

STATE OF HAWAI'I | KA MOKU'ĀINA O HAWAI'I DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA

P.O. BOX 119. HONOLULU. HAWAII 96810-0119

June 6, 2025

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

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

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within 10 days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawai'i, Department of Attorney General (AG), Child Enforcement Agency (CSEA).

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

Sincerely,

Christine M. Sakuda Chief Information Officer State of Hawai'i

Attachments (2)



MONTHLY IV&V REVIEW REPORT

April 30, 2025 | Version 0.1



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BACKGROUND

The State of Hawaii (State), Department of Attorney General (AG), Child Support Enforcement Agency (CSEA) contracted Protech Solutions, Inc. (Protech) on October 2, 2023, to replatform the KEIKI System and provide ongoing operations support. Protech has subcontracted One Advanced and DataHouse to perform specific project tasks related to code migration, replatforming services, and testing. The agreement with DataHouse was terminated in February 2025. The Department of AG contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the project.

Our initial assessment of project health was provided in the first Monthly IV&V Review Report as of October 31, 2023. Monthly IV&V review reports will be issued through August 2025 and build upon the initial report to continually update and evaluate project progress and performance.

Our IV&V Assessment Areas include People, Process, and Technology. Each month we will select specific IV&V Assessment Areas to perform more focused IV&V activities on a rotational basis.

The IV&V Dashboard and IV&V Summary provide a quick visual and narrative snapshot of both the project status and project assessment as of April 30, 2025. Ratings are provided monthly for each IV&V Assessment Area (refer to Appendix A: IV&V Criticality and Severity Ratings). The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of the underlying observations.

TEAMWORK AND PERSERVERANCE

Progress in complex projects doesn't come from perfect conditions, but from teams that adapt, persist, and show up for each other, especially when the path forward demands both clarity and resilience

- IV&V Reflection



PROJECT ASSESSMENT

April 2025

SUMMARY RATINGS

OVERALL RATING



Deficiencies were observed that merit attention. Remediation or risk mitigation should be performed in a timely manner.

PEOPLE



PROCESS



TECHNOLOGY



CRITICALITY RATINGS







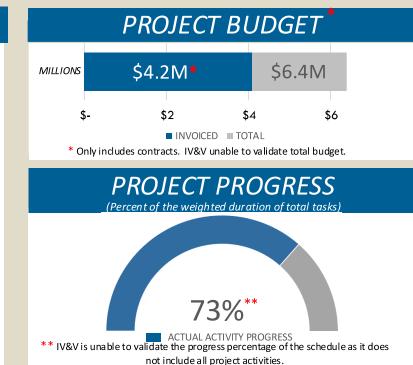




IV&V OBSERVATIONS



THIS MONTH



KEY PROGRESS & RISKS

Key Progress:

THIS MONTH

- A formal Project Change Request (PCR-3) was approved on April 10th, extending SIT through April 30, 2025, and shifting the Go-Live date to October 26, 2025, with no cost impact. The targeted Go-Live date is currently November 11, 2025, to align with a long weekend for operational considerations.
- System Installation activities were reported at 66% completed as of April 30, 2025, including infrastructure setup, environment configuration, and cloud-based server deployments by Protech (DDI). Validation will continue through UAT.
- System Integration Testing (SIT) Iteration 2 was completed on April 30, 2025, with 119 test scripts executed and a 100% pass rate.

TOTAL

- Acceptance Testing Preparation reached 74% completion. The training curriculum was finalized, although training logistics and trainer assignments remain in process.
- While some readiness tasks remain, overall team engagement and leadership alignment support ongoing completion, demonstrating implementation of Recommendation 2024.12.001.R1. IV&V recommends closing Observation 2024.12.001 and its associated recommendation.

Key Risks:

Critical Path Activities show zero float between D-21 approval and UAT start, introducing a high likelihood of cascading schedule delays. Deliverable D-21 (System Test Results Report) is 25% complete, with submission due May 19 and approval by June 9. This is a gating item for Acceptance Testing.

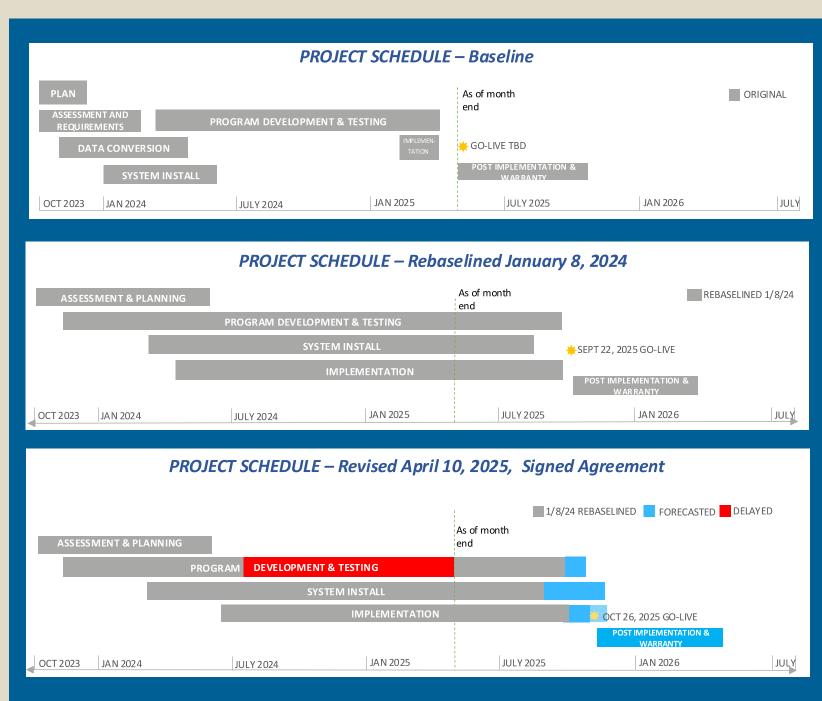
PROJECT SCHEDULE – Current Progress

(See next page for the current gareement and schedule history)



KROM PROJECT SCHEDULE HISTORY

Provided here is a comprehensive view of three timelines: 1. The baseline project schedule set in September 2023. 2. The rebaselined schedule following the approval of the **DDI Project** Management Plan on January 8, 2024. 3. The current schedule based on the April 10, 2025, no-cost change request.



FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
Y	Y	Y	Overall	Project Schedule:
				A formal Project Change Request (PCR-3) was approved in early April, extending System Integration Testing (SIT) through April 30, 2025, and shifting the Go-Live date from September 22 to October 26, 2025, with no cost impact. The April 30th project schedule has since evolved further, with the Go-Live forecast now updated to November 4, 2025, and the Go-Live Playbook Execution scheduled for October 31. The current target Go-Live date is November 11, 2025, selected to coincide with the Veterans Day weekend and reduce operational risk through a long cutover window. System Installation activities were reported at 66% completion by Protech (DDI) as of April 30, 2025, including environment setup, infrastructure configuration, and deployment of AWS-hosted application and batch environments. While March and April scheduled activities were closed as planned, schedule alignments still required are,
				 Task 546 (Batch Finalization) not yet started at the end of April but scheduled with May 1 data extract which is projected to complete in May.
				 Deliverable D-21 (System Test Results Report) reached 25% completion. A walkthrough is scheduled with CSEA on May 2, with submission due May 19.
				 Go-Live Playbook Execution is scheduled for October 31, with current Go-Live forecast on November 4, 2025.
				 Zero float between D-21 (System Test Results Report) approval (due June 9) and Acceptance Testing start (scheduled for June 4).
				The schedule adjustments improve transparency, but success depends on prompt task execution and risk mitigation in May.
				Project Costs:
				Contract invoices remain within the total contracted costs.

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
Y	Y	Y	Overall	Quality:
			(continued)	IV&V observed improved execution in System Integration and System Testing throughout April, but significant risks remain related to testing closure and data validation.
				 System Integration Testing (SIT) Iteration 2 achieved 100% test script execution and passed results, indicating strong coordination and defect management.
				• System Testing progressed with successful execution of check printing, forms validation, and FTP-based correspondence testing. However, not all print logic and defect closure artifacts have been finalized.
				• Batch Testing Execution is complete, but Task 546 (Batch Finalization) is 0% complete. No formal runtime performance comparisons or expected vs. actual output reviews have been conducted, and the associated sort logic discrepancies (RAID #70) remain unresolved, this is now scheduled for May completion.
				 Deliverable D-21 (System Test Results Report), required for test closure and UAT readiness, remains only 25% complete and lacks the supporting traceability documentation and defect summary required for acceptance. Project Success:
				The KEIKI KROM project made measurable progress in April, completing several foundational and execution-critical milestones. This brought project activities to 73% completion. The project team successfully delivered on all March and April schedule tasks, most notably,
				 System Installation activities progressed to 66% completion, including KEIKI database and AWS-hosted environment configuration.
				• On-time closure of System Integration Testing (SIT) Iteration 2, with 119 scripts executed and all passing.
				Advancement of System Testing, including print validation and FTP-based correspondence testing.
				• Batch runtime performance is being actively monitored, benchmarked, and reduced, as evidenced by successive improvements in execution time documented in the April 24 Weekly Test Report. Noting that there is still work in progress between batch job windows.
				• The initial Acceptance Testing curriculum was finalized to support downstream readiness, with UAT script refinement reaching 74% completion as of April 30. The project remains in Yellow status due to several readiness activities that require timely resolution. While April reflected strong execution and milestone completion, the critical path shows zero float and schedule dependencies such as D-21 (System Test Results Report) finalization, training delivery planning, data extract validation, and penetration testing preparation must progress in May to maintain alignment with the revised project timeline and ensure UAT and Go-Live readiness.

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
G	G	G	People Team, Stakeholders, & Culture	The KEIKI KROM project team and stakeholders sustained a productive and collaborative culture throughout April. Coordination across teams supported the successful completion of SIT Iteration 2 and steady progress in other key areas. While some readiness tasks require clarified ownership, overall team engagement and leadership participation remained strong.
				Team:
				The project team demonstrated strong c ollaboration in April, completing SIT Iteration 2 and coordinating successfully across testing, training, and infrastructure tracks. While execution was steady, IV&V notes that several key readiness activities, such as UAT training delivery, July compliance support, and Penetration Testing preparation while planned in the schedule still require additional clarity in resource assignments. CSEA recognizes this and is focused on addressing this in the May planning sessions.
				Stakeholders:
				Stakeholder engagement remained active throughout April. CSEA leadership participated in weekly status meetings, SIT walkthrough planning, and deliverable tracking, helping sustain progress across key workstreams. However, coordination for upcoming activities such as interface testing with external agencies, July compliance planning, and training delivery approvals will require continued attention to maintain alignment as the project approaches UAT.
				Culture:
				The project continues to reflect a professional and delivery-focused culture across vendor and State teams. Collaboration has remained constructive, with open dialogue during defect triage, schedule realignment, and deliverable planning. IV&V observed mutual respect and responsiveness in team communications, even as deadlines compressed and responsibilities shifted post DataHouse departure. The current project team is highly collaborative and hyper focused on quality.
				The Green status for People: Team, Stakeholders, and Culture reflects a well-aligned team structure, active stakeholder engagement, and a collaborative culture focused on shared ownership, transparent communication, and continuity through the Protech transition to additional direct responsibilities.

FEB	MAR	APR	IV&V ASSESSMENT	IV&V SUMMARY
			AREA	
①	1	Y	Process Approach & Execution	Process: The KEIKI project adhered to its planned milestone-driven structure during April. Formal schedule changes were processed and accepted through PCR-3 (Change Log), and tasks were executed in accordance with the revised plan. SIT Iteration 2, some security configuration, and infrastructure setup were completed, along with training curriculum development. While execution remained aligned to schedule, several readiness processes did not advance to closure, including Batch Finalization, D-21 (System Test Results Report) completion, Penetration Testing preparation, and July compliance planning.
				 Approach: The project continues to execute a phased strategy aligned with contractual deliverables and the adjusted timeline established by PCR-3 (Change Management Log). Progress: SIT Iteration 2 was completed with full test script execution and approval; March and April planned activities, including training preparation and some system installation activities, were also completed. Challenge: Parallel readiness activities remain open or are progressing slowly, including Task 546 (Batch Finalization), Deliverable D-21 (System Test Results Report) development, and Penetration Testing support (Risk #70, #33). Refinement Needed: Ownership assignments and coordination mechanisms should be strengthened to address critical dependencies before UAT begins.
				Execution: The project team delivered all March and April scheduled activities, including successful SIT Iteration 2 execution and batch job completion.
				 Progress: Infrastructure installation was finalized on April 11, and system testing advanced to include correspondence output, printer validation, and initial documentation of test results.
				 Challenge: Several activities required to close out the testing phase remain in flight, including formal validation of batch test outcomes and documentation required for D-21 (System Test Results Report). Refinement Needed: Focus on prioritizing batch finalization, final test defect traceability, (i.e., documentation and
				reconciliation of all defects against executed test scripts to confirm resolution and alignment with Deliverable D-21 requirements), and training session logistics to maintain alignment with the UAT start schedule.
				Risk Log Alignment:
				 Risk #33 – UAT and Acceptance Testing training sessions are not yet scheduled; trainers are unassigned as of April 30. Although curriculum is complete, the absence of a confirmed delivery schedule presents a readiness risk for the planned May 20–22 training window.
				• July compliance tasks remain unassigned. No mitigation has been documented in the schedule.
				 Task 546 (Batch Finalization) remains 0% complete. Deliverable D-21 (System Test Results Report) is only 25% complete. Supporting defect documentation and traceability remain in development.
				 No float exists between D-21 approval (June 9) and Acceptance Testing start (June 4), creating a schedule compression risk.
				The project process status is Yellow. This status considers improvements in stakeholder alignment, risk mitigation strategies, and structured execution improvements. However, the critical path has zero float. Continued refinements in defect resolution, batch result validation, and training logistics will be necessary to complete System Testing, finalize Deliverable D-21 (System Test Results Report), and support the transition toward a Green project status.

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
Ŷ	1	1	Technology System, Data, & Security	The project maintained a stable technical posture in April, with infrastructure, environment setup, and core application components supporting testing and configuration activities. System testing execution and batch runtime validation were completed, while planning for external interface testing and security-related activities is still pending.
				System: System Installation activities progressed to 66% completion, including KEIKI database and AWS-hosted environment configuration, with AWS-hosted server setup and configuration for application and batch environments. Print logic, FTP transfers, and correspondence output features were actively validated and triaged during April testing.
				Data: The hybrid data extract approach remained in use for testing, but a dry-run reconciliation against a full extract has not yet been performed. File sort behavior mismatches (RAID #70) identified during testing remain open and require resolution or documentation for exception. There are minor inconsistencies in extract data that are actively being worked toward resolution and there is a May 1 extract scheduled to be completed within the month of May to address these and work toward batch finalization.
				Security: Security control documentation progressed during April. However, preparation activities for Penetration Testing which currently are scheduled for July 28, have not yet been initiated. Assigned ownership, dependencies, and schedule alignment for those tasks remain undefined as of April 30.
				Risk Log Alignment:
				 Risk #63 – The hybrid data extract strategy has not been validated against a full extract. A dry-run reconciliation has not occurred.
				 Risk #70 – File sort logic discrepancies identified in System Testing remain unresolved and affect data output reliability.
				 Penetration Testing preparation (scheduled for July 28) has no assigned ownership or detailed readiness plan as of April 30.
				 Interface Testing (Risks #31, #35) – No mock file exchanges have occurred with DHS, Labor, or SSA. Exchange job ownership and coordination remain undefined.
				The Technology status remains Yellow, trending up, maintaining a stable technical foundation in April, with completed infrastructure setup and successful batch execution supporting ongoing testing. While interface testing and penetration testing preparation remain pending, continued progress across core environments and systems was achieved.

Appendix A: IV&V Criticality and Severity Ratings

IV&V CRITICALITY AND SEVERITY RATINGS

Criticality and severity ratings provide insight on where significant deficiencies are observed, and immediate remediation or risk mitigation is required. Criticality ratings are assigned to the overall project as well as each IV&V Assessment Area. Severity ratings are assigned to each risk or issue identified.

TERMS

RISK

An event that has not happened yet.

ISSUE

An event that is already occurring or has already happened.

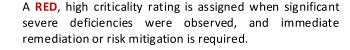
Criticality Rating

The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the respective IV&V Assessment Area, the overall impact of the related observations to the success of the project, and the urgency of and length of time to implement remediation or risk mitigation strategies. Arrows indicate trends in the project assessment from the prior report and take into consideration areas of increasing risk and approaching timeline. Up arrows indicate adequate improvements or progress made. Down arrows indicate a decline, inadequate progress, or incomplete resolution of previously identified observations. No arrow indicates there was neither improving nor declining progress from the prior report.















A YELLOW, medium criticality rating is assigned when deficiencies were observed that merit attention. Remediation or risk mitigation should be performed in a timely manner.







A **GREEN**, low criticality rating is assigned when the activity is on track and minimal deficiencies were observed. Some oversight may be needed to ensure the risk stays low and the activity remains on track.



A GRAY rating is assigned when the category being assessed has incomplete information available for a conclusive observation and recommendation or is not applicable at the time of the IV&V review.



Severity Rating

Once risks are identified and characterized, Accuity will examine project conditions to determine the probability of the risk being identified and the impact to the project, if the risk is realized. We know that a risk is in the future, so we must provide the probability and impact to determine if the risk has a Risk Severity, such as Severity 1 (High), Severity 2 (Moderate), or Severity 3 (Low).

While a risk is an event that has not happened yet, an issue is something that is already occurring or has already happened. Accuity will examine project conditions and business impact to determine if the issue has an Issue Severity, such as Severity 1 (High/Critical Impact/System Down), Severity 2 (Moderate/ Significant Impact), or Severity 3 (Low/Normal/Minor Impact/ Informational).

Observations that are positive, preliminary concerns, or opportunities are not assigned a severity rating.



SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level

TERMS

POSITIVE

Celebrates high performance or project successes.

PRELIMINARY CONCERN

Potential risk requiring further analysis.



Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR: Awareness, Desire, Knowledge, Ability, and Reinforcement
BABOK® v3	Business Analyst Body of Knowledge
DAMA-DMBOK® v2	DAMA International's Guide to the Data Management Body of Knowledge
PMBOK® v7	Project Management Institute (PMI) Project Management Body of Knowledge
SPM	PMI The Standard for Project Management
PROSCI ADKAR®	Leading organization providing research, methodology, and tools on change management practices
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
IEEE 828-2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	International Organization for Standardization (ISO) Quality Management Systems – Requirements
ISO/IEC 25010:2011	ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering — Systems and Software Quality Requirements and Evaluation (SQuaRE) — System and Software Quality Models
ISO/IEC 16085:2021	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management
IEEE 16326-2019	ISO/IEC/IEEE International Standard — Systems and Software Engineering — Life Cycle Processes — Project Management
IEEE 29148-2018	ISO/IEC/IEEE International Standard — Systems and Software Engineering — Life Cycle Processes — Requirements Engineering

STANDARD	DESCRIPTION
IEEE 15288-2023	ISO/IEC/IEEE International Standard – Systems and Software Engineering – System Life Cycle Processes
IEEE 12207-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Software Life Cycle Processes
IEEE 24748-1-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 1: Guidelines for Life Cycle Management
IEEE 24748-2-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 2: Guidelines for the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes)
IEEE 24748-3-2020	IEEE Guide: Adoption of ISO/IEC TR 24748-3:2011, Systems and Software Engineering – Life Cycle Management – Part 3: Guide to the Application of ISO/IEC 12207 (Software Life Cycle Processes)
IEEE 14764-2021	ISO/IEC/IEEE International Standard for Software Engineering – Software Life Cycle Processes – Maintenance
IEEE 15289-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life Cycle Information Items (Documentation)
IEEE 24765-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Vocabulary
IEEE 26511-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Requirements for Managers of Information for Users of Systems, Software, and Services
IEEE 23026-2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Engineering and Management of Websites for Systems, Software, and Services Information
IEEE 29119-1-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions
IEEE 29119-2-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes
IEEE 29119-3-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation
IEEE 29119-4-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
ISO/IEC TR 20000-11:2021	ISO/IEC Information Technology – Service Management – Part 11: Guidance on the Relationship Between ISO/IEC 20000-1:2011 and Service Management Frameworks: ITIL®
ISO/IEC 27002:2022	Information Technology – Security Techniques – Code of Practice for Information Security Controls

STANDARD	DESCRIPTION
FIPS 199	Federal Information Processing Standard (FIPS) Publication 199, Standards for Security Categorization of Federal Information and Information Systems
FIPS 200	FIPS Publication 200, Minimum Security Requirements for Federal Information and Information Systems
NIST 800-53 Rev 5	National Institute of Standards and Technology (NIST) Security and Privacy Controls for Federal Information Systems and Organizations
NIST Cybersecurity Framework v1.1	NIST Framework for Improving Critical Infrastructure Cybersecurity
LSS	Lean Six Sigma

Appendix C: Prior Findings Log



ASSESSMENT OBSERVATION	ORIGINAL	CURRENT	OPERALIZABIL	INDUSTRY STANDARDS AND BEST	· · · · · · · · · · · · · · · · · · ·	PERSONAL PRODUCTION OF THE PERSONAL PROPERTY O		CLOSED DAYS	ELOCULE PERSON
People 2024.12.001 Risk	SEVERTY Moderate	SEVERTY Moderate	OBSEMMANON ("Circilla tasks like "AWS Environment Pub1075 Compliance" and "KMS: Acceptance" Test Scripts Development Complete" have 0% completion despite their planned start in October 2023. This indicates potential resource or prioritization constraints. Weekly testing reports highlight slow progress due to insufficient resources (data sociessing allocated to batch's validation and the society of the socie		AMAMSES. Resource allocation challenges are hindering progress on critical tasks like compliance testing and test script development, evidenced by 0% completion rates and testing backlogs (e.g., only 16% of batch jobs validated). Addressing these issues through skilled resource deproyment and upskilling initiatives will mitigate delays, accelerate milestone completion, and align with PMBOR* principles for optimized resource management.	STATUS (2004-1200). This Enhancement of resource allocation: the vendor team should consider assigning additional or more experienced around consider assigning at ask and backlog testing areas such as financials and support UI validation.	3 STATUS UPONE. 2 D25/04/30. System Installation activities progressed to 66% completion, including KEIKI database and AWS-hosted environment configuration. IRS Pbb J075 (security and privacy requirements for agencies and contractors who receive or process feederal Tax information) compliance was decimented and tracked throughout CLI Functional ST and system testing completed in April and backing test cases appear closed via full script execution in STI ferration 2 which shows all 119 test scripts were executed and passed. WW recommends closing this observation and its resulting recommendation (2024.12.00.11.). 2025/03/31. As of March 2025, CSSA has confirmed that they have appropriate access to AWS since the Portech transition and overal testing access and accordisation have improved, particularly through structured agency validation meetings led by CSSA. The KIKIL project's both testing was reported as 87% complete, according to the most recent Critical Path schedule update. This reflects cumulative progress across unlinel best between the extension, including performance turing efforts and output validation cycles associated with the February 18 dataset. The remaining batch activities, including feration 5 and final validation are scheduled to continue into April. This observation shall remain open until the formal schedule alignment has been conducted and approved by CSE and backing testing across have been addressed. 2025/02/28: 38% of batch jobs have passed validation as of February 26, 2025, showing an improvement but still below required leve for progression into the nost phase. Resource shortages in financials and UI validation are solwing testing execution, requiring additional skilled personnel to meet backlog demands. D0 has withdrawn from the project as of February 19, 2025, causing the necessity for a testing allocation transition plan to Protech which is still progress; IAW validation process and improving coordination between stakeholders. However, challenges remain in fu	S S	CLOSUME BEASON See Status Update 2025/04/30
Process 2024.12.003 Risk	Moderate	Moderate	Non-critical tasks are being tracked alongside critical ones, diluting focus and potentially straining resources. Financial Test Deck (FTD) testing is blocked by unresolved defects, stalling progress on 92% of pending cases.		Tracking non-critical tasks alongside critical ones is straining resources and delaying progress on essential activities like Financial Test Deck (FTD) testing, which is stalled by unresolved defects impacting 92% of cases. Refocusing on critical path tasks and resolving key defects, as emphasized by SPM, will prevent cascading delays and enable progress in blocked testing areas.		2025/04/30. Process and task tracking improved in April but key readiness items (Batch Finalization, Pen Test, Compliance) are missing task details such as ownership or have not been fully scheduled yet. A formal Project Change Request (PCR-3) was approved on April 10th, extending ST through April 30, 2025, and shifting the Go-Live date to October 26, 2025, with no cost impact. The targeted Go-Lid date is currently November 11, 2025, to align with a long weekend for operational considerations. With the change occurring in mid-April the team continues actively planning toward UTA and scheduling alignments will continue through May. New Will continue to monitor the scheduling activities and strongly suggests a focused effort in task definitions and alignments to avoid schedule compressive with increased risk in execution UTA and Go-Live. 2025/03/31: During March, Protech assumed full responsibility for test execution and defect management, including taking over administration of the lira defect tracking system. This transition supports improved traceability between test case execution and defect resolution. Whith the ST dashboard continues to show spreake execution and offered resolution. Whith the ST dashboard continues to show spreake execution of the lira data of the state of the st	n k	
Process 2024.12.005 Risk	Moderate	Moderate	Testing metrics from weekly reports show varying levels of progress, with areas like enforcement batch validation at only 21% covernent batch validation and varying the progress tracking and reporting. The risk log shows issue #47. Data extraction delays highlight the need for improved progress tracking and reporting.	IEE 1012-2016 recommends written and control of the commends of the control of th	Inconsistent progress metrics, such as only 21% coverage in enforcement batch validation, indicate gaps in tracking and reporting that hinder effective oversight. Implementing a real-time dashboard, as recommended by IEEE 1012-2016, will provide actionable insights to prioritize resources and address delays efficiently.	(2024.12.06.RI) Establish Pragress Monitoring and Reporting; Implement Open areal-time dashboard to monitor test execution rate, defect closure, and coverage metrics. This provides actionable insights for targeting resources and resolving delays more efficiently.	2025/04/30. In April Protech (DDI) fully stood up and transitioned all testing activities and ownership of the AWS environment for the AROM project. While the testin is now using a testing disabharad in Jir awkich is transparent, the Deliverable D-21 (system Test Results Report) is at 25% completion and defect traceability and test closure are not finalized. 2025/03/31. Throughout March, risk and issue tracking improved through targeted updates in the IV&V reports and touchpoint confirmations, however, the RIDD go content was not consistently cited in weekly status reports. While IV&V validated the active stat of several key risks (e.g., Risk 89) related to data validation and Risk #112 concerning test execution continuity), these risks were primarily referrenced through summary narratives, not a direct to glet multilages. The most creen RIAD log submitted in March lists several active risks not fully integrated into status reports, suggesting this observation should remain open until cross-referencing practices between RIAD log as unimary and the set submardated. 2025/02/28: While testing reports did show improvement in February, IV&V will continue to monitor the clarity of the weekly stating reports clinic the transition of testing resports between RIAD logs and servant in Section 2015/2025. Financial Test Deck (PID): 75% complete IB scenarios passed, 6 active). System tieragiation Testing BID Execution. 28% complete IB scenarios passed, 6 active). Section 2015/2015/2015/2015/2015/2015/2015/2015/		
Process 2024.12.006 Risk	Moderate	Moderate	Some lower priority testing, such as reporting subsystem batch jobs, reflects OK progress.	and schedule flexibility in	Delays in non-critical tasks, such as reporting subsystem batch jobs with 0% progress, highlight the need to reallocate resources to critical testing activities. By deprioritizing these areas and requesting extensions, as supported by PMBOK* v7, the project can focus on achieving timely completion of high-priority deliverables such as XMS Go Live.	(2024.12.07.R1) Request Extension for Non-Critical Deliverables: Deprioritize non-critical testing areas and request extensions for their delivery to realize focus to critical testing. To ensure timely completion of high-priority deliverables such as RMS Go Live.	2025/04/30. The incomplete state (25%) of D-21 (System Testing Report) as of April 30 further supports keeping Observation 2024.12.006 open. The delays are not isolated to minor reports, they affect key transition documentation necessary for testing and cutower. This document is document is essential for closing out system testing, gating acceptance testing start, and meeting state and enterprise the state of the system of the start of the state of the start of the state of the start of the start and meeting start, and meeting start and start of the start		

ASSESSMEN	OBSERVATION	TVDE	ORIGINAL	CURRENT	ORSEDVATION	INDUSTRY STANDARDS AND BEST	AMAI YSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSUPE PEASON
Process	2024.12.007	Risk	Moderate	Moderate	Riskis related to dependencies, resource availability, and stakeholder approvals are not explicitly mitigated in the scheduler. Weedly reports highlight an increasing trend in defects, with 480 defects logged as of December 18, 2024.		The increasing trend in logged defects (480 as of December 13, 2024) and unmitigated risks related to dependencies and resource availability emphasise critical gaps in risk management. Enhancing the risk mitigation plan, as recommended by ISO/IEC 16085:2021, will address recurring issues in defect-prone areas like financials and interfaces, reducing the likelihood of further delays.	(2024.1.2.0.8.1) Further enhance the risk mitigation plan targeting defection prome areas used in simulations of minimals and enforcement systems, proactively reducing the likelihood of additional delays caused by recurring issues.	Open	2025/04/30. Compliance and Penetration Testing tasks, dependencies and resource availability remain unassigned as of April 30. 2025/03/31: In March, risk wareness remained a core focus across IV&V and stakeholder reporting, with specific emphasis or transition readiness, batch data quality, and cutvour planning risk. Active risks unds. as Risk R89 (data extraction) and Risk R112 (resting transition) were tracked through status reports and IV&V analysis, and the March RAID log reflected five open risks aligned with ongoing project concerns. Newer, RAID log integration into weekly reports was still gardinal, with risk is not consistently cited in arrative updates. As such, this observation should remain open, pending full and consistent mapping of RAID risks into weekly reporting artifacts and stakeholder communications. 2025/02/28: In February, risk management processes remain active, with ongoing monitoring of resource allocation, batch job validation, and interface file resolution. Several risks remain open, including data extraction delays, defect resolution issues, and resource constraints. Additional verification and sustained monitoring are needed to ensure risk militagets strategies are faily) implemented before closure. 2025/01/31: Risk militagiation efforts, including strengthened collaboration between teams to address system integration challenges and resolve key technical issues improved in January. However, onne dependencies remain unresolved, necessitating additional testing and validation to fully militigate potential risks before implementation.		
Process	2023.10.002	Risk	Moderate	Moderate	Project management responsibilities may impact effective project execution. The review of prior findings confirms that several closed issues correlate with ongoing challenges in data validation, resource management, interfact dependencies, and testing progress. To ensure project success and minimize cutwoer risks, responsing these findings and implementing corrective actions are advised. Dependencies such as task 593 for "KMS-Acceptance Test Scripts Development Complete" remain unfulfilled. Weekly reports identify unresolved data file dependencies and incorrect file formats (e.g., GDG issues in batch jobb), further delaying progress. Linear task sequencing contributes to delays where tasks could feasibly run in parallel (e.g., complaince and database migration, Financials have 0% validation coverage in the refined UI, highlighting the backlog.	e timely task completion. ISO/IEC 16085:2021 recommends proactive risk management to identify areas where concurrent task execution mitigates schedule risks.	team to address feedback. Possible root causes or contributing factors are turnover of project managers, an aggressive project timeline, and need for additional project management support. Another possible root cause is Protech's need to revisit the project RFP and submitted proposal to reduce the misalignment of expectations, creating longer deliverable review cycles.	brainstorming possible causes, and developing a plan to address the root cause of the problem such as resource constraints, dependencies, and undefined tasks. Assess potential opportunities for parallelizing		2025/04/30: The root causes driving schedule delays, such as lack of resource clarity, overlapping dependencies, and unscheduled support tasks, remain visible in April. While the project team responded to delays with schedule updates (PCR-3) and completed STI terration 2, the conditions that led to earlier delays have not been systematically mitigated. The continued shifting of the settimated Go-Live date beyond PCR-3's approved timeline further supports the observation that a durable resolution has not yet been realized. NEA vision rosts that the circlical path from Delevable D-21 approval to Acceptance Testing start remains under pressure, with zero float, increasing the likelihood of cascading delays if unresolved tasks are not completed promptly. NEAV recommends that the project team consider conducting a root cause analysis and relevancy movership assignments for rerical path realises tasks; including batch finalization, training, and security preparation, in alignment with PMBDC*V7 guidance on Risk and Resource Management, to reduce the likelihood of cascading delays if unresolved training the resolution of the security preparation, in alignment with PMBDC*V7 guidance on Risk and Resource Management, to reduce the likelihood of Abarch, project reporting has improved in granularity, with weekly status reports, consistently identifying active risks and feeting reliable blockers, and IVEV training introducial 2000 log terms; (e.g., 84:e80 28 and 81.12). However, formal indiration was all the resolution of the Control of th	Original Close: 2024/05/31 Reopened: 2024/12/24	Original Closure Note: Closed as the project managers are working more collaboratively to share and execute project responsibilities.

ASSESSMENT OBSERVATION	ORIGINAL	CURRENT		INDUSTRY STANDARDS AND BEST				4	
AREA ID TYPE	SEVERITY	SEVERITY	OBSERVATION	PRACTICES	ANALYSIS	RECOMMENDATIONS STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
ASSESMENT DESERVATION 1979 2024-06-001 Risk	ORIGINAL SVERITY Moderate	CURRENT SEVERITY Moderate	OBSENTATION There is a risk for delays in the data extraction process, which is critical for the outcome activities, due to relance on shared mainframe resources, resources, and the project to represent the project to re	PRACTICES	AMALYSIS The date extraction process is critical for the cutover activities and current projections show potential for significant delays. This issue results from relacince on shared mainframe resources, inefficiencies in data extraction programs, and long download/upload times. Each time new data is recommended to collaborate the process and the sagined was dedicated resources to identify and test this approach but lyally meetings with 01 and CEAS have been extended to collaborate on this issue. The target for validating this approach is lay 187. The static data collected from the data extract process projects a worst-case senario of 12 to 36 days to fully extract ADABAS data to the 374 flat files, including downloading and uploading the files. This arties due to 11 CEAS uses a shared mainframe, 2) mefficiencies of data extraction programs, 3) downloading/load times. The data extract process is central to the cutover activities completing over Fit/Sat/Sun. If not improved, CEA may face 4/5 days operational downtime for cutover weekend.	2024.09.00.1R.1 - Verification of Data Estraction and Convenion Processes Open - Standardigit, EEE 1012.2016. Emphasis: Verification ensures that the system is built correctly according to its specifications. - Recommendation implement a through verification process for all data extraction and conversion methods, particularly the Ascil to BCP script conversions. Establish checkpoints where the file counts and	STATUS SITEMAT 2015/M/30. In April CSCA and Protech (DDI) continue daily coordination post transition (Data-House departure and transitional SOW activity compelions). SQL replication testing is active but not yet fully validated as stable (RAID log Risk RB9). Over 30 data outputs from activity compelions). SQL replication testing is active but not yet fully validated as stable (RAID log Risk RB9). Over 30 data outputs from the July 31 validation target. Observation 2024 06.001 should remain open. While progress across all four recommendation stress is evident, final validation has not been achieved, and extract-related risks remain active. Continued IVAV monitoring is necessary through July to assess the effectiveness of SQL replication and full extract validation before the system cutover. 2025/50/3/31: In March, the project team made notable progress toward addressing data extract quality issue, including the launch of structured half-day CSCA agency validation assissing, and the initiation of a deliverable to identify non-printable characters in hybrid DB fields. Although SQL replication failures and data formatting mismatches remain contributors to delived bath output validations, RBM and a stable of the stab	h dad	CLOSURE REASON
							2024/11/27 - [2024.08.001.R1] - Verification of Data Extraction and Conversion Processes Verification processes have been strengthened, particularly for ASCII to BCP script conversions. File counts and conversion accuracy are now validated during batch validation and regression testing phases, with checkpoints implemented to ensure accuracy before advancing to subsequent phases. Discrepancies if field alignment and conversion accuracy are being resolved iteratively, reducing downstream errors. [2024.08.00.1R.2] - Validation of Extracted Data Consistency for a conversion accuracy are being resolved iteratively, reducing conversions accuracy are being resolved iteratively, reducing downstream errors. [2024.08.00.1R.2] - Validation of Extracted Data Consistency in activated data outputs. Algoric morrowments in data alignment and reduced inconsistencies, as seen in batch validation using September 30 production data. (2024.08.001.R.3) - Risk Management for Binary and ASCII File Handling		

ASSESSMENT OBSERVATION ORIGINAL SEVERITY	CURRENT INDUSTRY STANDARDS AND BEST SEVERITY ORSERVATION PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
JULEA SEVERITY	PRACTICES PRACTICES	GONE STATE OF THE	песоттеполного	SIATUS	STATUS UPDATE. A detailed risk assessment has been performed for binary and ASCII file conversions, particularly for 27 critical files identified in earlier phases. Additional testine is underway to mitigate risks of data corruption during conversion. Proactive error tracking and resolution are reducing potential issues, with measures in place to validate file courts and integrity during early hase of testing.		CLOSURE REASON
					[2024.08.001.R4] - Resource Management and Space Availability Resource assessments were conducted to ensure adequate storage and computational capacity for extraction and conversion tasks.		
					Contingency plans have been established to address potential storage shortages or computing delays. Resource prioritization and adjustments to mainframe untilization have minimized space risks and improved processing efficiency for ongoing testing and validation.		
					IV&V will continue to monitor the above recommendations until there is consistent evidence of resolution.		
					2024/10/31 - 2024 08.001.R1 (Verification of Data Extraction and Conversion): Open – In Progress: Verification steps are underway with some checkpoint implemented. Critical issues, like data/friend discrepancies, have been resolved. Checkpoints to verify file counts and conversion accuracy have been partially implemented, although more robust, automated checks are still needed.		
					2024 08.00 LR.2 (Validation of Extracted Data Consistency): Open – Partially Implementers' SQL replication and extraction validations have progressed, the rictical issues such as date/lime and packed fields now revolved. The October roports indicate that ongoing discrepancies in interface data and batch outputs still require validation to confirm end-to-end consistency across systems.		
					2024.08.001.R3 (Risk Management for Binary and Ascii File Handling): Open – In Progress: Some risk assessments have been completed, but specific evaluations for the binary and Ascii files are still needed. The packed field and date/time data issues were resolved; reducing some risk associated with binary data. Additional validation and testing for converted files remain crucial to ensure data accuracy in other key areas.		
					2024 08.001.R4 (Resource Management and Space Availability): Open - Ongoing Evaluation: Resource constraints, particularly related to mainframe and storage capacity, are still an area of focus. The October updates highlighted that batch and interface testing are sometimes delayed due to dependency on shared mainframe resources and long runtimes for large batch jobs. Develop contingency plans to manage high-demand periods and alleviate mainframe dependency for smoother testing cycles.		
					2024/9/30:There is a delay in the resolution of the production test data delivery method, as noted in the weekly status report. The		
					datetime issue with the replicated SQL data is a key blocker, with the CSEA working to resolve this through Natural programs. This has the potential to delay ricital testing places, as it impacts the ability to test with cacurate production data. The date/fulne issue continues to be a blocker. Nulls and packed binary fields have been resolved. The UI refinement process has progressed, with 84% of the tasks completed. However, finalization and validation are still pending, and the scheduling of the waitsthrough of the UI Refinement Plan is underway. The financial Test Dets (PTD) execution is still only 35% complete, and scenario execution is 17% complete, while not directly on the critical path, delays in the FTD could become a future risk if unresolved issues persist. Batch testing is progressing, with 31% of batch test execution complete.		
					2024.08.001.R1 (Verification of Data Extraction and Conversion); Open – Progress made but verification of Ascii to BCP scripts and checkpoints not fully implemented.		
					2024.08.001.R2 (Validation of Extracted Data Consistency): Open – Partial progress, but full end-to-end validation of extracted data is still pending.		
					2024.08.001.R3 (Risk Management for Binary and Ascii File Handling): Open – No mention of specific risk assessments for binary and Ascii file handling; further analysis needed.		
					2024.08.001.R4 (Resource Management and Space Availability): Open – Ongoing evaluation of SQL replication strategy; resource concerns still active.		
					2024/8/20: The key decision to determine and finalize the method of test data delivery is now anticipated for September and the outcome is now based upon the solution for the date/time issue and the packed binary fields. CSEA and Protech have worked diligently to clear the other issue of nulls.		
					2024/7/31: CSEA is still investigating and testing the SQL to SQL solution, however, the testing results are still not meeting CSEA's expectations. CSEA's decision is due during the first week of August. Because of CSEA's concern that this issue is still unresolved, the potential impact on the schedule, the severity has been raised to high.		

ASS	ESSMENT O	DBSERVATION	ORIG	INAL (CURRENT		INDUSTRY STANDARDS AND BEST						
AR	hnology 2	024.03.001			SEVERITY Moderate	OBSERVATION The timing of other State of Hawaii modernization projects impacts the	PRACTICES	ANALYSIS CSEA's KEIKI system currently relies on a legacy cyberfusion system running on the State's mainframe for system file and data exchanges with	RECOMMENDATIONS CLOSED: 2024-07-001-R1 - It was recommended that CSEA meet with the	Open	STATUS UPDATE 2025/04/30: Interface structures have been defined and designed for flexibility, but interface testing and retest confirmation remain	CLOSED DATE	CLOSURE REASON
Tes	chnology 2	2024.03.001			Moderate	The timing of other State of Hawaii modernization projects impacts the ability to properly design KEIKI system inferdees and will necessitate the need for interface modifications after its deployment, which can lead to additional costs, delays, and disruption to the system.		CSEA's KEIX system currently relies on a legacy operfusion system running on the State's mainframe for system file and data exchanges with multiple State of Hawaii agencies. The firming of multiple agencies moving off the mainframe at different times will result in the need to modify KEIX system interfaces after the system has been deployed. Until other State modernization projects are completed, the KEIXI project cannot perform serves-based data exchanges and will need to continue to interface with the mainframe.	CLOSED: 2024.07.00.18.1 - It was recommended that CSEA meet with the mee which that Differs. And also to new thin the EFS team to identify any potential impacts to CSEA and align with IT policies. CLOSED: 2024.03.001.R1 – CSEA should coordinate regular meetings with impacted State of Hawaii agencies. **Alose, responsibilities, expectations and interface requirements should be clearly defined to ensure information and project status is proactively communicated for the various modernization efforts. 2024.03.001.R2 – The projects should properly plan for interfaces so that they are flexible enough to accommedate future changes and are compatible with other agencies. **Clearly identify all the interfaces that the system will interact with and how they will communicate. **Develop interfaces and start structure that are flexible enough to accommedate that produces to a commodate changes to the interfaces.		2025/04/39. In thereface structures have been defined and designed for flexibility, but interface testing and retests confirmation remain and replatformers. Dependencies on other agencies' modernization timelines continue to impact readmens, and discrepancies between legacy and replatformed outputs are still under resolution. Observation 2024/33/001 should remain open to track continues will addition and confirmation of interface contact will be additionable to the complete, testing dollays and agency modernization dependencies are still impacting readmens and traceballity. 2025/03/31: In March, Protech began validating the 228 open defects within lira, including over 100 unconfirmed issues, and took ownership of ensuring traceballity between defect resolution and retesting outcomes. While ST retesting is well underway for most UI and batch-related defects, interface resign continues to openience delays, particularly due to difficulties capturing set files prior to downstream system consumption. These challenges have limited retesting confirmation for interface-related defects. Therefore, this downstream system consumption. These challenges have limited retesting confirmation for interface-related defects. Therefore, this downstream system consumption. These challenges have limited retesting confirmation interface-related defects. Therefore, this downstream system consumption. These challenges have limited retesting confirmation for interface-related defects. Therefore, this downstream system consumption of the standard confirmation and the standard confirmation are specified to the standard confirmation and the standard confirmation are specified to the standard confirmation and the standard confirmation are specified to the standard confirmation are specified to the standard confirmation and the standard confirmation are specified to the standard confirmation and the standard confirmation are specified to the standard confirmation and the standard confirmation are specified to the standard confirmation and t		
									 Detailed testing will be required as the various departments upgrade their systems to ensure compatibility. 		2025/01/31: While progress has been made in developing flexible interface structures and planning for future modifications, end-to-end testing remains ongoing, and coordination with other departments is still required, meaning recommendation 2024.03.001.R2 cannot yet be closed until Uncompatibility and adaptability are validated. 2024/12/24 - (2024.03.001.R2) in December 2024, progress was made in identifying system interfaces and their communication methods, with updates shared during weekly interface workshops. Efforts to ensure flexibility in data structures and interface configurations confluent conficultion offorts in partner agencies. Testing activities focused or validating data exchange through 504-to-504, comparisons and resolving discrepancies in interface files, with additional workshops scheduled to address integration challenges. While significant improvements were achieved, ongoing coordination with other departments is essential to ensure compatibility as their systems undergo sugrades. Detailed end-to-end testing remains a critical next step to confilm readmess for production.		
											2024/11/37-(2024.03.001.R2)—Interface Planning and Compatibility All interface have been cataloged, dastified as inbound, outbound, or both, with their communication protocols clearly defined. This includes identifying dependencies with betward systems from partner agencies. Further validation of interface files, particularly those with missing or incomplete data, is being prioritized during ongoing batch testing, interfaces and related data structures have been developed with fileability inmin, allowing for inter changes without agrificant redevelopment. The system degles supports updates to selens or message formats, Continue refiring feeability by testing adaptability with most, data representing potential future scenarios and configurations, interface validation testing is underway using production-like files. Intalls validation highlighted discrepancies in legacy and replationed outputs, which are being additional featurely. Detailed esting will continue alongside integration testing (S1T) to ensure that interfaces remain compatible with upgrades to external agency systems.		
											2024/10/31: 2024.07.00.1R. (Alignment of Data Policies with Chief Data Officer) CSSA has conducted the recommended meetings and established alignment on data exchange policies and impact assessments, this recommendation can be dosed. Continued coordination could be noted as a follow-up item rather than an open recommendation. 2024.03.00.1R.2 (Interfaces) Denryllo Progress: Good gragress has been made in identifying interfaces, and with continued focus on data coordination and flexibility planning, we can further strengthen alignment with this recommendation. Ongoing efforts to secure reliable data and enhance adaptable structures will help ensure compatibility and reduce potential disruptions in the future.		
											2024/09/30. The new Chief Data Officer is engaged in the focus on data governance policies and interface details with the EFS team, this effort will be ongoing through project Go-Live. 2024/08/30. ETS' new Chief Data Officer has been aligned as a key stakeholder and is in the process of focusing on data governance policies and interface concerns with the EFS team (2024.07.001.R1) IV&V will continue to monitor and update as the focus on policies and interface concerns vinit the EFS team (2024.07.001.R1) IV&V will continue to monitor and update as the focus on policies and interface concerns progress.		
											2024/07/31: The Chief Data Officer and the EFs team have been contacted and will be meeting with CSEA. 2024/06/30. CSEA and Protech agreed to develop a list of interfaces categorized into three groups: 1) Avway (source: AWS vs. Mainframe), 2) Mainframe (group of interfaces on the mainframe with departments pointing to Awway), and 3) Cyberfusion. They also decided to share this list at the next monthly meeting with Saze Departments. IV&V will continue to monitor the coordination with other State of Hawaii modernization projects		
											2024/05/31: Acculty closed one recommendation as CSEA is coordinating regular meetings with impacted State of Hawaii agencies to monitor the status of their modernization projects and mainframe operations. CSEA is planning to develop an inventory of interfaces to share at an upcoming meeting with impacted Department. 2024/04/30. CSEA organized a meeting with other Departments in April to exchange information regarding the status of their		
Per	ople 2	2024.12.002	Risk Mod	erate I	Moderate	Notes from the project schedule highlight that approvals (e.g., from CSEA) are critical to task progression. Weekly reports indicate challenges in joint troubleshooting sessions with IBM due to PII and file transfer protocol issues.	awareness and desire for	Engaging multiple stakeholders in concurrent projects (Risk IR31) is critical to miligating interface testing risks, but this requires synchronized coordination to prevent delays. Interface workshops and stakeholder meetings (Risk IR35) play a key role in fostering collaboration and ensuring timely resolution of interface-related issues, reducing the risk of misalignment in testing and implementation activities.	2024.12.002.R1) Facilitate regular communication with stakeholders like CSEA through daily meetings to expedite resolution of open issues. This will improve turnaround time for defect resolution and test execution dependencies while strengthening stakeholder engagement.	Closed	respective system modernization efforts, specifically those related to the shared mainframe and dependencies. 2025/02/28. CSEA is holding half day meeting, with the business teams that started in early February to ensure that all the test scripts are fully reviewed and dietled in order to expedite the resolution of poer sisses. This actifyly also provides a mechanism for change management by fostering collaboration and a mutual understanding of expected functionality, reducing the risk of misalignment in testing. Way Forest that this recommendation has been acted upon and will close accordingly.	2/28/25	IV&V notes that this recommendation has been taken into action and will close accordingly.
						(SOURCE)	ough EHALS.		маричинальной жини эмендикання заместоюет егдадетент.		testing. IV&V notes that this recommendation has been acted upon and will close accordingly. 2025/01/31. The status this month reflects ongoing efforts to enhance system integration and streamline data exchange processes, with incremental improvements in validations and testing exvolvious. Despite progress, key dependencies and unresolved technical issues continue to pose challenges, requiring further collaboration and refinement to achieve full resolution.		

ASSESSMENT OF	SERVATION		ORIGINAL	CURRENT		INDUSTRY STANDARDS AND BES						
Process 20	24.08.001	Risk	SEVERITY Moderate	<u>SEVERTY</u> LOW	ObservAtion Industry Standards and Best Practices: IEEE 730-2014 standard recommends that status reports include certain key information to ensure effective communication of testing and quality assurance activities.	PRACTICES	AMAYSS There is currently a weekly testing report provided to the Project Team. The report conveys the number of testing scenarios in process, however the report does not offer a total number of test cases to be processed for each workstream, nor does it convey full metrics, such as percentage of completion of the total scope within the testing categories and how those align with the project schedule parameters. This can contribute to risk when total transparency is not displayed.	based on the current state of testing, as well as the next steps for future	r 1	STATUS UPDATE 2024/10/31: 2024.08.001.R1 (Testing Reports) The weekly testing reports now include pass/fail rates, coverage metrics, defect tracking and milestone updates, providing a clearer understanding of testing progress and project health. This aligns with the recommendation for improved reporting metrics and stakeholedc communication. 2024/09/30: 2024.08.001.R1 (Testing Reports) Significant improvements have been made in the most recent reports and provide a clearer understanding for all stakeholders. IV&V will continue to monitor as these improvements to visibility progress.	(LOSED DATE , 2024/10/31	CLOSURE REASON There is now an aligned and improved test reporting metrics with stakeholder communication and a communication and against the team making informed decisions.
Process 20	24.06.002	Risk	Moderate		The project faces a significant risk of incurring extensive costs for delivering the necessary data to test the refactored ERIS application, potentially leading to delays in the project timeline and increased budget constraints, Desptet discussions with Protech and AWD, the issue remains ibiling-related rather than technical, necessitating ongoing negotiations with ETS to determine financial responsibility. CSA has developed as second option to use a SQL to SQL transfer in to reduce the amount of federal funding needed for this piece of the contract. In the month of July testing will be conducted to test the viability of this cost saving measure. A decision will be made at the end of July, With the new State Clos starting on August 15, decision-making could be further delayed into the Fall.		Meetings have been held with Protech to discuss the data extraction costs. Protech has engaged AWS for options, but AWS indicates the issue is billing-relater, on technical. The cost of deleveing data for testing is critical for the CRICI protect, but CSA finds the current costs prohibituse. Discussions with Protech and AWS indicate the need to resolve the billing issue rather than technical challenges. Without a resolution, this issue could impact the project timeline and budget. CSEA continues to engage ETS to negotiate a cost cap and explore alternative solutions.	suport for data delivery. Fingage in discussions to find a feasible cost structure that aligns with project budgets. Ensure dear communication of cost concerns and impacts to ETS. 2024.07.002.R2 – Explore alternative solutions with Protech and AWS. • Investigate potential cost-awing measures or afternative technical approaches. • Seek AWS assistance to better understand and manage billing concerns. 2024.07.002.R3 – improve performance of data extraction programs to minimize timing and associated costs. • Work with Protech to identify and implement optimizations in the data extraction process.		2024/07/31: The SQL to SQL method for data extraction and transfer has been confirmed. CSEA has addressed the issue of cost.	2024/07/31	The SQL to SQL method for data extraction and transfer will be used. CSEA has confirmed that the costs have been addressed.
Process 20	24.03.002	Issue	Moderate	Moderate	Inadequate schedule and resource management practices may lead to project delays, mised project activities, unrealistic schedule forecasts, or unidentified causes for delays.		The overall project end data and Go-Live data is projecting a 17-day variance due to the delay in the assessment validation which was completed in February. It is crucial for the Protect and CSEA project managers to both take cather coles in tracking and monitoring project activities, especially delayed and upcoming tasks, to callaborate on ways to get the project back on track. Although the project metrics are showing a 17-day variance, some project tasks are delayed 1 to 2 months from the approved baseline including building the KRISI database, developing system test scripts, UI design, UI development, code conversion, system test execution, etc. CSEA should have a clear understanding of the impact of delays on the overall smeline and validate the 17-day schedule variance.			2024/05/30: Issue closed. The schedule was updated and the 17-day variance was successfully mitigated, ensuring the project remained on track. The project schedule continues to be discussed weekly. 1/02/10 encourages the CSEA PM to conduct in depended reviews of the schedule and project metrics. 1/02/10 will continue to monitor progress made on schedule and resource management practices. 2024/05/31: Protect delivered a draft of the replanned project schedule and analysis for CSEA's feedback and approval. The revised schedule materialists the original Go-the date. 2024/05/30: Project managers started meeting regularly to review the project schedule. The project managers will do a deeper analys of the upcoming technical tasks, and then recalibrate the project schedule in May.		The schedule was updated and the 17 day variance was successfully mile gred, ensuring the project remained on track. The project schedule continues to be discussed weekly.
Process 20	24.02.001	Preliminar y	r N/A	N/A	Additional information is needed regarding Protech's program development and testing approach.		In February, Protech delivered the System Requirements Document and Test Plan which are still under review. CSEA already provided a number of comments for both deliverables requesting additional clarification or additional documentation. Both deliverables do not provide sufficient understanding of Protech and Die Advanced a paposo his or the program development and testing appeas. There needs to be a clearer mutual understanding of how Protech's development and testing approach will ensure that the new system and user interface will maintain the same functionality, data, and system interfaces as the old system. The System Requirements Definition deliverable is high-level documentation of items such as source code, data component, and interface tables but does not actually capture the required functionality using industry standard forms can be expended to the source code, data component, and interface tables but does not actually capture the required functionality using industry standard forms creating requirements. Declination of tems such as source code, data component, and interface tables but does not actually capture the required functionality using industry standard forms creating industry standard forms and the requirements of the requirements is expected in the properties of the p		Closed	2024/06/30: Preliminary closed. CSEA acknowledged the risk associated with not having defined UI system requirements. Instead, the test scripts are used as the requirements. The teams collaborate closely and hold regular test meetings to ensure alignment and thorough testing. 2024/05/31: Pretecth's testing approach presentation was pushed back to June. The presentation is critical as test scripts are finalized and system testing begins in June. 2024/04/30: Pretech will present their testing approach in May. The presentation is important as test scripts are finalized, and system testing is approaching. 2024/04/30: Pretech signating on a presentation in Agrif or May to explain how their testing approach will ensure that the new system and user interface will maintain the same functionality as the old system. Without documented requirements, it is still unclear how program development progress, testing, and acceptance will be managed and monitored.	2024/06/30	CSEA acknowledged the risk of not having defined UI system requirements and addressed it by using test scripts as the requirements. Additionally, the teams collaborated closely and held regular test meetings to ensure alignment and thorough testing. This approach mitigates the risk by ensuring that the testing process is comprehensive and that any issues are promptly identified and resolved through ongoing communication and collaboration.
Process 20	24.01.001	Risk	Moderate	Low	ineffective project status meetings and reports can lead to delayed decision-making, lack of accountability, and reduced morale.		Weekly statur reports are provided vein it adults and off the source status, links become and the source status and the source status and the source status and the source status are source sta	project status report and providing topics for weekly project meetings. • Contribute to the improvement of project meetings and reports that actively engage team members and highlight key information relevant to		2024/05/06 field closed. As system testing started in Jane, the team started adding a Weekly Test Report. The report outlines the testin scope, the defects that were retested and validated, and gives a summary of the progress of all test cases. 1/82 W will continue to assess the effectiveness of project status reports and meetings. 2024/05/31: Acculty decreased the severity rating from Level 2 (Moderate) to Level 3 (Low). The CSEA PM presented some of the project's key success metrics at the May Steering Committee Meeting. High-level pre-delivery testing metrics were provided in May. 2024/04/30: Acculty closed two recommendations: Project status reports continue to be refined and now clearly report tasks that hav been rescheduled from the previous week's reporting period. CSEA did not start reporting on success metrics in Agril as planned. 2024/03/31: Although improvements were made to project status reports, they could be further improved by outlining delayed tasks and upcoming architikes to ensure stakeholders are adequately prepared. CSEA continued to refine success metrics to prepare for reporting which will begin next month. 2024/02/39: An expense of the project status reports to be more clear, meaningful, and relevant to the audience. The streamlined status reports are facilitating greater understanding and allowing more time for meaningful discussion amongst project stakeholders.		Text reports were added to the weekly status meetings. The report contains testing and diefect metrics.
Technology 20	23.12.001	Positive	Moderate	N/A	The Automated Application Assessment process was well planned and executed.		Protech's partner, Advanced, worked closely with CSEA's technical SMEs and outlined a clear, well-defined process to collect and assess the KEIX mainframe application in preparation for the migration and code conversion. Advanced's weekly status updates and follow-ups helped all stakeholders understand their roles, responsibilities, outstanding tasks, and status of activities. Their final assessment report was comprehensive, data-driven and insightful, and prepared the project team well as they begin the next phase of legacy code and data system migration.	N/A	Closed	N/A	2024/01/31	Closed as this is a positive observation.

ASSESSMENT	OBSERVATION			IGINAL	CURRENT		INDUSTRY STANDARDS AND BEST						
AREA	2023.11.001	TYPE		VERTY defrate	SEVERITY Moderate	OBSERVATION Complex data system migration requirements, combined with incomplete documentation and the absence of a formalized process for non-code tasks, may lead to project delays, unmet contract requirements, and quality issues		AMAYSS Data system migration and mapping can be complex and cause project delays if not properly planned and managed. The KEIRI system's incomplete documentation and multitude of jobs, workflows, interfaces, and interface files pose a risk of overlooking certain elements, making it challenging to track and validate of jobs, workflows, interfaces, and interface files pose a risk of overlooking certain elements, making it challenging to track and validate in magration requirements. The project lacks a formalized process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalized process for application code migration but lacks a clear process for gathering enor-code and ancillary elements including hardranes, software, interfaces, and bash files. The absonce of a separate, formalized process and relative commanding process. The relative commanding process are relative commandi			STATUS UPDATE 2024/01/31: Risk closed as the inventory of non-code and ancillary elements including hardware, software, interfaces, and batch files was completed and will be validated as part of the technical architecture and system requirements documentation. 1/31/23: CSEA appointed two dedicated Data System Migration Leads. It is unclear if Protech also appointed a dedicated lead. A clear plan is still missing, and CSEA documented a formal issue related to the lack of information coordination and redundant requests related to the data system migration requirements. 2023/12/31: CSEA appointed two dedicated Data System Migration Leads. It is unclear if Protech also appointed a dedicated lead. A clear plan is still missing, and CSEA documented a formal issue related to the lack of information coordination and redundant requests related to the data system migration requirements.	COSEO DATE 2022/4/01/31	CLOSURE REASON Risk closed as the inventory of non-code and ancillary elements was completed.
People	2023.10.001	Positive	we N/A	A	N/A	The project team members are engaged and the environment between Protech and CSEA is collaborative.	of Knowledge (PMBOK)	The CSEA SMEs appear to be engaged in ongoing Assessment sessions and accountable for timely completing required tasks, providing information, and responding to questions. The project team members regularly seek feedback, input, and clarification in an open and respectful manner. The organizer and includes of Protech team members combined with the dedication and high level of engagement from CSEA SMEs support the positive project team environment.	N/A	Closed	N/A	2023/11/30	Closed as this is a positive observation.

Appendix D: Comment Log on Draft Report



Comment Log on Draft Report

KROM Project: IV&V Document Comment Log





ID#	Page #	Comment	Commenter's Organization	Accuity Resolution
1	4	System Installation activities are not complete.	CSEA	IV&V agrees and notes this correction and status from the April 30 th status report.
2	6	Because System Installation is not complete, the sentence "All System Installation activities were reported as completed" needs to be corrected.	CSEA	IV&V agrees and notes this correction as of the April 30 th status report.
3	7	Because System Installation is not complete, bullet point one under Project Success - Completion of System Installation activities by April 11 - needs to be corrected.	CSEA	IV&V agrees and has made this correction as noted in the April 30 th status report
4	7	Bullet point four under Project Issues – execution of all batch jobs – has not yet met runtime performance thresholds.	CSEA	IV&V agrees and notes this correction as noted in the April 24, 2025, Weekly Testing Report
5	7	Bullet point five - there has not been a finalization of Acceptance Testing curriculum yet.	CSEA	4/30/25-KEIKI Weekly Status Report, Pg 6, 2.0 KEIKI Re- Platform Status States: "Protech and CSEA finalized the UAT training curriculum". IV&V will add that the UAT script refinement is at 74% completion for further clarity.



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