JOSH GREEN, M.D. GOVERNOR KE KIA'ĂINA



KEITH A. REGAN COMPTROLLER KA LUNA HO'OMALU HANA LAULĀ

CHRISTINE M. SAKUDA CHIEF INFORMATION OFFICER LUNA 'ENEHANA

#### 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

May 8, 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

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

Attachments (2)

mirror\_mod.use\_y = True mirror\_mod.use\_z = False elif operation == "MIRROR\_Z": mirror\_mod.use\_x = False mirror\_mod.use\_y = False mirror\_mod.use\_z = True

#selection at the end -add ba mirror\_ob.select= 1 modifier\_ob.select=1 bpy.context.scene.objects.active print("Selected" + str(modifier\_or print("Selec

STATE OF HAWAII DEPARTMENT OF THE ATTORNEY GENERAL (AG) CHILD SUPPORT ENFORCEMENT AGENCY (CSEA)

KEIKI Replatform Off Mainframe (KROM) Project

ANT

MONTHLY IV&V REVIEW REPORT

March 31, 2025 | Version 0.1

An independent member of **bakertilly** INTERNATIONAL

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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 March 31, 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

"When you hand good people possibility, they do great things"

- Biz Stone



# PROJECT ASSESSMENT



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



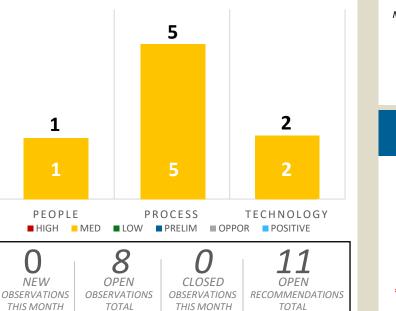
LOW

HIGH

MEDIUM

N/A

## IV&V OBSERVATIONS



## **PROJECT BUDGET\***





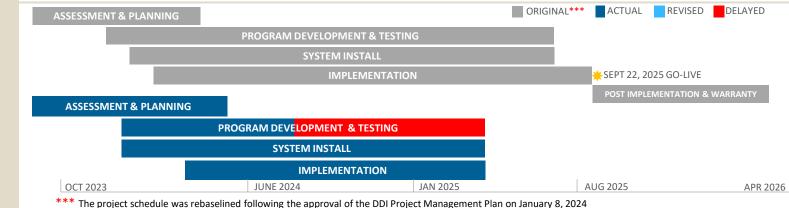
### KEY PROGRESS & RISKS

Key Progress: System Integration Testing reached 90% completion, with all Financial Test Deck scenarios executed and batch performance significantly improved.

- A Go-Live date of November 11, 2025, was proposed to provide a long weekend contingency for potential unanticipated cutover issues.
- Protech assumed DataHouse test and defect management responsibilities; CSEA increased their involvement and effort, advancing batch validation.
- System Integration Testing (SIT) will be extended through April 2025, and Protech will bear the full cost of the extension as communicated by Protech to CSEA.

Key Risks: The project schedule has not been formally accepted, creating uncertainty in milestone tracking and downstream planning.

- The transitional SOW between Protech (DDI) and DataHouse is pending completion of activities, delaying formal schedule alignment activities.
- 228 of 655 defects, or 35% of the defects, remain open, and Protech is currently reviewing them to confirm their validity post DataHouse's departure.



JAN	FEB	MAR	IV&V ASSESSMENT AREA	IV&V SUMMARY
	Y	Y	Overall	<b>Project Schedule:</b> The KEIKI project team announced a revised Go-Live date of November 11, 2025, reflecting a 34-day schedule variance driven by the extension of System Integration Testing and the target of executing cutover over a long weekend to reduce operational risk. This extension was communicated by Protech (DDI) and confirmed to be at no additional cost to the State. However, the project schedule has not yet been formally reviewed and agreed to by CSEA, pending the completion of the activities in the transition Statement of Work (SOW) between Datahouse and Protech (DDI). The new draft schedule is expected in late April. The project management team continues to use the revised date for internal milestone planning, including adjustments to UAT and training timelines, and the MS Project schedule was updated accordingly in late March.
				Project Costs: Contract invoices remain within the total contracted costs.
				<b>Quality:</b> The KEIKI project's overall quality status is reflecting steady progress in testing alongside continued challenges in defect resolution and data validation. As of March 28, a total of 655 defects were logged in Jira, with 228 still open, including 4 critical issues and over 100 unconfirmed defects. DDI assumed management of the defect tracking system in March and is actively triaging the backlog to confirm which issues represent valid test failures, which are duplicates, and which require reclassification. While performance tuning has led to some batch runtime improvements of up to 80%, 30 batch outputs presented to CSEA March 20th from the February 18 run are actively in process of CSEA validation as of the end of the month. Approximately 90% of System Integration Testing (SIT) was completed as of the end of March with 106 of 119 test scripts passing. The Financial Test Deck testing execution has finalized and is pending Protech's delivery to CSEA for review and approval.
				<b>Project Success:</b> In March, two specific code deliveries occurred: Version 1.0.0.21 was deployed prior to March 6, 2025, and testing was in progress at the start of the month. Version 1.0.0.22 was deployed by March 12, 2025, and actively tested thereafter. A subsequent delivery, version 1.0.0.23, was planned and delivered on March 20, 2025, as referenced in the March 26 report, with testing continuing in this latest version.
				These releases included performance tuning updates such as converting stored procedures from static to dynamic cache (delivered in the March 6 build), which contributed to significant reductions in batch runtime durations across test environments.
				The project remains in Yellow status reflecting continued progress, while recognizing areas that require focused attention, including batch validation in progress, data quality issues with 35% of the 655 defects remain open, and a revised Go-Live date pending formal review and agreement.

JAN

G

FEB	MAR	IV&V ASSESSMENT AREA	IV&V SUMMARY
G	6	People Team, Stakeholders, & Culture	<b>Team:</b> The successful execution of the transition SOW between DataHouse and Protech on March 31 formally completed the handoff of testing and technical responsibilities, ensuring no disruption in knowledge transfer or task ownership. DDI assumed full control of Jira management, initiating a structured review of open defects and aligning triage responsibilities across the development and QA teams. CSEA, DDI, and IV&V maintained consistent collaboration through weekly reporting, structured validation checkpoints, and a shared understanding of priority areas, contributing to project momentum and resource stability throughout the reporting period. CSEA is conducting frequent UAT planning meetings to identify all scenarios and sub scenarios to position total preparedness for UAT.
			<b>Stakeholders:</b> In March 2025, project stakeholders remained actively engaged and aligned on key priorities, contributing to sustained coordination across agencies and vendors. CSEA, as the primary stakeholder, continued to lead validation planning and quality assurance oversight, including coordination for batch output review and Financial Test Deck walkthroughs. DDI provided critical schedule and cost updates, communicating that the revised November 11, 2025 Go-Live date would incur no additional cost impact, and delivered formal notice of the Protech transition through the executed SOW between Protech and DataHouse. Weekly status meetings and March touchpoints confirmed that stakeholders were aligned on schedule expectations, risk ownership, and ongoing validation activities, reinforcing a stable engagement posture.
			Culture: The project culture in March 2025 reflected a maturing collaboration model grounded in transparency, shared accountability, and responsiveness to delivery risks. The execution of the transition SOW and assumption of key responsibilities by DDI signaled a formal shift in operational ownership, accompanied by clear communications to CSEA and IV&V. Teams demonstrated a commitment to cross-functional coordination, as evidenced by consistent engagement in test defect triage, schedule alignment, and data quality discussions. While areas such as backlog validation and RAID item closure remain open, the tone of project interactions during March supported a constructive, solutions-focused culture conducive to managing complexity and driving toward Go-Live readiness. 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.

JAN	FEB	MAR	IV&V ASSESSM AREA	ENT IV&V SUMMARY
3			Process Approach & Execution	As of March 2025, the KEIKI project's process status reflects steady progress in testing and cutover planning, while key areas such as data validation, interface readiness, and knowledge transfer still require refinement. Protech stabilized SIT execution post-transition, and CSEA advanced data alignment through agency meetings. Although the Financial Test Deck was executed and batch performance improved, output validation and data issues continue to affect test closure. The revised Go-Live date of November 11, 2025, is guiding planning, but an agreed on schedule is pending the completion of the Protech and Datahouse transitional period as defined in the SOW and targeted for April 18th.
				Process:
				<ul> <li>Testing Transition &amp; Execution Risks (Risk #112, Weekly Status Reports)</li> <li>Progress: In March, Protech fully assumed responsibility for test execution following the transition from DataHouse, supporting continuity in System Integration Testing (SIT), which reached 90% completion, and executing 100% of the Financial Test Deck (FTD) scenarios pending CSEA validation.</li> <li>Challenge: Although test coverage progressed, the transition contributed to delays in batch validation and interface-related defect resolution. CSEA was reviewing resolution options proposed by Protech, indicating that these delays were being actively addressed but had not yet been fully resolved in March.</li> <li>Refinement Needed: The deliverable Knowledge Transfer Plan-Draft v0.1 dated 2/7/2025 has not been completed as of 3/31/2025 however, a just in time training approach now adopted and planned for July. This will align the UAT training sessions to ensure full alignment on testing methodologies, defect triage, and execution strategies while setting schedule expectations with the test team.</li> </ul>
				<ul> <li>Approach:</li> <li>Data Extraction &amp; Validation Inefficiencies (Risk #89, Weekly Status Reports)</li> <li>Progress: CSEA has expanded coordination efforts, implementing half-day agency meetings to align data validation processes. Improving transparency on extract quality and aligning batch test dependencies.</li> <li>Challenge: SQL replication failures, formatting anomalies and record count discrepancies continued to disrupt validation.</li> <li>Refinement Needed: Continue focus on implementing automated validation scripts, formalizing error handling protocols, and refining the extract delivery cadence to ensure timely and consistent data inputs for validation.</li> </ul>
				<ul> <li>Execution:</li> <li>Go-Live Cutover Planning &amp; Readiness (Weekly Status Reports)</li> <li>Progress: In March, the project team confirmed a revised Go-Live target of November 11, 2025, strategically selected to leverage a long weekend for operational transition and risk mitigation. The MS Project schedule was updated to reflect this new planning timeline, and cutover sequencing efforts are underway.</li> <li>Challenge: While the revised date is being used for internal alignment, the project schedule has not yet been formally agreed to and remains dependent on the completion of Protech and Datahouse's transitionary SOW.</li> <li>Refinement Needed: The team should establish a formal cutover readiness framework, including mock deployment cycles, contingency risk tracking, and defined approval gates to ensure deployment preparedness and minimize business disruption.</li> </ul>
				The project process status remains Yellow trending up. This status change is due to improvements in stakeholder alignment, risk mitigation strategies, and structured execution improvements. Continued refinements in defect resolution, automation, and deployment planning will be necessary to fully stabilize project execution and transition toward a Green status.

JAN	FEB	MAR	IV&V ASSESSMI AREA	ENT IV&V SUMMARY
			Technology System, Data, & Security	This month, the KEIKI project made measurable improvements in system performance through targeted technology updates, including IBM's delivery of caching and stored procedure optimizations and Protech's re-execution of batch jobs using the updated February 18 dataset, which reduced runtimes by over 80% for high-duration jobs. Hardware upgrades to key database servers (SITOBFUDB01 and TESTKROMDB01) further enhanced batch processing efficiency by an estimated 40%. Testing stability also improved, with minimal UI issues reported, though batch job automation and interface file validation remained areas of active refinement.
				<ul> <li>System Performance and Stability (<i>Risk #35 - now closed</i>, Weekly Status Reports)</li> <li>Risk Context: Batch job execution times had previously been a performance bottleneck, impacting test cycle time and delaying output validations.</li> <li>Approach: In March, IBM delivered auto-caching and stored procedure optimizations, which Protech applied to the February 18 dataset; batch jobs were re-executed with runtime reductions of over 80% in some cases.</li> <li>Execution: Protech and CSEA continued real-time monitoring and tuning, supported by recent hardware upgrades to SITOBFUDB01 and TESTKROMDB01, which collectively improved batch processing speeds by an estimated 40% and reduced the number of long-duration jobs to four by the end of March.</li> </ul>
				<ul> <li>Data Extraction &amp; Validation (Risk #89, Weekly Status Reports)</li> <li>Risk: Persistent data quality issues, such as SQL replication failures, non-printable characters, and record count mismatches are delaying CSEA's validation of batch job outputs and extending the time required for test closure.</li> <li>Approach: In March, CSEA conducted recurring half-day working sessions to align agency expectations around data validation and engaged in active troubleshooting of extract formatting issues and QA handoffs.</li> <li>Execution: The project team initiated scoping for a report to identify fields with non-printable characters, and alternative extraction and validation strategies were discussed to address inefficiencies; however, Risk #89 remains open as of March 26, with validation of over 30 batch outputs from the February 18 cycle still in progress.</li> </ul>
				<ul> <li>Security &amp; Compliance (<i>Risk #64 - now closed</i>, Weekly Status Reports)</li> <li>Risk Context: PII compliance restrictions continue to affect a subset of defect resolution efforts when production-like data is required for root cause analysis. This issue is limited to specific development teams and does not impact all testers.</li> <li>Approach: The team has implemented data masking protocols and scoped out controlled testing environments to maintain security compliance while allowing defect analysis where feasible.</li> <li>Execution: In March, IV&amp;V and CSEA confirmed that secure extract delivery processes remained active, and no breaches or compliance violations were reported. Although not currently tracked as an open risk, data protection practices are integrated into validation workflows to ensure adherence to state and federal standards.</li> </ul>
				batch reconfiguration, and hardware upgrades. CSEA improved data validation coordination, and security practices supported compliant testing. However, incomplete batch output validation and ongoing data quality and PII-related testing constraints continue to require sustained attention in April.

## 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.

#### **Criticality Rating**

G

NA

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 **RED**, high criticality rating is assigned when significant severe deficiencies were observed, and immediate remediation or risk mitigation is required.

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.

#### TERMS

**RISK** An event that has not happened yet.

ISSUE

An event that is already occurring or has already happened.

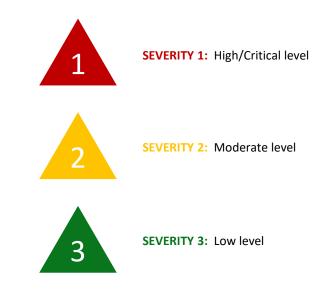


#### **Severity Rating**

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.



#### 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	DBSERVATION	TYPE	ORIGINAL		ORSERVATION	INDUSTRY STANDARDS AND BEST	AMA1406	DECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	
People	2024.12.001	Risk	Moderate	Moderate	or prioritization constraints. Weekly testing reports highlight slow progress due to insufficient resources (data processing) allocated to batch validation	domain. Aligning resource	Resource allocation challenges are hindering progress on critical tasks like complance testing and test script development, evidenced by OK completion rates and testing backlegs (e.g., only 16% of batch jobs validated). Addressing these issues through skilled resource deployment and upskilling initiatives will mitigate delay, accelerate milestone completion, and align with PMBOR* principles for optimized resource management.	[2024.12.00.113] Enhancement of resource allocation: the vendor team should consider assigning and aligning additional or more experienced resources to the delayed tasks and backlog testing areas such as financials and support UI validation.	Open	2022/00/31: X of March 2025, CSEA has confirmed that they have appropriate access to AWS since the Protech transition and overall testing access and coordination have improved, particularly through structured agency validation meetings ied by CSEA. The KEIN orgifect's bath transition was reported as 3PK complete, accounding to the most renet Critical Path shadle update. This releast camulative progress across multiple batch testing treations, including performance turing efforts and output validation cycles associated with the February 18 dataset. The remaining batch schwittes, including treations and most validation cycles associated with the February 18 dataset. The remaining batch schwittes, including treations and mining access and approved by CSEA and backing testing areas 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 levels for progression into the next phase. Resource shortages in financials and U validation are adving testing execution, requiring additiona skilled personnel to mete backing demands. DDI has withdrawn from the project as of February 120, 2025, causing the necessity for testing allication transition plan to Protech which is still in progress, V&W will continue to monitor progress. 2025/01/21: Progress continues in addresside. However, WAW will continue to monitor progress. 2025/01/21: Progress continues in addresside. However, while identified issue, with recent efforts focused on refining data validation processes and mproving coordination between stakeholders. However, challenges remain in full vesolving discrepancies, and additional verification tesps will be required to ensure consistency before final implementation.		
		Risk	Moderate	Moderate	potentially straining resources. Financial Test Deck (FTD) testing is blocked by unresolved defects, stalling progress on 92% of pending cases.	Management) defines prioritization as essential for maintaining project alignment with strategic objectives.	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 b SPM, will prevent cascading delays and enable progress in blocked testing areas.	(PTD and interface batch jobs, and deprioritize non-critical deliverables. Prioritizing critical deliverables ensures that delays do not propagate through the project timeline and unlocks progress for blocked testing activities.		2025/03/31: During March, Protech assumed full responsibility for test execution and defect management, including taking over administration of the Jra delet tracking system. This transition supports improved traceability between test case execution and defect resolution. While the ST dashbard continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script and actively to work on critical and high priority defects. VAV observed that intrage between failed pending tests and further morrowemous are executed as part of Protects's Jia backing responsibilities following DataHouse's withdrawal, with AVS and JiRA administration transitioning on Petruary 26. Earch (b) addition improved to 28%, but resource shortges continue to show progress in financial and UI validation, impacting critical compliance tasks. Testing delays and data extraction issues persist, requiring additional financial and UI validation, impacting critical compliance tasks. Testing delays and data extraction issues persist, requiring additional financial and UI validation for defect resolution to prevent further schedule slippage. The testing allocation and transition plan is currently underway with Protech. 2025/01/31: The status update for January regarding Observation 2024.12.003 enumentation, provers in addressing process reflicioncies, with a focus on optimizing workfows and reflip procedual downanetation. However, remaining gaps in execution and resource allocation necessitate continued oversight to ensure sustained improvements and full alignment with project objectives.	c	
		Risk	Moderate	Moderate	areas like enforcement batch validation at only 22% coverage. The risk log shows some APX - Date actraction delays highlight the need for improved progress tracking and reporting.	verification and validation Incetopoints for effective oversight.	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.ft)] Establish Progress Monitoring and Reporting: Implement as real-time dashabard to monitor test execution rates, defect closure, and coverage metrics. This provides actionable insights for targeting resources and resolving delays more efficiently.	Open	1025/07/31: Throughout March, risk and issue tracking improved through targeted updates in the V&V report and touchpoint confirmations; however, the RAD Dog content was not consistently cited in vesty stature prosts. While VSV alidate that excites statu of several key risks (e.g., Risk KB related to data validation and Risk 112 concerning test execution continuity), these risks were primarily referenced through summary narratives, not as direct tog tipen linkages. The nost recent RAD Bog submitted in March Ists several active risks not faily integrated into status reports; suggesting this observation should remain open until cross-referencing practices between RAD Dogs and weekly reporting are standardized. 2025/07/28: While testing reports did show improvement in February, N&V will continue to monitor the durity of the weekly testing reports cling the transition of testing responsibilities to Protech. In order to placemark test reporting progress and clarity, the practices between RAD Dogs and weekly reporting are standardized. 2025/07/28: While testing reports did show improvement in February, N&V will continue to monitor the durity of the weekly testing reports cling the transition of testing responsibilities to Protech. In order to placemark test reporting progress and clarity, the primariding Test Deck (FTD): 75% complete (18 counds) for stars of the societies of the socie		
	2024.12.006		Moderate	Moderate	0% progress.	and schedule flexibility in adaptive project environments.	Delays in one-critical tasks, such as regording subsystem batch jobs with 0% progress. highlight the need to realfocate resources to critical testing activities: By depositionities these areas and requesting extensions, as supported by PMBOK* v7, the project can focus on achieving timely completion of high-priority deliverables such as KMS Go Live.	Deprioritize non-critical testing areas and request extensions for their delivery to realized focus to critical testing. To ensure timely completion of high-priority deliverables such as KMS Go Live.	Open	1025/07/311 in March, the project team communicated and aligned on a revised Go-Live date of November 11, 2025, extending the overall timeline us accommodate contrulue validation activities, including batic outputs and reporting. While a formal activation reque specific to non-critical test items was not documented, the extended schedule and associated updates reflect a de facta approval for additional testing item. This schedule with has enabled continued work to hover-pointry validations, effectively meeting the recommendation's intent. This item may be considered for closure, contingent upon confirmation that remaining report testing is nucled in the updated cutover and ULA planning. Closure will also be contingent upon Protech completing the activities in the transition SDW for CSEA to review and provide approval in order to formalize the schedule. 2025/02/32: In february the testing teams have prioritized System Infegration Testing (ThD) execution, deliving non-sessiti batch jois to multigate schedul enks. A formal Artenison to defer lower priority deliverables like reporting subsystem batch jobs, ensuring resource alignment wth critical miliestones. IV&V will continue to monitor th uctorem of the discussors. 2025/07/31: Continued progress in refining data accuracy and resolving inconsistencies require further validation efforts and ongoing oversight to achieve full resolution.	2	
Process :	2024.12.007	Risk	Moderate	Moderate	Risks related to dependencies, resource availability, and tatakholder approvals are or explicitly migrated in the schedule. Weekly reports highlight an increasing trend in defects, with 480 defects logged as of December 18, 2024.	risk management as a critical	The increasing trend in logged defects (480 as of December 18, 2024) and unmitgated risks related to dependencies and resource availability emphasize critical pages in risk management. Enhancing the trisk mitigation plans are commende by ISO/EC 16085-2021, will address recurring issues in defect-prone areas like financials and interfaces, reducing the likelihood of further delays.	(2024.12.08.R1) Further enhance the risk mitigation pilot targeting defect- prore areas such as financials and enforcement systems, proactively reducing the likelihood of additional delays caused by recurring issues.	Open	1025/07/31: In March, risk awareness remained acre foots across VAV and stakeholder reporting, with specific emphasis on transition caliness, batch data quality, and cutorey planing risks. Active risks cuts a Risk #85 (data extraction) and Risk #121 (Betring transition) were tracked through status reports and VAV analysis, and the March RAD Dig reflected five open risks aligned with organ project concerns. Nowever, RAD Dig regretation into weekly reports was still partial, with risk its barc consistently cited in narrative update. As such, this observation should remain open, pending full and consistent mapping of RAD trisks into weekly reporting artifact 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 setraction delays, defect resolution issues, and resource constrains. Additional verification and vusation monitoring are needed to ensure risk intitiges are fully implemented before dosure. 2025/07/13: Its Mingstion efforts, including strengthened collaboration between teams to address system integration challenges and resolve key technical issues improved in January. However, some dependencies remain unresolved, necessitating additional testing and addition to fully mitigate potential risks before implementation.		

SSESSMENT OBSERVATION	OR	RIGINAL	CURRENT		INDUSTRY STANDARDS AND BEST						
REA ID TYPE rocess 2023.10.002 Risk	SEV	VERITY oderate	SEVERITY Moderate	OBSERVATION Project management responsibilities may impact effective project	PRACTICES PMBOK® v7 emphasizes	ANALYSIS Previous: The Protech Project Manager provided a draft project schedule: however, it was incomplete and listed due dates that were already	RECOMMENDATIONS CLOSED: 2023.10.002.R1 – Improve the project schedule to address	STATUS Reopened	STATUS UPDATE 2025/03/31: As of March, project reporting has improved in granularity, with weekly status reports consistently identifying active risks	CLOSED DATE Original Close:	CLOSURE REASON Original Closure Note: Closed as the
2023.10.002 Risk	McC	oderate	Moderate	Project management responsibilities may impact effective project execution. The review of prior findings confirms that several closed issues correlate with orgoing challenges in data validation, resource management, interface dependencies, and testing progress. To ensure project success and minimize cutover risks, reopening these findings and implementing corrective actions are advised. Dependencies such as task 593 for "KMS- Acceptance Test Scripts Development Complete" remain unfulfiled. Weekly reports identify issues in batch jobs), further delaying progress. Linear task sequencing contributes to delays where task could feasibly run in parallel (e.g., compliance and database migration). Financials have DK validation coverage in the refined UI, highlighting the backlog.	resource optimization as part of the "Resource Management" domain. Aligning resource capacity with demand ensures timely task completion. ISO/IEC 16085:2021 recommends proactive risk management to identify areas where concurrent task execution mitigates schedule risks.	Previous: The Protech Project Manager provided a draft project schedule, however, it was incomplete and listed due dates that were already insight or surveil diversales. The implementation of strong schedule and resource management practices easily will help the project start off right and starty on track. Protech's Project Manager is experienced with similar implementations and is working collaboratively with the project term 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 NPP and submitted proposal to reduce the misalignment of expectations, restanting longer deliverable review cycles. Reseback on preliminary deliverables does not appear to be adequately addressed. For example, the need for a resource loaded schedule was communicated wetbaly and in meetings repeatedly. <b>Current:</b> Unresolved dependencies, such as 593 and data file issues, are delaying progress on critical testing milestones like "KMS Acceptance like" Scripto Devidement Complete. "Addressing these delays through resource reallocation, collaboration with State partners, and adherence to IEEE 12:072-2017 standards will ensure smooth integration of IEEII system Interface and uninterupted downstream task progression. It baddress backings like the div wildsicion coverage in financials: Following (SO/REC 16:055-201), initiating concurrent workstreams across subspitems will improve testing throughput and reduce dependencies, expediting overall project progress.	schedule comments. Develop a deridel plan with assigned resources to complete project task. • Provide the appropriate detail of tasks, durations, due dates, milestones, and key work products for various parties. CSEA assigned tasks should also be clearly reflected in the project schedule. • Obtain agreement on the baseline schedule and then hold parties accountable for tasks and deadlines. EEOPENED: 2021.10.002.A2 - Determine the root causes of delays and develop plans to address them. • Perform a root cause analysis including defining the problem, 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 operfurnities, for panelleling	Reopened	2025/03/31: A of March, project reporting has improved in granularity, with weekly status reports consistently identifying active risks and testing-related blockers, and U4X tracking individual RND log Itens (e.g., Risk 888 and 112). Thowere, formal distinction between risks, issues, and decisions remains inconsistent across communications, particularly in status reports, where these Items are then combined into narrabie summarise without clear bieleding. White March RAD log Items (e.g. Risk 888 and 112). The week, formal distinction between risks, issues, and decisions remains inconsistent across communications, particularly in status reports, where these Items are denoted on narrabie summarise without clear bieleding. Protech must CAD log Item (in cluades structured entries for each category, this deservation should remain open until consistent, category-specific tagging is incorporated into all reporting streams. In our distribution of the transition SOV. Protech need to schedule a firm delivery date that is acceptable to SCBA with urgency, since the schedule cannot be formally aligned in its absence. 2025/02/28: Efforts to parallelize workstreams (2023.10.002.27:2) are being evaluated, but coordination between Protech and GSEA biel underway is facing larger priorities in for testing transition. While progress has been made in directing root causes and adjusting scheduling strategies, this recommendation is requiring a more structured approach to align testing priorities which may end up being addressed in the testing transition plan. IVAV will will continue to monitor that progress. 2024/01/31: Despite several meetings, there is still a need for a greater shared understanding of schedule concerns between Protech and GSEA. This relations to advect and advect and advect and advect and cSEA. This relations taks to advect advect project management transitions is needed to provent further delay and increase the quality of project execution. The approved project scheadule has som parcentinge completion, the pro	2024/05/31 Reopend: 2024/12/24	Original Gosure Note: Closed as the project managers are working more collaboratively to share and execute project responsibilities.
									2024/02/31: Used two recommendations as a new, separate uservation mun recommendations reased to schedule and resource management was poend. Refer to observation 702:30:20:20: Project manages should prioritize working closely together to asses upcoming activities, the impact of project delays, and determine if any changes are needed to the overall project timeline. 2024/02/29: The project schedule does not include all project tasks and is being updated to include more granular-level project activities. One recommendation was closed as Protech added additional project management resources.		
2024.06.001 Risk Risk	Mc	oderate	Moderate		IEEE 1012-2016	The data setaration process is critical for the cutover activities and current projections show potential for significant delays. This issue results from relator on thard mainframe resources, interfaced with the attraction programs, and ong downdady(updo times. Each time new data is needed for testing, the entire database must be extracted, which is time-consuming. CEA is evaluating as SQL replication strategy to replace the current process and this assigned two deviced resources to identify and et this Suproach. Daily meetings with DDI and CEA have been established to collaborate on this issue. The target for validating this approach is <i>July</i> 31st. The static data collected from the data extract process projects a worst-case scenario of 12 to 36 days to fully extract ADABAS data to the 374 flast flas, including downloading and uploading the flass that astrate due to 11/CSA uses a barder mainframe. Juliefficiencies of data extraction programs, 31 download/upload times. The data extract process is central to the outover activities completing over fri/Sat/Sun. If not improved, CEA may face 4/5 days operational downtime for cutover weekerd.	<ul> <li>1923.68.00.18.1 - Verification of Data Estraction and Conversion Processes - Standard(): IEE 1012-2016 formpasits: Verification sources that the system is built correctly according to its specification process for all data extraction and conversion methods, particularly the Ascil to BCP script conversion: Establish checkpoints where the file courts and conversion accuracy are verified before moving to subsequent phases of the project to avoid potential issues in later stage.</li> <li>2024.08.00.1.8.2 - Validation of Extracted Data Consistency</li> <li>Standard(s): EEE 1012-2016 fraphasis: Validation ensures that the system meets its intended use and astifles user needs. or Recommendation: Conduct end-to-end validation of the extracted data, respirate matching 2014-050, Goven the noted discrepancie, a validation espirate that the system meets its 2014-050, Goven the noted discrepancie, a validation is usable for further processing.</li> <li>2024.08.00.1.8.3. Risk Management for Binary and Ascil File Monting 4.5. Standard(s): EEE 1012-2016 frambasis: Nika management is integrated to the VV process to identify potential risks and implement mitigation strategies.</li> <li>2024.08.00.1.8.3. Risk Management for Binary and Ascil File Monting 4.5. Standard(s): EEE 1012-2016 formpasis: Risk management is integrated in the VV process to identify potential risks and implement mitigation strategies.</li> <li>a Recommendation: Assess the risk associated with the conversion and handling of binary and Ascil File Monting estimation and the used converters for 27 files were discussed, it is recommended to perform risk analysis on these conversions, ensuing that any potential data corruption or loss during conversions, ensuing that any potential data corruption of los during conversions, ensuing that any potential data corruption or loss during conversions, ensuing that any potential data corruption accuracy and Ascil files. Discossing additional testing additability electifies.</li> <li>a Re</li></ul>	Open	<ul> <li>2025/02/31: In March, the project team made notable progress toward addressing date eartrat quality issue, Including the lumch of the structure dhalf day (SCA gane), validation sessions, and the initiation of adelwards be ioderify non-initiable durated in nything of Beds. Although SQL replication billures and data formating mismatches remain contributors to delayed batch output validation. Risk editors and east open With key activities underway but full validation and line data for sets and output validations. The extra sets and a sets open With key activities underway but full validation and line data for sets and activate finites underway but full validation and line data on the periods. The advection strategies and implementing validation checkpoints, full validation and line in refining extra classing. SQL replication testing is required to ensure SQL replication testing is validated and operational before curver planning. SQL replication testing continues (2024 ABS 00.0.1 RJ), whth CSA and DDI holding daily coordination meetings, but validation coversion accurve, decks and space management adjut will result and DDI holding daily coordination meetings. Dut validation coversion accurve, decks and space management adjutements (2024 ABS 00.1 RJ), whth CSA and DDI holding daily coordination meetings. Dut validation coversion accurve, decks and space management adjutements (2024 ABS 00.1 RJ), which CSA and DDI holding daily coordination meetings. Dut validation coversion accurve, validation remains incomplete.</li> <li>2025/01/31: The latest status update for Janaray indicates continued collaboration between CSA and DDI holding daily sorgeng. With progress (2024 ABS 00.1 RJ), which SSA and SQL for Janarase (2024 ABS 00.1 RJ).</li> <li>2024/12/21: Claudation Call accuration and Conversion Processes: Verification processes have progress (2024 ABS 00.1 RJ).</li> <li>2024/12/21: Claudation Call accurates and adapted accurates arecallaborates or dailoboration processes: Verification processes</li></ul>	d	

ESSMENT OBSERVATION	ORIGINAL	CURRENT	INDUSTRY STANDARDS AND BEST			
SMENT COSERVATION DIFFERENCE	ORIGINAL SEVERITY	CURRENT	Destruction		Additional statistic submersional control of the production of the conversions, particularly for 27 critical files identified in earlier phases. Additional statistic submersional conversions, Proactive error tracking and resolution an reducing potential issues, with measures in place to validate file counts and integrity during each phase of testing.           (2024.08.001.A4) - Resource Management and Space Availability         Resource prioritization and conversion tasks. Consignence prioritization have minimized base is as all monopulational capacity for estruction and conversion tasks. Consignence prioritization and additional to monitariane unitilation have minimized base is assaid minimed places. Your ongoing testing and validation V&V will continue to monitor the above recommendations until there is consistent evidence of resolution.           2024.10/01 - 2024.08.001.R1 [Verification of Data Estruction and Conversion]: Open - In Progress: Verification steps are underway with one theologoint implemented. Critical issues of the adoption implemented is conversion to the 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 Acci [Ris fielding for confirm end-to-end consistency across systems.           2024.08.001.R3 [Risk Management for Binary and Acci [Ris fielding] form- in Progress: Some risk assessments have been completed but specific valuations for the binary and Acci [Risk fielding for converted files remain ruculat to ansure data accuracy in other key areas.           2024.08.001.R3 [Risk Management and Space Availability]: Open - Origoing Evaluation: Resource constraints, particularly related to mainframe and periods and allevite miniframe resource for smonthet setusing accompresource on the state accuracy in other key areas. <td></td>	
nology 2024.03.001 Risk	Moderate	Moderate	additional costs, delays, and disruption to the system.	CSEA's KEIR system currently relies on a legacy cyberfusion system running on the State's mainframe for system file and data exchanges with multiple State of Hawaii agencies. The timing of multiple agencies moving off the mainframe at different times will result in the need to modify KERI system inferences after the system has been deployed. Until other State modernization projects are completed, the KEIR project cannot perform server-based data exchanges and will need to continue to inferface via the mainframe. In addition, as the KEIR project involves integrating a modernized child support system with existing legacy systems, there may be other technological and runticetural ages that arise. These gaps can include differences in technology stacks, such as programming languages, database systems, and operating environments, as well as the absence of modern application programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the system systems with the addition of additional resources, and coordination efforts.	expectations. CERA's decision is due 'auring the 'first week of August. Because of CERA's concern that this issue is still unresolved, the potential impact on the schedule, the severity has been raised to high. 2025/03/31: In March, Protech began validating the 228 open defects within Jira, including over 100 unconfirmed issues, and took ownership of ensuring traceability between defect resolution and retesting outcomes. While ST metsting is well underway for most UI and batch-related defects, interface testing continues to experience delay, particularly due to Milduiles capturing test files prior to downstream system communiton. These challenges have limited retesting confirmation for interface related defects. Therefore, this observation relation control areas, including interface on the interface based defects, interface configuration control areas, including interface configurations. While progress has been made in interface planning and values of the control of the progress has been made in interface planning and values of the control of the contro	

MENT OBSERVATION	N	ORIGINAL	CURRENT		INDUSTRY STANDARDS AND BEST	,					
b	1775	SEVENIT	3407017	UNIXIVATION	PAGINS			314105	STATUS VEPART COSE DB	AIE	COSURE REASON
2024.12.002		Moderate		are critical to task progression. Weekly reports indicate challenges in joint traubleshooting sessions with IBM due to PII and file transfer protocol issues.	awareness and desire for	Engaging multiple stakeholders in concurrent projects (fisk #31) is critical to mitigating interface testing risks, but this requires synchronaed coordination to prevent delays, interface workshops and stakeholder meetings (fisk #35) play as yor lein fostering collaboration and ensuring timely resolution of interface-related issues, reducing the risk of misalignment in testing and implementation activities.	2024.12.02.R1) Facilitate regular communication with stakeholders like CS2A through along meetings to separative resolution of open sisses. This will improve turnaround time for defect resolution and test execution dependencies while strengthening stakeholder engagement.		2025/02/28: CSEA is holding half day meetings with the business teams that started in early relevance that all the test scripts are fully reviewed and edited in order to exaptite the resolution of open sisses. This activity also provides a mechanism for change management by fostering collaboration and a mutual understanding of expected functionality, reducing the risk of misalignment in 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 validation and testing workflows. Despite progress, key dependencies and unresolved technical issues continue to pose challenges, requiring further collaboration and refinement to achieve full resolution.		IV&V notes that this recommendatio has been taken into action and will cl accordingly.
s 2024.08.001	i Risk	Moderate	Low	Industry Standards and Beet Practices: IEEE 730-2014 standard recommends that stars reports include crainal key information be ensure effective communication of testing and quality assurance activities.		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, on does is 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	2024/10/31: 2024.08.001.81 (Testing Reports) The weekly testing reports now include pass/fall artes, coverage metrics, defect tracking, 2024/0/31 and miestone updates, providing a cetter understanding of testing progress and project health. This aligns with the recommendation for improved reporting metrics and stakeholder communication. 2024/0/93/30: 2024.08.001.81 (Testing Reports) Significant improvements have been made in the most recent reports and provide a clearer under standing for all stakeholders. IV&V will continue to monitor as these improvements to visibility progress.		There is now an aligned and improved tes reporting metrics with sakeholder communication that afford's efficiency an aging in the test and making informed decisions.
s 2024.06.002	2 Risk	Moderate		The project faces a significant risk of incurring extensive costs for delivering the necessary data to test the relatored KEIM application, potentially leading to delays in the project timeline and increased budget constaints. Despite discussions with Protech and AVS, the issue remains billing-related rather than technical, necessitating opoging negatizations with BT 51 to determine flanarcial responsibility. CSEA has developed a second option to as 3QL to SQL transfer in to relace 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 the be made at the end of July. With the new State CID starting on August 15, decision- making could be further delayed into the Fall.	4	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-related, not technical. The cost of delivering data for testing is critical for the KER project, but CSEA finds the current costs prohibitive. Discussions with Protech and AWS indicates the need to revolve the billing such arbor than the analysis of the cost of	2024.07.002.R1 – Continue negotiations with ETS to secure financial support for data delivery. Engage in discussions forfind a teachile cost structure that aligns with project budgets. Ensure clear communication of cost concerns and impacts to ETS. 2024.07.002.R2 – Explore alternative solutions with Protech and AWS./P Investigate potential cost-awing measures or alternative technical approache. B> Sec4.WS assistance to better understand and manage billing concerns. 2024.07.002.R3 – Improve performance of data extraction programs to minimize timing and associated costs. BW onk with Protech to lendify 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.		The SQL to SQL method for data extraction and transfer will be used. CSR has confirmed that the costs ha been addressed.
s 2024.03.002	2 Issue	Moderate	Moderate	inadequate schedule and resource management practices may lead to project delays, missed project activities, unrealistic schedule forecasts, or undentified causes for delays.		The overall project end date and Go-Live date is projecting a 17-day variance due to the delay in the assessment validation which was completed in february. It is crucial for the Protech and CSEA project managers to both take active roles in tracking and monotoring project activities, especially delayed and upcompletion gravity. To delay data and the project tak active roles in tracking and monotoring project activities, especially delayed and upcompletion takes, to collaboration on ways to grave the project tak to nack. Although the project metrics are showing a 17-day variance, some project tak are delayed 1 to 2 months from the approved baseline including building the KRIS database, developing system test scripts. Underigu, U development, code conversion, system test accident, etc. CSEA should have a clear understanding of the impact of delays on the overall timeline and validate the 17-day schedule variance.	refine the schedule regularly with detailed tasks, realistic durations, and adequate resources. • The project managers should meet weekly to discuss the project schedule, continue to identify detailed-level tasks based on high-level	I Closed	2024/06/30: Issue closed. The schedule was updated and the 17-day variance was successfully mitgated, ensuring the project remained on trad. The project schedule continues to be discussed weekly. V&V encourages the CSLR MI contact in depended reviews of the schedule and project metrics. IV&V will continue to monitor progress made on schedule and resource management practices. 2024/06/31: Protech delivered a draft of the replanned project schedule and analysis for CSEA's feedback and approval. The revised schedule maintains the original Go-twee date. 2024/04/30: Project managers started meeting regularly to review the project schedule. The project managers will do a deeper analysis of the upcoming technical tasks, and then recalibrate the project schedule in May.		The schedule was updated and the 1 day variance was successfully mitiga essuing the project remained on the the project schedule continues to be discussed weekly.
s 2024.02.001	L Prelimina Y	ar N/A	N/A	Additional Information is needed regarding Protect's program development and testing approach.		In February, Protech delivered the system Requirements Document and Test Plan which ner still under review. CSEA already provided a number o comments for both deliverables requesting additional darification or additional documentation. Both deliverables do not provide sufficient understanding of Protech and One Advanced's approach (if one program development and testing phase. There needs to be a clear mutual understanding of Nov Protech's development and testing paroach (if ensures that the new system and user interface used) mutual students and got of the Nov Protech's development and testing paroach (if ensures that the new system and user interface used) mutual students and got development and testing paroach (if ensures that the new system distribution of items stud as source code, data component, and interface tables to does not actually capture the requirements. The System Requirements Decimenting requirements is especially important for the development of the new font-and user interface (UI). The System Requirements Decimenting underliverable due in May 2024, however, it is unclear if Ul requirements will be included in the Herberg escience of the does not include softlenering U requirements. The System Requirements Deciment is used to manage development of UI as well as replatforming and refactoring of code work, then it is important to understand how Protech and One Advanced are planning to manage and report on development progress. Additionally, without documented as loss as a number of comments and questions on the Protech Test Pian deliverable. In addition to the System Test Pian deliverable to the sprint the system Test Pian System Test and System Acceptance Test Pian (UAT Pian) deliverable. In April 2024 which may help to provide additional clarification of the comprehensive testing strategy and deliverable on forts into combinities there protech and CBA. Developing and reflectable in addition to the system Test Pian State Stategy and deliverable on forts into cregonabilities between Protech and	•	Closed	2024/05/30. Preliminary cload:       CSEA acknowledged the risk associated with not hwing defined UI system requirements. Instead, the       2024/06/3         text crycts are used as the requirements. The teams collaborate closely and hold regular test meetings to ensure alignment and thorough testing.       2024/06/3         2024/05/31: Protech's testing approach presentation was pushed back to June. The presentation is critical as test scripts are finalized and system testing bagins in June.       2024/06/3         2024/05/31: Protech's testing approach presentation was pushed back to June. The presentation is critical as test scripts are finalized and system testing bagins in June.       2024/06/3         2024/05/31: Protech's testing approach in May. The presentation is important as test scripts are finalized, and system testing is approach mile some functionality as the odd system.       2024/06/3         2024/05/31: Protech big panning on a presentation in April or May to explain how their testing approach will ensure that the new system and user indirection will be managed and monitored.       11 is still unclear how program development progress, testing, and acceptance will be managed and monitored.		CSEA acknowledged the risk of not having defined U system requirement and addressed it by using test scripts the requirements. Additionally, itse testems collaborated closely and held regular test meetings to ensure alignment and thorough testing. This approach mitgates the risk by ensure that the testing process is approach ty identified and resolved ther comprehensive and that any issues a prompt identified and resolved ther collaboration.

SSESSMENT	OBSERVATION	TYDE	ORIGINAL	CURRENT	OBSEDIATION	INDUSTRY STANDARDS AND BEST		RECOMMENDATIONS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
rocess	2024.01.001	Risk	Moderate		Indifective project status meetings and reports can lead to delayed decision- making, lock of accountability, and reduced morale.		wheeky ratios reports are provided with a dashbord of the project ataux, bigh level checkulus, bute tasks, tasks, planned this week, goes tasks, 3D dash (so koh ande, dashwalba status, risks, goes and so have been as the second state points, the week and the project information. Despite numeros atta points, the week goes tasks, planned this week goes tasks, and the project stranses and the project information. Despite numeros atta points, the week goes tasks, and the project information. Despite numeros atta points, the maximum analysis of part property progress. To gat a better understanding of any delays, risks, suise, or action items, administent experiments and the project information. For example, late project deliverables may be listed as simply "in progress", however, one is unable to determine how many additional days the deliverable was pushed back without checking the previous weekly status report and the reason for additional time is not discussed or disclosed.	CLOSED: 2024.01.001.R1 – CSEA should play an active role in refining the 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	2024/06/20: His closed. As system testing started in June, the teem started adding a Weekly Test Report. The report outlines the testing coope, the defects that were resteted and validated, and gives a summary of the progress of all test cases.         IV&V will continue to assess the effectiveness of project status reports and meetings.         2024/06/21: Acculty docreased the severity rating from Level 2 (Moderate) to Level 3 (Lov). The CSLA 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.         2024/06/20: Acculty docreased the severity rating from Level 2 (Moderate) to Level 3 (Lov). The CSLA 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.         2024/06/20: Acculty docreased the severity rating from Level 2 (Moderate) to be refined and now clearly report tasks that have been rescheduled from the previous week's reporting period. CSRA din tot tart reporting on success metrics in April as planned.         2024/07/31: Although improvements were mate to project status reports, they could be further improved by cultining delayed tasks and upconing activities to sensure taskholders are adequately prepared. CSRA confine access. metrics to prepare for reporting which will begin next month.         2024/07/31: Although improvements were taskholders are adequately prepared. CSRA confine access. The tasken to adepend to the recommendations were closed. Two recommendations were closed as CSRA and Protech worked together to improve 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 reanningful	2024/06/30	Test reports serve added to the weekly status meetings. The report contains testing and defect metrics.
echnology	2023.12.001	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 KEIKI mainfame application in preparation for the migration and code conversion. Advanced's weekly status updates and follow-ups helped all stakeholders undertand their roles, repossibilities, 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.		NA	2024/01/31	Closed as this is a positive observation.
chnology	2023.11.001	Risk	Moderate	Moderate	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, unnet contract requirements, and quality issues.		Data system migration and mapping can be complex and cause project delays if not properly planned and managed. The KEIKI system's incomplet documentation and multitude of Jobs, workflows, interfaces, and interface files goes a risk of overlooking certain elements, making it challenging to track and walkate magniton requirements. The project backs a formalised process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalised process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalised process for protocode to built locks a class grocess for gathering no-code and analized hardware, software, interfaces, and batch files. The absence of a separate, formalised process and reliance on manaul processes using Excel worksheets may result in data loss, poor quality, and technical issues affecting system performance and user experience. The Si's watefinal approach requires upforing gathering and definition of all requirements in a linear sequence. Late identification of data system migration requirements may result in insufficient time or budget to execute the migration properly.	<ul> <li>plans and processes for non-code elements.</li> <li>A separate implementation plan should be clearly outlined, determining the timeline, tasks, tools, and resources needed to perform these activities.</li> </ul>	2024/01/31: Risk closed as the inventory of non-code and ancillary elements including hardware, software, interfaces, and batch files wis completed and will be validated as part of the technical architecture and system requirements documentation. 12/31/32: CSEA appointed two dedicated Data System Mayration lacks it is unclear if fronce along 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.		Risk closed as the inventory of non-cod and ancillary elements was completed.
pple	2023.10.001	Positive	N/A	N/A	Protech and CSEA is collaborative.	of Knowledge (PMBOK) Chapter 2.2 and PMI The	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 experience and knowledge 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							
S LITE	0 F MAA	ACCUITY							
ID #	Page #	Comment	Commenter's Organization	Accuity Resolution					
1	3	Correct Date to March	CSEA	IV&V agrees and has made the change.					
2	4,5,7, C- line 7, 9	Change the reference to the SOW to be between DataHouse and Protech (DDI)	CSEA	IV&V agrees and has made the change.					
3	4,5,7, C- line 7, 9	Change the word baseline to agreed schedule	CSEA	IV&V agrees and has made the change.					
4	7	Knowledge Transfer reference should state, "just in time training for July".	CSEA	IV&V agrees and has made the change.					
5									
6									
7									

# **ACCUITY**

#### FIRST HAWAIIAN CENTER Accuity LLP 999 Bishop Street Suite 2300 Honolulu, Hawaii 96813

P 808.531.3400F 808.531.3433www.accuityllp.com



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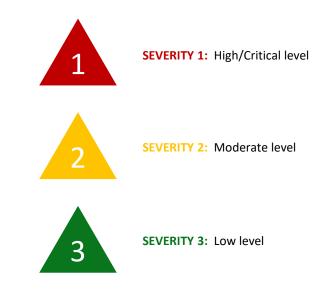
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#### **Severity Rating**

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.



#### 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



mirror\_mod.use\_y = True mirror\_mod.use\_z = False elif operation == "MIRROR\_Z": mirror\_mod.use\_x = False mirror\_mod.use\_y = False mirror\_mod.use\_z = True

#selection at the end -add ba mirror\_ob.select= 1 modifier\_ob.select=1 bpy.context.scene.objects.active print("Selected" + str(modifier\_o )

STATE OF HAWAII DEPARTMENT OF THE ATTORNEY GENERAL (AG) CHILD SUPPORT ENFORCEMENT AGENCY (CSEA)

KEIKI Replatform Off Mainframe (KROM) Project

ANT

MONTHLY IV&V REVIEW REPORT

March 31, 2025 | Version 0.1

An independent member of **bakertilly** INTERNATIONAL

ASSESSMENT	DBSERVATION	TYPE	ORIGINAL		ORSERVATION	INDUSTRY STANDARDS AND BEST	AMA1406	DECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	
People	2024.12.001	Risk	Moderate	Moderate	or prioritization constraints. Weekly testing reports highlight slow progress due to insufficient resources (data processing) allocated to batch validation	domain. Aligning resource	Resource allocation challenges are hindering progress on critical tasks like complance testing and test script development, evidenced by OK completion rates and testing backlegs (e.g., only 16% of batch jobs validated). Addressing these issues through skilled resource deployment and upskilling initiatives will mitigate delay, accelerate milestone completion, and align with PMBOR* principles for optimized resource management.	[2024.12.00.113] Enhancement of resource allocation: the vendor team should consider assigning and aligning additional or more experienced resources to the delayed tasks and backlog testing areas such as financials and support UI validation.	Open	2022/00/31: X of March 2025, CSEA has confirmed that they have appropriate access to AWS since the Protech transition and overall testing access and coordination have improved, particularly through structured agency validation meetings ied by CSEA. The KEIN orgifect's bath transition was reported as 3PK complete, accounding to the most renet Critical Path shadle update. This releast camulative progress across multiple batch testing treations, including performance turing efforts and output validation cycles associated with the February 18 dataset. The remaining batch activities, including treations and multiple batch testing the activities including treations and multiple batch testing account the through a transition and output validation activated including treations and multiple batch testing account with the activities, including treations and multiple batch testing open until the formal schedule alignment has been conducted and approved by CSEA and backing testing areas have been addressed. 2025/02/28: 38% of batch jobs have passed validation as of February 26, 2035, showing an improvement but still below required levels for progression into the next phase. Resource shortages in financials and U validation are solving testing execution, requiring additiona stilled personnel to mete backing demands. DDI has withdrawn from the project as of February 120, 25, causing the necessity for a testing allication transition plan to Protech which is still in progress, V&W will continue to monitor progress. 2025/01/31: Progress continues in addresside. However, while these there for stores do nrefining data validation processes and mproving coordination between stakeholders. However, Valiallenges remain in fully resolving discrepancies, and additional verification tesps will be required to ensure consistency before final implementation.		
		Risk	Moderate	Moderate	potentially straining resources. Financial Test Deck (FTD) testing is blocked by unresolved defects, stalling progress on 92% of pending cases.	Management) defines prioritization as essential for maintaining project alignment with strategic objectives.	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 b SPM, will prevent cascading delays and enable progress in blocked testing areas.	(PTD and interface batch jobs, and deprioritize non-critical deliverables. Prioritizing critical deliverables ensures that delays do not propagate through the project timeline and unlocks progress for blocked testing activities.		2025/03/31: During March, Protech assumed full responsibility for test execution and defect management, including taking over administration of the Jra delet tracking system. This transition supports improved traceability between test case execution and defect resolution. While the ST dashbard continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script-level execution (16) of 19 scripts passion), VAV is able continues to show script and actively to work on critical and high priority defects. VAV observed that intrage between failed pending tests and further morrowemous are executed as part of Protects's Jia backing responsibilities following DataHouse's withdrawal, with AVS and JiRA administration transitioning on Petruary 26. Earch (b) addition improved to 28%, but resource shortges continue to show progress in financial and UI validation, impacting critical compliance tasks. Testing delays and data extraction issues persist, requiring additional financial and UI validation, impacting critical compliance tasks. Testing delays and data extraction issues persist, requiring additional financial and UI validation for defect resolution to prevent further schedule slippage. The testing allocation and transition plan is currently underway with Protech. 2025/01/31: The status update for January regarding Observation 2024.12.003 enumentation, provers in addressing process resource allocation necessitate continued oversight to ensure sustained improvements and full alignment with project objectives.	c	
		Risk	Moderate	Moderate	areas like enforcement batch validation at only 22% coverage. The risk log shows some APX - Date actraction delays highlight the need for improved progress tracking and reporting.	verification and validation Incetopoints for effective oversight.	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.ft)] Establish Progress Monitoring and Reporting: Implement as real-time dashabard to monitor test execution rates, defect closure, and coverage metrics. This provides actionable insights for targeting resources and resolving delays more efficiently.	Open	1025/07/31: Throughout March, risk and issue tracking improved through targeted updates in the V&V report and touchpoint confirmations; however, the RAD Dog content was not consistently cited in vesty stature prosts. While VSV alidate that excites statu of several key risks (e.g., Risk KB related to data validation and Risk 112 concerning test execution continuity), these risks were primarily referenced through summary narratives, not as direct tog tipen linkages. The nost recent RAD Bog submitted in March Ists several active risks not faily integrated into status reports; suggesting this observation should remain open until cross-referencing practices between RAD Dogs and weekly reporting are standardized. 2025/07/28: While testing reports did show improvement in February, N&V will continue to monitor the durity of the weekly testing reports cling the transition of testing responsibilities to Protech. In order to placemark test reporting progress and clarity, the practices between RAD Dogs and weekly reporting are standardized. 2025/07/28: While testing reports did show improvement in February, N&V will continue to monitor the durity of the weekly testing reports cling the transition of testing responsibilities to Protech. In order to placemark test reporting progress and clarity, the primaring referencing. Test Status extends and Status (PO205, Financial Test Deck (FTD); TSS complete (18 corensities Rest of 12 alled cases awaiting defect resolution). N&W will continue to monitor test reporting darkity trough terusitions to Protect testing or excited. - Jedined U Testing; SPK complete (AB screens tested, 4 1 alied cases awaiting defect resolution). N&W will continue to monitor test reporting darkity trough the transitions of Protect testing or excited. - 2025/01/31: Ongoing challenges related to resource constraints and finalizing validation efforts require continued monitoring to ensure full implementation and long-term stability.		
	2024.12.006		Moderate	Moderate	0% progress.	and schedule flexibility in adaptive project environments.	Delays in one-critical tasks, such as regording subsystem batch jobs with 0% progress. highlight the need to realfocate resources to critical testing activities: By depositionities these areas and requesting extensions, as supported by PMBOK* v7, the project can focus on achieving timely completion of high-priority deliverables such as KMS Go Live.	Deprioritize non-critical testing areas and request extensions for their delivery to realized focus to critical testing. To ensure timely completion of high-priority deliverables such as KMS Go Live.	Open	1025/01/311 in March, the project team communicated and aligned on a revised Go-Live date of November 11, 2025, extending the overall timeline us accommodate continued validation activities, including batic outputs and reporting. While a formal activation reque specific to non-critical test items was not documented, the extended valued and associated updates reflect a de facta approval for additional testing item. This schedules with has enabled continued work to hover-pointry validations, effectively meeting the recommendation's intent. This item may be considered for closure, contingent upon confirmation that remaining report testing is nucled in the updated cutover and ULA planning. Closure will also be contingent upon Protech completing the activities in the transition SDW for CSEA to review and provide approval in order to formalize the schedule. 2025/02/32: In february the testing teams have prioritized System Infegration Testing (ThD) execution, deliving non-sessiti batch jois to multigate schedul enks. A formal Artenison to defer lover priority deliverables like reporting subsystem batch jobs, ensuring resource alignment wth critical miliestones. IV&V will continue to monitor th outcome of the discussors. 2025/01/31: Continued progress in refining data accuracy and resolving inconsistencies require further validation efforts and ongoing oversight to achieve full resolution.	2	
Process :	2024.12.007	Risk	Moderate	Moderate	Risks related to dependencies, resource availability, and tatakholder approvals are or explicitly migrated in the schedule. Weekly reports highlight an increasing trend in defects, with 480 defects logged as of December 18, 2024.	risk management as a critical	The increasing trend in logged defects (480 as of December 18, 2024) and unmitgated risks related to dependencies and resource availability emphasize critical pages in risk management. Enhancing the trisk mitgation plans are commende by ISO/EC 16085-2021, will address recurring issues in defect-prone areas like financials and interfaces, reducing the likelihood of further delays.	(2024.12.08.R1) Further enhance the risk mitigation pilon targeting defect- prone areas such as financials and enforcement systems, proactively reducing the likelihood of additional delays caused by recurring issues.	Open	1025/07/31: In March, risk awareness remained acre foots across VAV and stakeholder reporting, with specific emphasis on transition caliness, batch data quality, and cutorey planing risks. Active risks cuts a Risk #85 (data extraction) and Risk #121 (Betring transition) were tracked through status reports and VAV analysis, and the March RAD Dig reflected five open risks aligned with organ project concerns. Nowever, RAD Dig regretation into weekly reports was still partial, with risk its barc consistently cited in narrative update. As such, this observation should remain open, pending full and consistent mapping of RAD trisks into weekly reporting artifact 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 setraction delays, defect resolution issues, and resource constrains. Additional verification and vusation monitoring are needed to ensure risk intitiges are fully implemented before dosure. 2025/07/13: Its Mingstion efforts, including strengthened collaboration between teams to address system integration challenges and resolve key technical issues improved in January. However, some dependencies remain unresolved, necessitating additional testing and addition to fully mitigate potential risks before implementation.		

SSESSMENT OBSERVATION	OR	RIGINAL	CURRENT		INDUSTRY STANDARDS AND BEST						
REA ID TYPE rocess 2023.10.002 Risk	SEV	VERITY oderate	SEVERITY Moderate	OBSERVATION Project management responsibilities may impact effective project	PRACTICES PMBOK® v7 emphasizes	ANALYSIS Previous: The Protech Project Manager provided a draft project schedule: however, it was incomplete and listed due dates that were already	RECOMMENDATIONS CLOSED: 2023.10.002.R1 – Improve the project schedule to address	STATUS Reopened	STATUS UPDATE 2025/03/31: As of March, project reporting has improved in granularity, with weekly status reports consistently identifying active risks	CLOSED DATE Original Close:	CLOSURE REASON Original Closure Note: Closed as the
2023.10.002 Risk	McC	oderate	Moderate	Project management responsibilities may impact effective project execution. The review of prior findings confirms that several closed issues correlate with orgoing challenges in data validation, resource management, interface dependencies, and testing progress. To ensure project success and minimize cutover risks, reopening these findings and implementing corrective actions are advised. Dependencies such as task 593 for "KMS- Acceptance Test Scripts Development Complete" remain unfulfiled. Weekly reports identify issues in batch jobs), further delaying progress. Linear task sequencing contributes to delays where task could feasibly run in parallel (e.g., compliance and database migration). Financials have DK validation coverage in the refined UI, highlighting the backlog.	resource optimization as part of the "Resource Management" domain. Aligning resource capacity with demand ensures timely task completion. ISO/IEC 16085:2021 recommends proactive risk management to identify areas where concurrent task execution mitigates schedule risks.	Previous: The Protech Project Manager provided a draft project schedule, however, it was incomplete and listed due dates that were already insight or surveil diversales. The implementation of strong schedule and resource management practices easily will help the project start off right and starty on track. Protech's Project Manager is experienced with similar implementations and is working collaboratively with the project term 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 NPP and submitted proposal to reduce the misalignment of expectations, restanting longer deliverable review cycles. Reseback on preliminary deliverables does not appear to be adequately addressed. For example, the need for a resource loaded schedule was communicated wetbaly and in meetings repeatedly. <b>Current:</b> Unresolved dependencies, such as 593 and data file issues, are delaying progress on critical testing milestones like "KMS Acceptance like" Scripto Devidement Complete. "Addressing these delays through resource reallocation, collaboration with State partners, and adherence to IEEE 12:072-2017 standards will ensure smooth integration of IEEII system Interface and uninterupted downstream task progression. It baddress backings like the div wildsicion coverage in financials: Following (SO/REC 16:055-201), initiating concurrent workstreams across subspitems will improve testing throughput and reduce dependencies, expediting overall project progress.	schedule comments. Develop a deridel plan with assigned resources to complete project task. • Provide the appropriate detail of tasks, durations, due dates, milestones, and key work products for various parties. CSEA assigned tasks should also be clearly reflected in the project schedule. • Obtain agreement on the baseline schedule and then hold parties accountable for tasks and deadlines. EEOPENED: 2021.10.002.A2 - Determine the root causes of delays and develop plans to address them. • Perform a root cause analysis including defining the problem, 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 operfurnities, for panelleling	Reopened	2025/03/31: A of March, project reporting has improved in granularity, with weekly status reports consistently identifying active risks and testing-related blockers, and U4X tracking individual RND log Itens (e.g., Risk 888 and 112). Thowere, formal distinction between risks, issues, and decisions remains inconsistent across communications, particularly in status reports, where these Items are then combined into narrabie summarise without clear bieleding. White March RAD log Items (e.g. Risk 888 and 112). The week, formal distinction between risks, issues, and decisions remains inconsistent across communications, particularly in status reports, where these Items are denoted on narrabie summarise without clear bieleding. Protech must CAD log Item (in cluades structured entries for each category, this deservation should remain open until consistent, category-specific tagging is incorporated into all reporting streams. In our distribution of the transition SOV. Protech need to schedule a firm delivery date that is acceptable to SCBA with urgency, since the schedule cannot be formally aligned in its absence. 2025/02/28: Efforts to parallelize worktreams (2023.10.002.72.2) are being evaluated, but coordination between Protech and CSEA bieli underway is facing larger priorities in for testing transition. While progress has been made in directing or courses and adjusting scheduling strategies, this recommendation is requiring a more structured approach to align testing priorities which may end up being addressed in the testing transition plan. IVAV will will continue to monitor that progress. 2024/01/31: Despite several meetings, there is still a need for a greater shared understanding of schedule concerns between Protech and CSEA. This relative advicts to advict advict part project management transiones of project management approace project management approaces to than project management approaces to stare and clearly delivate and the state tasks to advictuarity pan project management approace project schedule has s	2024/05/31 Reopend: 2024/12/24	Original Gosure Note: Closed as the project managers are working more collaboratively to share and execute project responsibilities.
									2024/02/31: Used two recommendations as a new, separate uservation mun recommendations reased to schedule and resource management was poend. Refer to observation 702:30:20:20: Project manages should prioritize working closely together to asses upcoming activities, the impact of project delays, and determine if any changes are needed to the overall project timeline. 2024/02/29: The project schedule does not include all project tasks and is being updated to include more granular-level project activities. One recommendation was closed as Protech added additional project management resources.		
2024.06.001 Risk Risk	Mc	oderate	Moderate		IEEE 1012-2016	The data setaration process is critical for the cutover activities and current projections show potential for significant delays. This issue results from relator on thard mainframe resources, interfaced with the attraction programs, and ong downdady(updo times. Each time new data is needed for testing, the entire database must be extracted, which is time-consuming. CEA is evaluating as SQL replication strategy to replace the current process and this assigned two deviced resources to identify and et this sponach. Daily meetings with DDI and CEA have been established to collaborate on this issue. The target for validating this approach is <i>July</i> states. Julief Clenico Ed to 32 h flat this, iscluding downloading and uploading the files. This arise due to 11 CEA uses a barder mainframe. Julief Clenico Ed to 32 h flat this, iscluding downloading and uploading the files. This arise due to 11 CEA uses a barder mainframe. Julief Clenico Ed to 34 h flat this, iscluding downloading and uploading the files. This arise due to 11 CEA uses a barder mainframe. Julief Clenico Ed to 34 h flat this, iscluding downloading due to a constraine a barder mainframe. Julief Clenico Ed to 34 h flat this extract process is central to the cutover activities completing over <i>Fri/Sat/Sun</i> . If not improved, CEA may face 4/5 days operational downtime for cutover weekerd.	<ul> <li>1923.68.00.18.1 - Verification of Data Estraction and Conversion Processes - Standard(): IEE 1012-2016 formpasits: Verification sources that the system is built correctly according to its specification process for all data extraction and conversion methods, particularly the Ascil to BCP script conversion: Establish checkpoints where the file courts and conversion accuracy are verified before moving to subsequent phases of the project to avoid potential issues in later stage.</li> <li>2024.08.00.1.8.2 - Validation of Extracted Data Consistency</li> <li>Standard(s): EEE 1012-2016 fraphasis: Validation ensures that the system meets its intended use and astifles user needs. or Recommendation: Conduct end-to-end validation of the extracted data, respirate matching 2014-050, Goven the noted discrepancie, a validation espirate that the system meets its 2014-050, Goven the noted discrepancie, a validation is usable for further processing.</li> <li>2024.08.00.1.8.3. Risk Management for Binary and Ascil File Monting 4.5. Standard(s): EEE 1012-2016 frambasis: Nika management is integrated to the VV process to identify potential risks and implement mitigation strategies.</li> <li>2024.08.00.1.8.3. Risk Management for Binary and Ascil File Monting 4.5. Standard(s): EEE 1012-2016 formpasis: Risk management is integrated in the VV process to identify potential risks and implement mitigation strategies.</li> <li>a Recommendation: Assess the risk associated with the conversion and handling of binary and Ascil File Monting estimation and the used converters for 27 files were discussed, it is recommended to perform risk analysis on these conversions, ensuing that any potential data corruption or loss during conversions, ensuing that any potential data corruption of los during conversions, ensuing that any potential data corruption or loss during conversions, ensuing that any potential data corruption accuracy and Ascil files. Discossing additional testing additability electifies.</li> <li>a Re</li></ul>	Open	<ul> <li>2025/02/31: In March, the project team made notable progress toward addressing date eartrat quality issue, Including the lumch of the structure dhalf day (SCA gane), validation sessions, and the initiation of adelwards be ioderify non-initiable durated in nything of Beds. Although SQL replication billures and data formating mismatches remain contributors to delayed batch output validation. Risk editors and east open With key activities underway but full validation and line data for sets and output validations. The extra sets and a sets open With key activities underway but full validation and line data for sets and activate finites underway but full validation and line data on the periods. The advection strategies and implementing validation checkpoints, full validation and line in refining extra classing. SQL replication testing is required to ensure SQL replication testing is validated and operational before curver planning. SQL replication testing continues (2024 ABS 00.0.1 RJ), whth CSA and DDI holding daily coordination meetings, but validation coversion accurve, decks and space management adjut will result and DDI holding daily coordination meetings. Dut validation coversion accurve, decks and space management adjutements (2024 ABS 00.1 RJ), whth CSA and DDI holding daily coordination meetings. Dut validation coversion accurve, decks and space management adjutements (2024 ABS 00.1 RJ), which CSA and DDI holding daily coordination meetings. Dut validation coversion accurve, validation remains incomplete.</li> <li>2025/01/31: The latest status update for Janaray indicates continued collaboration between CSA and DDI holding daily sorgeng. With progress (2024 ABS 00.1 RJ), which SSA and SQL for Janarase (2024 ABS 00.1 RJ).</li> <li>2024/12/21: Claudation Call accuration and Conversion Processes: Verification processes have progress (2024 ABS 00.1 RJ).</li> <li>2024/12/21: Claudation Call accurates and adapted accurates arecallaborates or dailoboration processes: Verification processes</li></ul>	d	

ESSMENT OBSERVATION	ORIGINAL	CURRENT	INDUSTRY STANDARDS AND BEST			
SMENT COSERVATION DIFFERENCE	ORIGINAL SEVERITY	CURRENT	Destruction		Additional statistic submersional control of the production of the conversions, particularly for 27 critical files identified in earlier phases. Additional statistic submersional conversions, Proactive error tracking and resolution an reducing potential issues, with measures in place to validate file counts and integrity during each phase of testing.           (2024.08.001.A4) - Resource Management and Space Availability         Resource prioritization and conversion tasks. Consignence prioritization have minimized base is as all monopulational capacity for estruction and conversion tasks. Consignence prioritization and additional to monitariane unitilation have minimized base is assaid minimed places. Your ongoing testing and validation V&V will continue to monitor the above recommendations until there is consistent evidence of resolution.           2024.10/01 - 2024.08.001.R1 [Verification of Data Estruction and Conversion]: Open - In Progress: Verification steps are underway with one theologoint implemented. Critical issues of the adoption implemented is conversion to the 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 Acci [Ris fielding for confirm end-to-end consistency across systems.           2024.08.001.R3 [Risk Management for Binary and Acci [Ris fielding] form- in Progress: Some risk assessments have been completed but specific valuations for the binary and Acci [Risk fielding for converted files remain ruculat to ansure data accuracy in other key areas.           2024.08.001.R3 [Risk Management and Space Availability]: Open - Origoing Evaluation: Resource constraints, particularly related to mainframe and periods and allevite miniframe resource for smonthet setusing accompresource on the state accuracy in other key areas. <td></td>	
nology 2024.03.001 Risk	Moderate	Moderate	additional costs, delays, and disruption to the system.	CSEA's KEIR system currently relies on a legacy cyberfusion system running on the State's mainframe for system file and data exchanges with multiple State of Hawaii agencies. The timing of multiple agencies moving off the mainframe at different times will result in the need to modify KERI system inferences after the system has been deployed. Until other State modernization projects are completed, the KEIR project cannot perform server-based data exchanges and will need to continue to inferface via the mainframe. In addition, as the KEIR project involves integrating a modernized child support system with existing legacy systems, there may be other technological and runticetural ages that arise. These gaps can include differences in technology stacks, such as programming languages, database systems, and operating environments, as well as the absence of modern application programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the legacy systems. Based on the iming of concurrent State of Hawaii modernization programming interfaces (APIS) in the system systems of the system interface (APIS) in the system many necessitate the undertaking of supplementary tesks, allocation of additional resources, and coordination efforts.	expectations. CERA's decision is due 'auring the 'first week of August. Because of CERA's concern that this issue is still unresolved, the potential impact on the schedule, the severity has been raised to high. 2025/03/31: In March, Protech began validating the 228 open defects within Jira, including over 100 unconfirmed issues, and took ownership of ensuring traceability between defect resolution and retesting outcomes. While ST metsting is well underway for most UI and batch-related defects, interface testing continues to experience delay, particularly due to Milduiles capturing test files prior to downstream system communiton. These challenges have limited retesting confirmation for interface related defects. Therefore, this observation relation control areas, including interface on the interface based defects, interface configuration control areas, including interface configurations. While progress has been made in interface planning and values of the control of the progress has been made in interface planning and values of the control of the contro	

MENT OBSERVATION	N	ORIGINAL	CURRENT		INDUSTRY STANDARDS AND BEST	,					
b	1775	SEVENIT	3407017	UNIXIVATION	PAGINS			314105	STATUS VEPART COSE DB	AIE	COSURE REASON
2024.12.002		Moderate		are critical to task progression. Weekly reports indicate challenges in joint traubleshooting sessions with IBM due to PII and file transfer protocol issues.	awareness and desire for	Engaging multiple stakeholders in concurrent projects (fisk #31) is critical to mitigating interface testing risks, but this requires synchronaed coordination to prevent delays, interface workshops and stakeholder meetings (fisk #35) play as yor lein fostering collaboration and ensuring timely resolution of interface-related issues, reducing the risk of misalignment in testing and implementation activities.	2024.12.02.R1) Facilitate regular communication with stakeholders like CS2A through along meetings to separative resolution of open sisses. This will improve turnaround time for defect resolution and test execution dependencies while strengthening stakeholder engagement.		2025/02/28: CSEA is holding half day meetings with the business teams that started in early relevance that all the test scripts are fully reviewed and edited in order to exaptite the resolution of open sisses. This activity also provides a mechanism for change management by fostering collaboration and a mutual understanding of expected functionality, reducing the risk of misalignment in 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 validation and testing workflows. Despite progress, key dependencies and unresolved technical issues continue to pose challenges, requiring further collaboration and refinement to achieve full resolution.		IV&V notes that this recommendatio has been taken into action and will cl accordingly.
s 2024.08.001	i Risk	Moderate	Low	Industry Standards and Beet Practices: IEEE 730-2014 standard recommends that Status reports include crainal key information be ensure effective communication of testing and quality assurance activities.		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, on does is 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	2024/10/31: 2024.08.001.81 (Testing Reports) The weekly testing reports now include pass/fall artes, coverage metrics, defect tracking, 2024/0/31 and miestone updates, providing a cetter understanding of testing progress and project health. This aligns with the recommendation for improved reporting metrics and stakeholder communication. 2024/0/93/30: 2024.08.001.81 (Testing Reports) Significant improvements have been made in the most recent reports and provide a clearer under standing for all stakeholders. IV&V will continue to monitor as these improvements to visibility progress.		There is now an aligned and improved tes reporting metrics with sakeholder communication that afford's efficiency an aging in the test and making informed decisions.
s 2024.06.002	2 Risk	Moderate		The project faces a significant risk of incurring extensive costs for delivering the necessary data to test the relatored KEIM application, potentially leading to delays in the project timeline and increased budget constaints. Despite discussions with Protech and AVS, the issue remains billing-related rather than technical, necessitating opoging negatizations with BT 51 to determine flanarcial responsibility. CSEA has developed a second option to as 3QL to SQL transfer in to relace 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 the be made at the end of July. With the new State CID starting on August 15, decision- making could be further delayed into the Fall.	4	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-related, not technical. The cost of delivering data for testing is critical for the KER project, but CSEA finds the current costs prohibitive. Discussions with Protech and AWS indicates the need to revolve the billing such arbor than the analysis of the cost of	2024.07.002.R1 – Continue negotiations with ETS to secure financial support for data delivery. Engage in discussions forfind a teachile cost structure that aligns with project budgets. Ensure clear communication of cost concerns and impacts to ETS. 2024.07.002.R2 – Explore alternative solutions with Protech and AWS./P Investigate potential cost-awing measures or alternative technical approache. <sup>IDS</sup> each AVS assistance to better understand and manage billing concerns. 2024.07.002.R3 – Improve performance of data extraction programs to minimize timing and associated costs. <sup>ID</sup> Work with Protech to lendify 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.		The SQL to SQL method for data extraction and transfer will be used. CSR has confirmed that the costs ha been addressed.
s 2024.03.002	2 Issue	Moderate	Moderate	inadequate schedule and resource management practices may lead to project delays, missed project activities, unrealistic schedule forecasts, or undentified causes for delays.		The overall project end date and Go-Live date is projecting a 17-day variance due to the delay in the assessment validation which was completed in february. It is crucial for the Protech and CSEA project managers to both take active roles in tracking and monotring project activities, especially delayed and upcompletion gravity. To delay and the project tak are delayed and upcompletion of the approved baseline including Although the project metrics are showing a 17-day variance, some project tak are delayed 1 to 2 months from the approved baseline including building the KRIS delayabase, developing system test scripts. Undergin, Undevelopment, code conversion, system test accurdon, etc. CSEA should have a clear understanding of the impact of delays on the overall timeline and validate the 17-day schedule variance.	refine the schedule regularly with detailed tasks, realistic durations, and adequate resources. • The project managers should meet weekly to discuss the project schedule, continue to identify detailed-level tasks based on high-level	I Closed	2024/06/30: Issue closed. The schedule was updated and the 17-day variance was successfully mitgated, ensuring the project remained on trad. The project schedule continues to be discussed weekly. V&V encourages the CSLR MI contact in depended reviews of the schedule and project metrics. IV&V will continue to monitor progress made on schedule and resource management practices. 2024/06/31: Protech delivered a draft of the replanned project schedule and analysis for CSEA's feedback and approval. The revised schedule maintains the original Go-twee date. 2024/04/30: Project managers started meeting regularly to review the project schedule. The project managers will do a deeper analysis of the upcoming technical tasks, and then recalibrate the project schedule in May.		The schedule was updated and the 1 day variance was successfully mitiga essuing the project remained on the the project schedule continues to be discussed weekly.
s 2024.02.001	L Prelimina Y	ar N/A	N/A	Additional Information is needed regarding Protect's program development and testing approach.		In February, Protech delivered the system Requirements Document and Test Plan which ner still under review. CSEA already provided a number o comments for both deliverables requesting additional darification or additional documentation. Both deliverables do not provide sufficient understanding of Protech and One Advanced's approach (if one program development and testing phase. There needs to be a clear mutual understanding of Nov Protech's development and testing paroach (if ensures that the new system and user interface used) mutual students and got of the Nov Protech's development and testing paroach (if ensures that the new system and user interface used) mutual students and got development and testing paroach (if ensures that the new system distribution of items stud as source code, data component, and interface tables to does not actually capture the requirements. The System Requirements Decimenting requirements is especially important for the development of the new font-and user interface (UI). The System Requirements Decimenting underliverable due in May 2024, however, it is unclear if Ul requirements will be included in the Herberg escience of the does not include softlenering U requirements. The System Requirements Deciment is used to manage development of UI as well as replatforming and refactoring of code work, then it is important to understand how Protech and One Advanced are planning to manage and report on development progress. Additionally, without documented as loss as a number of comments and questions on the Protech Test Pian deliverable. In addition to the System Test Pian deliverable to the sprint the system Test Pian System Test and System Acceptance Test Pian (UAT Pian) deliverable. In April 2024 which may help to provide additional clarification of the comprehensive testing strategy and deliverable on forts into combinities there protech and CBA. Protech had clarification of the sprint Protech had clarification of the sprint Protech had CBA. CSEA plans to work with Protech to clarify and	•	Closed	2024/05/30. Preliminary cload:       CSEA acknowledged the risk associated with not hwing defined UI system requirements. Instead, the       2024/06/3         text crycts are used as the requirements. The teams collaborate closely and hold regular test meetings to ensure alignment and thorough testing.       2024/06/3         2024/05/31: Protech's testing approach presentation was pushed back to June. The presentation is critical as test scripts are finalized and system testing bagins in June.       2024/06/3         2024/05/31: Protech's testing approach presentation was pushed back to June. The presentation is critical as test scripts are finalized and system testing bagins in June.       2024/06/3         2024/05/31: Protech's testing approach in May. The presentation is important as test scripts are finalized, and system testing is approach mile some functionality as the odd system.       2024/06/3         2024/05/31: Protech big panning on a presentation in April or May to explain how their testing approach will ensure that the new system and user indirection will be managed and monitored.       11 is still unclear how program development progress, testing, and acceptance will be managed and monitored.		CSEA acknowledged the risk of not having defined U system requirement and addressed it by using test scripts the requirements. Additionally, itse testems collaborated closely and held regular test meetings to ensure alignment and thorough testing. This approach mitgates the risk by ensure that the testing process is approach ty identified and resolved ther comprehensive and that any issues a prompt identified and resolved ther collaboration.

SSESSMENT	OBSERVATION	TYDE	ORIGINAL	CURRENT	OBSEDIATION	INDUSTRY STANDARDS AND BEST		RECOMMENDATIONS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
rocess	2024.01.001	Risk	Moderate		Indifective project status meetings and reports can lead to delayed decision- making, lock of accountability, and reduced morale.		wheeky ratios reports are provided with a dashbord of the project ataux, bigh level checkulus, bute tasks, tasks, planned this week, goes tasks, 3D dash (so koh ande, dashwalba status, risks, goes and so have been as the second state points, the week and the project information. Despite numeros atta points, the week goes tasks, planned this week goes tasks, and the project stranses and the project information. Despite numeros atta points, the week goes tasks, and the project information. Despite numeros atta points, the maximum analysis of part property progress. To gat a better understanding of any delays, risks, suise, or action items, administent experiments and the project information. For example, late project deliverables may be listed as simply "in progress", however, one is unable to determine how many additional days the deliverable was pushed back without checking the previous weekly status report and the reason for additional time is not discussed or disclosed.	CLOSED: 2024.01.001.R1 – CSEA should play an active role in refining the 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	2024/06/20: His closed. As system testing started in June, the teem started adding a Weekly Test Report. The report outlines the testing coope, the defects that were resteted and validated, and gives a summary of the progress of all test cases.         IV&V will continue to assess the effectiveness of project status reports and meetings.         2024/06/21: Acculty docreased the severity rating from Level 2 (Moderate) to Level 3 (Lov). The CSLA 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.         2024/06/20: Acculty docreased the severity rating from Level 2 (Moderate) to Level 3 (Lov). The CSLA 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.         2024/06/20: Acculty docreased the severity rating from Level 2 (Moderate) to be refined and now clearly report tasks that have been rescheduled from the previous week's reporting period. CSRA din tot tart reporting on success metrics in April as planned.         2024/07/31: Although improvements were adequately prepared. CSRA continued to refine success metrics to prepare for reporting which will begin next month.         2024/07/31: Mew recommendations was added and two recommendations were closed. Two recommendations were closed as CSRA and Protech worked together to improve project status reports to be more clear, meaningful, and relevant to the audience. The streamlined status reports are facilitating greater understatud and allowing more time for meaningful discussion amongst project taskeholders.	2024/06/30	Test reports serve added to the weekly status meetings. The report contains testing and defect metrics.
echnology	2023.12.001	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 KEIKI mainfame application in preparation for the migration and code conversion. Advanced's weekly status updates and follow-ups helped all stakeholders undertand their roles, repossibilities, 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.		NA	2024/01/31	Closed as this is a positive observation.
chnology	2023.11.001	Risk	Moderate	Moderate	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, unnet contract requirements, and quality issues.		Data system migration and mapping can be complex and cause project delays if not properly planned and managed. The KEIKI system's incomplet documentation and multitude of Jobs, workflows, interfaces, and interface files goes a risk of overlooking certain elements, making it challenging to track and walkate magniton requirements. The project backs a formalised process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalised process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalised process for protocode to built locks a class grocess for gathering no-code and analized hardware, software, interfaces, and batch files. The absence of a separate, formalised process and reliance on manaul processes using Excel worksheets may result in data loss, poor quality, and technical issues affecting system performance and user experience. The Si's watefinal approach requires upforing gathering and definition of all requirements in a linear sequence. Late identification of data system migration requirements may result in insufficient time or budget to execute the migration properly.	<ul> <li>plans and processes for non-code elements.</li> <li>A separate implementation plan should be clearly outlined, determining the timeline, tasks, tools, and resources needed to perform these activities.</li> </ul>	2024/01/31: Risk closed as the inventory of non-code and ancillary elements including hardware, software, interfaces, and batch files wis completed and will be validated as part of the technical architecture and system requirements documentation. 12/31/32: CSEA appointed two dedicated Data System Mayration lacks it is unclear if fronce along 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.		Risk closed as the inventory of non-cod and ancillary elements was completed.
pple	2023.10.001	Positive	N/A	N/A	Protech and CSEA is collaborative.	of Knowledge (PMBOK) Chapter 2.2 and PMI The	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 experience and knowledge 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

<b>KROM Project:</b>	<b>IV&amp;V</b> Document	Comment Log
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ID #	Page #	Comment	Commenter's Organization	Accuity Resolution
1	3	Correct Date to March	CSEA	IV&V agrees and has made the change.
2	4,5,7, C- line 7, 9	Change the reference to the SOW to be between DataHouse and Protech (DDI)	CSEA	IV&V agrees and has made the change.
3	4,5,7, C- line 7, 9	Change the word baseline to agreed schedule	CSEA	IV&V agrees and has made the change.
4	7	Knowledge Transfer reference should state, "just in time training for July".	CSEA	IV&V agrees and has made the change.
5				
6				
7				

# **ACCUITY**

#### FIRST HAWAIIAN CENTER Accuity LLP 999 Bishop Street Suite 2300 Honolulu, Hawaii 96813

P 808.531.3400F 808.531.3433www.accuityllp.com



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