BES Product Owners to ensure the new system takes advantage of new technologies and aligns to the planned business processes.</li> </ul>	In process
DHS continue planning, transitioning, and adapting to staff changes.	In process



#	Key Findings	Criticality Rating
	Risk – 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	DHS has received information and pricing for the GCP CR from the ASI. The ASI and DHS are working to confirm the scope of this change request. IV&V waits to see if the ASI addressed our recommendations in the CR details.	M

Recommendations	Progress
<ul> <li>The ASI should document the current environment M&amp;O activities to ensure all activities are known with a clear understanding of the "AS IS" and "TO BE" model for services beginning with the DDI, through Pilot/Implementation and M&amp;O.</li> </ul>	Not started
<ul> <li>The ASI clearly document the scope of work and cost for the GCP CR during DDI and M&amp;O and provide to DHS for approval.</li> </ul>	Not started
DHS and the ASI agree to a firm delivery date for when DHS will receive the GCP CR.	In process



#	Key Findings	Criticality Rating
	Risk – The inability to measure and report the overall Data Conversion work effort and progress may lead to schedule slippage.	
72	The ASI is re-estimating the remaining Data Conversion work and is developing a Data Conversion Dashboard, intended to provide a comprehensive view of work completed and work remaining. Additionally, the ASI added a data modeler to the Data Conversion team.	M

Recommendations	Progress
The ASI should develop reports with metrics that accurately measure the Data Conversion progress.	In process
<ul> <li>The Data Conversion team should evaluate the Just In Time (JIT) approach to determine if there are risks to the project that should be monitored/managed.</li> </ul>	In process
<ul> <li>The DHS Data Governance committee continue to clarify the usage of MDM so the BES conversion team aligns to the planned governance structure.</li> </ul>	In process
The Data Conversion team consider using use cases and story points to measure progress.	Not started



#### Integration and Interface Management

#	Key Findings	Criticality Rating
60	Risk – System Integration of the BES Modules (CMM, FMM, SSP) will be developed in the later releases vs. a continuous integration model within each release which may cause schedule delays.  The ASI stated that communications between their development teams have improved, and as result, moved	M
	some integration components into earlier releases. However, most of the integrations are scheduled for implementation shortly before go-live based on the project schedule.	

Recommendations	
<ul> <li>Prioritize the build of integration points within each module and the creation of scripts (API calls) required for integration.</li> </ul>	In process
<ul> <li>If the ASI needs all the remaining releases to demonstrate an end-to-end solution of the identified business processes across all modules, IV&amp;V recommends planning and communicating the mitigation strategy for handling risks associated with this approach.</li> </ul>	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.  No changes to the interface communication plans in this reporting period. IV&V has concerns regarding the 120-day certification process for the IRS interface, the DLIR modernization phase, and the modernization of the tax interface from a flat file to a direct web service with DOTAX. These new items may impact the project schedule, the existing process for the DHS Financial Management Office, and the functional designs for the FMM module.	Н

Recommendations	Progress
Identify and document all interface partners' contacts.	In process
<ul> <li>Define a detailed schedule for each interface to include milestone dates, coordination, and execution and share with the interface partners.</li> </ul>	In process
<ul> <li>Determine which deliverable will include the details associated with the planned connectivity and detailed technical designs of all interfaces.</li> </ul>	In process
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process
Distribute preparation procedures for interface implementation to the interface partners.	In process
Develop a mitigation plan to address the unavailability of Interface Partners during interface implementation.	Not started



#### Configuration and Development

#	Key Findings	Criticality Rating
	Issue – Lack of clear understanding of the DDI approach may reduce effectiveness of all SDLC Processes.	
16	The ASI reported that their new testing approach has reduced DHS testers level of effort to support testing and streamlined the overall effort. DHS reported that some of their product owners (POs) may have been put in a position (by the ASI) to provide final approval of designs without a proper understanding of what should be considered and vetted by other DHS stakeholders/SMEs. This has led to testing DHS SMEs to request changes to the finalized designs in the form of enhancements. Further, it remains unclear to DHS SMEs whether enhancement requests will incur additional costs to DHS which could later lead to cost overruns or scope reduction.	M

Recommendations	
<ul> <li>ASI make available their DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand.</li> </ul>	In process
<ul> <li>The project monitor DHS product owner productivity, ability/willingness to provide effective feedback to the ASI for design and other important decisions and provide coaching as needed to assure their effectiveness in their role.</li> </ul>	In process



#### System Design

#	Key Findings	Criticality Rating
6.	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework.  IV&V continues to ramp up participation in design sprint meetings. IV&V observed that new/replacement	M
6	DHS POs who were not involved earlier sometimes request a revisit of prior decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IV&V will continue to observe these meetings and capture issues that could negatively impact the design of solution.	M

Recommendations	Progress
<ul> <li>JAD and design sessions should be led by experienced senior BAs, with goals, objectives and results communicated to all participants.</li> </ul>	In process
The facilitator should use their expertise to drive discussions through leading questions.	In process
<ul> <li>The DHS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be' business process.</li> </ul>	In process
<ul> <li>The ASI should back-track significant differences in design direction to determine the root cause to identify these items as early in the SDLC as possible.</li> </ul>	In process
<ul> <li>The Functional Design Document process, to include the Design Sprint concept, should be clearly defined and shared with all project team members.</li> </ul>	In process
<ul> <li>Invite IV&amp;V to all future design sessions and design sprints to allow IV&amp;V to observe and assess the effectiveness of the revised design processes.</li> </ul>	In process
<ul> <li>ASI and DHS should work together to vet the in-progress design with all SMEs for the area of focus.</li> </ul>	In process



#### System Design

	#	Key Findings	Criticality Rating
		Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts	
7	73	The ASI stated that, though their infrastructure is complicated and cutting edge, the risk is acceptable given the long-term benefits as they expect the final platform will be highly functional, efficient, resilient, automated, and could reduce long term maintenance costs. IV&V remains concerned with the level of effort and component costs of implementing and maintaining this sophisticated technology and the potential schedule delays if the work is more than expected.	M

Recommendations	
ASI clearly communicate the potential costs and schedule impacts to implementing the planned infrastructure.	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied.</li> </ul>	In process



#### **Testing**

#	Key Findings	Criticality Rating
	Issue – The number of issues/defects found during testing may cause planned work in the future sprints to be delayed due to the resolution and retesting of issues/defects.	
66	The computation of the defect leakage between Integration and SIT for the last 2 releases trend favorably and shows that most of the defects/bugs are identified during Integration Testing. This partially meets the recommendations made by IV&V but does not meet all recommendations. The ASI has categorized the defects but has not identified the true root causes or developed corrective action plans to minimize future occurrences of these defect types.	M

Recommendations	
<ul> <li>Adjust the project plan and provide reasonable scope for SIT in subsequent releases taking into account the number of defects and testing time needed.</li> </ul>	In process
Execute System and Integration testing more rigorously.	In process
The ASI should report testing metrics and DHS should monitor this Key Performance Indicator (KPI).	Not started
<ul> <li>Perform a joint Release 0.5 SIT (DHS/ASI/IV&amp;V) Root Cause Analysis (RCA) to identify and take corrective actions.</li> </ul>	Not started



#### **Testing**

#	Key Findings	Criticality Rating
	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the project, which may cause significant rework.	
67	The ASI demonstrated the capabilities of the AccessiBe tool as provided by the product vendor. The demonstration showed that the tool can identify accessibility issues based on the chosen or configured rules. The ASI also generated a report to document compliance. It is not clear that this tool will work successfully with the architecture of the BES solution. IV&V looks forward to a future demonstration once the tool is shown to work with the current BES architecture and is acceptable to DHS.	Н

Recommendations	Progress
<ul> <li>The ASI should gain DHS' approval on the tool selected after the ASI validates it will perform as expected within the BES architecture, meeting all contractual and project requirements.</li> </ul>	In process
<ul> <li>The ASI create and 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-compliance will be corrected, and how and when DHS and IV&amp;V will be provided the reports from the ADA compliance tool and how to interpret those reports for the code from previous, current and future releases.</li> </ul>	In process



#### **Testing**

#	Key Findings	Criticality Rating		
	Risk - Lack of DHS visibility into regression testing may cause defects/rework within the BES application.			
69	This risk was previously a concern. Although the Regression Testing dashboard provides a significant amount of data, there is no explanation of what that data represents. The ASI has agreed to explain the data in the Regression Testing dashboard to help DHS and others understand it. IV&V will review the Regression Testing dashboard once clearly understandable regression test data is provided.	Н		

Recommendations	Progress
<ul> <li>The ASI document the process of regression testing from start-to-finish and then review that process with DHS. The documented process should include how the candidates for inclusion in the regression suite are selected, how those chosen candidate test cases are validated, how the regression tests are reviewed and how failed tests are resolved and reported, the timing for when regression testing is scheduled, where the regression test cases are stored and documented, and how the project is notified that regression testing is complete and accurate.</li> </ul>	In process
<ul> <li>Regression testing results should be reported to the project on a regular basis and be included in the weekly dashboards. It is important that DHS be informed of all regression testing results of those passed and failed test cases and that any failed test cases be analyzed to determine if code or configuration changes need to be made.</li> </ul>	In process



#### Security and Privacy

#	Key Findings	Criticality Rating
	Risk - Insufficient planning/execution of the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES to begin the Pilot Phase.	
68	The BI-13 DED is not finalized as DHS has requested verbiage that explicitly states that federal approval is part of the acceptance criteria. The ASI believes that their contract already states that they must meet federal standards as prescribed by IRS, FNS, and SSA so they are reluctant to add verbiage to this document. The DED discussion is ongoing. The Security Requirements Traceability Matrix is being developed in Aha and the ASI will be providing a report from Aha for DHS and IV&V to review. Per DHS, this is to be done as soon as is possible.	Н

Recommendations	Progress
DHS and the ASI agree and finalize the BI-13 DED.	In process
The ASI continue to develop the BI13 Security Plan in close collaboration with DHS.	In process
<ul> <li>DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, if not included in the BI-13 Security Plan. The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix.</li> </ul>	In process
<ul> <li>ASI, per DHS guidance, should begin to pivot toward the adoption of 800-53 Rev 5 since Rev 4 will be obsolete when the system goes live.</li> </ul>	In process



# IV&V Engagement Status



IV&V Engagement Area	Sep	Oct	Nov	Comments
IV&V Budget				
IV&V Schedule				The ASI is conducting a BES project schedule review that may result in changes to the IV&V schedule.
IV&V Deliverables				PCG submitted the final October IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

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

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



- IV&V activities in the November reporting period:
  - Completed October 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 December 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-10 R0.6 Common Functions Special Indicators – REVISIONS	11/29/2021	V1.2
BI-31 DED - REVISIONS	11/23/2021	V2.0
BI-29 DED - REVISIONS	11/23/2021	V2.0
BI-14 Release 0.6 Technical Design Document - SSP	11/23/2021	V0.9
BI-11 Release 0.8 BESSD Interfaces	11/9/2021	0.1
BI-21 Release 0.4 Updated and Completed Detailed Functional and Technical RTM	11/3/2021	0.1
BI-10 R0.6 SSP Application Management (No Account), Prepopulate Online Application deliverable (Iteration 1)	11/2/2021	1.0
BI-10 R0.7 SSP Electronic Notes	11/2/2021	0.1

# Additional Inputs – Artifacts



Deliverable Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
FNS Handbook 901	01/2020	V2.4
BES Weekly Schedule (BI-5)	11/1/2021	N/A
BES Weekly Status Report	11/3/2021 11/10/2021 11/17/2021 11/24/2021	N/A
BES Risks and Issues Log	11/3/2021 11/10/2021 11/17/2021 11/24/2021	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
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	1/22/2015	Rev. 4
ATC Impacts to BES_DHS Exec Summary	2/22/2021	N/A
ATC Impacts to BES_DHS Additional Details	4/9/2021	N/A

#### **Additional Inputs**



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

- 1. Weekly Platform Status Meeting 11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 2. Weekly DDI Architecture Review Meeting 11/9/2021
- 3. Bi-Weekly Project Status Meeting 11/10/2021, 11/24/2021
- 4. Bi-Weekly BES PMO and IV&V Touch Base 11/10/2021, 11/24/2021
- 5. Weekly BES Dev Stand-up 11/3/2021, 11/10/2021, 11/17/2021, 11/24/2021
- 6. Weekly SSP Backlog Grooming Session 11/3/2021, 11/10/2021, 11/17/2021
- 7. Weekly CMM Backlog Grooming Session 11/10/2021, 11/17/2021, 11/24/2021
- 8. BES Data Conversion Meeting 11/1/2021, 11/8/2021, 11/15/2021, 11/22/2021, 11/29/2021
- 9. BES Data Conversion Working Group Meeting 11/16/2021
- 10. Weekly BES Project Schedule Review Meeting 11/2/2021, 11/16/2021,
- 11. IV&V Team Meeting 11/1/2021, 11/4/2021, 11/8/2021, 11/10/2021, 11/15/2021, 11/18/2021, 11/22/2021, 11/24/2021, 11/29,2021
- 12. Weekly DHS-Unisys Security Touchpoint 11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 13. Velocity Discussion 11/3/2021
- 14. R0.6 Weekly SIT Status 11/4/2021
- 15. BES Touch base with DHS 11/4/2021, 11/17/2021
- 16. BES CCB Monthly Meeting 11/3/2021
- 17. HI DHS BES October Draft IV&V Report Review 11/15/2021
- 18. Bi-Weekly DHS and IV&V Touch Base Meeting 11/2/2021, 11/16/2021, 11/30/2021
- 19. ASI/IV&V Mid-month Check-in 11/19/2021
- 20. Executive Steering Committee Meeting 11/18/2021
- 21. HI BES ASI and IV&V Touch Base Functional Team 11/16/2021
- 22. HI BES ASI and IV&V Touch Base Technical Team 11/23/2021

### Additional Inputs – Continued



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

- 23. Monthly Project Risk and Issue Review Meeting 11/3/2021
- 24. [BES] RO.4 BI-21 Updated and Completed Detailed Functional and Technical RTM Deliverable 11/12/2021
- 25. Implementation Planning 11/10/2021, 11/17/2021, 11/24/2021
- 26. R0.6 SSP SIT Exit Go/No-go 11/18/2021
- 27. FMM R0.8 issuance functional sessions 11/4/2021, 11/18/2021
- 28. FMM OP Recovery functional session 11/9/2021
- 29. [BES] DHS PO Working Session—11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021
- 30. CMM Product Owner Meeting-11/1/2021, 11/4/2021, 11/12/2021, 11/18/2021, 11/19/2021, 11/23/2021
- 31. CO20 View Alerts Product Owner Meeting 11/5/2021, 11/12/2021, 11/19/2021
- 32. Interface Consumption DHS PO Meeting (CMM Interfaces) 11/2/2021, 11/4/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 33. MDM Data Sharing and Consent Management 11/4/2021, 11/16/2021, 11/18/2021, 11/23/2021
- 34. [BES] Release Checkpoint 11/4/2021
- 35. [BES] R0.7 Sprint Demo CF07 Manage Case Assignment 11/4/2021
- 36. Sprint Demo 11/8/2021, 11/23/2021
- 37. [BES] RO.6 Sprint Demo CO05j Manage Asset Information 11/18/2021
- 38. [BES] R0.8 Prototype Review QM24, QM24a-f 11/18/2021
- 39. [BES] R0.6 BI-22 Walk-Through SSP 11/19/2021
- 40. R0.5 and R0.6 RCA Review 11/22/2021
- 41. BES Defects and Enhancements Action Item Updates 11/10/2021
- 42. Review ADA Compliance Sample Report 11/16/2021
- 43. Junit test case Demo 11/24/2021





# Appendix A – IV&V Criticality Ratings

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

# Appendix B – Findings Log



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

# Appendix C – Acronyms and Glossary



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



# Appendix C – Acronyms and Glossary

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



# Appendix C – Acronyms and Glossary

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

# Appendix D – Background Information



#### **Systems Modernization Project**

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

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

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

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

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

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

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

## Appendix D – Background Information



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

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

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

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

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

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

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

### Ending Slide



**Solutions that Matter** 

Finding Title Repo	orter F	Finding Id	entified Category	Observation	Significance	Recommendation	Event Horizo	on Impact	Probability	Analyst Fir	iding Status Update	Client Comments	Vendor Comments Risk
The ASI demonstrates the inability to Pain accurately plan and exercit and in the BES project schedule which could result in late deliverables, cost increases, and a late go-live.	F	Risk		schedule with results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use of multiple tools to track resources obfuscate resource management.	constant schedule changes, resources not being available when needed, runbed exturbles, normal frustration which can lead to schedule delays, low quality output, scope changes, and budget issues.	• Using the available tools, review the current estimates to complete each activity compared to past activation very Suprian receivant and provide the DEM/SM Project Managers with reports and data that accurately reflect the DEM/SM resource, and only with overlined solicutions of selfect the design of the project of Develop militagion and contingency plans that are tracked/managed by DEM/SM for each active of the project of the projec				Med Og			Succession
The planned BIS infrastructure is unforced to the planned BIS infrastructure is complete which could be efficial, to the implement and lead to schedule/cost impacts.		Finding - 1C	//28/2021 System Design	Current & Il infrastructure plans include a significant unuber of significant components that make up a number of significant components that make up a complex cloud infrastructure. Further, the Project Team infrastructure and the additional costs and dimention and infrastructure and the additional costs and infrastructure and the additional costs and infrastructure and infrastructure and the additional costs and complex environment remain unclear.	project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system maintenance	implementing the planned infrastructure. • 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. • ASI develop a process to closely monitor cloud and other product changes (coffware updates/new releases), manage changes, and regression test once updates are	Next severa months	1 3	3	Med Og	en 11/5/21- The ASI stated that, though their infrantructure is complicated and cutting edge, the risk is acceptable given the long term benefits a they expect the final platform will be highly functional, efficient, realisest, automated, and could reduce long term maintenance costs. IV this sophisticated technology and the potential schedule delays if the work is more than expected the sophisticated technology and the potential schedule delays if the work is more than expected.		
The linklifty to measure and report. Brad the overall float Comersion work of the control o	F	Finding - 8/		tatical level, focused on just in-time work as the release of this are developed. However, clarity to progress at a strategic/project level is difficult to measure/guage.	Data Conversion (DC) is often considered one of the longest and most complete task in a Disported. As the reloseing est more complex and impactful to the overall BIS solution, it is critical that the project team understand of IZ own is no schedule for five and implementation and calculated and the project team of the projec	The ASI hould develop reports with metrics that accurately measure the Data Comercision program. The Dis Data discoverance committee continue to clarify the usage of MOM so the BES convention team aligns to the planned governance structure. The Data Conversion team maligns to the planned governance structure. The Data Conversion team discoverable that should be approach to determine if there are risks to the project that should be approach to determine if there are risks to the project that should be approach to determine if there are risks to the project that should be approach to determine if there are risks to the project that should be approach to determine if there are risks to the project that should be approached to the project that the		3			and 11,80/2011. The ASI is currently re-estimating the remaining Data Convention work and is developing a Data Convention Database, insteaded to provide a comprehensive view of work completed and remaining. Additionally, the ASI added a data modeler to the Data Convention Database (11-11) with remain concerned about the progress of data conversion, given the level of work and Ibering performed on Network 2014. The ASI data convention lead stated that the level of work and Ibering performed on Network 2014. The ASI data conversion lead stated that the The data convention to same reported they were working on a new mortific/inseasure that will be a better gauge of progress. IVP has added a recommendation that the data conversion team consider using use case and stop points, which rest of development teams are utilizing, allowing them to have Velocity to measure progress. 19/30/2011 - The Data Conversion team included and conversion work of the convent of the Conversion team in Control of the Conversion work is completed. The Asi is currently working to revise a control of the Conversion work is complete however, in other meeting the data conversion work is complete however, in other meeting the data conversion work is complete however, in other meeting the data conversion work is complete however, in other meeting the data conversion work is one process in Very and Continue to monitor. 18/20/2011 - The Data Conversion team continues to progress through the data clearing placens in the lower. However, the path can very kind clearing placens in the lower of the path can very kind used the data work in the conversion work is no progress through the data clearing placens in the lower of the path can very kind used the data work to be Conversion Ost. 45, 11 and 11 and 11 and 12		9/9/2021 - RAP: The ASI acknowledges the need to update the conversion metrics to provide overall provide overall an update in September.
21 The lack of the final agreement on the loof is tope and cost of the Google Chould Platform (GCP) Change Response (CR) Chould Read on GCP) Change Response (CR) Chould Read on GCP) Change Response (CR) Chould Read (CR) Chou		Finding - 8/		codified the migration of some of the BSS environments from an on-prem to cloud based solution however, not all details were vetted at that point in time. In the July/August 2020 timeframe, DHS and the ASI agreed to have all BES environments migrated to the cloud. Since then, the scope has been adjusted and the CR is being	the ASI/DHS SOAP Contract Amendment finalized in April 2020. The decision to migrate all BES environments to the cloud was made in the July/August 2020 timeframe. DHS' intent is for this CR to be cost-neutral. While the BES	- The ASI should document the current environment and O activities to ensure all activities are home and the discrimination of the "ASI S" and "DDE" model for service beginning with the DD, through filed fimilities entailed and M and O. The service beginning with the DD, through filed fimilities entailed and M and O. The service beginning with the DD, through filed fimilities and M and O. The service beginning with the DD. Service	ASAP	3	3	Med O	sen 11,80/2011 - Unit S has received information and pricing for the GCP CR from the ASI. The ASI and addressed OFIG are working to confirm the scope of this chapter request. Viv. with 15 use of the ASI addressed our enconmendations in the CR details. 10/20/2011 - The ASI has not submitted the CRP Chapter of the ASI CRITICAL		9/9/2011 - RAP: Point of distillations. The SQD distillations are seen as a second of establish that the project would be deployed to the Cloud. SQDP provided some in the Cloud and specifically that deployment would we be to the one premium we did acknowledge that deployment may move to the Cloud. The final deployment may move to the Cloud. The final deployment may move to the Cloud. The final control of managing the ULIT, Production, and Disaster managing the ULIT, Production, and Disaster we will be cost in the SQAP agreement nor did the AQ agree that the sould be cost ineutral. We would be cost ineutral. We would be cost ineutral.
79 Insufficient configuration information cold lead to development confusion and refuce the effectiveness of bug resolution	rs (	Concern 8/	22/2011 Configuration and Develo	framework for the Configuration Management Plan, however, it remains unclear if sufficient progress has been toward establishing CM processes, selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The projects Google Cloud Platform (GCP) Change Request and Security Plan have yet to be finalized	the BES is understood and works correctly. The BES solution includes tools that may provide a level of automation for Configuration Management that	<ul> <li>ASI above to plant for configuration management as documented in 84 GDI.</li> <li>ASI SCHOOL 25 and cultify detail and/or so Aphages with DNS. A 540 wideae plant for configuration management with DNS and agree on a meaningful at of configuration ent or settleng they will seek. A benefity the ISB OF Configuration in constitution of the Configuration in the continguistion of the Configuration of the Configurati</li></ul>		2	2	Low O	an 11/2/21. The AS is stated their plans to utilize Service Now as their Configuration Management Database (MOAI), inclinated to Is falled center, Service Now on effectively track symptomic configurations and provide system support personnel with an effective means to resolve system bugs. To Will configuration to model for the effective build out of the CADID and further system of the CADID and further configuration their effective build out of the CADID and further programs in their configuration management (EAD) gaining, such as identifying who will fill the configuration their programs in their configuration management (EAD) gaining, such as identifying who will fill the CADID and their properties of the law of their configuration for their programs of their properties build out of more critical components of the ESI infrastructure. The ASI will work with ESI to soligify CADID declanacies. The project is currently considering configuration term (e.g., fireval and other accuring configuration) and creating a CADI database (CADID). It remains undear if the ASI utilize ServiceNew Comprehently in use & DISS (Part CADID). The ASI is currently using bibliocies for configuration tracking purposes. 37:9721 - The ASI has stated their interection to make updates to the Codiglout and Asia (Management Yian, Its.).		9/9/2021 - RAP- We look forward to receiving speech in equities from the speech in equities from the VMV ream on the speech of the speech of the conversations. We do acknowledge that the conversations we do conversations we do conversations with the speech of the updated to reflect the processes in place on the project for configuration management.

Finding Title	Reporter	Finding Ide	entified Category	Observation	Significance	Recommendation	Event Horizon Impact Probabi	lity Analyst Finding	Status Update	Client Comments	Vendor Comments Risk
60 Lack of DHS visibility into regression testing my cause defects/rework within the BES application.	Earl Burba	Finding 7/2	Testing	questions posed by the PCG IVV team that clarified more completely the plan for conducting Regression Testing. Since the actual automated test scripts are in Bit Bucket	Since the purpose of regression testing is to help assure that code or configuration changes to address defects/beg do not negatively effect previously working functionally having a robust regression test suite to very reviewer. The All is well-rigo or creating that mothest automated outle and relevant. The All is well-rigo or creating that nothest automated outle and relevant Regression Test failures will be reported for future executions.	### 23/02/21. The Ast Gourners the process of regression testing from starts 6 finish and then review that process with DST. Rodumented process subdictional how the calculated series are subsected, how those how the candidates for inclusion in the regression state are selected, how those choices candidate series are valued and the three regressions are reviewed to the control of the control of the regression state are reviewed to the control of the regression state are reviewed testing is subsected in control of the regression testing standard and documented, and how the project in confide that regression testing is complete and carcinet. Regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression testing results be reported to the project on a regular basis and be regression.	Immediate 4 5	High Open	\$1,728,7021. This risk was previously a concern. Although the Regression Testing dishboard provides a significant amount of data, there is no explanation of what the data represents. The All has agreed to explain the data in the Regression Testing dishboard to help to 15st and others in the control of the		5/h/2021 - RAP- The ASI disputes the overall tenor of the findings of the control of the co
68 Inselficent planning/secution of In ES Scoret/Pan activities my lead to delays in gaining Federal Partner approvad for the EES to begin the Pil Phase.	iot			been working through the planning efforts to devolp the 1.3 Security Plann while also managing through AOI with the planning through the planning through AOI and the planning through the planning through AOI modify the 8.13 Security Plan Deliverable Expectation modify the 8.13 Security Plan Deliverable Expectation Columnit (DDI) is morth and are currently reduling it to align to the requirements and changes to the project since inception.	Pilot phase. There are many standards that must be met, and the project testing plant to utilise that Sciency from the might extend the extendance of the standard of each control. The Scienty Control implementation Workshook may be detected and affect for each of referencing to the Scienty Workshook must be beliefuled and affer for each of referencing to the Scienty Workshook must be detected and affect for each of referencing to the Scienty Scientific and Scientific	Jost and the ASI agree and finals the 18-12 DED. The ASI continues to develop the ISSI Security Films in Oxice collaboration with this. O Host and the Asi gave guon the tools and process that will be used to document and track security control implementation, for included in the ISSI Security Film. The process should define the level of detail needed to track progress (estimates, target dates, risk, successed) suggested to the process of the Control of			11/10/2012.1 The Bit 31 DED in not finallered as Dirk has requested verbage that explicitly states that finder algorithm just of the acceptance centers. The AS between that their contact already states that they must meet federal standards as prescribed by IRs, FRS, and SSA to they are stated that they must meet federal standards as prescribed by IRs, FRS, and SSA to they are Registered to the Association of the Control of		39/2/2021 - RAP: The decision to move to GCP for deplayment has driven the need for a to-complete review of the the complete review of the RAS is in the process of planning the effort to make these updates. The effort required to complete this work will be completed this work will be change request view to a new change request Vie look forward to a didictional discussions with IVSV and DHS.
67 The Americans With Disabilities Act (AAA) Section Side complainer tool has not been installed for the project which may cause significant rework.		Finding - 7/1	22/2021 Testing	been performed. This risk has been discussed with the ASI over the past several months, but there have been evidence of results to-date. The ASI did state that they are coding to some of the ADA requirements and are using a desk-top tool for ADA compliance as an interim solution. IVV has not received any data to demonstrate	compliant to obtain State and Federal funds for the development of the BES. The ADA Section S08 lintent is to make electronic and information technology accessible to people with disabilities (e.g., color bilindness, vision and hearing disabilities), in a way that is comparable to the access available to others. Part of the system acceptance criteria for BES is nome to more! "all applicable State	### APACACE - The ASP should gain ING* approval on the tool selected after the ASP varieties that importance as expected with the IEEE architecture, exempting all contractual and project requirements. The ASP create and communicate the plan for when the ASP. Compliance tool will be possible as a contractual and project requirements. The ASP create and communicate the plan for when the ASP. Compliance tool will be plan to access, too the text plan to the ASP compliance tool will be provided the reports from the ADP. Compliance tool and how to interpret those reports for the code from previous, current and future releases.	As soon as 4 5 possible and prior to final solution acceptance.	High Open	11/28/2021. The ASI demonstrated of the capabilities of the Accessible tool as provided by the tool words. The demonstration showed that the tool can destify accessibility issues based on the chosen or configured ruler. The ASI also generated a report to document complance it is not the chosen or configured ruler. The ASI also generated as report to document complance it is not every data a faint or configured ruler. The ASI also generated as report to be complanced in the complance is not configured to the complance in the complance is not configured to configure it many one, and IV will continue to monitor. 9/21/2021 to virtual stool in promote eASI configured to ASI development lead on 9/31/2021 to conceive the use of the section SSIC Complance in ASI development lead on 9/31/2021 to conceive the use of the section SSIC Complance in ASI configured to section of the complance is not continued to the configured configured to support ASIA complance. The ASI team is evaluating Accessible to provide the reporting and ability to work within the Google Closel Referred (CDI), Once Accessible has been texted as follow-on demonstration will be scheduled between IVV and the ASI development leads of the Complance is considered to the configuration of the con		9/h/21 - RAP: The ASI has invited the VIĞV to make contact with his contact with make contact with make the contact with make the contact with the contact with the contact has been contact to gain insight. To date, the VIĞV has not contacted the with contact the contact of th
66 The number of issue/defects fund during testing may cause planned work in the future sprints to be delived due to the resolution and retesting of issues/defects.	I Earl Burba	Finding - 3/2	18/2021 Testing	During discussions of UAT progress and motion the number of defects toom during this phase of festing appears greater than what would be expected during appears greater than what would be expected during appears greater than what would be expected during a discussion of the control of the C	and delivered meets their needs it is important that UAT be successfully completed. The high number of defects reported along with not meeting planned progress there may be an inclination to shorten the time needed to	heform a joint febrace 0.4 LUT DISYAS/INV) Rock Case charjes (EAL) to dentity and talke corrective sections. 19218 Complete flegate the protect plan and provide reasonable scope for SIT in subsequent releases taking into account the number of decicts and testing the meeded. Validate III LUT decists are resteried in SIT to sensure they are included in Regression. Testing, 1906 Excepted Security System and construct they are included in Regression. Testing, 1906 Excepted Security System and construct the SIT of the Complete and fream prior to the completion of SIT and that completion of FID's be accepted and fream prior to the completion of SIT and that completion of FID's be accepted and fream prior to the completion of SIT and that completion of SIT and that completion of LUT and situation excommendation usual due to adjust the process to minimize schedule slipage and rework by the SIT and UAT Testims. Counced 1730/2012 Heform a joint Release SIT (Mels/SIAVIVA) Root Cause Analysis (IR.A.) is identify and tale corrective actions.		Med Open	14/28/2021. The computation of the defect leakage between Integration and ST for the last 2 releases tend factory and allow soft and on the defects byte as released tend factory and allow soft and on the defects byte as one electhical during interest the recommendations made by IV&V but does not meet all recommendation. The AM has categorized the defects but has not destribed the user or causes or developed corrective action plans to minimize future occurrences of these defect types. The control of the control		77/20/21 RAP - In response to the specific recommendations, we are taking the following attended to the specific recommendation of the specific recommendation 2: We will preform a RCA led by the testing leads this month.  Recommendation 2: In progress, we are currently as the specific recommendation 2: In progress, we are currently as the specific recommendation 3: All USA of series are reteasted in both NT & ST before they are promoted to USA recommendation by the specific recommendation of the specific recommendation of the specific recommendation of the specific recommendation as the specific recommendation of

mber	Reporter Find	ding Identified Category	Observation	Significance	Recommendation Event H	Horizon Impact Probabi	lity Analyst Findin	Status Update Cli	ent Comments	Vendor Comments Risk
65 Insufficient project availability of DHS BESSD staff with expansive business	Ryan Find Risk	ding - 3/2/2021 Project Management	BESSD staff with expansive business knowledge and	the project to ensure business needs and requirements are effectively	9/30/2021 - DHS continue planning, transitioning, and adapting to staff changes In ASAP progress [Created earlier] - DHS continue to identify BESSD SME's to support the	1 1	Low Open	11/26/2021 - DHS BESSD staff with expansive business knowledge have been sufficiently available for the project, especially in the last month now that a permanent BESSD PM has been hired and		4/23/21 RAP - DHS has
knowledge could lead to a BES			availability to work on the project to ensure the BES	documented as the new system is designed and developed.	project as the project progresses In progress and continuous DHS develop a project team list that identifies the participants along with their roles and areas of			involved. There is significant improvement with the availability of DHS product owners, SMEs, and		added a number of
solution design that falls short of the			system meets the business need and requirements.		project team list that identifies the participants along with their roles and areas of			managers. As a result, IVV is lowering the criticality rating to low. 10/31/2021 - The ASI has		product owners to the
DHS business needs.					expertise to be used as short-term needs are identified Complete DHS utilize the BI-5 Project Schedule report developed by the ASI to identify those tasks owned by			reported significant improvement in the participation of experienced DHS BESSD staff since this finding was opened. IVV will validate this input regarding BESSD staff with the new BES Project		project over the past few
					BI-5 Project Schedule report developed by the ASI to identify those tasks owned by DHS in the short team in addition to the 4-month look-ahead to identify time frames			finding was opened. IVV will validate this input regarding BESSD staff with the new BES Project  Manager, who brings extensive BES experience with a minimal learning curve and significant value		months and given them
					and activities where there is a high-demand on DHS resources Complete Identify			to the project 9/30/2021 - A RFS PM has been selected and will begin on October 1 2021. The		the authority to make design decisions for the
					and on-board a replacement BES Project Manager Complete Continue coaching			new contract PM was previously involved with the project in a different role and therefore is		department. This has
					the new BES Product Owners to ensure the new system takes advantage of new			knowledgeable of the project, which may mitigate the departure of the acting PM. The Assistant		resulted in improvement
					technologies and aligns to the planned business processes.			BESSD Administrator will provide an active decision-making role in the project. IVV will continue		in the turn around time
								to monitor. 8/30/2021 - DHS continues to recruit the BES PM position. 7/28/2021 - DHS continues to recruit the BES PM position. 06/30/2021 - In the 06/09/2021 Status Meeting, DHS reported they		for decisions being made.
								added a Reports SME and two additional staff to the UAT test team. DHS continues recruiting for		
								the BES PM position, 05/31/2021 - The DHS Product Owners continue to adjust to their new roles		
								to include decision making and designing BES to take advantage of the new technologies. DHS has identified a replacement BES PM; onboarding was delayed and is now planned for June 2021.		
								identified a replacement BES PM; onboarding was delayed and is now planned for June 2021.		
								04/30/2021 - The DHS Product Owners are adjusting to their new roles to include decision making		
								and designing BES to take advantage of the new technologies. DHS has identified a replacement BES PM, onboarding is planned for May 2021. 03/31/2020 - The DHS Product Owners continue to		
								adjust to their new/revised project role, which is having a positive impact to the BES design. DHS		
								is taking the planned actions to replace the DHS PM. 02/28/2021 - In January, DHS added many		
								BESSD staff and is having a positive impact on the project. With the retirement of DHS' BES Project		
								Manager (effective 2/26/2021) and Business Analyst (effective March 31, 2021) a transition plan was developed to support the onboarding of a new BES PM. DHS is taking the following actions,		
								DHS developed a DHS BES Resource Pool to support future resource needs on the project. DHS is		
								using a report from the BI-05 Project Schedule focused on the DHS activities and tasks planned to		
								be performed in the next 4 months to provide early visibility to peak DHS resource needs.		
63 The lack of early planning and	Al Pangelinan Find	ding - 1/21/2021 Integration and Interfa	ce The following planning and execution items have not ye	Interfaces is one of the areas where DDI projects often underestimate the	1. Establish a communication plan for each interface partner for the duration of the Q4 202	1 5 3	High Open	11/29/2021 - No changes to the interface communication plans in this reporting period. IVV has		
coordination with interface partners	Risk		been addressed and documented by the ASI	time needed to effectively manage all the tasks and activities to successfully	BES DDI activities. 10/29 COMPLETE 2. Identify and document all interface partners'		-	concerns regarding the 120-day certification process for the IRS interface, the DLIR modernization		
may result in schedule delays.			Connectivity is planned to utilize a presently undefined	implement data sharing. A clearly defined communication plan and schedule	contacts. 3. Define a detailed schedule for each interface to include milestone dates,			phase, and the modernization of the tax interface from a flat file to a direct web service with		7/20/21 RAP - The ASI
			ETS API Gateway; however, there is no evidence that details have been determined or documented in this	that includes the coordination, planning, and execution activities along with	coordination, and execution and share with the interface partners. 4. Determine			DOTAX. These new items may impact the project schedule, the existing process for the DHS		team requests that the IV&V reassess the severity
			details have been determined or documented in this regard There is little evidence of active and sufficient	milestone dates may minimize the risk of possible delays. In addition, after planning has been completed, interface partners will have to be available	which deliverable will include the details associated with the planned connectivity and detailed technical designs of all interfaces. 5. Complete all MOAs and obtain			Financial Management Office, and the functional designs for the FMM module. 10/28/2021 - The project team continues to update the communication plans. One interface contact (CYRCA) is still		IV&V reassess the severity of this risk in light of the
				during interface implementation to ensure that the interfaces are properly	approval. 6. Confirm testing dates with interface partners in writing. 7. Distribute			outstanding. There are 3 MOAs (DAGS, HYCF, NCOA) still outstanding. IVV has recently been		following reasons: a) the
			design, and testing activities (Unit Test, SIT, UAT)	tested before deploying the system to production.	preparation procedures for interface implementation to interface partners 8			invited to interface meetings, which have been very productive. The ASI and DHS have made		ATC schedule extension
			Interface planning and execution tasks and activities,		Develop a mitigation plan to address the unavailability of Interface Partners during			major progress in identifying interface partner contacts and planning for testing with them. Note -		has made the urgency for
			including those for interface partners, are neither resident nor managed within the Project Schedule A		interface implementation.			Since this risk only pertains to interface planning, IVV is evaluating the need for a separate finding regarding the implementation of interfaces. 09/30/2021 - The project team continued to update		tackling these tasks less than it was before that
			resident nor managed within the Project Schedule A mitigation plan has not been developed to address the					regarding the implementation of interfaces. 09/30/2021 - The project team continued to update the communication plans. IVV conducted another review of the Communication Plans and found		than it was before that started lessening the
			unavailability of interface partners during interface					that 1 interface partners' contacts have not been documented, 3 MOAs have not been approved,		started lessening the schedule risk, b) the
			implementation after MOAs have been approved, testin					2 need unit test dates confirmed, 4 need system test and UAT dates confirmed, 27 need pilot and		increase from Medium to
			dates have been confirmed, and communications have					production cutover dates confirmed. IVV understands that DHS is responsible for identifying the		High in May was based on
			been frequent.					contacts, ensuring that the MOAs are approved, and confirming the test and cutover dates. IVV		a misunderstanding of the
								will continue to monitor. 08/31/2021 -The project team continued to update the communication plans. IVV conducted another review of the Communication Plans and found that 2 interface		current state of the MOA's and contact
								plans. IVV conducted another review of the Communication Plans and found that 2 interface partners' contacts have not been documented. 3 MOAs have not been approved. 3 peed unit test		metrics, c) substantial
								dates confirmed, 6 need system test and UAT dates confirmed, 27 need pilot and production		progress has made against
								cutover dates confirmed. The project team has escalated the lack of response from some Interface		each of the In Progress
								Partners to DHS for resolution. 08/30/2021 - The status has not changed. IVV conducted another		recommendations, and it
								review of the Communication Plans and found that 2 interface partners' contacts have not been		continues to trend in the
								documented, 3 MOAs have not been approved, 12 need unit test dates confirmed, 13 need system test and UAT dates confirmed. 27 need pilot and production cutover dates confirmed.		right direction. In regards to the final
								07/28/2021 - The project team continues to undate the interface planning documents TVV		recommendation, the ASI
								conducted another review of the Communication Plans and found that 2 interface partners' contacts have not been documented, 3 MOAs have not been approved, 12 need unit test dates		does not doubt the
										importance of this;
	Al Pangelinan Find	ding - 12/28/2020 Project Management	The subcontractor development teams don't currently	Velocity is an important metric in Agile development which provides project	Calculate the average velocity from past iterations to be used as a historical	4 3	High Open	11/29/2021 - IV&V met with the ASI on November 3rd to discuss the velocity charts. There are six		
team velocity may impact the project's ability to forecast the	Issui	ie	track and report Sprint velocity to the ASI.	leadership the ability to forecast how many iterations the team will need to complete the remaining work. Development teams use velocity to avoid ove	o reference. 2. Provide velocity charts with committed and completed story points for			development teams (3 for FCM and 3 for SSP). IV&V found that the velocity charts contain aggregated data that does not represent each team's velocity. At this time, IV&V cannot		9/9/21 RAP - Please see the notes from 7/20
delivery date of the remaining				committing to work in future Sprints. Velocity can also be an early indicator	projects documented in ma. 5. Optimize work based on estimations.			determine if each development team is tracking its velocity. 10/28/2021 - IVV reviewed the		regarding planning
features.				that the project needs more time or resources to meet the planned release				velocity charts in Jira for Release 0.6 and found that the SSP velocity chart was complete.		regarding planning estimates for SSP. The
				dates: If the ASI does not text development team's velocity, they cannot accurately forecast the delivery date of the remaining features, which may place the project cost and critical path at risk.				However, the velocity charts were incomplete for FMM, CMM, CF, BESSD Interfaces, and Shared		IV&V is welcome to reach
								Interfaces, which were scheduled in Release 0.6. In addition, IVV noted inconsistencies in story		out in any of the regularly
								points for Release 0.6 SSP between Ahal (222) and Jira (799). IVV will continue to monitor.  09/30/2021 - IVV reviewed velocity charts for CMM, FMM, and SSP development in Jira and found		planned meetings to review the process for
								inconsistent methods for tracking velocity. The FMM velocity chart did not contain committed or		maintaining story points
								completed story points. The CMM and FMM velocity charts contained the committed story		in JIRA: however, based
								points but not the completed story points. To determine the velocity, the development teams		on evidence to date on
								should report both the committed and completed story points. IVV will meet with the ASI to discuss the velocity charts in Jira and monitor this issue. 08/30/2021 - IVV observed continued		the SSP team, it is not
								discuss the velocity charts in Jira and monitor this issue. 08/30/2021 - IVV observed continued		clear why IV&V would
								improvement in the development of planning estimations for SSP in Release 0.6. However, IVV will meet with the ASI to discuss the Jira velocity chart to gain an understanding of how the actual		have any need to understand those details
								completed story points are maintained by the development team within Jira. The ASI plans to		in order to make an
								release the FMM and CMM velocity reports in September. 7/27/2021 - IVV observed		accurate assessment on
								improvement in planning estimations for SSP in release 0.5 Sprint 5, and although the sprint is not		risk to the project
								finished yet, the planned vs actual velocity chart is trending in the right direction. There were		schedule. If they are just
								major improvements this reporting period regarding FCM (FMM/CMM) work estimations in Ahal.  Use case estimates are now in Ahal for the current and follow-on release. The FCM team is		interested in the process, we are happy to have that
								Use case estimates are now in Ahal for the current and follow-on release. The FCM team is tracking story points in an MS-Excel worksheet as they validate their estimations and will be		we are happy to have that discussion as time allows.
								moving those estimations into Jira so they can track and report FCM velocity once the validation is		7/20/21 RAP - First in
								complete. IVV will continue to monitor the progress on the SSP and FCM sprint teams ability to		regards to the statement
								track velocity. 06/28/2021 - No progress to report this reporting period. The CMM/FMM team is		from the IV&V that
								still unable to measure sprint velocity and there are no story point estimations in the FCM_ALL		"Velocity is being tracked
						4 3		backlog. Velocity is being tracked for the SSP sprint team but they consistently commit to more		for the SSP sprint team
				W 044444 10 149 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				11/30/2021 - IVV continues to ramp up participation in design sprint meetings. IVV observed that		
61 Poorly executed JAD and design	Brad Find	ding - 11/30/2020 System Design		The CMM Workflow JAD sessions restarted in November. DHS indicated	JAD and design sessions should be lead by experienced senior BAs, with goals,     ASAP objectives and results communicated to all naticipants. The facilitator should use	* 3	Med Open			
sessions could lead to inaccurate	Brad Find	ding - 11/30/2020 System Design	with the following concerns being observed, - No clear	some concern regarding the CMM Workflow JAD sessions, specifically; (1) Do	objectives and results communicated to all participants The facilitator should use	* 3	Med Open	new/replacement DHS POs who were not involved earlier sometimes request a revisit of prior decisions, and in some cases, the replacement PO will have a different opinion on how to design		9/9/21 RAP - The IV&V
	Brad Find Issue	ding - 11/30/2020 System Design te	with the following concerns being observed, - No clear introduction to all participants on the goal of the JAD, overview on the process and the importance of their	some concern regarding the CMM Workflow JAD sessions, specifically; (1) 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	objectives and results communicated to all participants The facilitator should use their expertise to drive discussions through leading questions The DHS and ASI product owners should actively participate to ensure the system meets the	4 3	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IVV will continue to observe these meetings and capture issues that could		doer participate in many
sessions could lead to inaccurate	Brad Find Issur	ding - 11/30/2020 System Design te	with the following concerns being observed, - No clear introduction to all participants on the goal of the JAD, overview on the process and the importance of their participation On many occasions the conversation	some concern regarding the CMM Workflow JAD sessions, specifically, (1) 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 the users and clients? Incomplete or unclear JAD sessions with insufficient	objectives and results communicated to all participantsThe facilitator should use their expertise to drive discussions through leading questionsThe DHS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to	• •	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IVV will continue to observe these meetings and capture issues that could negatively impact the design of solution. 10/31/2021 - The BES Project Team (DHS, ASI, IVV) has		does participate in many facets of the deisgn
sessions could lead to inaccurate	Brad Find Issur	ding - 11/30/2020 System Design ie	with the following concerns being observed, - No clear introduction to all participants on 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 leading questions, as expected.	some concern regarding the CMM Workflow JAD sessions, specifically; (1) 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 the users and clients? Incomplete or unclear JAD sessions with insufficient documentation could lead to a oor desize, busking the details needed to	objectives and results communicated to all participants The facilitator should use their expertise to drive discussions through leading questions The DHS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be 'business process The ASI should back-track significant differences in design	• •	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IVV will continue to observe these meetings and capture issues that could negatively impact the design of solution. 10/31/2021 - The BES Project Team (DHS, ASI, IVV) has shared concerns about issues arising late in the development process during in Solution and		does participate in many facets of the deisgn process including screen
sessions could lead to inaccurate	Brad Find Issur	ding - 11/30/2020 System Design re	with the following concerns being observed, - No clear introduction to all participants on 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 leading questions, as expected.	some concern regarding the CMM Workflow JAD sessions, specifically; (1) 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 the users and clients? Incomplete or unclear JAD sessions with insufficient documentation could lead to a oor desize, busking the details needed to	objectives and results communicated to all participants The facilitator should use their expertise to drive discussions through leading questions The DHS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be 'business process The ASI should back-track significant differences in design	* 3	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IVV will continue to observe these meetings and capture issues that could negatively impact the design of solution. 10/31/2021 - The BES Project Team (DHS, ASI, IVV) has shared concerns about issues arising late in the development process during in Solution and		does participate in many facets of the deisgn process including screen mock-up reviews, backlog
sessions could lead to inaccurate	Brad Find Issue	ding - 11/30/2020 System Design te	with the following concerns being observed, - No clear introduction to all participants on the goal of the IAD, overview on the process and the importance of their participation - On many occasions the conversation needed to be driven by leading questions, as expected, but was instead lead by business users - Too much passes time when participants did not know the answer	some concern regarding the CMM Workflow IAD sessions, specifically (1) to the IAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BiS to support the users and clients? Incomplete or unclear IAD sessions with insufficient documentation could lead to a poor design, lacking the details needed to support business requirements; as well as missing opportunities to improve to workflow and related system design.	objectives and results communicated to all participants. The facilitator should use their expertite to five discussions through leading questions. The DIS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be business process. "The ASI should back-track applicant efferences in design considerations and the production of the product	4 3	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. If Will continue to observe these meetings and capture issues that could negatively impact the design of solution. 10/31/2021 - The BES Project Team (DHS, ASI, WIV) has shared concerns about issues arining late in the development process sturing in Sprint demo and prototype meetings. IVV has now been invited to many more of the design print meeting, where we will seek to understand how these gaps in design are occurring and lots discuss		does participate in many facets of the deisgn process including screen mock-up reviews, backlog grooming sessions, and
sessions could lead to inaccurate	Brad Find Issur	ding - 11/30/2020 System Design e	with the following concerns being observed, - No clear introduction to all participants on the goal of the Alp, overview on the process and the importance of their participation On many occasions the conversation needed to be driven by leading questions, see expected, but was intead lead by business users - Too much passe time when participants did not know the answer a question; several occasions where complete silence or a question; several occasions where complete silence or	some concern regarding the CMM Workflow IAD sessions, specifically (1) to the IAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BiS to support the users and clients? Incomplete or unclear IAD sessions with insufficient documentation could lead to a poor design, lacking the details needed to support business requirements; as well as missing opportunities to improve to workflow and related system design.	objectives and results communicated to all participants. The facilitator should use their experted to office discussions through participants to PIES and AS product owners should actively participant to ensure the system meets the requirements, designed stating sharings of one technology and allips to the 'to be' business process The ASI should bask-track significant differences in design direction to determine the notic cause to determine them extends that the product of the pr	4 3	Med Open	decisions, and in some cases, the replacement PO will be softened opinion on how to design the solution. If we discontine to observe these meetings and offered solution is used to be solution. If we discontine to observe these meetings are used to see that the solution and the solution is used to see that the solution is used to see that the solution and advanced command to see that the solution and solution are solved to see that the solution and solution is used to see that the solution and solution are solved to see that the solution are solved to see the solution are solved to see the solution a		does participate in many facets of the delsign process including screen mock-up reviews, backlog grooming sessions, and Sprint demo's. Product owner discussions are
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sessions could lead to inaccurate	Brad Find Issue	ding - 11/30/2020 System Design ie	with the following concerns being observed. And clear introduction to all participants on the goal of the IAD, overview on the process and the importance of their participation. On many occasions the conversation needed to be driven by leading questions, as expected, but was instead: lead by business users. Too much pause time where participants did not know the answer a question; several occasions where complete sience or the call for 30 seconds or more: Ladot of thought	some concern regarding the CMM Workflow IAD sessions, specifically (1) to the IAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BiS to support the users and clients? Incomplete or unclear IAD sessions with insufficient documentation could lead to a poor design, lacking the details needed to support business requirements; as well as missing opportunities to improve to workflow and related system design.	objectives and results communicated to all participants. The facilitator should use their experted to office discussions through participants to PIES and ASI product owners should actively participate to ensure the system neets the requirements, designed sking advantage of one technology and alligns to the 'to be' business process The ASI should back-track significant differences in design direction to determine the not cause to before the node in the state of the participant of the product of	* 3	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IN will discontinue to observe them energing and option traces that could registrively impact the design of solution. 30(3):2021: The BIS Project Team (DPC, AU, VI) has registrively impact the design of solution. 30(3):2021: The BIS Project Team (DPC, AU, VI) has registrively impact the design of solution. 30(3):2021: The BIS Project Team (DPC, AU, VI) has registrively impact the design of solution. 30(3):30(		does participate in many facets of the design process including screen mock-up reviews, backlog grooming sessions, and Sprint demo's. Product owner discussions are meant to have limited participation. The team is
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sessions could lead to inaccurate	Brad Findings	ding - 11/30/2020 Syxtem Design ie	with the following concerns being observed. No clear introduction to all participants on the goal of the IAD, overview on the process and the importance of their participation. On many occasions the conversation needed to be driven by leading questions, as espected, but was instead lead by business users. Too much pause time when participants did not know the answer as questions; everand occasions where complete silence or the call for 30 seconds or more - Lack of thought leadership from the ASI on how workflow could be	some concern regarding the CMM Workflow IAD sessions, specifically (1) to the IAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BiS to support the users and clients? Incomplete or unclear IAD sessions with insufficient documentation could lead to a poor design, lacking the details needed to support business requirements; as well as missing opportunities to improve to workflow and related system design.	objectives and results communicated to all participants. The facilitator should use their expertise to their discussions through participants to The facilitator should use their expertise to their discussions through participants to ensure the system meets the requirements, designed belang advantage of their exclusions and all applies to the top the state of the state of their expertise should be supported by the state of their expertise should be supported by the state of their exclusions of their expertise should be supported by the state of their exclusions are supported by the state of their expertise should be supported by the state of their exclusions are supported by the state of their expertise of their expertise positions of their expertise of the support of the state of their expertise of their expertise positions of the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions and their expertise positions are supported by the state of their expertise positions are supported by their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by the state of their expertise positions are supported by thei	. 3	Med Open	decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IN will continue to observe them energies and option trauses that could registrively impact the design of solution. 20/12/2021. The BIS Project Team (DPS, AV, VI) has required in the property of the property preventing, in VIV has now been invested to many more of the design point in entering, where we will seek to understand how these pps in design are occurring, and look to discuss operative resolutions with DS and the AS (20/2002). In Viv review longing point and DSI. Will property of the		does participate in many facets of the detargn process including screen mock-up reviews, backlog geoming seasons, and comment of the participation of the participation of the transition of the participation of the transition of the participation of the transition of the transition of the participation of the transition of the participation of the transition of design despite assurances from the VRV by the participation of the

Fino	ng Title Report	ter Finding Identified Catego	ry Observation	Significance	Recommendation Event Horiz	zon Impact Probability	Analyst Finding	Status Update	Client Comments	Vendor Comments Risk
Nun	ier	Type Date					Priority Status			Statement
6	System Integration of the BES mfors Modules (CMM, FMM, SSP) will be	Finding - 9/30/2020 Integra	ition and Interface The BES Modules (CMM, FMM, SSP) are developed by separate teams and demo's are conducted separately	Failure to perform integration testing and/or proof of concept integrations early in the development effort could lead to unexpected design and	<ul> <li>IVV recommends prioritizing the build and testing of integration points within each N/A module to assure integrations (through early end-to-end testing) meet expectations</li> </ul>	s 2	Med Open	11/29/21 - The ASI stated that communications between their development teams have improved, and as result, moved some integration components into earlier releases. However,		
	developed in the later releases vs. a	N/SA.	with each release. Integration points between the	technical complications as well as bugs as go-live approaches and lead to	throughout development instead of waiting to perform them for the first time as go-			most of the integrations are scheduled for implementation shortly before go-live based on the		7/30/21 RAP - Integration
	continuous integration model within		modules are currently stubbed and the ASI has yet to	unexpected delays. A 'big bang' integration strategy towards the end of	live approaches Consider implementing continuous integration where each release			project schedule. 10/28/21 - Increased communication between the ASI's development teams is		of the core modules (SSP
	each release which may cause		demonstrate integration of the modules and end-to-end	development could result schedule slippage if components do not integrate	demo could be a collaborative effort between the disparate development teams to			improving each team's understanding of integration requirements and impacts to each team's		& CMM and CMM &
	schedule delays.		functionality.	as expected and additional testing time is required once repairs are	demonstrate end-to-end functionality whenever possible IVV recommends the			code base. Therefore, IVV is lowering this risk criticality to Medium. However, IVV remains		FMM) will continue to
				completed.	ASI plan and communicate the mitigation strategy for handling risks associated with			concerned that implementation of some integrations will occur in later releases which could lead		evolve in future releases.
					their integration approach.			to unexpected issues and leave the project little time to correct these issues. 09/29/21 - The ASI		R0.6 will demonstrate the
								has stated that several integration points are being defined as part of their ongoing development		first integration points
								work and they are evaluating whether any integration points can be completed sooner than originally planned. IVV is concerned that pushing this work towards the end of development could		between CMM & SSP. This is now four releases
								result in schedule slippage if components do not integrate as expected and more work is required		before the final planned
								to develop and test. 08/30/21 - The ASI has stated they intend to demonstrate some CMM/SSP		development release.
								integration as part of release 0.6. With only 4 releases remaining before the final release, it		Similar interfaces
								remains unclear if all integrations will be completed and fully tested without schedule slippage.		between CMM & Current
								The ASI has described their plan for mitigating this risk which includes enhancing communication between their development groups. 07/27/2021 - This reporting period, IVV observed		will begin in R0.7, 3 releases before the final
								improvement in the planning efforts for the integration of the BES core modules. Each of the		development release. The
								upcoming releases plan to demonstrate the first integration points between CMM/SSP and		ASI team is mitigating the
								CMM/Current (Workflow Tool). The ASI provided IVV with steps towards mitigating this risk and		risk stated by the IV&V in
								we will review the mitigation plan to verify the steps are currently in progress or complete.		3 ways: 1) gaining
								06/28/2021 - This reporting period, IVV reviewed the SSP Integrations document in Confluence		agreement from both
								that outlines the integration approaches for the identified SSP integration points. The document		development teams on
								was designed as a reference for developers and contains the expected low-level details (API calls, request/response). To prepare for future knowledge transfer, it should also include high-level		the integration methods, and service contracts as
								information (specific module names associated with each integration point). The SSP integration		noted in the July report
								document will continue to evolve and is a positive step towards the mitigation of this risk.		from the IV&V 2)
								05/27/2021 -The ASI provided IVV with a timeline for the planned integration of the BES modules.		providing a periodic
4	Poor quality project deliverables may Brad	Finding - 4/16/2020 Project	Management In April. four BI-10 design deliverables and one Interface	The staff time spent on reviewing deliverables is exceeding the plan for all	[IVV recommends that a facilitated root cause analysis be performed by the ASI with Immediate	2 2	Low Open		06/30/2020 - New deliverables this	
	impact system design, testing artifacts	Issue	Control Document deliverable were submitted for client	project entities and has caused schedule delays due to the associated rework	DHS and IVV in attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causes or root causes of this current			defects compared to prior releases, which could reflect improvement in the quality of	month included BI-10 and BI-20.	7/30/21 RAP - The ASI
	and the project schedule.		review. There was an average of 85 comments submitted	needed for remediation. If poor quality deliverables continue to be	project, so there could potentially be multiple causes or root causes of this current			deliverables. IV&V will review the root cause analysis when provide by the ASI. 10/31/2021 DHS	BI-10 was initially called back for	team will review and
			for each of these deliverables. The documents exhibited	produced and submitted for review, this can continue to result in	condition. Once the root cause(s) are identified, IVV recommends immediate action			testing team reported inconsistencies between wireframes and Functional Design Documents,	quality issues, and the issues were	respond to this issue
				unproductive use of time, unanticipated rework, misguided development and	be employed to resolve quality concerns on in-process deliverables prior to			causing challenges in creating test cases and resulting in defects in development. IVV and DHS are	corrected. DHS is not comfortable	again when a material
			flow, an insufficient level of detail, and a lack of understanding of the subject matter from both a	testing activities, potentially unfulfilled functionality, and additional schedule delays.	submission of subsequent deliverables] Closed 7/30/2021 ASI reviews its Quality Management Plan to ensure that the project is working within the guidelines of this				with BI-10 re-format, will be revised again.	update is made by the IV&V. We also
			functional and technical perspective. DHS logged this	ucay.	Plan document. In particular, the ASI should evaluate and consider if it is in			addressing these inconsistencies. 9/30/2021 - No material updates in this reporting period. The	review digitit.	recommend the
			issue in the Project Issue Log for corrective action by the		alignment with Section 3.1.2 Measure Project Quality, which states, ASI measures			ASI reported in April 2021 that they would publish proposed quality metrics, but this has not		rethinking of the first
			ASI. The ASI acted by conducting an internal root cause analysis and provided DHS and IVV the high-level results.					occurred. IVV is concerned with the lack of evidence that the ASI is following the Quality		recommendation based
			analysis and provided DHS and IVV the high-level results.		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			Management Plan and will evaluate raising the criticality rating of this finding. 8/31/2021 - The ASI		on the assessment from
					value scales for each component activity; 4) recording observed activity values; and			has indicated they do plan on providing updated quality metrics that align with the revised		the IV&V that this is a low
					<ol> <li>combining the recorded attribute values into a single number called a process quality index. IVV has not seen evidence indicating the ASI is utilizing metrics to</li> </ol>			process using the Confluence tool however, they have not yet published them. IVV recognizes this may be a lower priority item since the project team has been focused on the SDLC changes		risk. The tone, tenor, and substance of that
					measure its process and product quality ASI verifies that the information in design			along with the necessary schedule adjustments. 7/30/2021 - The project deliverables published		recommenation is out of
					and testing artifacts is kept in sync and consistent ASI perform a root cause			this month appeared to have most comments focused on functionality vs.		step with a risk perceived
					analysis with DHS and IVV in attendance to determine the source of the design			format/grammar/spelling. This implies improvement however, without published ASI metrics on		by the IV&V for a number
					defects.			the quality of the deliverables, IVV is unable to validate. 6/30/2021 - No material update during		of months now to be low.
								this reporting period, DHS and IVV will review the ASI's revised process metrics when they are		4/23/21 rap - The ASI
								published. 05/30/2021 - One deliverable was submitted in this reporting period and is currently		team agrees that the full
								being reviewed. The revised metrics were not provided by the ASI. 04/30/2021 - Improved		embrace by the project of the Confluence tool has
								collaboration between ASI, DHS SMEs and Product Owners in design-related discussions is having a positive impact on the quality of deliverables. The ASI is currently developing additional quality		improved the deliverable
								metrics to quantify these improvements. IVV will continue to monitor. 03/31/2021 - The quality		management process. We
								of deliverables continues to show improvement, mainly due to the use of the Confluence tool and		agree that the risk of poor
								its collaborative capabilities. IVV will continue to monitor the implementation and the		quality deliverables
								effectiveness of quality improvements. 02/28/2021 - The Project continued to implement Release 0.2 Lessons Learned initiatives to improve project quality during February. Confluence is		impacting the project will
								Release 0.2 Lessons Learned initiatives to improve project quality during February. Confluence is		remain low if all parties
4	The COVID-19 pandemic and the mfors related "stay at home" order could	Finding - 3/29/2020 Projec	: Management On 3/23/2020, the Governor of Hawaii issued a "stay at home, work from home" order that has reduced state		Continue to make efforts to setup, train, and assist new stakeholders on remote     ASAP work devices and tools and continue to assist stakeholders with becoming highly	2 2	Low Open	11/29/21 - The ASI has transitioned their team from working remotely to primarily working in their Honolulu office as of October 2021. It remains unclear whether the new COVID variant	06/30/2020 - Office opening may be delayed until	7/30/21 RAP - The ASI
	related "stay at home" order could hinder project activities and	Risk	home, work from home" order that has reduced state departments' ability to be fully functional as the large	not only by working remotely but also by the need to focus on delivering services to beneficiaries. Planned key activities such as design sessions may	work devices and tools and continue to assist stakeholders with becoming highly functional with remote access technology (e.g. MS Teams/Skype) Complete -			their Honolulu office as of October 2021. It remains unclear whether the new COVID variant (Omicron) will disrupt project activities. 10/28/21 - No material update in reporting period.		7/30/21 RAP - The ASI agrees that COVID at this
	negatively impact the project		majority of state workers will be required to work from	he facilitated remotely which may impact the quality of the regrinor. Going				9/29/21 - No material undate in reporting period 9/20/21 - The ASI has recently reported they	september/October, 180.	time is likely a low risk to
	negatively impact the project schedule and budget.		home/remotely at least until the end of May and some	be facilitated remotely which may impact the quality of the sessions. Going forward, most if not all project activities will more than likely be conducted	and plan that is reviewed regularly and revised to address the current state of the			9/29/21 - No material update in reporting period. 8/30/21 - The ASI has recently reported they will be closing their offices for at least 2 weeks given the escalating number of COVID cases. As		both schedule and budget
			offices may be completely shut down until that time as	remotely until this crisis passes. The DHS project team will soon lose some	COVID-19 threat and related impacts. The plan should include the possible economic			work will be ongoing, they do not expect significant impacts to productivity. 7/27/21 The ASI has		for the project despite
			well. Unclear if the order will extend beyond that date.	key members of the PMO, the PMO lead will retire on 4/30/20 and another	impacts to the state budget directly related to project resources Update the OCM			reported that their off-shore (India) team is back to full strength again after having some		some increases related to
				key member in June 2020. DHS has concerns that the state could experience	Plan to include any new activities or updates to planned activities to aid the			challenges with COVID. IVV remains concerned that some communications between the project		the delta variant. The ASI
					organization through this COVID-19 pandemic in the short and long term. Complete			team could be hindered due to not being able to work in closer proximity. IVV recommends		team continues to
				challenges. If the state/DHS institutes a hiring freeze, DHS PMO may not be able to replace these key resources. Additionally, if the state institutes	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			project leadership continue to encourage independent phone conversations to enhance and accelerate communications, and for team members not walt for meetings to converse. 6/28/21 -		maintain social distancing in the office in line with
				furloughs, DHS project team resources could be further constrained. Unclear	communications as to what will remain the same Explore options for freeing up			The ASI continues to limit their office occupancy to 50% to comply with State mandates but has		State mandates. However,
				if the state budget challenges will impact overall project funding.	key BESSD SME's work on the project Complete - Project leadership continue to			indicated that in-office team members continue to see increased productivity from in-person		the team has essentially
					key BESSD SME's work on the project Complete - Project leadership continue to encourage independent phone conversations to enhance and accelerate			project collaboration. Some key DHS SME's will continue to work remotely which could pose a		reached the new normal
					communications, and for team members not wait for meetings to converse.			challenge to project productivity. Earlier concerns with COVID impacts to their offshore (India)		in Honolulu. This includes
								team because of the spike in new cases appear to be subsiding. IVV changed the criticality of this finding from medium to low and will continue to monitor. 5/27/21 - The ASI has allowed their		fewer resources travelling and more conference
								finding from medium to low and will continue to monitor. 5/27/21 - The ASI has allowed their team and select DHS team members to return to their office. DHS' acting PM has noted in-person		and more conference calls; however, the project
								team and select DHS team members to return to their office. DHS' acting PM has noted in-person interactions with the ASI have improved communications and productivity at the PM level. It		calls; however, the project has adjusted to the lack of
								remains unclear whether the off-shore ASI team will continue to be impacted by team members		in person meetings. In our
								who may become unavailable due to COVID. 4/28/21 - The project continues to adapt to virtual		off-shore office, we still
								project activities and sessions. Though in-person sessions are likely more productive and can		have staff working from
								increase stakeholder participation and the project's cadence, DHS has accepted this risk and		home. We expect that to
								continues to improve their virtual capabilities. The ASI stated their off-shore India SSP team has		continue for at least the
								been directly impacted by the increased COVID infection rates as 3-4 of their developers have		rest of the year. However,
								contracted COVID. If these numbers grow the ASI may transfer some of the work to other teams. 3/31/21 - As BESSD operational activities due to COVID subside, some BESSD SMEs are increasing		the impact to our off- shore resources have
								3/31/21 - AS BESSD operational activities due to COVID subside, some BESSD SMEs are increasing their level of involvement on project tasks (e.g., UAT testing, Product Owners). Hawaii State		ameliorated since the
4	DHS PMO project team members have Ryan	Finding - 1/10/2020 Projec		The key resources leaving the BES Project provide knowledge and history of	5/31/2021 - DHS continue to work with the appropriate organizations to identify the ASAP	3 5	High Open	11/26/2021 - No material updates in this reporting period. 10/31/2021 - No material updates in	02/08/2021 - Brian Donohoe dnes	
	transitioned off the project, which	Issue	PMO, BES and ASI project team members are planning to	DHS and its software, solutions, and business processes, along with a level of	funds necessary to fill these positions In progress. The state should document a			11/26/2021 - No material updates in this reporting period. 10/31/2021 - No material updates in this reporting period. 9/30/2021 - The BESSD Administrator, serving as the interim DHS BES	not agree with IVV's high-criticality	ASI perspective, the
	may cause gaps in knowledge transfer		retire or leave the project within the next few months or	consistency and continuity to the extended project team. This experience	transition plan for the project and PMO resources as identified in the RFP (reference			Project Manager resigned from DHS. To mitigate the knowledge and leadership risk, DHS	rating on this Finding (#43) and	changes to the project
	and leadership on the project.		have already transitioned off the project. While there are	and knowledge is critical for the BES DDI and KOLEA Modifications, and	RFP section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-19			backfilled the DHS BES Project Manager with a contractor possessing extensive BES project experience. The Assistant BESSD Administrator will provide an active decision-making role in the	DHS rolled out the DHS Product	management of the BES
			plans and actions being taken, a formal	planning efforts for BES Maintenance and Operations activities.	economic impact to the state budget, directly in relation to the project resources.			experience. The Assistant BESSD Administrator will provide an active decision-making role in the		project have provided
			transition/succession plan has not been documented. In		Closed The ASI should document a transition plan for each key resource as required			project. IVV will monitor the impact of these project management changes. The remaining DHS	to the DHS team on January 29,	little impact on the overall
			January, the ASI did announce and introduce an interim Project Manager, but a plan for a permanent replacement		by the RFP (reference RFP section 3.5.1.2 'Benefits Eligibility Solution Project Staffing'.) - Closed			PMO positions continue to be unfilled. 8/30/2021 - No material update in this reporting period.  7/29/2021 - No material update in this reporting period. 6/20/2021 - No material update in this	2021. (Gary provided the Final DHS Product Owner Roles and	project. At this point, the knowledge transfer gaps
			is not currently known.					7/28/2021 - No material update in this reporting period. 6/30/2021 - No material update in this reporting period. 5/31/2021 - No material update in this reporting period. 4/30/2021- DHS	Responsibilities document to IVV	have been closed and the
			Differency Mown.					reported the 'hiring freeze' has been lifted and are working to secure the budget for these	on 02/8/2021). 06/30/2020 - Mark	leadership of the project
								positions. IVV will continue to monitor. 3/31/2021 - No material update to this finding in this	Choi is becoming more involved in	remains strong hands
								reporting period. 2/28/2021 -No material update to this finding in this reporting period. Note -	the project. Involved in Arch	from DHS. We
								Previously this finding was addressing DHS PMO and DHS BESSD staff, they were split during this	decisions and PM decisions around	
								reporting period to accommodate different status updates and criticality ratings. The BESSD Staff	tool sets, future vision, etc. Day to	IV&V reassess the
								are now in finding #65. 01/31/2021 - DHS assigned several BESSD staff to the project team this month and they are in the onboarding process. The DHS PMO positions remain in an open status.	day PM working closely w/ Gary	probability of impact and
								month and they are in the onboarding process. The DHS PMO positions remain in an open status.	and Emerald. We have no insight	severity of impact and
								Although many new staff were added to the project in January, IVV retains this as a high-priority until DHS has validated the project has the staff with the required skill sets needed for the long-	into otner DHS staffing.	lower the overall rating for this risk.3/3/2020 -
								term. This may be challenging since the project is using Aba and MS. Project to account		tor this risk.3/3/2020 - The ΔSI PM stated the
								term. This may be challenging since the project is using Aha and MS-Project to manage the schedule and Aha does not currently have DHS resource estimates included for the activities and		The ASI PM stated the Project Coordinator
								tasks. 12/31/2020 - DHS identified 2 additional staff to begin assisting in the deliverable review		position is filled and they
								process in January 2021. Additional BESSD staff may be needed to support the project in the near		will begin work on
								term for the larger releases and the open DHS positions have not yet been approved/funded.		3/9/2020, transition
								11/30/2020 - DHS has identified additional part time BESSD staff to work on the project in the		activities from Donna will
								Product Owner role. DHS is planning to establish roles and responsibilities for the new team		begin next week. ASI PM
								members and continues to pursue additional staff to work on the project to minimize risk.		also stated they are
								10/30/2020 - No material update to this finding during this reporting period. 9/30/2020 - The lack		currently filling the ASI
								of DHS staff to work on the BES project is negatively impacting the project. The last DHS PMO		PM and ASI Engagement

Finding Title	Reporter	Finding	Identified Category	Observation	Significance	Recommendation	Event Ho	rizon Imp	act Proba		st Finding	Status Update	Client Comments	Vendor Comments Risk
39 Uncertainty and/or all safe of communication and sound long term architecture decisions could impact the project decisions could impact the project decisions, seeding the design, and planning decisions.	mfors	Finding- Issue	Project Management	have yet to be made and socialized to the project. For example, the ASI and DHS have stated that they have reached agreement that the project will move forward with implementing two Siebel instances (one for KOLEA,	inclusive of all known future solution plans as possible. As an example, if KOLEA and BES are to move to a single instance of Siebel in the future, planning for that integration should be incorporated into the project now. If such significant future changes are not planned for now, the project is likely to see increased complexity, rework, and costs when integrating the true.	The AS continue to make updates to the Bis 23 System Architecture Deliverable with additional desirable and they are constanted and with any architecture dramps are finalizedComplete: -Did should finalize the Perol at strangs and implementation desirable and communicate desiry continuous control or to stakeholders under the properties of the properties of the properties of the properties of the partners of t	ASAP	2	2			11/25/12 - The KSI reported progress in finalizing details of the Two-Portal and GCP change requests (CR) and writed soveral by CRIS with MDRS. They are also working for finalize some of the architecture components, However, it remains under if these changes are fully communicated and writed by the larger project team. 11/26/12 - 17 We remains concerned with the miscontinuous control of the communicated and writed by the larger project team. 10/26/12 - 17 We remains concerned with the Rescheduling CR was proviously racked as the KOLEA AT CCR, Further, it remains undered these controls and the control of the control of the service of the control of the service of the servic	in Liferay. Future Integration of the portals is still to be determined, but is not more complex than originally planned for data sharing. If change is mad to Adobe, this would require a CR	DHS continue to refine the final plan for the two portal vision. We expect that final decisions will likely be made during this reporting period and e communicated to the
16 Leak of clear understanding of the DD sporosch may reduce effectiveness of all SDLC Processes.	mfors	Finding - Issue	12/17/2018 Configuration and Devel	Design, Development, and Implementation (DDI)	project activity objectives: may reduce the effectiveness of JAR and JAD sessions as well as other BES project activities and decisions.	PCG accommends one or more of the following to militigate this risk. ACS provide as additional DIO approach nevertiew russion for state-deliver's was districted on a lements of the methodology, especially never product convers. Complete REGIFTION COMPARTS of the Complete Section of the Complet	1/31/19	3	3	Med	Open	And the second of the second o	[sc] status meeting, DNs Gd not docknote the offer and made suggestions. To my understanding suggestions. To my understanding the Unitys offered to present the orientation during each JAD section. It was suggested by INS that the pre-AID packet be placed that the pre-AID packet be placed that the pre-AID packet be placed more participant in the JADs. a separate orientation before the JAD should be held for those new participants.	9/9/21 RAP - The most recent updates on the SOLC have been added to Confluence as promised. The testing lead will continue in her role as testing lead and will also continue to play an advisory role on the design of the system as she has done throughout
Late delivery of project deliverables may cause schedule delays.	Ryan	Finding - Issue	11/28/2018 Project Management	to schedule for specifics), several due dates for project	can suffer unplanned consequences in scope, schedule, cost, and quality	9/30/2012. The egiste not yet having a revised baseline schoule, continue monitoring and analyzing deliverable to them palse well not the netted palse of special school which we have been seen some state of the critical palse. SI/31/2012. When the revised school is published the project team should restart we weekly practice of reporting actions begind their for the tasks and develop mitigation plants for those tasks that may be late Complete 4/30/2013 and 7/37/2012. The state of the task state of the task state of the task state of the state of the state of the state of tasks of the state of tasks of the state of tasks of	TBD	4	5	High	Open	13/26/2021. The project continues to demonstrate list deliverables. For exemptic, E* Special indicators and CMM interviewed din on aging the Release 8 System integration Festion parameters of the state of the Release 8 System integration Festion parameters of the Release 8 System integration Festion parameters of the Release 8 System integration Festion parameters of the Release 10 System in Release 10 System in Release 10 System in Release 10 System integration Festion state of the Release 10 System integration Festion in Release 10 System integration in Release 10 System in Release 10 Sys		2/20/21 Sep - The ASI well continues to refine the published schedule based not feedback from DHS and the IAVG while we wonk through the final work through the final AIC which is nearing completion. Regarding the recommendations: Recommendations at 12 Based on progress modelul. AIC which is nearing the recommendation at 12 Based on progress modelul, the AIC which is nearing the recommendation at 12 Based on progress modelul, that we can agree in principle on the AIC which we can agree in principle on the AIC what we can agree in principle on the AIC when the work of the work of the air continues are the air continues and the continues that we can agree in principle on the AIC when the work of the continues the continues that we would be also also also also also also also also