

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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May 31, 2024

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

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

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

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

Sincerely,

Tom The

Tom Ku

Acting Chief Information Officer

State of Hawai'i

Attachment



MONTHLY IV&V REVIEW REPORT

April 30, 2024 | Version 1.0



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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
05/10/24	Monthly IV&V Review Report Draft created.	Julia Okinaka	0.0
05/23/24	Monthly IV&V Review Report finalized with no changes. No comments submitted in Appendix D.	Julia Okinaka	1.0



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. 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 September 2024 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 focus of our IV&V activities for this report included the completion of a two-month assessment of People and the beginning of a two-month assessment of Technology.

The IV&V Dashboard and IV&V Summary provide a quick visual and narrative snapshot of both the project status and project assessment as of April 30, 2024. 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.

"The future
TEAMWORK
__depends on what We__
"Olo onet han whistle
a SYMBHONY.
It takes an
ORGHESTRAITO
PLAY IT."
TESTING
- H.E. Luccock



PROJECT ASSESSMENT

APRIL 2024

SUMMARY RATINGS

OVERALL RATING



Deficiencies were observed that merit attention and remediation in a timely manner.

PEOPLE



PROCESS



TECHNOLOGY



CRITICALITY RATINGS

R



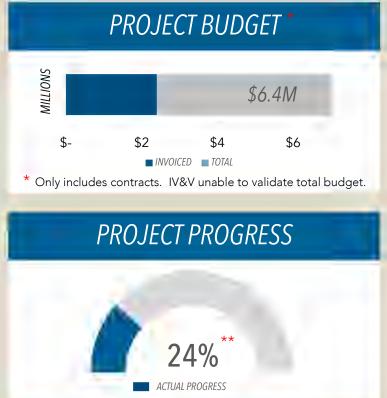




NA *N/*A

IV&V OBSERVATIONS





KEY PROGRESS & RISKS

- The KEIKI system data was extracted and loaded into the SQL database marking a milestone in the project. Upon CSEA approval, the application can be installed and pre-delivery testing can commence.
- Protech will present their testing approach in May to explain how the project's testing will ensure the new system and user interface maintain the same functionality as the old system.
- 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.



^{**} IV&V unable to validate the progress percentage of the schedule as it does not include all project activities.

APRIL 2024 · KROM PROJECT

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
		R	Overall	The KEIKI system data was extracted and loaded into the SQL database marking a milestone in the project. Protech is working with CSEA to approve the obfuscated data so it can be delivered to Advanced for pre-delivery testing. After successful pre-delivery testing, system testing begins based on the approved system test plan. Project Schedule: The overall project end date and Go-Live date continues to show a 17-day variance which is within CSEA's acceptable threshold (2024.03.002). The CSEA project manager still needs to independently validate the variance and critical path (2023.10.002). Project Costs: Contract invoices received to-date are within total contract costs. The CSEA Project Manager should establish a process to review payment schedules for changes in deliverable timelines (2023.10.002 and 2024.03.002). Quality: The project is consistently reporting on various schedule metrics. The project should start reporting on the other agreed-upon quality metrics related to testing, issue, risk, and requirements (2024.01.001). Project Success: CSEA did not start reporting on success metrics in April as planned. Not clearly communicating and reporting on project success metrics may reduce the benefits realization at project completion (2023.10.002 and 2024.01.001).
8	R	8	People Team, Stakeholders, & Culture	 The Monthly Steering Committee (ESC) convenes monthly. It would be beneficial for CSEA to take a more active role in communicating their perspective on project progress to stakeholders (2023.10.002 and 2024.03.002). The project team continues to be actively engaged and involved in project activities and tasks. As key project activities get drawn out or rescheduled, CSEA should assess the impact of project delays on project resources and future tasks (2024.03.002). CSEA recently coordinated a meeting with external Departments and will work with Protech to identify external project stakeholders and communication activities starting in June 2024.

APRIL 2024 · KROM PROJECT

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V SUMMARY
•	Y	R	Process Approach & Execution	 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 (2023.10.002 and 2024.03.002). CSEA should be conducting independent reviews of the schedule, ensure key state milestones are included in the overall project timeline, and proactively oversee the project schedule to prevent further delays (2023.10.002 and 2024.03.002). Project status reports continue to be refined and now clearly report tasks that have been rescheduled from the previous week's reporting period (2024.01.001 and 2024.03.002). The project continues to make progress on deliverables. The System Architecture and System Test Plans are approved. The Code and Data Conversion Plan and Acceptance Test Plan were resubmitted for CSEA approval after comments submitted to Protech were addressed. Protech will present their testing approach in May to explain how the project's testing will ensure the new system and user interface maintain the same functionality as the old system (2024.02.001). The presentation is important as test scripts are finalized and system testing is approaching. The project is consistently reporting on various schedule metrics. The project should start reporting on the other agreed-upon project success and quality metrics (2023.10.002 and 2024.01.001).
	G C	₹ Parameter Par	Technology System, Data, & Security	 The initial code conversion of the KEIKI application was completed. The project executed the masking program to create obfuscated test data. CSEA must review and approve the obfuscated data before it can be delivered to Advanced for pre-delivery testing. After successful pre-delivery testing, system testing begins based on the approved system test plan. System test scripts for pre-delivery testing and the UI test scripts are almost completed. The user interface refinement requirements and plan are delayed due to difficulties encountered while launching the application in the absence of data. To overcome these data-related challenges, the project team has determined that loading obfuscated data into the application is necessary. The KEIKI AWS test environment was built. A plan to validate and confirm the security of the environments is still needed. Regular, recurring technical meetings will begin in May to discuss upcoming technical activities. CSEA organized a meeting with other Departments in April to exchange information regarding the status of their respective system modernization efforts, specifically those related to the shared mainframe and dependencies (2024.03.001).

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

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.

R R R R

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

ISSUE

An event that has not

happened yet.

An event that is

has already

happened.

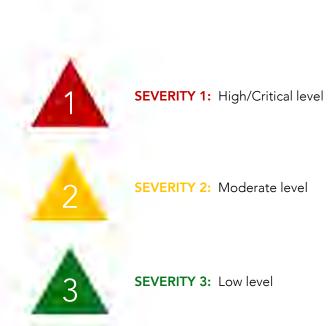
already occurring or

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



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



Appendix C: Prior Findings Log

						N .					
ASSESSMENT	OBSERVATION		ORIGINAL	CURRENT							
REA		TYPE			ORSERVATION	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
A hnology		TYPE	SEVERITY Moderate		OBSERVATION The timing of other State of Hawaii modernization projects impacts the ability to properly design KEIKI system interfaces and will necessitate the need for interface modifications after its deployment, which can lead to additional costs, delays, and disruption to the system.	off the mainframe at different times will result in the need to modify KEIKI system interfaces after the system has been deployed. Until other State modernization projects are completed, the KEIKI project cannot perform server-based data exchanges and will need to continue to interface via the mainframe. In addition, as the KEIKI project involves integrating a modernized child support system with existing legacy systems, there may be other technological and architectural gaps that arise. These gaps can include differences in technology stacks, such as programming languages,	2024.03.001.R1 – CSEA should coordinate regular meetings with impacted	Open	STATUS UPDATE 04/30/24: CSEA organized a meeting with other Departments in April to exchange information regarding the status of their respective system modernization efforts, specifically those related to the shared mainframe and dependencies. IV&V will continue to monitor the coordination with other State of Hawaii modernization projects.	CLOSED DATE	CLOSURE REASON
ocess	2024.03.002	issue	Moderate	Moderate	Inadequate schedule and resource management practices may lead to project delays, missed project activities, unrealistic schedule forecasts, or unidentified causes for delays.	tasks are delayed 1 to 2 months from the approved baseline including building the KEIKI database, developing system test scripts, UI design, UI development, code conversion, system test execution, etc. CSEA should			04/30/24: 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. IV&V will continue to monitor progress made on schedule and resource management practices.		

			1					1			
	BSERVATION			CURRENT							
A ID						ANALYSIS		-		CLOSED DATE	CLOSURE REASON
ID	0224.02.001			SEVERITY N/A	OBSERVATION Additional information is needed regarding Protech's program development and testing approach.		RECOMMENDATIONS N/A for preliminary concerns	STATUS Open	STATUS UPDATE 03/31/24: Protech is planning on a presentation in April or May to explain how their testing approach will ensure that the new system and user interface will maintain the same functionality as the old system. Without documented requirements, it is still unclear how program development progress, testing, and acceptance will be managed and monitored. 04/30/24: Protech will present their testing approach in May. The presentation is important as test scripts are finalized, and system testing is approaching. IV&V will continue to monitor the clarification of the program development and testing approach.	CLOSED DATE	CLOSURE REASON
ocess 2C	024.01.001	Risk	Moderate	Moderate	Ineffective project status meetings and reports can lead to delayed decision-making, lack of accountability, and reduced morale.	high level schedule, late tasks, tasks planned this week, open tasks, 30-day look ahead, deliverable status, risks log, key decisions, change requests, and other project information. Despite numerous data points, the weekly project status reports may not give a complete picture of the project's progress. To get a better understanding of any delays, risks, issues, or action items, additional research and analysis of past reports, review of the Microsoft Project schedule, and inquiry with project members is necessary. 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 the audience to promote problem-solving and constructive dialogue. • CSEA could solicit feedback prior to meetings so the team can be prepared to ask questions or discuss relevant project topics. CLOSED: 2024.01.001.R2 — Set clear objectives for meetings and provide concise and relevant information that adds value. • Meetings and reports without clear objectives can quickly turn into a one-way status update without any meaningful discussion or clear understanding of project status, risks, and issues. • Provide reports that are concise, relevant and clear to the audience. Only include charts and tables that provide value and present data in a format that helps provide meaningful information to move the team forward. 2024.01.001.R3 - Additional quality metrics and project success metrics should be added to project status reports.		02/29/24: A new recommendation was added and two recommendations were closed. Two recommendations were closed as CSEA 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 meaningful discussion amongst project stakeholders. 03/31/24: Although improvements were made to project status reports, they could be further improved by outlining delayed tasks and upcoming activities to ensure stakeholders are adequately prepared. CSEA continued to refine success metrics to prepare for reporting which will begin next month. 04/30/24: Project status reports continue to be refined and now clearly report tasks that have been rescheduled from the previous week's reporting period. CSEA did not start reporting on success metrics in April as planned. IV&V will continue to assess the effectiveness of project status reports and meetings.		

								7			
ASSESSMENT	OBSERVATION		ORIGINAL	CURRENT							
AREA	ID	TYPE	SEVERITY	SEVERITY	OBSERVATION	ANALYSIS		STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
rocess	2023.10.002	Risk	Prelim	Moderate	Untimely project management	The Protech Project Manager provided a draft project schedule; however,		Open	11/30/23: This was originally reported in the October 2023 IV&V Monthly	1	
					responsibilities may impact effective	it was incomplete and listed due dates that were already missed for	schedule comments.		Report as a preliminary concern but was upgraded to and rewritten as a risk		
					project execution.	· · · · · · · · · · · · · · · · · · ·	Develop a detailed plan with assigned resources to complete project tasks.		this month with recommendations. The project is still challenged with		
							Provide the appropriate detail of tasks, durations, due dates, milestones,		insufficiently updating deliverables and continued delays in the proposed		
						track. Protech's Project Manager is experienced with similar	and key work products for various parties. CSEA assigned tasks should also		project schedule.		
						implementations and is working collaboratively with the project team to	be clearly reflected in the project schedule.		10/04/02 4 5 5 14 15 15 15 15 15 15 15 15 15		
						address feedback.	Obtain agreement on the baseline schedule and then hold parties accountable for tasks and deadlines.		12/31/23: Accuity increased the severity rating from Level 3 (Low) to Level 2		
						Possible root causes or contributing factors are turnover of project	accountable for tasks and deadlines.		(Moderate). More rigor on foundational project management practices is needed to prevent further delays and increase the quality of project		
						managers, an aggressive project timeline, and need for additional project	CLOSED: 2023.10.002.R2 – Determine the root causes of delays and		execution. The approved project schedule still lacks detailed tasks to		
						management support. Another possible root cause is Protech's need to	develop plans to address them.		adequately plan project resources and monitor project performance.		
						revisit the project RFP and submitted proposal to reduce the	Perform a root cause analysis including defining the problem, brainstorming		Although the project schedule has some percentage completion, the process		
						misalignment of expectations, creating longer deliverable review cycles.	possible causes, and developing a plan to address the root cause of the		to monitor and calculate metrics is unclear.		
						Installigitation of expectations, creating longer deliverable review eyeles.	problem such as resource constraints and undefined tasks.		to montor and carculate metres is arrecal.		
						Feedback on preliminary deliverables does not appear to be adequately	Based on the experience of the last two months, create a realistic schedule		01/31/24: Despite several meetings, there is still a need for a greater shared		
						addressed. For example, the need for a resource loaded schedule was	based on the time and resources needed to perform tasks.		understanding of schedule concerns between Protech and CSEA. This risk will	П	
						communicated verbally and in meetings repeatedly.			continue to be evaluated with the recent addition of Protech resources to		
			1			, <u>, , , , , , , , , , , , , , , , , , </u>	CLOSED: 2023.10.002.R3 – Assess the need for additional Protech resources		improve the timeliness of project execution, a recommendation was added		
							for project management support.		that project managers can adopt a more joint, collaborative approach to		
									share and clearly delineate project management responsibilities.		
							2023.10.002.R4 - Have the CSEA and Protech Project Managers adopt a				
							more joint, collaborative approach.		02/29/24: The project schedule does not include all project tasks and is		
							Have the PMs clearly define their roles and responsibilities in project		being updated to include more granular-level project activities One		
							management responsibilities.		recommendation was closed as Protech added additional project		
							Actively plan, share and execute project responsibilities.		management resources.		
									03/31/24: Closed two recommendations as a new, separate observation with	1	
									recommendations related to schedule and resource management was		
									opened. Refer to observation 2023.03.002. Project managers should		
									prioritize working closely together to assess upcoming activities, the impact of	of	
									project delays, and determine if any changes are needed to the overall		
									project timeline		
									04/30/24: The CSEA project manager still needs to independently validate		
									the variance and critical path. For monthly steering committee and project		
									status meetings, it would be beneficial for CSEA to take a more active role in	1	
									communicating their perspective on project progress to stakeholders.	1	
									IV8V/ will continue to come project management reconnections	1	
									IV&V will continue to assess project management responsibilities.		
echnology	2023.12.001	Positive	Moderate	N/A		Protech's partner, Advanced, worked closely with CSEA's technical SMEs	N/A	Closed	N/A	01/31/24	Closed as this is a positive
					process was well planned and executed.	and outlined a clear, well-defined process to collect and assess the KEIKI					observation.
						mainframe application in preparation for the migration and code					
						conversion. Advanced's weekly status updates and follow-ups helped all					
						stakeholders understand their roles, responsibilities, outstanding tasks,					
						and status of activities. Their final assessment report was comprehensive,					
						data-driven and insightful, and prepared the project team well as they					
						begin the next phase of legacy code and data system migration.					

SSESSMENT	OBSERVATION			CURRENT							
chnology		Risk		SEVERITY Moderate	OBSERVATION Complex data system migration	ANALYSIS Data system migration and mapping can be complex and cause project	RECOMMENDATIONS 2023.11.001.R1 – Develop separate formalized data system migration plans		STATUS UPDATE 12/31/23: CSEA appointed two dedicated Data System Migration Leads. It is		Risk closed as the inventory of
recurring	2023.11.001	KISK	Woderate		, ,	delays if not properly planned and managed. The KEIKI system's	and processes for non-code elements.	Ciosea	unclear if Protech also appointed a dedicated lead. A clear plan is still	01/31/24	code and ancillary elements w
					documentation and the absence of a		A separate implementation plan should be clearly outlined, determining the		missing, and CSEA documented a formal issue related to the lack of		completed.
					formalized process for non-code tasks,		timeline, tasks, tools, and resources needed to perform these activities.		information coordination and redundant requests related to the data system		completed.
					may lead to project delays, unmet		Develop a formalized data migration acceptance process for the remaining		migration requirements.		
					contract requirements, and quality		cycles with defined acceptance criteria.		Inigration requirements.		
					issues.		Determine what validation is needed by other agencies and stakeholders		01/31/24: Risk closed as the inventory of non-code and ancillary elements		
					133403.		that rely on CSEA's Keiki system and outputs.		including hardware, software, interfaces, and batch files was completed and		
						project has a formalized process for application code migration but lacks a	and tely on eseas telki system and outputs.		will be validated as part of the technical architecture and system requirements		
						1 1 1 2	2023.11.001.R2 – Investigate automated tools for tracking and validating		documentation.		
						hardware, software, interfaces, and batch files. The absence of a separate,					
							Automated data validation should be investigated to help identify missing				
							elements, increase data accuracy, and alleviate resource constraints.				
						affecting system performance and user experience.					
							2023.11.001.R3 – Ensure data system requirements are comprehensive and				
						The SI's waterfall approach requires upfront gathering and definition of all					
							Given the waterfall approach, schedule and resource considerations should				
						migration requirements may result in insufficient time or budget to	be given to increasing system requirement gathering upfront.				
						execute the migration properly.	The project managers should ensure greater coordination of project				
							information needed for requirements management and tracking.				
							Consider an iterative approach for non-code migration activities, which				
							allows for several rounds of review and validation.				
							2023.11.001.R4 – Appoint dedicated Data System Migration Leads from both				
							Protech and CSEA.				
							Consider identifying dedicated leads to assist with analyzing the existing				
							data environment, identifying data migration requirements, supporting the				
							migration process, troubleshooting issues that arise, and coordinating tasks				
							with Protech, Advanced, Datahouse, and CSEA.				
People	2023.10.001	Positive	N/A	N/A		The CSEA SMEs appear to be engaged in ongoing Assessment sessions	N/A	Closed	N/A	11/30/23	Closed as this is a positive
					and the environment between Protech	and accountable for timely completing required tasks, providing					observation.
					and CSEA is collaborative.	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.					

Appendix D: Comment Log on Draft Report



Comment Log on Draft Report

KROM Project: IV&V Document Comment Log





ID#	Page #	Comment	Commenter's Organization	Accuity Resolution
1		No CSEA or Protech comments.		
2				
3				
4				
5				



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