DAVID Y. IGE GOVERNOR



OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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March 30, 2021

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

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the IV&V report the Office of Enterprise Technology Services received for the State of Hawaii Department of Labor& Industrial Relations Disability Compensation Division's Modernization Project – Electronic Case Management System.

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

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)

STATE OF HAWAII DEPARTMENT OF LABOR & INDUSTRIAL RELATIONS (DLIR)

Disability Compensation Division's Modernization Project – Electronic Case Management System (eCMS)

AND



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MONTHLY ON-SITE IV&V REVIEW REPORT

REPORT FINALIZED

February 23, 2021 | Version 1.0

March 26, 2021



Table of Contents

EXECUTIVE SUMMARY	3
Background	3
IV&V Dashboard	4
FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA	6
Overall Rating	6
Program Governance	7
Project Management	8
Technology	11
Appendix A: IV&V Criticality and Severity Ratings	13
Appendix B: Industry Standards and Best Practices	15
Appendix C: Interviews, Meetings, and Documents	18
Appendix D: Prior Findings Log	22
Appendix E: Prior IV&V Reports	41





Document History

DATE	DESCRIPTION	AUTHOR	VERSION
03/05/21	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
03/26/21	Monthly On-site IV&V Review Report Final updated to reflect no comments submitted in Appendix F.	Julia Okinaka	1.0



EXECUTIVE SUMMARY

BACKGROUND

The State of Hawaii (State), Department of Labor and Industrial Relations (DLIR) contracted DataHouse Consulting, Inc. (DataHouse) for the Disability Compensation Division's (DCD) Electronic Case Management System Project (eCMS Project). DLIR contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the eCMS Project.

The Initial On-Site IV&V Review Report (IV&V Initial Report) was issued on August 30, 2019 and provided an initial assessment of project health as of June 30, 2019. Refer to the full Initial Report for additional background information on the eCMS Project and IV&V. The Monthly On-Site IV&V Review Reports (IV&V Monthly Reports) build upon the Initial Report to update and continually evaluate project progress and performance. Refer to Appendix E: Prior IV&V Reports for a listing of prior reports.

Phase 1 development and testing activities continued and Phase 2 requirements deliverable is pending review. The focus of our IV&V activities for this report included an assessment of project organization and management and change management as well as the beginning of a two-month in-depth assessment of communication management and organizational change management (OCM). IV&V has areas of limited visibility or access to project activities and documentation that may prevent a complete identification of project risks.

The IV&V Dashboard on the following two pages provides a quick visual and narrative snapshot of both the project status and project assessment as of February 23, 2021. Additional explanation is included in Findings and Recommendations by Assessment Area for new findings and in Appendix D: Prior Findings Log for prior report findings. Refer to Appendix A: IV&V Criticality and Severity Ratings for an explanation of the ratings.

CHANGE MANAGEMENT

"A bend in the road is not the end of the road... Unless you fail to make the turn."

- Helen Keller



PROJECT ASSESSMENT

AS OF FEBRUARY 23, 2021



CRITICALITY RATINGS

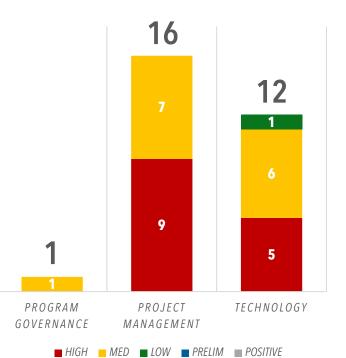
MEDIUM

R HIGH G

LOW

29 OPEN FINDINGS

SEVERITY RATINGS BY ASSESSMENT AREA



52 OPEN RECOMMENDATIONS

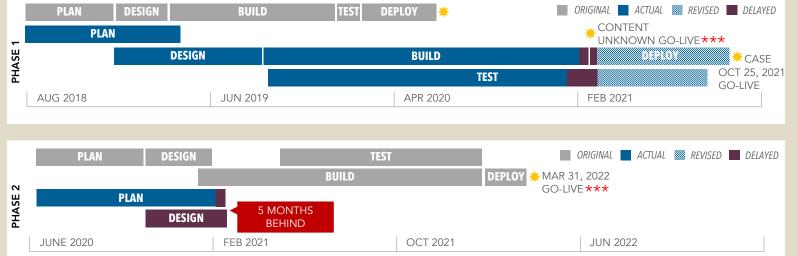




* Only includes contracts. IV&V unable to validate total budget.

PROJECT PROGRESS **





*** Revised go-lives pending.

ASSESSMENT AREA & RATINGS SUMMARY

AS OF FEBRUARY 23, 2021

DEC	JAN	FEB	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
			Overall	DLIR and DataHouse are currently evaluating Content Management solution options. As this may have a significant impact on the project, careful analysis of options and agreement on how to best proceed are critical.
				<i>Project Schedule:</i> Phase 1 and Phase 2 activities are delayed. The June 2021 Phase 1 Case Management go-live was extended to October 2021 but may be impacted by the currently unknown Phase 1 Content Management go-live. The Phase 2 revised schedule is also pending. Accuity is unable to fully assess schedule variances (refer to finding 2019.07.PM13).
				<i>Project Costs:</i> Contract costs are within the total contract amounts; however, payment schedules were not revised for changes in deliverable timelines resulting in prepayment. Accuity is unable to fully assess cost variances (refer to finding 2019.07.PM12).
				<i>Quality:</i> Quality metrics are not yet defined or measured (refer to finding 2019.07.IT05). The definition of quality metrics and a reevaluation of success metrics are critical for setting the project direction forward.
G	G	6	Program Governance	The eCMS Project Executive Steering Committee (ESC) convened for the monthly meeting to discuss major risks and issues. Project success metrics need to be reevaluated to take into consideration the current project status and remaining project timeline. ESC guidance is needed to evaluate Content Management solution options, reassess overall project priorities, and chart a way forward for the eCMS Project.
		R	Project Management	There continue to be delays and unknowns in the project schedule related to the Content Management solution. Critical strategic-level decisions need to be made before the project schedule can be revised. Whatever the project decides, it will be essential for DLIR and DataHouse to set realistic go-live dates that allow sufficient time to perform key project activities with available project resources. DLIR project resources are still struggling to balance project activities with high DLIR operational workloads stemming from the COVID-19 pandemic. The DLIR Project Manager is overtasked without sufficient other project resources to share in project work. As a result, there are significant delays in DLIR reviews of key project deliverables needed to move on to the next project activities. Improvements are still needed for foundational project management processes including resource, schedule, and requirements management (refer to Appendix D: Prior Findings Log) to optimize limited DLIR project resources and minimize further schedule delays.
		€	Technology	DLIR and DataHouse continue to evaluate Phase 1 Content Management technical issues and solution options. Additional improvements of the issue/defect resolution process are needed to closeout or address user feedback. The final Phase 1 Case Management development sprint 4.4 wrapped up; however, system interfaces and DataHouse system testing are still pending. Improvements are also still needed for foundational project processes including data conversion, testing, and quality management (refer to Appendix D: Prior Findings Log) to ensure quality and overall project success goals are met. IV&V does not have adequate visibility of development, testing, and data conversion activities to fully assess methodologies and progress.

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA



OVERALL RATING

Security

The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of the underlying findings (see Appendix A: IV&V Criticality and Severity Ratings). The tables below summarize the criticality ratings for each IV&V Assessment Category in the three major IV&V Assessment Areas. Five IV&V Assessment Categories declined from the prior report. The overall rating primarily reflects the schedule delays, limited DLIR project resources, technical issues, and the need to improve many foundational project processes. The eCMS Project should reassess and refocus project goals and priorities taking into consideration the current project status and remaining project timeline. Critical decisions need to be made to set a clear path forward.

DEC	JAN	FEB	PROGRAM GOVERNANCE	DEC	JAN	FEB	PROJECT MANAGEMENT
G	G	G	Governance Effectiveness	R	R	R	Project Organization and Management
Y	Y	V	Benefits Realization	R	R	R	Scope and Requirements Management
DEC	JAN	FEB	TECHNOLOGY	R	R	R	Cost, Schedule, and Resource Management
V			System Software, Hardware, and Integrations				Risk Management
G	G	G	Design	Y			Communications Management
			Data Conversion	Y		Y	Organizational Change Management (OCM)
R	R	R	Quality Management and Testing	6	G	G	Business Process Reengineering (BPR)
Y			Configuration Management				Training and Knowledge Transfer
			Configuration Management				

AT-A-GLANCE

Reassess **PRIORITIES** and **PATH** forward

LIMITED availability of DLIR project resources

ISSUES with Content Management UAT

Improve FOUNDATIONAL project processes



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



PROGRAM GOVERNANCE

DEC	JAN	FEB	IV&V ASSESSMENT	IV&V OBSERVATION	F	S	
DEC	JAN	FED	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
G	G	6	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) continues to meet monthly to discuss project updates, risks, and issues. The eCMS Project is at a critical point and strategic-level decisions need to be made. ESC guidance and oversight are needed to evaluate Content Management solution options, reassess overall project priorities, and chart a way forward for the eCMS Project.	0	0	0
Ŷ	Y	•	Benefits Realization	Project success metrics need to be reevaluated to take into consideration the current project status and to focus on what can be realistically achieved in the remaining project timeline. DLIR also still needs to begin collecting and monitoring success metrics data (2019.07.PG05).	0	1	0



PROJECT MANAGEMENT

Project Organization and Management

Scope and Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer



PROJECT MANAGEMENT

DEC	JAN	FEB	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
DEC	JAN FEB		CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED	
R	R	R	Project Organization and Management	A clear project plan and path forward is pending critical strategic-level decisions that need to be made. Project organization and management continue to be a challenge with the COVID-19 pandemic still limiting the availability of DLIR project resources (2020.03.PM01) resulting in an overtasked DLIR Project Manager. Inadequate project resources and deficiencies in the deliverable review process (2019.07.PM03) are contributing to significant delays in DLIR reviews of key project deliverables needed to move on to the next project activities. Improvements are still needed for project organization and collaboration between DLIR and DataHouse (2019.07.PM02), change management (2019.09.PM01), and addressing prior IV&V findings (2020.07.PM01).	0	5	0	
P	R	R	Scope and Requirements Management	Phase 1 requirements traceability (2019.10.PM01) and documentation (2019.07.PM10) still need improvement. Phase 1 Content Management UAT highlighted the lack of adequately documented technical and functional requirements. The impacts of new or clarified requirements resulting from Content Management user acceptance testing (UAT) are still being evaluated by DataHouse. The Phase 2 requirements document was delivered by DataHouse and is still pending DLIR review and acceptance. DLIR's review of their third-party vendor's requirements assessment results is also pending.	0	2	0	



	DEC	JAN	FEB	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS				
PROJECT	DEC	JAN	FED	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED		
MANAGEMENTProject Organization and ManagementScope and Requirements ManagementCost, Schedule, and Resource ManagementRisk ManagementCommunications ManagementOrganizational Change ManagementBusiness Process ReengineeringTraining and Knowledge Transfer	R	R	R	Cost, Schedule, and Resource Management	The June 2021 Phase 1 Case Management go-live was extended to October 2021 but may be impacted by the currently unknown Phase 1 Content Management go-live. Additionally, Phase 2 is five months behind schedule. Critical decisions are needed before the project schedule can be revised. Unknown or continually shifting timelines impede planning, decision making, and execution of project tasks. It is critical for DLIR and DataHouse to set realistic and achievable go-live dates. Improvements in schedule management processes are still needed (2019.07.PM13). DLIR project resources are still struggling to balance project activities with high DLIR operational workloads stemming from the COVID- 19 pandemic (2020.03.PM01). The DLIR Project Manager is overtasked without sufficient other project resources to share in project work. DLIR plans to procure additional project resources that are needed (2019.07.PM14). Recurring meetings with select DLIR stakeholders are helping to provide a structured schedule to perform project work; however, additional improvements in resource management processes are still needed (2019.09.PM02). With ongoing Phase 1 Content and Case Management testing activities and upcoming Phase 2 design activities, careful consideration of DLIR project resource capacity is needed when revising the project schedule. Improvements are also needed to track and monitor all project costs and adjust payment schedules for changes in deliverable timelines to prevent prepayments of funds (2019.07.PM12).	0	4	0		
	Y	Y	姴	Risk Management	Increased attention and mitigation of risks and issues are needed to reset the project course and keep the project on track. Timely execution of remediation plans is still needed (2019.07.PM09).	0	1	0		



	DEC	JAN	AN FEB	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
PROJECT	DEC	JAN	FED	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
MANAGEMENT Project Organization and Management Scope and	Y			Communications Management	Internal DLIR recurring meetings help to improve communications with pockets of DLIR stakeholders. Effective and timely communications with all impacted stakeholders (2019.07.PM07) and in all areas of the project (2019.07.PM06) are still needed.	0	2	0
Requirements Management Cost, Schedule, and Resource Management Risk Management Communications	Y			Organizational Change Management (OCM)	Some OCM is occurring as an indirect result of other project communications and participation in ongoing project meetings. A more structured OCM approach is still needed (2019.07.PM08) to ensure stakeholders are adequately prepared to accept and embrace changes. DLIR implemented recurring OCM meetings in the current month and plans to develop more formal OCM plans and activities.	0	1	0
Management Organizational Change Management Business Process Reengineering	•	6	•	Business Process Reengineering (BPR)	DLIR continued recurring meetings to discuss and analyze some of the critical business processes impacted by the new system. Although DLIR is making progress, additional clarification of key business processes is still needed (2020.12.PM01).	0	1	0
Training and Knowledge Transfer				Training and Knowledge Transfer	The DLIR-led Phase 1 Content Management training sessions are still on hold due to pending technical issues. The DataHouse Phase 1 Case Management training material deliverables are due March 2021 but work is on hold due to delays in DLIR review and acceptance of related design and requirements deliverables.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



TECHNOLOGY

	EC JAN FEB		IV&V ASSESSMENT			FINDING	S
DEC	JAN	FEB	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
<	~	<	System Software, Hardware, and Integrations	Phase 1 Content Management system development is ongoing as DLIR and DataHouse are still evaluating technical issues and solution options. A target completion date is currently unknown and the decision of the specific solution option could have a significant impact on system development and the overall project. The final Phase 1 Case Management development sprint 4.4 wrapped up; however, system interfaces and DataHouse system testing are still pending. The go/no-go criteria (2020.09.IT01), interface solution (2019.07.IT02), and the M&O roles and responsibilities (2019.09.IT02) remain unclear. IV&V does not have adequate visibility of development and integration activities to fully assess methodologies and processes.	0	3	0
G	G	6	Design	DataHouse Phase 1 Content Management and Case Management design deliverables were updated based on actual system development but are still pending DLIR review and acceptance. The Phase 2 design stage is delayed for the pending DLIR review of the related requirements deliverable.	0	0	0
	Y		Data Conversion	The Phase 1 Content Management data conversion activities are still on hold for the pending go-live date. Details of the Phase 1 Case Management data conversion scope, approach, and resources are still needed (2019.11.IT01). Additionally, the updated DataHouse Case Management data conversion deliverable is still pending DLIR review and a delayed acceptance may impact upcoming data conversion activities. IV&V does not have adequate visibility of data conversion activities to fully assess data conversion processes.	0	2	0



	DEC			IV&V ASSESSMENT	IV&V OBSERVATION	l l	INDING	S
TECHNOLOGY	DEC	JAN	FEB	CATEGORY	IVAV ODJERVATION		OPEN	CLOSED
System Software, Hardware, and Integrations Design Data Conversion Quality Management and Testing Configuration Management Security	R	R	R	Quality Management and Testing	 Phase 1 Content Management UAT activities are on hold due to technical issues and DLIR is behind on Phase 1 Case Management UAT test case preparation. Internal DLIR recurring meetings help to prepare DLIR testers and to discuss possible test cases, but DLIR testing continues to be impacted by technical issues, limited DLIR project resources, unclear acceptance and go/no-go criteria, unfinalized test plans, and other project risks (2020.12.IT01, 2020.02.IT01, and 2019.10.IT01). Adequate UAT is necessary to ensure quality and overall project success goals are met. DLIR and DataHouse still need to finalize their quality management plans and quality metrics (2019.07.IT05). Quality metrics are critical for evaluating and monitoring current project activities such as training, testing, and go-live readiness. IV&V does not have adequate visibility of DataHouse or DLIR testing or quality activities or documentation to fully assess methodologies and progress. 	0	4	0
				Configuration Management	No significant updates since the prior report. A comprehensive configuration management plan including the DLIR approval process is still pending (2019.07.IT06).	0	1	0
	Y		Ŷ	Security	DLIR and ETS continue to meet regularly to discuss and align plans for implementing security policies and procedures. DLIR's formal security management plan (2019.07.IT07) and security policies (2019.10.IT02) are still pending.	0	2	0



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 and IV&V Assessment Category. Severity ratings are assigned to each risk or issue identified.

Criticality Rating

TERMS

RISK An event that has not happened yet.

ISSUE An event that is already occurring or has already happened. 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 and IV&V Assessment Category, the overall impact of the related findings 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 findings. No arrow indicates there was neither improving nor declining progress from the prior report.

RRRVVVVVOOOOOOOOV<td

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.

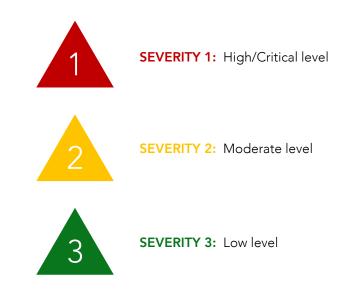


Severity Rating

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).

Findings that are positive or preliminary concerns 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
HIPAA	Health Insurance Portability and Accountability Act of 1996
MARS-E v2.0	CMS Minimum Acceptable Risk Standards for Exchanges – Exchange Reference Architecture Supplement
MITA v3.0	Medicaid Information Technology Architecture
PMBOK® v6	Project Management Institute (PMI) Project Management Body of Knowledge
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
TOGAF® v9.2	The Open Group Architecture Framework Standard
COBIT® 2019 Framework	Control Objectives for Information and Related Technologies Framework
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 16085:2006	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management



STANDARD	DESCRIPTION
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
IEEE 15288-2015	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 24748-3-2012	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 14764-2006	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 42010-2011	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Architecture Description
IEEE 29119-1-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions
IEEE 29119-2-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes
IEEE 29119-3-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation
IEEE 29119-4-2015	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques



STANDARD	DESCRIPTION
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
ISO/IEC TR 20000- 11:2015	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 27002:2013	Information Technology – Security Techniques – Code of Practice for Information Security Controls
SAML v2.0	Security Assertion Markup Language v2.0
SoaML v1.0.1	Service Oriented Architecture Modeling Language
CMMI-DEV v1.3	Capability Maturity Model Integration for Development
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: Interviews, Meetings, and Documents

INTERVIEWS

DATE	INTERVIEWEE
	None

MEETINGS

DATE	MEETING DESCRIPTION
02/01/21	Testing Working Session
02/01/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/02/21	IV&V DCD Update Meeting
02/02/21	Weekly PM Status Meeting
02/03/21	IV&V DCD Update Meeting
02/03/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/04/21	IV&V Update and Planning Meeting
02/04/21	Phase 1 Case Management Sprint 4.3 Review
02/05/21	IV&V DCD Update Meeting
02/05/21	Weekly DCD Risk Meeting
02/05/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/05/21	Phase 1 Content and Case Testing and BPR (Hearing) Working Session
02/08/21	IV&V DCD Update Meeting
02/08/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/09/21	IV&V DCD Update Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
02/09/21	Weekly PM Status Meeting
02/10/21	Testing Working Session
02/12/21	Testing Working Session
02/12/21	Monthly eCMS Steering Committee Meeting
02/12/21	DHS and DLIR Meeting
02/17/21	IV&V DCD Update Meeting
02/17/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/18/21	Phase 1 Content and Case Testing and BPR (Hearing) Working Session
02/18/21	Phase 1 Case Management Sprint 4.3 Retrospective Meeting
02/18/21	Security Working Session
02/19/21	Phase 1 Content and Case Testing and BPR (Hearing) Working Session
02/22/21	IV&V DCD Update Meeting
02/22/21	OCM Working Session
02/22/21	Phase 1 Content and Case Testing and BPR (R&C) Working Session
02/23/21	IV&V DCD Update Meeting
02/23/21	IV&V DataHouse Update Meeting



DOCUMENTS

TYPE	DOCUMENT
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-17-002-DCD (Release Date 04/12/18)
DataHouse Proposal	DataHouse eCMS Best and Final Offer (BAFO) Proposal (Dated 06/20/18)
Request for Proposal	State of Hawaii DLIR DCD IV&V RFP No. RFP-18-001-DCD (Release Date 12/28/18)
Contract	Contract between State of Hawaii and DataHouse Consulting Inc. (Effective 08/27/18)
Project Management	DataHouse Project Status Report (Status Date 01/24/21 for reporting period 11/01 – 11/15/20, finalized 01/29/21)
Project Management	DataHouse Project Status Report (Status Date 12/20/20 for reporting period 11/16 – 11/30/20, finalized 01/29/21)
Project Management	DataHouse Project Status Report (Status Date 02/21/21 for reporting period 12/01 – 12/15/20, pending DLIR approval)
Project Management	DataHouse Project Status Report (Status Date 02/21/21 for reporting period 12/16 – 12/31/20, pending DLIR approval)
Schedule	eCMS Microsoft Project Plan as of 02/13/21 (MPP file)
Costs	DCD eCMS Modernization Project – Services (Updated 02/23/21)
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 02/16/21 by DataHouse Project Manager)
Requirements	Requirements Traceability Matrix (Revision Date 02/18/21)
Development	DataHouse Development Team Status Meeting Minutes for 01/27/21
Development	DataHouse Development Team Status Meeting Minutes for 02/03/21
Development	DataHouse Development Team Status Meeting Minutes for 02/10/21
Development	DataHouse Development Team Status Meeting Minutes for 02/17/21
Development	Phase 1 Epic 4 Sprint 4.4 Documentation (Retrospective notes)
Quality	Content Management Quality Tracking Log (02/09/21 and 02/18/21) (2 files)
Governance	eCMS ESC Meeting Agenda (02/12/21)



DOCUMENTS (CONTINUED)

ТҮРЕ	DOCUMENT
Governance	eCMS ESC Meeting Minutes (01/08/21)
Governance	eCMS ESC Meeting DataHouse Project Dashboard (02/12/21)





Appendix D: Prior Findings Log



Appendix D: Prior Findings Log

			ORIGINAL	CURRENT						FINDING			
TEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
siness Process engineering	2020.12.PM01		Moderate	Moderate	go-live readiness.	Ongoing Phase 1 Content Management UAT is raising questions regarding how the system will be used after interim Content Management go-live as well as the integrated Case Management go-live. The most critical business process in question is the use of the new quick response (CR) coded workers' compensation forms and the related business process for data entry and scanning of these forms during the interim phase. Other examples of business processes that need to be clarified indude initial paper conversion scanning, subsequent separation and indexing of files, transferring of cases to LIRAB during the interim, preparing and viewing select documents for hearings, storing/indexing files ascitated to multiple cases, and acceptable use of annotations in electronic documents. Clarification of business processes is critical to ensure that proper UAT test cases are designed around how the system will be used in the future. Clear understanding of business processes is also important to stakeholders prior to go-live.	n	Clarify redesigned business processes.	 Identify business processes that need to change with the modernized system. Discuss and evaluate options for redesigning identified business processes considering impacts on stakeholders. Ensure that communication and training plans are updated for major changes in business processes. Consider business processes. Consider creating business process flows for the interim Content Management phase. Consider creating informational flyers/cheat sheets to help internal and external stakeholders understand and prepare for business process changes. 		01/26/21: DUR implemented recurring meetings with pockets of DUR stakeholders to begin discussing and analyzing some of the critical business processes that will need to change or that will be impacted by the new system. DUR plans to draft standard operating procedures and create workflow charts to document new business processes. 02/23/21: Some DUR business process discussions are impacted by the uncertainty in the Content Management solution and related go-live date. Accuity will continue to assess business process decisions and documentation		
Jality anagement and sting	2020.12.IT01	(ISSUE)	High	High		DUR began UAT of the Phase 1 Content Management solution and is scheduled to complete testing in the first week of January 2021. DUR was not able to sufficiently prepare test cases prior to UAT lickoff, testing is generally not formally documented, and adequate testing resources were to secure do trained. DUR and DataHouse di implement al log for tracking UAT feedback and issues as well as daily meetings to discuss and eview the latest log entries subtil it is unclear what DUR's process and thresholds are for evaluating and ultimately accepting residual issues in aggregate. Adequate UAT is necessary to ensure quality and overall project success goals are net and that the project is able to move forward he following project risks and issues (refer to Appendix D: Prior Findings Log) are impairing UAT execution: •inadequate Resources (2019.07.PM14, 2020.03.PM01) – DLR does not have adequate testers and key DCD testers still need to get involved in testing activities. Additional DLR resources are also needed to assist with test: case preparation, tester traveruces' still need to get involved in testing activities. Additional DLR resources are also needed to assist with test: case preparation, tester traveruces' schedule and task. •incomplete Requirements (2019.07.PM10) – User feedback and technical and functional requirements (2019.07.PM10) – Limited communications occurred between the Content Management development team and DLR during development. Recent daily meetings have helped to improve communications but additional discussions are needed to increase DLR's understanding of the technical solution components. •incomplete DLR and DataHouse PL Plans (2019.01.101, 2020.02.1001) – DLR and DataHouse. •Technical Issues – A number of technical issues were necountered during UAT. The slowness of the system has prevented DLR and most process of investigating the issues and plan to perform network and application testing in lates technical solution creates confusion on testing of hor the new system will be used in the fu	2020.12.IT01.R2	Develop a prioritized plan to address UAT execution issues.	 DLR and DataHouse should work together to evaluate and prioritize the UAT execution issues with the greatest impact on the Content Management go-live date. Develop a clear plan and realistic timeline to address UAT execution lissues considering availability of DLR project resources. DataHouse should provide additional clarification and demonstration of the functionality to be provided by the stand-alone Content Management solution. This will help DLR users understand limitations that are only temporary and the additional functionality provided in later phases. For issues not fixed by DataHouse, DLR should ensure stakeholders understand options (e.g., work arounds, change request). DLR should assign rak/criticality ratings for each of the unresolved lissues to provide quantifiable metrics for system acceptance and the go/no-go decision. Consider which issues/defects can be addressed after go-live by agreed upon resolution dates. 	Upen	01/26/21: DUR implemented recurring meetings to begin preparing DUR testers and drafting test cases for ongoing Content Management UAT and upcoming Case Management UAT. The recurring meetings are also helping to provide DUR testers with a structured schedule and more guidance for planning, discussing, and performing UAT. DUR also plans to procure additional testing resources. Improvements are still needed in the issue/defect resolution process between DUR and DataHouse. 02/23/21: DUR continued to meet with limited groups of stakeholders; however, some DUR discussions of test cases and scripts are impacted by uncertainty in the Content Management solution. DUR plans to begin meeting with other groups of stakeholders in March 2021. DUR and DataHouse are still evaluating technical issues raised during UAT and possibl solution options. Accuity will continue to evaluate UAT and issue/defect resolution processes.		

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CATEGORY		TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
System Software, Hardware and Integrations	2020.09.IT01	Issue	Moderate	High	orderly completion of all tasks required for system go-live.	The criteria for the go/no-go decision are not completely and clearly defined and agreed upon. The decision to go-live involves many areas and tasks of the project including testing, quality management, security, data conversion, training, communications, and deliverable review, as well as the operational readiness of users. Various project plans often include or establish select criteria; however, some of these related plans pending completion or finalization include the test plans (2020.02.1T01 and 2019.10.1T01), the quality management plan (2019.02.0101, and security management plan (2019.02.1T07). Additionally, acceptance criteria for requirements (2019.10.PM01) and for deliverables (2019.07.PM03) have not been established. The Content Management system is scheduled to go-live on November 25, 2020 and Case Management on June 14, 2021. With the Content Management polive date quickly approaching, it is important to establish clear criteria for the go/no-go decision. DLIR is planning to draft a go/no or checklist to summarize all of the criteria and task. DataHouse plans to provide a cutover plan to provide additional information about pre and post go-live tasks.	2020.09.IT01.R1			Open	10/23/20: DLIR drafted a preliminary testing and cutover checklist that include some gorino-go criteria. DataHouse also provided a Content Management deployment checklist that reflected some of the dates already in the project schedule. DLIR is still confirming deployment dates with stakeholders and evaluating the impact of recent technical issues on go-live. 11/24/20: No updates to report. 12/23/20: Accuity changed this finding from a risk to an issue and increased the severity rating from Level 2 (Moderate) to Level 1 (High) as unclear gorino- go criteria is impacting Phase 1 Content Management UAT execution (2020.12.1T01). Clear gorino-go and acceptance criteria are critical for ensuring quality and overall project success goals are satisfied and verified prior to acceptance and moving the system into production. 01/26/21: No updates to report.		
Project Organization and Management	2020.07.PM01	Risk	Moderate	High	Limited progress to address previously identified deficiencies for foundational project processes may result in reoccurring issues and delays.	IV&V identified a number of risks and issues since the IV&V Initial Report in July 2019 related to foundational project processes. Some of the more critical areas requiring improvements include cost management, schedule management, resource management, requirements management, change management, risk management, and testing as these processes impact many aspects of the project execution and contribute greatly to overall project performance and project success. Identified deficiencies contributed to project delays experienced in Phase 1. For example, a significant amount of time was spent clarifying and refining Case Management user stories due to incomplete and unclear requirements documentation. Additionally, the project was delayed several times for AWS due to unclear requirements, tasks, and resources needed as well as		Perform a project assessment. Formulate a plan for addressing identified deficiencies.	Consider performing retrospective for project processes. Consider conducting performance assessments for the project team, individual team members, and governance. Document lessons learned and necessary actions or follow-up to prevent reoccurrence of similar issues. Prioritize based on relevance to upcoming activities; consider focusing on requirements management and BPR processes to optimize effectiveness and efficiencies of upcoming requirements gathering sessions. Develop high-level timeline and tasks for addressing deficiencies and begin tracking progress.	Open	Accuity will evaluate the checklists and criteria as finalized. 08/21/20: DataHouse is currently conducting requirements gathering sessions and made improvements to the requirements management processes including timely sharing of requirements documentation and reviewing original contract requirements. DLIR plans to prioritize open findings and resume efforts to develop and execute mitigation plans. 09/28/20: DLIR and DataHouse held an initial meeting to discuss prior IV&V findings of risks and issues. Recurring meetings were scheduled to continue discussions and to develop a plan to address all findings. DLIR also discussed prior IV&V findings at their weekly risk meetings, prioritized the top three project risks, and began developing remediation or mitigation plans.		
						ineffective processes to document and analyze the change and identify and mitigate risks associated to the AWS build. Incremental progress was made for many findings but a majority are still open. Progress was limited by availability of project resources and competing organizational and project priorities. With the kick-off of Phase 2 in August, this is a great opportunity to review identified deficiencies, evaluate the effectiveness of current project processes, reflect on lessons learned on the project to-date, and make necessary improvements for upcoming activities. Additionally, addressing deficiencies will better position the project to-hadle and adjust to changes going forward including potential rapidly evolving circumstances related to the COVID- 19 pandemic (refer to finding 2020.03.PM01).					10/23/20: DUR and DataHouse met again to discuss prior IV&V findings and made progress to address or close findings. The next meeting is scheduled for the last week of October 2020. Additional follow-up meetings were not yet scheduled. 11/24/20: DUR and DataHouse did not schedule any follow-up meetings specifically to discuss prior IV&V findings; however, some progress was made through the course of other project meetings. 12/23/20 and 01/26/21: No updates to report. 02/23/21: Accuity increased the severity rating from Level 2 (Moderate) to Level 1 (High) as identified deficiencies continue to impact project performance. Prior efforts to regularly discuss and address open findings have not resumed. As the remaining project timeline continues to run out, the project subfl review open findings and prointize those that will and can be addressed to turn things around by the conclusion of the project. Accuity will continue to evaluate progress to address open findings.		

			ORIGINAL	CURRENT						FINDING			
	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	
t	2020.03.PM01	lssue	High	Moderate	The COVID-19 pandemic is impacting	The COVID-19 pandemic has created uncertainty with respect to the	2020.03.PM01.R1	Explore possible ways to keep the	•Evaluate DLIR SMEs availability and bandwidth to work on the project.	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
zation and					project execution although the extent o	f timely completion of the project and its cost. Understandably, DLIR has		project moving forward with	 Consider reshuffling of user stories in current and upcoming sprints and 		2020.		
ement					the impact to project costs and the	diverted project resources to the UI Division to respond to the		available resources.	how to best utilize available DLIR SMEs.				
					project schedule as well as the potentia		2				07/29/20: COVID-19 continues to impact the availability of DLIR project		
					impacts to quality and project success	impacts of COVID-19 specific to the eCMS Project.					resources. A few of the DLIR project resources, including the DLIR Project		
					are currently indeterminable.		2020.03.PM01.R2	Formulate a plan for how to	 DataHouse and DLIR, with input from the ESC, must come together to 		Manager, returned to the project on a limited basis and additional DLIR		
						The following is a summary of the related events and facts:		respond to COVID-19 impacts to	decide on how to best proceed.		project resources are expected to have some availability in the upcoming		
						•All eCMS Project meetings were cancelled beginning March 17, 2020		the project.	 Carefully assess the situation and individually log all of the specific 		months as DCD employees are slowly transitioned back from the UI Division.		
						following directives for non-essential state workers to stay home.			impacts to the project in the risk register, including direct and indirect		With recent increases in cases in Hawaii, circumstances could potentially		
						Subsequent state-wide stay-at-home orders were put into effect through			impacts.		evolve rapidly. While the plan to move forward with Phase 2 work gives		
						April 30, 2020. •Currently only a few DLIR project resources, including the DCD Executive			•Evaluate alternative courses of action and contingency plans for each		DataHouse more options to keep the project moving forward, some level of		
						 Currently only a rew DLIR project resources, including the DCD executive Sponsor and DLIR Project Manager, are still working in the office or 			specific impact identified.		DLIR project resources will always be needed. Making improvements for identified deficiencies (2020.07.PM01) in a few key foundational project		
						remotely but time dedicated to project work has been drastically reduced			 Consider adjusting the frequency of communications and reviews of 		processes including schedule management (2019.07.PM13), resource		
						due to competing priorities. DLIR ceased actively performing or			response plans to support the pace of evolving circumstances.		management (2019.09.PM02), change management (2019.09.PM01), and risk		
						participating in many key project management activities.					management (2019.07.PM09) will better position the project to handle and		
						•Key DLIR Subject Matter Experts (SME) are currently unavailable to the					adjust to changes going forward.		
				1		eCMS Project. The DLIR SMEs are critical to the Case Management				1	and a standard doubt of the standard standard standard standard standard standard standard standard standard st		
				1		system development process due to the valuable knowledge and input of				1	08/21/20: DataHouse kicked-off Phase 2 requirements gathering sessions.		
						business operations they provide to the development teams to clarify and					With Phase 1 activities scheduled to resume simultaneously with on-going		
						refine requirements.					Phase 2 activities, additional clarity is still needed regarding the path forward.		
						 Many DLIR SMEs have been temporarily assigned to assist the UI 					Additionally, the worsening COVID-19 situation in Hawaii creates a lot of		
						Division's overwhelmed operations and a timeline of when they would					uncertainty with regards to DLIR project resources and work arrangements. A		
						return to DCD or eCMS Project work is unknown.					clear understanding of intended project activities as well as contingency plans		
						•Even when stay-at-home orders are lifted, the mounting DCD operational					for key project resources and possible work-from-home arrangements are		
						work will limit DLIR SME capacity to participate in or perform project work.					essential to minimizing further delays.		
						•The Office of Enterprise Technology Services (ETS) and DLIR Electronic							
						Data Processing Systems Office (EDPSO) stakeholders playing an essential					09/28/20, 10/23/20, 11/24/20, 12/23/20, and 01/26/21: No updates to		
						role in project governance and project security management activities are					report.		
						busy addressing other pressing department and state IT issues.							
						 DLIR's plans to procure necessary testing, data conversion, and cloud 					02/23/21: DLIR and DataHouse should consider the continuing impacts the		
						support resources has been put on hold due to COVID-19.					COVID-19 pandemic will have on the availability of DLIR project resources as		
						 Although a few DataHouse resources were reassigned to assist with 					a part of the upcoming Content Management analysis and decision and while		
						higher priority and more urgent UI Division system support, DataHouse					reprioritizing project goals and priorities.		
						continues to move forward with development work. However,							
						DataHouse's progress is partially limited due to dependencies on DLIR's					Accuity will continue to evaluate COVID-19 response and plans.		
						completion of assigned tasks.							
				1		The drastic reduction in already constrained DLIR project resources has				1			
					1	almost entirely halted project work on the state side which will impact				1			
				1		project costs and schedule and potentially impact quality and project				1			
				1		success. Estimates of potential impacts to project costs and schedule have				1			
						not yet been determined and progress has not been made to develop mitigation plans that would help to reduce or limit the impacts.							
						initigation plans that would help to reduce or limit the impacts.							
				1		The severity rating and the following IV&V recommendations are based on				1			
				1		a project-focused perspective, with an understanding that higher DLIR	1			1			
				1		department level priorities may limit the project's ability to respond				1			
				1		effectively and timely. Although this finding is reported under the Project				1			
				1		Organization and Management IV&V Assessment Category, this finding				1			
				1		also impacts the criticality ratings for the Governance Effectiveness; Cost,				1			
				1		Schedule and Resource Management; Risk Management; Communications				1			
				1		Management; Data Conversion; Quality Management and Testing; and				1			
				1		Security categories. In addition to the specific recommendations made as				1			
				1		a part of this finding, the IV&V recommendations made at findings				1			
				1		2019.09.PM02, 2019.07.PM06, 2019.07.PM09, 2019.07.PM12,				1			
				1		2019.07.PM13, and 2019.07.PM14 will also help to address this issue.				1			
	1									1			

ASSESSMENT		ORIGINAL	CURRENT						FINDING			
ATEGORY FINDING ID uality 2020.02.IT01 lanagement and	01 Risk	SEVERITY	SEVERITY Moderate		ANALYSIS DataHouse drafted the Test Plan Version 0.0, pending DLIR review and approval. The test plan does not include or clearly explain the following:	RECOMMENDATION ID 2020.02.IT01.R1	Clarify the test approach.	SUPPLEMENTAL RECOMMENDATION Perform a deliverable review (refer to finding 2019.07.PM03) to ensure DLIR understands the test plan and scope.	Open	FINDING STATUS UPDATE Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020.	CLOSED DATE	CLOSURE REASON
siting				the testing approach and scope which may impact the execution of testing activities.	The scope of the test plan is incomplete (e.g., performance, load, volume, AWS environments). The testing approach differs from DataHouse's Best and Final Offer (BAFO) (e.g., regression testing, test-driven development (TDD)). The security testing does not address all security requirements outlined in the DataHouse contract or verbally discussed with DataHouse (e.g., AWS unlerability scan). Specifics of the test approach are not detailed (e.g., test design techniques for all testing types, automation testing tools, test data requirements, data scrubbing procedures, metrics for test cases and coverage of code). The test tasks: included in the project schedule are incomplete (e.g., security test; test plan Section 8 task). Incomplete test deliverables and unclear delivery (e.g., missing a test complete test deliverables and unclear delivery (e.g., missing a test complete test deliverables and unclear delivery (e.g., missing a test complete test deliverables and unclear deliver do DLR, test results delivered through the requirements traceability matrix (RTM). There are no defined test management monitoring and control processes. A naming convention of test documentation files is not established for easy retrieval and location. A lack of clarity of DataHouse's testing approach may not allow DLR to appropriately develop their own test plan or ensure testing activities are adequately performed. Additionally, a lack of mutual understanding and inadequate test management processes could impact the execution of testing activities.		Develop adequate test management processes and procedures.	Consider making improvements to the test documentation. Consider a process for monitoring and reporting test status and results. Consider a process for authorization of test data.		07/29/20 and 08/21/20: DataHouse is currently performing various system and integration testing; however, IV&V does not have adequate visibility into DataHouse testing activities or test documentation to provide an assessment. 09/28/20: DUR plans to clarify the testing that DataHouse will be performing for Content Management in order to develop their own test plan. 10/23/20: No updates to report. 11/24/20: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate). DataHouse met with DUR to clarify test plans and testing roles and responsibilities. DataHouse also made some updates to the test plan draft. Additional clarification and improvements of test processes is still needed as well as DUR approval of the test plan. 12/23/20: DUR encountered performance and other technical issues while performing Phase 1 Content Management UAT which prevented DUR from bringing on additional testers (2020, 12.IT01). These technical issues may indicate problems with the effectiveness of DataHouse test porcesses or the need to further clarify DataHouse test scope and responsibilities. 01/26/21 and 02/23/21: No updates to report. Accuity will continue to evaluate test plans and test processes.		
ata Conversion 2019.11.IT01	01 Risk	Moderate	Moderate	Unclear data conversion plans and processes may reduce DLIR's ability to prepare for proper data conversion.	The Content Management Conversion and Migration (version 1.2 pending DLR approval) and Case Management Conversion and Migration (version 1.1 pending DLR approval) describe the data conversion process and responsibilities between DataHouse and DLR. DLR is responsibile for performing UAT on the data and ultimately signing off on the final recondition reports but has not yet formalized plans for these tasks. The data conversion process and activities, tools, reports, risks and issues, and testing. As such, DLR is unable to properly prepare for their part in the process and will not be able to adjust their data conversion test plans for maximum efficiency. Additionally, DLR has not finalized plans for scanning current paper files to ensure necessary data quality to support system use at go-live. The IV&V recommendations made at 2019.07.PM02.R3 and 2019.07.PM02.R3 and 2019.07.PM02.R3 and activities.	2019.11.JT01.R2 2019.11.JT01.R3	data conversion process.	 Explain how data conversion tools perform validation and reconciliation steps and share available reports and logs. Explain the process for how the data conversion plans will be updated for changes in system requirements. Provide datals on timing, number of data extractions and tests to be performed, and necessary remapping of data. Focus DLIR tests to address identified data conversion risks and issues. Estimate data conversion test resource needs and ensure adequate resources are identified, rank data data develuel (refer to findings 2019.09.PM02 and 2019.07.PM14). Evaluate the impact on operations and project success of different data conversion scanning approach options. Estimate scanning time requirements and begin to schedule or acquire necessary resources (refer to findings 2019.09.PM02 and 2019.07.PM14). 	-	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. OT/29/20: The Content Management data conversion plan v1.4 was updated for one of the recent Content Management charge requests. IV&V does not have adequate visibility of data conversion activities to assess the progress or approach for data conversion activities to assess the progress or approach for data conversion activities to assess the DLR have an entity of the Content Management data conversion processes and the DLR data conversion processes and the DLR data conversion processes and the DLR data validation testing. DataHouse alot the Management data validation testing scheduled for September 2020. 09/28/20: DataHouse claified the Phase 1 Content Management data conversion processes and the expectations for DLR data validation testing. DataHouse also trained DLR data validation tests to use the Content Management data conversion processes would be the same. IV&V will continue to track the claification of the timing of data extraction and validation cycles under the 2019.07.PM13 schedule finding. DLR still does not have a clear plan for Phase 1 Case Management manual file conversion. DataHouse offered an option for providing data conversion resources to the project that DLR plans to further explore in October 2020. 10/23/20: DataHouse updated the Content Management taxonomy for the Epic 3 build. DLR is still exploring options for paper file conversion. 11/24/20 and 12/23/20: No updates to report. 01/26/21: Accuity reopened the 2019.11.1101.R2 recommendation as DLR has questions regarding the data conversion processes from Phase 1 A Content Management. DLR and DataHouse plan to schedule ameting to discuss the data mapping and options for conversion. 20/23/21: No updates to report. 20/23/21: No updates to report.		

ASSESSMENT			ORIGINAL	CURRENT						FINDING	
CATEGORY Scope and	FINDING ID 2019.10.PM0	TYPE 1 Risk	SEVERITY	SEVERITY	FINDING The current RTM documentation and	ANALYSIS Added complexity to requirements traceability is due to the current	RECOMMENDATION ID 2019.10.PM01.R1	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION Trace contract requirements to requirements subsets used by the	STATUS Open	FINDING STATUS UPDATE CLOSED DATE CLOSURE REASON Refer to the June 2020 IV&V Monthly Report for status updates prior to July
Scope and Requirements Management	2019.10.FM0	ji rkisk	nign	mign	The current RT M documentation and tool may hinder traceability, which may impact the ability to ensure the overall eCMS solution fulfills all requirements and provides context and expectations for design, development, and testing.	Addee complexity to requirements traceability is due to the current requirements management process. Requirements documentation was developed separate from the DataHouse contract requirements and more detailed requirements were developed by the Content Management and Case Management development teams to use for development. As a result, there is duplication of requirements in the RTM which will likely impede traceability to requirements throughout the life of the project. DataHouse made incremental improvements to the RTM. The requirements documentation were traced to the use cases used by the Content Management development team or user stories used by the Case Management development team. DataHouse contract requirements were also added to the RTM but have not yet been traced to the requirements used for development. Requirements are not currently traced to project objectives and success metrics to ensure requirements ad business value or to acceptance criteria to ensure stakeholder satisfaction. Additionally, the RTM is maintained in Microsoft Excel which limits version-control,		improve requirements traceability.	 Trace contract requirements to requirements subsets used by the development terms to ensure completeness. Consider identifying high-level requirements that duplicate more detailed requirements to reduce redundancy in traceability to design and testing. Trace requirements to the project objectives success metrics (refer to finding 2019.07.PG05) to ensure each approved requirement adds business value. Add acceptance criteria to the RTM to ensure stakeholder satisfaction. Consider use of a requirements management tool with greater functionality. 		2020. 07/29/20: IV&V Monthly Report for status updates prior to July progress made in the current month. 08/21/20 and 09/28/20: DataHouse is reviewing contract requirements during the Phase 2 requirements gathering sessions. IV&V does not have access to an updated RTM. 10/23/20: DataHouse updated the RTM with the Phase 1 Content and Case Management revised requirements and user stories. No significant improvements or changes made to craceability. 11/24/20: DataHouse provided some additional clarification regarding the traceability of Phase 1 requirements to other documents and testing results.
						efficient collaboration and review, and integration with testing.					12/23/20, 01/26/21, and 02/23/21: No updates to report. Accuity will evaluate the RTM as improvements are made.
Quality	2019.10.IT01	Issue	Moderate	High	Lack of approved test plans may impact	According to the Project Management Plan (version 1.3), the DataHouse	2019.10.IT01.R1	Finalize the test plan.	 Identify applicable test standards and requirements. 	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July
Management and Testing					the execution and quality of test activities and documentation.	test plan was scheduled for completion on September 3, 2019. Due to the need to focus resources on the AWS setup and network connections, DataHouse is now targeting to complete the test plan in November 2019. DUR planned to complete the DLR test plan in October 2019. Due to resource constraints and the need to work on other DLR Tinitiatives, the DUR test plan expected completion date was revised to November 2019 and the plan may be combined with the DataHouse test plan. As DataHouse test activities are scheduled to begin in November 2019, DLR needs to understand DataHouse's test strategy and test needs. DLR also needs to establish their own test strategy as well as identify, train, and schedule DLR test resources.			 Delineate roles and responsibilities between DataHouse and DLIR (refer to finding 2019.07.PM02). Estimate test resource needs and ensure adequate resources are identified, trained, and scheduled (refer to findings 2019.09.PM02 and 2019.07.PM14). 		2020. Refer also to the DataHouse Test Plan finding 2020.02.IT01. 07/29/20 and 08/21/20: DUR's lite UAT review of Epic 2 and 3 builds is still on-going. W&V does not have adequate visibility of the DUR SME review to report the progress or assess the effectiveness of the DUR SME review to report the progress or assess the effectiveness of the testing as DUR indicated that they will continue their review. IV&V does not have adequate visibility of DUR resting activities or documentation to fully assess methodologies, completeness, or progress. DUR plans to clarify the testing that DataHouse will be performing and the test documentation DataHouse will be providing in order to develop DUR's own test plan. 10/23/20: DUR made revisions to their draft test plan but the plan is still pending finalization. DUR also drafted a preliminary testing and cutover checklist. With Phase 1 Content Management UAT scheduled to begin at the end of October 2020 and with go-live scheduled for the end of November 2020, it is critical that DUR finalizes their testing approach, test templates, and test resources. 11/24/20: DUR made additional revisions to their draft test plan but is behind on drafting Phase 1 Content Management and Case Management test cases. 12/23/20: Accuity changed this finding from a risk to an issue as the lack of formal test plan and processes is impacting Phase 1 Content Management UAT execution (2020: 12,1T01). DUR was not able to sufficiently prepare test cases prior to UAT lickoff, festing is generally ost formall vocumented, and adequate testing resources were not adequately secured or trained. It is also unclear what DUR's processes are for assessing test coverage, performing gregession testing, monitoring testing activities, or evaluating resolution of test issue/defects. Adequate testing is critical to ensure that quality and overall project success goals are satisfied and verified prior to system acceptance and production. 01/26/21 and 02/23/21: DUR plans to procure additional t
Security	2019.10.IT02	? Risk	High	High	Lack of formalized security policies and procedures may impact the security and privacy of the data and may lead to project delays.	DUR currently does not have formal security policies to determine security requirements for the eCMS Project and does not have security procedures in place to adequately protect eCMS Project data. The lack of policies primarily impacts the completion of the AWS setup and the Content Management solution component. Security requirements for the cloud environment must be determined and controls implemented before the AWS environments can be used for planned data conversion and testing activities are to begin in November 2019. The development of formalized policies will also impact the application security management plan and design that DataHouse is responsible for (refer to finding 2019.07.1107). Security policies and the resulting security requirements should be determined immediately to prevent further delay of the project.	2019.10.IT02.R2	Formalize security policies.	•Work with ETS to align DLIR policies with State policies and/or a standard security framework. •Consider prioritizing security policies that are most relevant for use of cloud services and data protection (e.g., security logging and monitoring, MFA, remote access, encryption of data-at-rest and data-in- transit) •Clarify roles and responsibilities for security controls between DLIR and ETS. •Identify specific resources to perform security procedures. •Consider prioritizing security procedures that are necessary for the operation of the AWS environments.	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: The review of the draft security policies is still on hold due to unavailability of DLIR project resources. 08/21/20 and 09/28/20: DLIR and ETS discussed security frameworks and possible options for formalizing security policies and procedures. 10/23/20: ETS plans to provide drafts of security policies and standards to DLIR in early November 2020. 11/24/20 and 12/23/20: ETS is still making revisions to draft standards. 01/26/21 and 02/23/21: No updates to report. Accuity will evaluate the security policies, requirements, and procedures as they are finalized.

ASSESSMENT ORIGIN CATEGORY FINDING ID TYPE SEVER	INAL CUP	RRENT		ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE		CLOSURE REASON
CATEORY FINDING ID TYPE SEVER Project 2019.09.PM01 Issue Moder Organization and Management	RITY SEV erate Hig		rrocess was not followed as prescribed.	management process that includes Change Requests, impact assessments, and a Change Log. The change to AWS (refer to finding 2019.07.1701 in Appendix ID) and the revision of the Content Management go-live date were approved by DUR but not documented in Change Requests or a Change of the data such the second se		ECOMMENDATION Document changes in Change Requests, with an impact assessment, and the Change Log in accordance with the Project Management Plan. Refine the change management process for greater clarity and effectiveness.	Consider setting thresholds or criteria for changes that go through different approval processes. Define the different approval processes (e.g., project manager, product owners, change control board, steering committee). Implement additional columns in the Change Log to ensure updates are made to all impacted project plans, documents, or deliverables and changes are communicated to all impacted stakeholders.	STATUS Open	ENDING STATUS UPDATE Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20, 08/21/20, and 09/28/20: No updates to report. 10/23/20: The change request to document the major change to the Content Management hosting solution from DHS FileNet environments to AVVS is still pending. All Content Management related change requests should be finalized as a part of DLIR acceptance in November 2020. 11/24/20: DataHouse and DLIR finalized the AWS change request. Major revisions to the Content Management go-live date continue to be approved by DLIR but not in formal change requests with documented impact analyses. 12/23/20 and 01/26/21: No updates to report. 02/23/21: The extension of the Phase 1 Case Management go-live date to October 2021 was approved by DLIR but not in a formal change request with a documented impact analysis. DataHouse in DataHouse in Audioinc ofter Phase 1 Content Vision 1000000000000000000000000000000000000	CLOSED DATE	CLOSURE REASON
Cost, Schedule and 2019.09.PM02 Risk Prelim	m Hig		Jndefined resource management	This was originally reported in the September 2019 IV&V Monthly Report	2019.09.PM02.R1	Develop procedures to estimate	•Detail necessary steps and information needed to estimate and refine	Open	a documented impact analysis. DataHouse is holding other Phase 1 Content Management related change requests due to possible revisions resulting from the upcoming Content Management decision. Accuity will review the change requests as they are finalized and evaluate improvements to the Change Log. Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Resource Management		p u ir	inidentified resources or project nadequate resources, or project esources that are not optimally utilized. Updated)	as a preliminary concern but is upgraded to a risk in this report. The Project Management Plan (version 1.3) includes a human resource management section that outlines the high-level roles and responsibilities of various team members but does not define a process for how resources gens up for more resource demanding activities including data conversion, testing, and sprint reviews. Additionally, DUR project team resources are not fully dedicated to the project and still perform other job dutes. Developing processes and procedures to track and quantify upcoming resource needs, idently available resources, procure or obtain commitments of resources, manage resource schedules, communicate with assigned resources and train resources for assigned tasks will help to minimize project delays. DUR developed a rough estimate of hours to perform scanning and data entry of Case Management paper files but more precise estimates based on a trialr und sample cases and a decision on what cases must be converted by go-live is needed (refer also to finding 2019;11.1101). Additionally, DUR needs to perform an analysis to determine how many resources and be acquired with budgeted funds and whether those acquired resources will be able to complete necessary data conversion activities by the targeted go-live. DLIR has not yet completed a test plan (refer to finding 2019;10.1101), estimated resource requirements for testing, or formalized a plan for scheduling testers. The IV&V recommendations made at 2019;07.PM14.R1 and 2019;07.PM14.R2 regarding evaluating resource needs and resource reports will also address this finding. Below are additional recommendations to further improve data conversion plans and activities.	2019.09.PM02.R2	and refine DLR resource requirements. Develop processes to optimize utilization of DLR project resources	resources requirements. •Consult DataHouse for input on upcoming activities that require DLIR resources and clarify expectations of resources. •Assign responsibility for and establish target due dates to develop resources estimates for major project activities (e.g., data conversion, testing). •Consider working with managers of project resources to reassign team members' other job duties. •Consider periodically reconfirming and renewing resource commitments to the project. •Ensure team members understand their responsibilities (e.g., testing, spint user story contact, project communications, OCM) and assignments. •Ensure team members are properly trained and prepared to perform their assignments. •Explore use of tools for resource calendars and tracking of team member assignment progress and completion.		2020. 07/29/20: DataHouse's revisions to the project schedule for Phase 1 tasks were tentatively approved by DLIR; however, details of resource requirements for Phase 2 work were not provided. State resources need a clear understanding of upcoming project activities and sufficient lead time to adequately prepare for and complete project tasks. 08/21/20: The necessary DLIR SMEs were able to participate in the Phase 2 requirements gathering sessions. With Phase 1 and Phase 2 activities to begin occurring simultaneously, improved resource management processes are needed to interly coordinate, assess capacity, and make adjustments within DLIR project resource constraints. 09/28/20: The necessary DLIR SMEs were able to participate in both Phase 1 and Phase 2 project activities; however, it is unclear if DLIR SMEs had adequate time to perform the Phase 1 Case Management review. As Phase 1 and Phase 2 project activities; nowever, it is unclear if DLIR SMEs had adequate time to perform the Phase 1 Case Management review. As Phase 1 and Phase 2 activities are scheduled to occur simultaneously through June 1 2021, improved resource management processes are needed to maintain the current project pace as well as timely coordinate, assess capacity, manage workloads, and make adjustments within DLIR project resource constraints. 10/23/20: DLIR project resources capacity to perform project work is preventing the timely completion of some tasks. Effective resources management is key to minimizing further project delays. 11/24/20: Limited availability of DLIR project resources inpacts their ability to timely complete and be fully engaged in project work including reviewing and providing feedback on the system build. DLIR and DataHouse are planning to schedule additional meetings to provide a more structured schedule for DLIR project resources to perform system reviews and to increase engagement in the project. 12/23/20: Resource management may be impacting Phase 1 Content Management UAT execution (

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ASSESSMENT		TYPE	ORIGINAL	CURRENT	ENDING			RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING		
System Software,	2019.09.IT02	Risk	Prelim	Moderate	Unclear M&O roles and responsibilities	This was originally reported in the September 2019 IV&V Monthly Report	2019 09 IT02 PL	Clarify M&O roles and	Discuss terms of DataHouse support option to understand level of	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	CLOSED DATE CLOSORE REASON
Hardware and	2017.07.1102	T CLOIC		moderate	may impact operational readiness after	as a preliminary concern but is upgraded to a risk in this report. The M&O		responsibilities.	support, cost structure, and timing of transition.	open	2020.	
Integrations					transition. (Updated)	roles and responsibilities and plans for developing support processes and			•Clarify any shared responsibility with ETS and enterprise tools that can			
						procedures are currently unclear. DLIR is considering executing a support			be leveraged.		07/29/20: This was changed to a risk in the July 2020 IV&V Monthly Report.	
						option in their contract with DataHouse to help with M&O after go-live as						
						it is uncertain if DLIR EDPSO will have adequate resources to perform					08/21/20: DLIR began clarifying responsibility and enterprise tools with ETS	
						required M&O. The COVID-19 pandemic (refer to finding 2020.03.PM01)					and plans to begin discussions with DataHouse in September 2020.	
						further exacerbates and creates additional uncertainty with regards to						
						DLIR EDPSO and ETS resources. The roles and responsibilities within the					09/28/20: DLIR drafted a M&O assumptions template that DataHouse	
						DLIR EDPSO team and any shared responsibilities with ETS and					reviewed and agreed to. IV&V recommends that DLIR formalize the agreed	
						DataHouse need to be clarified. This will help to quantify eCMS M&O					upon roles and responsibilities in writing with DataHouse and ETS.	
						resource requirements (refer to finding 2019.09.PM02) and either identify resources within the existing DLIR EDPSO team or acquire the necessary					10/23/20: No updates to report.	
						resources (2019.07.PM14). This should be done with sufficient time for					10/23/20. No updates to report.	
						training and knowledge transfer so that M&O resources are in place at go-					11/24/20: DLIR began to draft a RACI chart to outline roles and	
						live. Clarifying M&O roles and responsibilities will also help to develop					responsibilities for some security M&O tasks.	
						the related security management plan (refer to finding 2019.07.IT07).						
											12/23/20, 01/26/21, and 02/23/21: No updates to report.	
											Accuity will continue to evaluate M&O as roles and responsibilities are	
											clarified.	
Data Conversion	2019.09.IT03	Risk	Prelim	Low	Unsupported IBM Lotus Notes Domino	This was originally reported in the September 2019 IV&V Monthly Report	2010 00 ITO2 PI	Explore options for obtaining	 Consider working with ETS or other State agencies still using Lotus 	Oper	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	
Data Conversion	2019.09.1103	KISK	rreim	LOW	Case Management may impact the	as a preliminary concern but is upgraded to a risk in this report. The	2017.09.1103.RI	Explore options for obtaining support.	 Consider working with ETS or other State agencies still using Lotus Notes to get vendor approved and support contract in place. 	Open	2020. 2020 IV&V Monthly Report for status updates prior to July	
					execution of data conversion activities.	current case management system, IBM Lotus Notes Domino, is no longer		Support	notes to get vendor approved and support contract in place.			
					(Updated)	supported. The product was sold by IBM to HCL Technologies, an Indian					07/29/20: This was changed to a risk in the July 2020 IV&V Monthly Report.	
						IT company. DLIR's licenses for the product ended in June 2019 and DLIR					, , , , , , , , , , , , , , , , , , ,	
						is unable to renew the licenses as HCL Technologies is not a State					08/21/20, 09/28/20, 10/23/20, 11/24/20, 12/23/20, 01/26/21, and 02/23/21:	
						Procurement Office (SPO) compliant vendor. This system will be replaced					No updates to report.	
						by the eCMS Case Management solution which was scheduled to go-live						
						in November 2020 but this was tentatively pushed back to June 2021.					Accuity will continue to monitor this preliminary concern.	
						Any major issues with the current system may impact the data conversion						
						process leading up to the go-live date and potentially the overall system						
						development.						
Benefits Realization	2019.07.PG05	i Risk	High	Moderate		The eCMS Project does not have a project charter that would have helped	2019.07.PG05.R1	Formalize measurable goals and	 Consider financial, nonfinancial, tangible, and intangible metrics such as 	open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	
						to formalize the project goals, target benefits, and success metrics at the		success metrics in a project charter.	operational Key Performance Indicators (KPIs), customer or employee		2020.	
					evaluate project and contractor	start of the project. Based on informal recommendations made by Team			satisfaction, user adoption, return on investment, or cycle or processing			
	1				performance may reduce benefits	Accuity during the initial IV&V on-site review, DLIR is in the process of			times.	1	07/29/20 and 08/21/20: Progress on the success metrics stalled due to	
	1				expected at project completion.	creating a project charter that includes clear goals and success metrics. The lack of clear and measurable goals and success metrics makes it			 Consider project management, organizational change management, and benefits realization management objectives as well as alignment to 	1	shifting priorities and changes in DLIR project resources.	
	1					difficult to determine if the project and technical solution will achieve the			DLIR goals.	1	09/28/20: DLIR updated success metric goals and plans for collecting	
	1					desired level of improvement or benefits that justify the project's financial	2019 07 PG05 P2	Collect baseline and project	Consider methods for collecting data such as surveys, queries,	4	baseline success metric data. DLIR presented the updated metrics at the	
	1					investment. Goals and success metrics need to be defined before going	2017.07.F003.N2	performance data.	 Consider methods for collecting data such as surveys, queries, observation, open forums, or actual performance testing. 	1	weekly project managers meeting but should also share and periodically	
	1					any further in the project as they should be guiding all key decisions		perioritance data.	 Consider sources of data such as legacy systems, operations, and 	1	remind all eCMS Project team members of the success metrics to help align	
	1					throughout the entire project.			internal and external stakeholders.	1	project decisions and discussions (e.g., requirements gathering) with project	
	1						2019.07.PG05.R3	Use performance data to monitor or		4	goals.	
							2017.07.1 003.N3	evaluate project or contractor		1		
	1							performance.		1	10/23/20, 11/24/20, and 12/23/20: No updates to report.	
	1									1		
	1									1	01/26/21: DLIR drafted a couple surveys to use for collecting stakeholder	
	1									1	feedback.	
	1									1	02/23/21: Accuity reopened the 2019.07.PG05.R1 recommendation as	
	1									1	project success metrics need to be reevaluated to take into consideration the	
	1									1	current project status and to focus on what can be realistically achieved in the	
	1									1	remaining project timeline.	
	1									1		
1	1									1	Accuity will continue to evaluate the collection and monitoring of success	
	1									1	metrics data.	
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ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	FINDING STATUS UPDATE CLOSED DATE C	CLOSURE REASON
Project	2019.07.PM02	Risk	High	Moderate	The current project management	The eCMS Project has failed to achieve team synergy between DLIR and	2019.07.PM02.R1	Clarify roles and responsibilities	 Consider revising project management plans to identify the person 	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	
Organization and					organization may hinder project	DataHouse project team members and appear to work as separate teams		between DLIR and DataHouse.	responsible and list specific responsibilities for each project management	t	2020.	
Management					performance.	instead of one. DataHouse works almost exclusively off-site except for designated meetings, workshops, and design sessions and DLIR is not			area. •Consider the need to include an outline of DLIR and DataHouse roles		07/29/20: The DLIR Project Manager returned to the project on a part-time	
						included in many project design or development activities. The unclear			and responsibilities in a contract modification (refer to finding		basis and is resuming weekly project status meetings.	
						contract terms regarding roles and responsibilities between DLIR and			2019.07.PG03).		basis and is resulting weakly project status meetings.	
						DataHouse (refer to finding 2019.07.PG03), physical separation of the					08/21/20: The DLIR Project Manager returned to full-time status on the	
						project team, and limited collaboration or DLIR involvement have all					project and began resuming more standing DLIR meetings as well as	
						contributed to the siloed workstreams. This has also led to ineffective communications within the project team (refer to finding 2019.07.PM06).	2019.07.PM02.R2	The DataHouse Project Manager should work onsite at DLIR through			scheduling additional meetings to make progress in critical areas of the	
						communications within the project team (refer to finding 2017.07.11W06).		project completion to improve DLIR			project.	
								and DataHouse project team			09/28/20: The weekly Scrum standup meetings for Phase 1 Case	
								cohesion.			Management and internal DLIR weekly risk and test meetings resumed.	
											Periodic Content Management check-in meetings previously discussed are still	
											on hold. DLIR, DataHouse, and ETS made progress to clarify M&O as roles and responsibilities. Further clarification of testing roles and responsibilities is	
							2019.07.PM02.R3	Include DLIR in project activities and			still needed.	
								communications to increase DLIR				
								and DataHouse project team cohesion.			10/23/20: Regular meetings were scheduled to improve collaboration with	
											Phase 1 Content Management and electronic submission pilot group	
											stakeholders.	
											11/24/20: Weekly meetings with electronic submission pilot group	
											stakeholders continued; however, the planned Phase 1 Content Management	
											daily standup meetings between DLIR and DataHouse were postponed to	
											begin in December 2020 due to changes in the go-live timeline. DLIR and	
											DataHouse made progress to clarify testing roles and responsibilities.	
											12/23/20: The additional recurring Content Management and Case	
											Management meetings helped to improve collaboration between DLIR and	
											DataHouse.	
											01/26/21: Recurring Content Management and Case Management meetings between DLIR and DataHouse during December 2020 did not continue	
											regularly during the current month.	
											02/23/21: Accuity reopened the 2019.07.PM02.R3 recommendation as	
											minimal meetings between DLIR and DataHouse are occurring.	
											Accuity will continue to evaluate the clarity of roles and responsibilities and	
											observe the effectiveness of project organization.	
-					-							
Project Organization and	2019.07.PM03	Issue	Moderate	High	The current deliverable review and acceptance process has contributed to	DataHouse prepares project deliverables and submits to DLIR for review. As DLIR has had limited involvement in project activities or the	2019.07.PM03.R1	Establish deliverable acceptance	Consider including acceptance criteria in the quality management plan		Refer to the June 2020 IV&V Monthly Report for status updates prior to July	
Management									(refer to finding 2019 07 IT05) in a contract amondment (refer to finding			
0					project delays and resulted in the	preparation of deliverables (refer to finding 2019.07.PM02), DLIR does not		criteria.	(refer to finding 2019.07.IT05), in a contract amendment (refer to finding 2019.07.PG03), or in Deliverable Expectation Documents (DED).		2020.	
										_	2020. 07/29/20: DLIR, with the assistance of ETS, timely reviewed and approved	
					project delays and resulted in the	preparation of deliverables (refer to finding 2019.07.PM02), DLIR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables.	2019.07.PM03.R2	criteria. Hold joint DLIR and DataHouse deliverable review meetings to walk		_	07/29/20: DUR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLIR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables		Hold joint DLIR and DataHouse		_	07/29/20: DLIR, with the assistance of ETS, timely reviewed and approved	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.07.PM10). A		Hold joint DLIR and DataHouse deliverable review meetings to walk through deliverables.	2019.07.PG03), or in Deliverable Expectation Documents (DED).	_	07/29/20: DLIR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review.	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.07.PM10). lack of a clear deliverable listing or acceptance criteria (refer to finding	2019.07.PM03.R2	Hold joint DLIR and DataHouse deliverable review meetings to walk		_	07/29/20: DLR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review. 08/21/20: DLR completed their review of DataHouse's AWS Environment	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.07.PM10). A lack of a clear deliverable listing or acceptance criteria (refer to finding 2019.07.PG03), a lack of a quality management process and resource to verify deliverables (refer to finding 2019.07.17.05), and over tasked project	2019.07.PM03.R2 2019.07.PM03.R3	Hold joint DLIR and DataHouse deliverable review meetings to walk through deliverables. Implement formal deliverable	2019.07.PG03), or in Deliverable Expectation Documents (DED). Include both the scope validation process for acceptance and the quality control process for correctness (refer to finding 2019.07.IT.05). Include an evaluation of deliverables against acceptance criteria and	-	07/29/20: DLR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review. 08/21/20: DLR completed their review of DataHouse's AWS Environment Design document.	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLIR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.07.PM10). A lack of a clear deliverable listing or acceptance criteria (refer to finding 2019.07.PG03), a lack of a quality management process and resource to verify deliverables (refer to finding 2019.07.IT05), and over tasked project managers (refer to finding 2019.07.PM14) also contribute to an ineffective	2019.07.PM03.R2 2019.07.PM03.R3	Hold joint DLIR and DataHouse deliverable review meetings to walk through deliverables. Implement formal deliverable	2019.07.PG03), or in Deliverable Expectation Documents (DED). Include both the scope validation process for acceptance and the quality control process for correctness (refer to finding 2019.07.IT.05). Include an evaluation of deliverables against acceptance criteria and requirements documentation.	-	07/29/20: DLIR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review. 08/21/20: DLIR completed their review of DataHouse's AWS Environment Design document. 09/28/20: With several key Phase 1 Content Management deliverables	
					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019.07.PM02), DLR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.07.PM10). A lack of a clear deliverables listing or acceptance criteria (refer to finding 2019.07.PG03), a lack of a quality management process and resource to verify deliverables (refer to finding 2019.07.IT05), and over tasked project managers (refer to finding 2019.07.IT05), and over tasked project managers (refer to finding 2019.07.IT05), the delay in the approval of	2019.07.PM03.R2 2019.07.PM03.R3	Hold joint DLIR and DataHouse deliverable review meetings to walk through deliverables. Implement formal deliverable	2019.07.PG03), or in Deliverable Expectation Documents (DED). Include both the scope validation process for acceptance and the quality control process for correctness (refer to finding 2019.07.IT.05). Include an evaluation of deliverables against acceptance criteria and requirements documentation DLR should understand how each deliverable impacts the project	-	07/29/20: DLR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review. 08/21/20: DLR completed their review of DataHouse's AWS Environment Design document. 09/28/20: With several key Phase 1 Content Management deliverables scheduled to be delivered over the next two months, DLIR needs to establish	
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					project delays and resulted in the acceptance of deliverables that do not	preparation of deliverables (refer to finding 2019 0.7 PM02), DLR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019.0.7 PM10). A lack of a clear deliverable listing or acceptance criteria (refer to finding 2019.0.7 PG03), a lack of a quality management process and resource to verify deliverables (refer to finding 2019.0.7 INS), and over tasked project managers (refer to finding 2019.0.7 INM1) also contribute to an ineffective deliverable review and acceptance process. The delay in the approval of deliverables has been cited by the eCMS Project team as one of the reasons the Phase 1 polive dates were extended. Based on informal IV&V recommendations, DataHouse and DLR started to implement joint	2019.07.PM03.R2 2019.07.PM03.R3	Hold joint DLIR and DataHouse deliverable review meetings to walk through deliverables. Implement formal deliverable	2019.07.PG03), or in Deliverable Expectation Documents (DED). Include both the scope validation process for acceptance and the uality control process for correctness (refer to finding 2019.07.IT.05). Include an evaluation of deliverables against acceptance criteria and requirements documentation. DLIR should understand how each deliverable impacts the project schedule, roles and responsibilities, and ultimately the quality of the		 07/29/20: DLR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review. 08/21/20: DLR completed their review of DataHouse's AWS Environment Design document. 09/28/20: With several key Phase 1 Content Management deliverables scheduled to be delivered over the next two months, DLR needs to establish acceptance criteria and scope validation and quality control processes as a part of deliverable review and acceptance. See also related finding 2020.09.1101. 10/23/20: DLR reviewed and approved the recent Phase 1 Content Management Training Guide deliverables. A deliverable walk through meeting was not held and NWS does not have adequate visibility to DLR's review and acceptance process. DLR's review of the DataHouse Test Plan deliverable is still pending. 11/24/20: DLR and DataHouse met to walkthrough the pending DataHouse Test Plan deliverable. It au clear what DLR's acceptance criteria and review what DataHouse meeting was not beld and NWS deliverables. 12/23/20: NUR and DataHouse met to walk through the Phase 2 requirements deliverable. It is unclear what DLR's acceptance criteria and review process for this deliverable are. 02/23/21: A number of DataHouse deliverables are pending DLR review and acceptance activities. The DLR Project activities. The DLR Project Manager is overtasked without sufficient other project resources to share in project work which has delayed deliverable reviews. 	

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
ASSESSMENT CATEGORY Communication Management	FINDING ID 2019.07.PM	TYPE O66 Issue	ORIGINAL SEVERITY High	CURRENT SEVERITY Moderate	ENDING DataHouse's ineffective and untimely communications with the DLIR's incomplete understanding of the technical solution, potential risks, and upcoming project activities.	ANALYSIS Communication activities listed in the Project Management Plan (version 1.0) did not occur as planned as the weekly project status meetings did not begin until April 2019 and the first progress report was not completed until February 2019. Despite the commencement of regular project communications, misunderstandings and miscommunications between the DataHouse and DUR project teams continued to occur. DUR project team members had a piecemeal understanding of the technical solution (refer to finding 2019.07.IT02) and project risks and issues (refer to finding 2019.07.PM02). Additionally, information regarding upcoming project activities was not provided timely. For example, DataHouse did not timely communicate to DUR what to expect for the design stage assosing (e.g., what would be covered each day, which end users needed to participate). There has also been a lack of communications regarding the upcoming build stage activities (refer to finding 2019:07.PM02.R2 and 2019.07.PM02.R3 regarding DataHouse working on-site and including DUR in project activities will also address this finding. Below are additional recommendations to further improve project team communications.		RECOMMENDATION Implement daily touch point meetings between DataHouse and DUR Project Managers.	SUPPLEMENTAL RECOMMENDATION	HINDING STATUS STATUS Open	ENDING STATUS UPDATE Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: The DLIR Project Manager returned to the project on a part-time basis and is resuming weekly project status meetings. 08/21/20: The DLIR Project Manager returned to full-time status on the project and began resuming more standing DLIR meetings; however, it is unclear when DLIR and DataHouse joint standing meetings will resume. The DLIR Project Manager returned to full-time status on the project and began resuming more standing DLIR meetings; however, it is unclear when DLIR and DataHouse joint standing meetings will resume. The DLIR Project Manager returned to full-time status on the DLIR Project Manager did schedule some additional meetings between DataHouse and DLIR for critical project areas. 09/28/20: The weekly Scrum standup meetings for Phase 1 Case Management resumed but periodic Content Management check-in meetings previously discussed are still on hold. With many Phase 1 Content Management adtivites scheduled over the next two month, effective and timely communications are eneeded for smooth project execution. 10/23/20: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate). Regular meetings for Phase 1 Content Management and electronic submission were scheduled and other standing project meetings are continuing to occur. 11/24/20: The planned Phase 1 Content Management and Case Management meetings helped to improve collaboration between DLIR and DataHouse were postponed to begin in December 2020 due to changes in the go-live timeline. 12/23/21: The additional recurring Content Management and Case Management solution to help the integrated Case Management soluto		CLOSURE REASON
	2019.07.PM	07 Risk	Moderate	Moderate	The lack of tailored project	Communications management is a part of the Project Management Plan developed by DataHouse; however, the plan is not comprehensive and	2019.07.PM07.R1	Further refine communication	 Segment stakeholders into groups by communication needs such as by denartment unit (e.g., Hearings, Enforcement, or Records and Claims) by 		02/23/21: Minimal meetings between DUR and DataHouse are occurring. Accuity will continue to evaluate the effectiveness of these project communication channels. Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020		
Management					communications for all impacted stakeholder may reduce user adoption and stakeholder buy-in.			management plans.	department unit (e.g., Hearings, Enforcement, or Records and Claims), by position (e.g., manager, supervisor), or internal and external (e.g., claimants, insurance agencies). •Consider the list of communication methods listed in DataHouse's BAFO. •Due to limited DUR resources available for communication activities, +be specific groups and communication activities should be prioritized to focus resources most efficiently. •Update the project schedule for communication activities and assigned resources (refer to finding 2019.07.PM14).		 2020. 07/29/20: DLIR made some updates to the project website. 08/21/20: DataHouse and DLIR held an initial meeting with a limited group of external stakeholders and plans to hold periodic update meetings going forward. 09/28/20: DLIR and DataHouse scheduled a follow-up meeting with and plans to hold help desk hours for the electronic submission process external stakeholders. 10/23/20: Improvements in stakeholder communications were made by implementing standing meetings with Phase 1 Content Management and electronic submission pilot group stakeholders. 11/24/20: The planned Phase 1 Content Management daily standup meetings between DLIR and DataHouse were postponed to begin in December 2020 due to changes in the go-live timeline. DLIR and DataHouse are also planning to schedule additional meetings in December 2020 with DLIR project resources to increase engagement and feedback on the system build. 12/23/21. Improvemented communications with pockets of internal and external stakeholders. Increased communications are needed to prepare impacted stakeholders. Accuity will continue to evaluate project communication plans and activities. 		

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE CLOSURE REASON
Organizational Change Management	2019.07.PM08	3 Risk	Moderate	Moderate	Missing key OCM steps or activities may not identify pockets of resistance or adequately enable individual change.	There is no formal OCM plan or approach. DataHouse's BAFO lists various OCM activities but these were not formalized in a plan or processes. There are no COM specific tasks or resources assigned for OCM activities in the project schedule (refer to finding 2019,07.PM14). Although there is no formal or coordinated OCM approach, some elements of OCM occur through regular project management communication and training activities. The DLIR Project Manager's inclusive and collaborative approach with internal stakeholders (refer to finding 2019,07.PM14) and the DCD Executive Sponsor's active and visible support of the project (refer to finding 2019,07.PG01) also mitigates the lack of a formal approach. Although projects may progress without a formal OCM approach, industry best practices support that a structured OCM approach compliments project management approaches in increasing probability of project success. Performing activities with an OCM focus will help to better prepare, equip, and support individuals throughout the project and to ensure that the solution is ultimately adopted and embraced by employees.		Develop and implement a structured OCM approach.	Collect baseline change awareness and readiness measurements through surveys or interviews. Create and mobilize a change coalition group of managers, supervisors and key influencers. Incorporate and align OCM into communication, business process engineering (BPR), and training activities. Develop OCM activities to address identified awareness gaps or pockets of resistance. Implement reinforcement mechanisms to support change and increase adoption.		Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: No updates to report. 09/28/20, 10/23/20, and 11/24/20: Some OCM is occurring again as an indirect result of other project communications and participation in on-going project meetings. 12/23/20 and 01/26/21: Increased OCM is needed to prepare impacted stakeholders for business process changes resulting from the upcoming Phase 1 Content Management go-live (2020.12,PM01). 02/23/21: DLIR implemented recurring OCM meetings in the current month and plans to develop more formal OCM plans and activities. Accuity will continue to evaluate the OCM approach and monitor the change readiness of project stakeholders.	
Risk Management	2019.07.PM09	2 Issue	High	Moderate	identified, tracked, or reported resulting in the lack of understanding of potential	Only three risks and two issues have been identified by DataHouse on the project to date with no history of any risks being closed. DLIR project team was not tracking any of its wow risks or issues related to the project. A risk regarding the delay in the completion of the MOU agreement with DHS (refer to finding 2019/07.PM04 and 20109/07.IT01) was never identified and the risk identified in the Content Management Conversion and Migration (version 0.0) document (refer to finding 2019/07.IT0.4) was not included in the risk and ensues log, indicating an ineffective risk and issue management process. Based on information IV&V recommendation: made during the assessment period, both DLIR and DataHouse have communicated a plan to start identifying and logging risks jointly onto DataHouse's log and reviewing them together weekly. As identification and mitigation of risks and issues are critical to project success, formal process should be implemented before moving forward in the project.	2019.07.PM09.R2	Formalize the Risk and Issue Management process. Conduct regular meetings to discus project risks and issues.	 A formalized process should clearly define responsibilities and steps in identification, resolution and action items tracking, and escalation procedures. The project team must encourage open, transparent discussion about risks and issues. Include DataHouse and DLR and, on occasion, the executive steering committee (refer to finding 2019/07.PG02). Perform a detailed review of new items, status of open items, risk/issue owners, and mitigation plans. 	_	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: No updates to report. 09/28/20: Accuity decreased the severity rating from Level 1 (High/Critical) to Level 2 (Moderate). DLIR resumed weekly risk meetings, prioritized the top three project risks, and began developing remediation or mitingation plans. Additionally, DLIR and DataHouse began discussing prior IV&V findings of risks and issues and scheduled recurring meetings to continue efforts. 10/23/20: DLIR and DataHouse continued regular discussions of risks as well as efforts to address previously identified IV&V risks and issues. 11/24/20: DLIR and DataHouse cid not schedule any follow-up meetings specifically to discuss prior IV&V risks and issues, however, DLIR and DataHouse continued discussions of risks and issues in other recurring meetings. 12/23/20 and 01/26/21: No updates to report. 02/23/21: Accuity reopened the 2019.07.PM09.R2 recommendation as DLIR and DataHouse need to resume supplemental discussions of risks and issues. Increased attention and mitigation of risks and issues are needed, focusing on those with the greatest impact on the project. Accuity will continue to monitor the risk management process.	

			OPIGINIAL	CURRENT						EINDING			
ATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	
cope and	2019.07.PM1	10 Issue	High	High	The Content Management and Case	The requirements for both Content Management and Case Management	2019.07.PM10.R1		•Ensure requirements follow SMART (specific, measurable, actionable,	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
quirements					Management requirements	have already been approved; however, the requirements are incomplete		Case management requirements	realistic and time bound) guidelines.		2020.		
nagement					documentation is incomplete.	(e.g. do not incorporate all contract requirements and all three project phases) and the descriptions in the Requirements Traceability Matrix (RTM)		documentation and RTM.	Ensure requirements documentation include all requirements listed in the DataHouse contract, all requirements identified during the		07/29/20: IV&V did not observe or have access to information to verify any		
						lack sufficient detail. The current RTM also does not link operational and			stakeholder sessions, and for all three phases of the eCMS Project.		progress made in the current month. With requirements gathering sessions		
						project objectives to design artifacts. Furthermore, the RTM does not			 Ensure requirements include functional, performance, process, non- 		scheduled for August, the requirements processes, roles, and responsibilities		
						include non-functional requirements, including compliance with Hawaii			functional, security, and interface requirements.		should be reevaluated and improved to increase efficiency and avoid the		
						Revised Statues, Hawaii Administrative Rules and security requirements.	2019.07.PM10.R2	Improve requirements management	 Ensure that there is a clear understanding between DataHouse and 	-	setbacks and delays experienced in Phase 1.		
							2017:07:1 1110:142	processes.	DLIR regarding who is responsible for identifying and tracking different				
						Requirements management is a part of the Project Management Plan			types of requirements.		08/21/20: DataHouse made improvements to the requirements management processes including real time review of updated workflows and drafted user		
						developed by DataHouse; however, the plan is not comprehensive. The Project Management Plan (version 1.2) was updated to include additional			 Develop a process for prioritizing and reporting requirements. 		stories during the Phase 2 requirements gathering sessions, as well as timely		
						details regarding requirements management. While this is an			 Develop a process for tracing requirements to specific system design 		sharing of draft requirements documentation and meeting notes after		
						improvement over the previous version, the latest draft plan still does not			elements.		sessions for DLIR review and reference.		
						provide adequate details regarding the requirements prioritization							
						process, the traceability structure, and how requirements will be reported.					09/28/20: Draft Phase 2 user stories appear to cover the DLIR business		
											process workflows more completely from start to finish as compared to Phase		
						As requirements are the foundation for proper system design,					1; however, it is unclear how requirements related to work assignment,		
						development, and testing, it is essential that requirements documentation are complete and meet industry standards and best practices.					dashboards, reporting, integrations, forms, and Phase 1 updates will be captured.		
						Requirements documentation should be revised and requirements							
						management processes should be improved prior to moving forward in					10/23/20: The Phase 2 requirements deliverable scheduled for October 2020		
						the project.					is delayed. DataHouse is now targeting November 2020 for completion.		
											11/24/20: DataHouse is now targeting to complete the Phase 2 requirements deliverable in December 2020.		
											deliverable in December 2020.		
											12/23/20: Incomplete requirements documentation is impacting Phase 1		
											Content Management UAT execution (2020.12.IT01). DLIR's UAT has		
											highlighted the lack of adequately documented technical and functional		
											requirements. Additionally, it is unclear how additional or revised		
											requirements raised during UAT will be tracked for consideration in current or		
											future phases.		
											01/26/21 and 02/23/21: Accuity increased the severity rating from Level 2		
											(Moderate) back to Level 1 (High) as the incomplete requirements surfacing		
											during Phase 1 Content Management UAT is impacting the go-live.		
											DataHouse is evaluating new or clarified requirements to estimate additional		
											system development efforts.		
											Accuity will continue to evaluate the requirements documentation and		
											processes.		
, Schedule and	2010 07 PM1	12 100110	High	High	Informal cost management practices ma	y There is no formal cost management plan. A comprehensive total project	2010 07 PM12 P1	Prepare a comprehensive project		Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
urce	2017.07.11	12 Issue	nign	nign	lead to unexpected costs or	budget is not created, tracked, or reported. Currently, payments are	2017.07.11012.11	budget and a schedule of long-term		Open	2020.		
agement					overpayments of contracts.	tracked for the two main eCMS Project contracts: DataHouse SI contract		operational costs (e.g., licenses,			2020.		
0						and the Team Accuity IV&V contract. Other costs for licenses and		subscriptions, maintenance, cloud			07/29/20 and 08/21/20: No updates to report.		
						equipment are tracked informally as these are often paid from DCD's		services).					
						regular or excess funds. With the recent DHS development, costs of all	2019.07.PM12.R2	Prepare regular cost reports for			09/28/20: DLIR and DataHouse are actively monitoring and managing AWS		
						required hardware and software for the alternative solution as well as long- term operational costs need to be properly evaluated and managed (refer	1	management and the executive			environment costs.		
						to finding 2019.07.IT01). Additionally, total project costs and funding		steering committee.			10/23/20 and 11/24/20: DLIR and DataHouse continue to actively manage		
						sources are not formally reported.	2019.07.PM12.R3	Clarify DataHouse payment terms			select project costs. Improvements are still needed to better track and		
								and adjust payment schedules for			monitor all project costs. DataHouse's contract payment schedules were not		
						The DataHouse contract states that payments are contingent upon receipt		schedule delays.			revised for changes in completion of milestones and deliverables resulting in		
						of services, deliverables, and reports in accordance to the milestones that					prepayment of contract funds.		
						meet the expectations of the RFP. DataHouse provided DLIR with a monthly payment schedule and as of June 30, 2019, DLIR has paid					12/23/20: DLIR and DataHouse agreed to a 5% retainer amount to be		
						DataHouse's invoices through April 2019 (May and June 2019 invoice					withheld from DataHouse invoices until final acceptance.		
						payments are still pending). Although the project schedule, deliverable							
						timelines, and go-live dates have been pushed back, no adjustments were					01/26/21 and 02/23/21: No updates to report.		
						made to the monthly payment schedule which could result in							
						overpayments. Due to the lack of clear and specific deliverable					Accuity will continue to monitor project costs, AWS costs (from finding		
						expectations (refer to finding 2019.07.PG03), incomplete understanding of					2019.07.IT01), and cost management practices.		
						all the schedule delays (refer to finding 2019.07.PM13), and undefined criteria for revising the payment schedule, Team Accuity is unable to							
						criteria for revising the payment schedule, Team Accuity is unable to determine if DataHouse payments are appropriately managed.							
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ESSMENT EGORY FINDING ID		SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Schedule and 2019.07.PM13	Issue H	High	High	Inadequate schedule management	The Phase 1 go-live dates were delayed a few times since the start of the	2019.07.PM13.R1	Document and approve revisions to		Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	CEOSES DATE	
irce				practices may lead to project delays,	project with the Content Management go-live delayed five months and		project schedule deliverables,		- (r	2020.		
gement				missed project activities, unrealistic	the Case Management go-live delayed three months. Reasons for the		milestones, and go-live dates in					
3				schedule forecasts, or unidentified	delay provided by the eCMS Project team included additional time for		accordance with the Project			07/29/20: DataHouse's revisions to the project schedule for Phase 1 tasks		
				causes for delays.	requirements gathering, some Phase 2 work that was moved up to Phase		Management Plan.			were tentatively approved by DLIR; however, details of resource requirements		
					1, staff vacations during the holidays, time for the DLIR Project Manager to				_	for Phase 2 work were not provided.		
					write the RFP for the IV&V contract, and delayed procurement of the	2019.07.PM13.R2	Refine the project schedule with			· · · · · · · · · · · · · · · · · · ·		
					scanners. Although there are reasonable explanations for some of the		details of tasks, durations, phases,			08/21/20: A few DataHouse Phase 2 planning tasks are delayed and DLIR		
					delays, detailed schedule variance analyses to understand causes and		and assigned resources.			Phase 1 lite UAT testing completion was postponed again. With Phase 1 and		
					impacts of the delays have not been thoroughly performed, documented,	2019.07.PM13.R3	Prepare regular schedule reports			Phase 2 activities to begin occurring simultaneously, improved schedule		
					or reported. Decisions or change requests to revise the project schedule		and schedule variance analyses for			management processes are needed to timely coordinate, make schedule		
					are not properly documented or approved in accordance with the Project		management and the executive			adjustments, and minimize further delays within DLIR project resource		
					Management Plan.		steering committee.			constraints.		
					DataHouse has prepared a higher-level project schedule and a more					09/28/20: No updates to report.		
					detailed task listing. Although the project schedule will need to be updated due to the recent DHS development and selection of an				1	10/23/20: DLIR project resources' limited capacity to perform project work is		
					alternative solution, the following deficiencies were noted in the current					preventing the timely completion of some tasks and recent technical issues		
					project schedule:					postponed some Phase 1 Content Management activities. DataHouse and		
					* Does not include all project tasks such as Build stage sprints,					DLIR are currently evaluating project schedule impacts. DataHouse has not		
					communication, OCM, BPR, and quality assurance (refer to findings					yet added the detailed tasks for Phase 2 beyond the planning stage and plans		
					2019.07.PM05, 2019.07.PM07, 2019.07.PM08, 2019.07.PM11, and					to add more detailed tasks as more specific project information (e.g., features		
					2019.07.IT05).					number of epics) is determined.		
					* Does not include estimated durations. Durations are only included in the more detailed task listing.					11/24/20: The Phase 1 Content Management go-live on November 25, 2020		
					* Only includes tasks for Phase 1. The Phase 2 and 3 tasks are only					was postponed. DLIR and DataHouse are currently evaluating options for a		
					included in the more detailed task listing.					revised go-live date in early 2021. There are also delays in Phase 2		
					* Specific assigned resources are not identified as only a generic					requirements and select Phase 1 Case Management tasks.		
					DataHouse or DCD designation is used.					12/23/20: Accuity changed this finding from a risk to an issue as schedule		
										management is impacting Phase 1 Content Management UAT execution		
										(2020.12.IT01). Formal tools and processes are not used to manage DLIR		
										testing resources' schedule and tasks and it is unclear what test cases are		
										assigned to which resources and if testers have adequate bandwidth to timely		
										perform testing.		
										01/26/21: The Phase 1 Content Management revised go-live of January 27,		
										2021 was postponed, Phase 1 Case Management go-live is also to be	1	
										extended, and Phase 2 is four months behind schedule. A revised project	1	
										schedule is needed to set a clear path forward. It is critical for DLIR and	1	
										DataHouse to set achievable go-live dates that allow sufficient time to	1	
										perform critical project activities and factors in the capacity of available	1	
										resources.		
										02/23/21: The June 2021 Phase 1 Case Management go-live was extended to		
										October 2021 but may be impacted by the currently unknown Phase 1	1	
										Content Management go-live. Phase 2 schedule revisions are pending and	1	
										detailed tasks are still incomplete. Critical decisions are needed before the	1	
										project schedule can be revised.		
				1			1			1	1	1
										Accuity will continue to monitor the project schedule and schedule		

ASSESSMENT		ORIGINAL	CURRENT						FINDING			
CATEGORY FIN	IDING ID TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Cost, Schedule and 201	19.07.PM14 Issue	Moderate	High	Inadequate assigned project resources		2019.07.PM14.R1		Perform project schedule updates for the alternative solution (refer to	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	1	
Resource			1	may lead to project delays, reduced	project schedule information (refer to finding 2019.07.PM13); however,		and acquire additional resources.	finding 2019.07.IT01) and missing tasks (refer to finding 2019.07.PM13).	1	2020.	1	
Management				project performance, or turnover of project resources.	based on observations of the eCMS Project team, the DataHouse and			 Ensure resource levels and skill sets align to assigned tasks. 		07/20/20, DUB what had a sime of CMEs and Data Using a second shifting		
				project resources.	DLIR Project Managers appear to be over-tasked. The DLIR Project Manager is the only full-time DLIR employee assigned to the eCMS Project	2019.07.PM14.R2		 Consider including resource needs for unassigned tasks or roles. 		07/29/20: DLIR substituted assigned SMEs and DataHouse proposed shifting work in an effort to keep the project moving forward with limited DLIR project		
					and understandably does not have time to perform all of the tasks to		management and the executive	 Consider including DLIR resources needed and estimated hours for 		resources. A few SMEs were able to participate during the current month on		
					properly manage the project or represent DLIR during project activities.		steering committee.	upcoming project activities (e.g., design sessions, user demonstrations,		a limited basis and additional DLIR project resources are expected to have		
					DLIR should increase participation in design and development activities			or user testing).		some availability in the upcoming months as DCD employees are slowly		
					(refer to finding 2019.07.PM02) but would not be able to with the current					transitioned back from the UI Division. A detailed plan of resources needed,		
					assigned resources.					estimated hours, and dates is needed (2019.07.PM13) to ensure the new plan		
										is feasible with the available options. Additionally, DLIR should keep		
					Resource management is included in the Project Management Plan and					exploring options to obtain necessary project resources (e.g. substitutions,		
					states that "resources will be provided based on project needs. This will					ETS).		
					be reviewed with DCD on a quarterly basis." The Project Status Reports							
					prepared by DataHouse do not note any resource needs under the Staffing (Needs, Anticipated Changes) section. However, Team Accuity					08/21/20: The necessary DLIR SMEs were able to participate in the Phase 2 requirements gathering sessions. With Phase 1 and Phase 2 activities to		
					noted that the DataHouse Quality Assurance Lead has not been assigned					begin occurring simultaneously, adequate project resources are needed to		
					(refer to finding 2019.07.IT05). DataHouse is also considering adding a					prevent further delays.		
					project coordinator resource to assist with meeting minutes and getting					prevent futures delays.		
			1		deliverables out.				1	09/28/20: The necessary DLIR SMEs were able to participate in the Phase 1	1	
			1						1	and Phase 2 activities; however, it is unclear if DLIR SMEs had adequate time	1	
										to perform the Phase 1 Case Management review. As Phase 1 and Phase 2		
										activities are scheduled to occur simultaneously through June 2021, adequate	2	
										project resources are needed to prevent further delays and resource burnout.		
										10/23/20 and 11/24/20: DLIR project resources' capacity to perform project		
										work is preventing the timely completion of some tasks. It is unclear if DLIR		
										has adequate resources for testing and data conversion activities.		
										12/23/20: DLIR project resources are struggling to balance project activities		
										with high DLIR operational workloads. DLIR does not have sufficient testing		
										resources which is impacting Phase 1 Content Management UAT execution		
										(2020.12.IT01). Limited DLIR testers began testing but other key DCD testers		
										still need to get involved in testing activities. Additional DLIR resources are		
										needed to assist with test case preparation, tester training, and testing		
										oversight.		
										01/26/21 and 02/23/21: DLIR plans to procure additional testing resources.		
										Accuity will continue to assess the adequacy of project resources.		
system Software, 201	19.07.IT02 Risk	High	Moderate	An unclear interface solution may impact	The Content Management Design (version 1.0) document was approved	2019.07.IT02.R1	Document the interface solution and	Documentation should provide a clear understanding on the interface	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July	1	
lardware and		-	1	the design process and require	by DLIR on May 6, 2019. Case Management is currently in the design		analysis.	solution including the following:	1.	2020.	1	
ntegrations			1	additional effort to correct.	phase and design documents have not been provided. Although the			* How Salesforce will query the selected Content Management solution	1		1	
			1		Content Management design document was completed and Case			* How files are uploaded to selected Content Management solution from		07/29/20, 08/21/20, 09/28/20, 10/23/20, 11/24/20, 12/23/20, 01/26/21, and	1	
			1		Management design is in progress, the exact interface solution has not			Salesforce	1	02/23/21: IV&V does not have adequate visibility of integration activities or	1	
			1		been defined. The interfaces between Content and Case Management are			* How metadata is uploaded into Salesforce	1	access to current builds to be able to better assess and identify potential risks		
			1		integral to the success of the project and should be fully defined in design			* Who is responsible for setup, configuration, and maintenance and the steps required for implementation	1	and issues.	1	
			1		documents in accordance with industry standards.			* What are the costs associated for development and long-term	1	Accuity will continue to evaluate the interface solution as additional details	1	
			1		Due to the recent DHS development, the interface options will need to			maintenance	1	are finalized and as development progress using the actual solution	1	
			1		also be researched and analyzed depending on the alternative solution				1	components is made.	1	
			1		selected. However, even prior to this development, DLIR did not have a	2019.07.IT02.R2	Update the project schedule to		1		1	
			1		clear understanding of the interface solution as well as the complete		define resources assigned to each o		1		1	
			1		technical solution. DLIR still had questions about the interface solution		the interface-related activities.		1		1	
			1			2019.07.IT02.R3	Verify the proposed interface		1		1	
			1		and maintenance of the proposed interface solution between Salesforce		solution will work.		1		1	
			1		and FileNet. The interface solution should be clearly analyzed,				1		1	
	1	1	1	1	documented, mapped to project requirements, and communicated to	1	1	1	1	1	1	1
					DLIR							

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE CLOSED DATE CLOSURE REASON
Quality Management and Testing	2019.07.IT05	Risk	Moderate	High	Not having an approved quality management plan and assigned quality assurance resources may impact the quality of project deliverables.	The Quality Management Plan (version 0.1) was drafted by DataHouse on June 23, 2019 but was not yet approved by DLIR. The draft plan did not include quality metrics, quality standards, or quality objectives of the project and does not describe how quality control results will be documented or reported. Additionally, the Quality Assurance Lead identified in DataHouse's BAFO is not assigned to the project team at this time.		Finalize the quality management plan.	DataHouse and DLIR should collaborate and agree on the quality management processes and metrics that will best serve this project. Include quality standards or reference to specific criteria (refer to finding 2019.07.PM03). Update the project schedule to assign quality assurance resources (refer to finding 2019.07.PM14).	-	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: There is no independent quality assurance for the eCMS Project as quality assurance testers are a part of the DataHouse and subcontractor teams. DLR needs to complete their quality management plan to outline how they plan to evaluate and ensure quality throughout the project.
						As it is almost eleven months into the eCMS Project and several deliverables were already approved and many are pending approval, it is important for a quality management plan to be formalized and resources assigned to perform quality management activities.	2019.07.IT05.R2	Perform quality management activities on previously approved or submitted deliverables.			08/21/20: In an effort to prevent further delays for Phase 1 development, DataHouse plans to proceed with development even if DLIR lite UAT testing is not completed by the due date. Without a quality management plan or approach in place, it is unclear how DLIR and DataHouse will ensure quality and user satisfaction if the necessary DLIR project resources do not have the availability to timely complete testing.
											09/28/20, 10/23/20, and 11/24/20: No updates to report. 12/23/20: Accuity increased the severity rating from Level 2 (Moderate) to Level 1 (High) as the lack of a quality management plan and metrics may be impacting Phase 1 Content Management UAT execution (2020.12.IT01). The technical issues encountered during UAT may also indicate problems with the effectiveness of quality management processes. Quality management is critical to ensure that quality mad overall project success goals are verified prior to system acceptance and production.
											01/26/21: No updates to report. 02/23/21: Quality metrics are critical for evaluating and monitoring current project activities such as training, testing, and go-live readiness. Selection of quality metrics should consider revisions and reprioritization of project goals and success metrics based on the current project status.
											Accuity will continue to evaluate the quality management plan and activities.
Configuration Management	2019.07.IT06	Risk	Moderate	Moderate	A lack of a configuration management plan may impact the performance and quality of the system if unauthorized or untested changes are promoted between environments.	plans to prepare a configuration management plan by October 11, 2019.		Develop a formal configuration management plan.	 Ensure the plan is in accordance with IEEE 828-2012 – Standard for Configuration Management in Systems and Software Engineering and includes the configuration management planning process, configuration identification process, configuration change control process, configuration status accounting process, configuration auditing process, and release management process. Datribuse and DLR should collaborate and agree on the configuration management plan purposes and processes that will best serve this 		Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20, 08/21/20, 09/28/20, 10/23/20, 11/24/20, 12/23/20, 01/26/21, and 02/23/21: No updates to report. Accuity will continue to evaluate the configuration management plan and approach.
ecurity	2019.07.IT07	Risk	Moderate	Moderate	Not having an approved security management plan in place may impact		2019.07.IT07.R1	Ensure the security management plan meets specific standards.	project. •Consider the industry standards and best practices above. •DataHouse and DUR should collaborate and agree upon the specific	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020.
					the security and privacy of the data.	project plan, the eCMS Project was supposed to begin the Build stage of Phase 1. Although the recent DHS development will likely delay the start of the Build stage, not having a security management plan in place may result in improperly defined security requirements and may preclude the adequacy of the system to support the data needs of the system. Security controls should be defined in the security management plan and implemented as part of an organization-wide process that manages	2019.07.IT07.R2	Finalize the security management plan.	standards that will best serve this project.		07/29/20: DataHouse performed remediation of AWS vulnerability scan findings and DLIR, with the assistance of ETS, reviewed and approved the results. Additionally, DataHouse and DLIR agreed on a process for continuing the performance and review of periodic AWS vulnerability scans. DLIR plans to develop high-level timeline and tasks for developing the security management plan in August.
						information security and privacy risk.					08/21/20: DUR and ETS are meeting regularly to develop the security management plan including selection of the security tools and framework. DUR plans to complete the high-level security timeline and tasks in September 2020.
											09/28/20: DLIR continues to evaluate, select, and implement various security tools and controls as part of the security management plan. DLR discussed some tasks for a high-level security timeline; however, decisions about which tasks must be completed by the upcoming Phase 1 Content Management go- live or included as go/no-go criteria are still pending. DLIR plans to do a security risk assessment (SRA) with the assistance from ETS in October 2020 to identify any gaps in security.
											10/23/20: The completion of the SRA was pushed back to early November 2020.
											11/24/20: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate) as DLIR completed a preliminary SRA and evaluated areas of risk. DLIR has a high-level plan and timeline to continue evaluating and implementing security tools and controls. DLIR also began to draft a RACI chart to outline roles and responsibilities for some security tasks.
											12/23/20: DUR further refined their preliminary SRA. DataHouse performed additional remediation of the AWS vulnerability scan findings and DLIR reviewed the results pending final approval.
											01/26/21 and 02/23/21: No updates to report.
											Accuity will continue to evaluate the security management plans and documentation as they are finalized.

ASSESSMENT			ORIGINAL	CURRENT					FINDING			
CATEGORY Project	FINDING ID 2020.08.PM01	TYPE Risk	SEVERITY Moderate	SEVERITY Moderate	FINDING Inadequate planning and lack of a datailed project schedule for Phase 2	ANALYSIS DataHouse's updated project management plan and project schedule was scheduled for completion in July 2020. The tack is not up completed and	RECOMMENDATION Complete Phase 2 planning.	SUPPLEMENTAL RECOMMENDATION •Ensure mutual understanding of Phase 2 plan and approach between DataHouse and DUR.	STATUS	FINDING STATUS UPDATE 09/28/20: DataHouse updated the project management plan to include some additional datails rearranging Phase 3 deliverships and several project	CLOSED DATE 10/23/2020	
Organization and Management					detailed project schedule for Phase 2 may impact the execution of Phase 2 activities and result in delays.	scheduled for completion in July 2020. The task is not yet completed and there is no estimated timeline for completion. Some of the details of the Phase 2 planning were verbally discussed including DataHouse's deliverables, assigned resources, and general approach; however, additional planning is needed. The current project management plan was last updated in August 2019 and many of the processes are outdated or need improvement (2020.07.PM01). Additionally, the cCMS Project is now operating under completely different circumstances due to the COVID-19 pandemic (2020.03.PM01). The following are some of the project management plan details that are unclear or need improvement: +How Phase 1 and Phase 2 activities will be performed simultaneously with limited DUR project resources, priority of Phase 1 or Phase 2 tasks; process for resolving scheduling conflicts. •Detailed project schedule with Phase 2 tasks, due dates, and required resources. •Improved process for managing DLIR project resource constraints; contingency plans for DLIR project resources, planning of DLIR project resources ability to work remotely including access, equipment, and technology. •How the Content Management and Case Management components for the Phase 2 will be developed; the number of Content Management forms in scope for Phase 2. •Roles and responsibilities for Phase 2 DataHouse and DLIR project team members. •Updated process for project communications for identification of Phase 2. •Internal and external stakeholders; alternative communication channels in place of standing project meetings or changes in working arrangements. •Process and metrics for evaluating project progress and performance for timely detection of issues. Although significant uncertainty due to the COVID-19 pandemic makes it difficult to know the exact road ahead, proactive planning and contingency planning are critical for anticipating changes and minimizing impacts to the project.		Datarouse and DUX Provide adequate details of Phase 2 in the project schedule. •Consider building contingency plans for COVID-19 into the project management plan and processes.		additional details regarding Phase 2 deliverables and several project management processes. Additional clarification of project management processes (e.g., performance metrics, monitoring DUR project resource workloads, resolving conflicts, or priorities for phases), contingency plans, and the project shedlue are still needed. 10/23/20: DataHouse and DUR discussed and clarified project management processes. In general, project performance metrics are not collected or monitored. Instead DataHouse primarily uses the project schedule to manage and monitor project performance. DataHouse and DUR clarified processes for resolving conflicts or changes in resource availability and priorities for phases. DataHouse has not yet added the detailed tasks of Phase 2 beyond the planning stage and plans to add more detailed tasks of Phase 2 beyond the planning stage and plans to add more detailed tasks as more specific project information (e.g., features, number of epics) is determined. The Case Management development team also monitors progress with stats on the number of user stories completed in each sprint and the number in the backlog.	,	discussed project management processes. The need for a more detailed Phase 2 project schedule and improvements in project management processes will continue to be monitored under the 2019.07.PM09 Risk Management, 2019.07.PM13 Schedule Management, 2019.07.PM14 Inadequate Resources, and 2019.09.PM02 Resource Management findings.
Project Organization and Management	2020.02.PM01	Positive	N/A	N/A	The DataHouse Case Management development team works very collaboratively with DUR and demonstrates commitment to continuou improvement resulting in smoother project execution and increased transparency.	The Scrum methodology employed by the DataHouse Case Management development team inherently promotes collaboration, open communication, transparency, and process improvement through built in is daily stand-up and retrospective meetings. Over and above this, the Case Management development team members don't just go through the exercise of Scrum meetings but really emboare the spirit of the methodology. The Case Management development team members have: •Worked dosely with DLR subject matter experts (SMEs) to ensure user and business needs are thoroughly understood. •Encouraged DLR SMEs to really explore opportunities for business process improvements. •Openly communicated solution options including rationale for optimal design considerations, limitations, and benefits as well as ways the solution can help to achieve business process improvements for DLR. •Ustneed to feedback from DLR and timely implemented improvements to project processes (e.g., user story approval process). •Demonstrated genuine commitment to the success of the project. This approach has helped DLR team members to build a high level of comfort with and understanding of the Case Management part of the project.	N/A for positive findings.	N/A for positive findings.	Closed	N/A	3/27/2020	Closed as this is a positive finding.
System Software, Hardware and Integrations	2019.09.IT01	Positive	N/A	N/A	The DataHouse team's swift and adaptive response to issues and risks minimized impact and further delays to project development.	Many members of the DataHouse team have contributed to the following uccesses: •Secured a replacement Content Management hosting infrastructure solution. This included presenting the replacement solution, facilitating responses from and meetings with AWS, answering the Office of Enterprise Technology Services (ETS) security questions, and updating design documents. •Mitigated or remediated many of the high severity risks and issues from the V&V Initial Report. The team's efforts to address many risks and issues are summarized in Appendix D. Additionally, DataHouse's willingness to open project team meetings to both DLR and V&V and time taken to address DLR, IV&V, and ETS concerns have greatly contributed to the progress made since the Initial Report. •Demonstrated commitment to DLIR and project success. This includes the Content Management development team's flexibility in performing project work to accommodate the delays in the WC forms and the Case Management development team's openness to work towards a master RTM to facilitate traceability. Team members have demonstrated their commitment to doing what's best for the project and have even proposed ways to further improve the solution leveraging their extensive technical knowledge and experience. The DataHouse team's actions have helped to minimize impacts and further delays to the project sforward.	N/A for positive findings.	N/A for positive findings.	Closed	N/A	10/25/2019	Closed as this is a positive finding.

ACCECCMENT			ODICINIAL	CURRENT						FINDING			
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DAT	E CLOSURE REASON
Governance Effectiveness	2019.07.PG01			N/A	The DCD Executive Sponsor is highly engaged and plays an active and visible role in guiding, monitoring, and championing the eCMS Project.	The DCD Executive Sponsor's close involvement in the project has provided strong leadership that has, to an extent, compensated for the lack of formal governance (refer to finding 2019.07.PG02) and other project deficiencies noted throughout this report. However, as important as good sponsorbip is, this factor alone can not be relied upon to guarantee project success.	N/A	N/A for positive findings.	N/A for positive findings.	Closed	NA		Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG02	2 Risk	Moderate	N/A	The lack of a formal executive steering committee and change control board may limit the effectiveness of project governance.	The DataHouse proposal and Project Management Plan (version 1.2) make references to a steering committee; however, a formal committee was not chartered. Currently, the DCD Executive Sponsor is assigned the authority in the Project Management Plan to approve all project changes.		Assemble and formalize an executive steering committee.	 The size and selection of committee members should balance the representation of key stakeholders with the need for efficient decision making. Formalize the committee mission, responsibilities, and the types and the thresholds of decisions that need committee approval in a steering committee charter. Consider the need or ease of creating a change control board with a subset of the committee for certain types of decisions. 	Closed	09/20/19: Accuiry decreased the severity rating from Level 2 (Moderate) to Level 3 (Low). The eCMS Executive Steering Committee (ESC) was assembled and held its first meeting on September 13, 2019. Members were informed of the committee's purpose, roles, and member tasks, however, the types and thresholds of decisions that need committee approval or attention was not formalized. The next meeting is scheduled for October 11, 2019. 10/25/19: The October 11, 2019 ESC meeting was effectively run by the DCD Project Sponsor to discuss key risks and issues and to align the eCMS Project direction with DLR and ETS strategic objectives. The thresholds for decisions that require committee attention were also established.		formalized.
Governance Effectiveness	2019.07.PG03		Moderate		fulfillment.	The procurement of the System Integrator (SI) for the eCMS Project was performed by DLIR EDPSO and reviewed by ETS. The RFP and DataHouse contract does not clearly outline expected deliverables, evaluation criteria for accepting deliverables, and clear delineation of roles and responsibilities. There has already been confusion or misunderstandings due to unclear contract terms in the areas of form design, risk and issue tracking (refer to finding 2019.07.PMI0), and communications (refer to finding 2019.07.PMI0), and communications (refer to finding 2019.07.PMI0). Additionally, the lack of specific acceptance criteria has led to approval of deliverables ext on on these industry standards (refer to finding 2019.07.PMI03). DataHouse has already prepared certain management plans and project documents and has been amenable to providing certain additional deliverables even though they were not clearly required to by the RFP or contract. Clear contract terms set expectations for deliverables and will assist DLIR to ensure that contractors fulfill obligations to the standard of quality that is required.			Consider including key project documents as deliverables such as a requirements management plan and requirements traceability matrix (RTM) (refer to finding 2019 0.7.PM10), risk and issue log (refer to finding 2019.07.PM09), and testing documentation. Consider including acceptance criteria based on industry standards. For example, the acceptance criteria could be compliance with Institute of Electrical and Electronics Engineers (IEEE) 29148-2018 for a requirement traceability matrix or compliance with IEEE 829 for test documentation. Consider including measurable success metrics (refer to finding 2019.07.PG05). Consider the need to outline roles and responsibilities between DLIR and DataHouse (refer to finding 2019.07.PM02).	5	09/2019: DUR has decided to address this finding through updates of project plans. DataHouse has shown an openness to develop and continuously improve project deliverables including project plans. Roles and responsibilities have been more openly discussed and plan to be incorporated within project plans. Furthermore, success and quality metrics are being drafted which will also be an additional method for evaluating contractor performance and fulfilment.	4	Closed as DLR will address through project plan updates. The need for clarification of roles and responsibilities as well as acceptance criteria and success metrics will continue to be monitored under the 2019.07.PG04 Success Metrics, 2019.07.PM02 Project Organization, 2019.07.PM03 Deliverable Review, and 2019.07.IT05 Quality Management findings.
Governance Effectiveness	2019.07.PG04	4 Risk	Low	N/A		Large IT projects are not a regular occurrence for many State departments. Often times project resources are assigned from within the departments that have valuable organizational and operational knowledge but do not have the necessary project management experience. Having guidelines and checklists and access to project documents from past State projects would greatly benefit even experienced project teams. ETS, as the State of Hawaii's IT oversight office, is in the best position to gather project assets and put forth guidelines.		Initiate conversations with ETS to discuss DLIR If and project support needs and responsibilities.	 Discuss what resources, guidance, and shared project assets would be most helpful to DUR. Discuss what project assets DUR can provide to contribute to the development of a centralized project management library. Consider involving the project steering committee to align and clarify ETS vs. steering committee governing roles. 	Closed	(09/2017): ETS began sharing best practices and lessons learned with DLIR including taking the DLIR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed eCMS Executive Steering Committee (ESC) and will use that vehicle to share lessons learned with DLIR. Additionally, DLIR is forming a DLIR IT Steering Committee to provide oversight to all DLIR IT projects. The DCD Executive Sponsor is a member of that DLIR committee and plans to share eCMS lessons learned and project templates with other DLIR IT projects.		Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.
Benefits Realization	2019.07.PG06	6 Risk	Low	N/A	Failure to align statutes with the eCMS Project modernization objectives may reduce the operational improvements that are achieved.	The eCMS Project's primary modernization objective is to move to a paperless and automated business process. The new system is being designed to allow for electronic filing, routing, and tracking of forms. However, current disability compensation statutes have not been revised to require that these forms are filed electronically by law. As such, manual paper forms may continue to be submitted by external users such as claimants, employers, and insurance companies. As the development of a portal for public filing will not begin until Phase 3, this risk is not as imminent. However, as the evaluation of potential impacts, collection of feedback from stakeholders, and the legislative process to amend statutes is a long process, the initial planning should begin as early as possible so as not to postpone or reduce the realization of the benefits from the new system.		Develop a plan and timeline to amend the statutes to align to project and organizational objectives.		Closed	09/20/19: In 2016, DLR convened a Working Group (WG) consisting of representatives from various DCD-related stakeholder groups. The WG provides an avenue for DLR to understand stakeholders' concerns and a forum for the stakeholders to understand the DLR's business process improvements including the need for statutorily mandated electronic claim filings. DLR plans to draft statutory changes to mandate electronic filing in FY2022 (effective July 1, 2023). This timeframe was decided on as it allows DLR to proactively involve stakeholders in testing production and provide stakeholders the appropriate time to ready their systems for electronic filing.	9/20/2019	Closed as DLR has a plan to align statutes with eCMS Project objectives.
Project Organization and Management	2019.07.PM01	1 Positive	N/A	N/A	The DLIR Project Manager is a dedicated project lead who works collaboratively with internal stakeholders.	The DLIR Project Manager is hardworking and has continually demonstrated dedication to the project and an eagerness to learn. Additionally, the DLIR Project Manager has some of the necessary leadership qualities that make her a good project manager. Her positive nature and collaborative approach develops trust with and satisfies concerns of many internal stakeholders. This has mitigated some of the communication and OCM risks (refer to findings 2019.07.PM07 and 2019.07.PM08, However, the DLIR Project Manager is the only full-time DLIR employee assigned to the eCMS Project and there is not a sufficient amount of project resources (refer to finding 2019.07.PM14) to properly manage the project.	NA	N/A for positive findings.	N/A for positive findings.	Closed	N/A	9/20/2019	Closed as this is a positive finding.
Project Organization and Management	2019.07.PM04	4 Issue	High	N/A	BAFO without obtaining a written letter of intent between DataHouse and DHS. Furthermore, the eCMS Project advanced for 10 months without a forma MOU between DLIR and DHS and reliance on the DataHouse Project	The DataHouse BAFO proposed a technical solution that planned to leverage DHS's IBM FileNet environment; however, there was no written agreement between DataHouse and DHS that supported DHS intent to support shared services. Once the eCMS Project was underway, the MOU discussions with DHS were primarily led by the DataHouse Project Sponsor. The eCMS Project advanced for 10 months without finalizing the MOU between DHS and DUR. As the proposed solution is no longer viable due to the recent DHS development, an alternative solution must be determined (refer to finding 2019;07:11701) and previously accepted or drafted deliverables may need to be updated. Although the eCMS Project will not be able to utilize DHS's IBM FileNet environment, the project still plans to leverage DHS's enterprise licenses for FileNet and Datacap. Before moving forward in the project, DUR should finalize all prevent further delays.		Finalize the MOU to leverage DHS's enterprise licenses for FileNet and Datacap. DLIR should lead all discussions and negotiations of vendor contracts or agency agreements. Identify and complete all critical tasks prior to moving forward with an alternative solution.		Closed	09/2019: The MOU with DHS for Datacap and FileNet licenses is close to being finalized. DLIR received a draft from DHS on September 1, 2019 and it was sent to the Attorney General's office on September 17, 2019. Accuity has observed that DLIR has led the contract discussions and negotiations with AWS.		Closed as the MOU with DHS is in process to be finalized and DLIR is leading contractor negotiations. The recommendation to identify all critical tasks will continue to be monitored under the 2019.07.PM13 Schedule Management finding.

ASSESSMENT			ORIGINAL	CURRENT				RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING			
Project Organization and Management	ENDING ID 2019.07.PM05	Risk	Moderate	Seveniy N/A	A lack of clarity on DataHouse's development methodology may not allow or adequately prepare stakeholders to participate readily.	ANDESSE ANDESSE PataFlouse is using a modified Agile development methodology that is referred to as "Water-Scrum-Fall". This is a combination of the waterfall and Agile methods that defines the full set of requirements at the beginning but uses Agile user stories and sprints while building the software. Based on the current project plan, the eCMS Project was supposed to begin the Build stage of Phase 1 and transition to the Scrum methodology. Although the recent DHS development will likely delay the tackoff of this stage, there are a number of concerns regarding the transition to the Scrum methodology: • DataHouse has not yet fully determined the number, length, and details of the sprints. • The project schedule also does not yet reflect the agile sprints cycles or identify resources who are expected to participate. • There have not been communications with the DLIR project team and stakeholders regarding the Scrum methodology or the roles and responsibilities they have during this stage of the project. • Many of the DataHouse project team members work remotely and are unable to work on-site.	2019.07.PM05.R1	Formalize an approach for executing Scrum phases.	Sunctamental recommendations - Consider industry best practices for Agile methodologies such as retrospectives, daily standups, burndown charts, and frequent user demonstrations and feedback. - Establish the backlog preparation and refinement process. - Establish virtual conferencing tools and communication protocols for geographically distributed team members. - Set the number and length of the sprints. - Update the project schedule for sprint activities and assign resources (refer to finding 2019.07.PM14). - Include clear and detailed procedures and roles and responsibilities for Scrum tasks (refer to finding 2019.07.PM02). - DUR should be included in project team activities (refer to finding 2019.07.PM02).	Closed	FINDRIVE STATUS UPDATE OP20019: Accurity hask kept the severity rating as Level 2 (Moderate). Although DataHouse has incorporated the Case Management sprint schedule into the overall project schedule and provided a high-level overview of the reguirementSviewer stories to be covered by each sprint, roles and responsibilities still need to be clearly defined and communicated. The Case Management development team follows a classic Scrum model and plans to clarify roles and responsibilities of Product Owners and users, how new requirements will be approved and prioritized, and acceptance criteria during the next user review and Epic 2. The Content Management development team follows a semi-agile process and drafted an overview document of the team's change management practices. 10/25/19: The Case Management development team held a training for the DUR Product Owner sto provide an overview of the Scrum methodology and the Product Owner role and responsibilities.	CLOSED DATE	CLOSURE TEASON Closed as the Scrum methodology has been formalized and was communicated to the DLIR eCMS Product Owners. The recommendation to communicate the methodology to all impacted stakeholders will continue to be monitored under the 2019.07.PM07 Stakeholder Communications finding.
Business Process Reengineering	2019.07.PM11	Risk	Moderate	N/A	Not identifying and addressing BPR opportunities prior to system design and development may require additional effort to correct.	There is no formal plan for BPR activities. DataHouse's approach to BPR was to start with the current state process maps, walkthrough the process with stakeholders, and make updates to the processes maps. As a result of this process, DataHouse provided future state process maps. However, Team Accuity was unable to clearly understand how processes were prioritized for change, root causes were addressed, or processes were improved (e.g., elimination of rework loops). Business process improvement is a key deliverable identified in the RFP and in DataHouse's contract. The DataHouse contract states that the key deliverable will be manifested through. Faster throughput of data into the system; faster response times to requests by users, less errors reported in the system; grater flexibility to make system changes; and online access and input by internal and external users. However, the RFP and contract do not clearly identify how this deliverable will be supported, evaluated, or accepted by DLR (refer Inding 2019:0.7.PG03). There should be clear documentation on how the new solution plans on measuring and achieving key business process improvement performance goals. The IV&V recommendations made at 2019.0.7.PG05.R1, 2019.0.7.PG05.R2, and 2019.0.7.PG05.R3 regarding clear and measurable goals and success metrics will also address this finding. Below is an additional recommendation to further improve BPR activities.		Identify and track BPR opportunities in a log.	This log should be used to plan BPR and design activities and to develop content for communications and training.	Closed	09/20/19: Accuity has kept the severity rating as Level 2 (Moderate) as a process or tool for tracking BPR changes for future communications and training has not been created. 10/25/19 and 11/22/19: BPR opportunities continue to be discussed during sprint sessions; however, identified opportunities are not formally tracked. 12/20/19: The Case Management user story tracker tool identifies which user stories resulted in BPR.	12/20/2019	Closed as user stories resulting in significant BPR can be identified for communications and training.
System Software, Hardware and Integrations	2019.07.1701	Issue	High	N/A	The original solution proposed by DataHouse in their BAFC to leverage the existing DHS FileNet housing infrastructure is no longer a feasible solution.	There are a number of items in the DataHouse BAFO that are no longer feasible based on the inability to leverage the existing DHS FileNet environment. Under the original solution, DHS would monitor and maintain the enterprise IBM FileNet environment. As DHS will no longer be providing access to their IBM FileNet environment, DLR will need to identify resources to take on the monitoring and maintenance of the IBM FileNet infrastructure. As DataHouse recommended in the BAFO the on- premise installation for the IBM ECM solution due to the capture volume and higher performance of document file transfers over the LAN and internal State network, DLR should be provided with a technical analysis of various solution options that includes a comparison of the alternatives on performance.	2019.07.IT01.R2	solution.	 Consider solutions that could include other technical applications that could utilize a different choice of methodology using different tools, provide a cheaper solution for the longer-term, and faster implementation. Consider the following website which lists 20 competitive alternatives to EM FileNet for consideration: www.g2.com/products/ibm-filenet-conten manager/competitors/alternatives. Additional research could result in more extensive choices going forward. Include the impact of the alternative solution to project cost, schedule, resources, security, maintenance and operations, system software, hardware integration requirements, performance requirements, and required infrastructure to ensure a completed, who is responsible, steps for completion, and timing. Considerations for impact on project cost includes costs related to the following: Processing, storage and connectivity Protexing system and database management licensing Interfacing technologies Maintenance and operations of FileNet enterprise licensing Considerations for impact on project soft enter, ended the fileNet; Processing, storage and connectivity Considerations for impact on project soft enterprese licensing Natinenance and operations Data center, collocation facilities and availability requirements. and resources include: Acquistion, installation, and configuration of software and infrastructure Anging maintenance and operations (patching, updates) Performance of security assessments Change and configuration management 	, ,	09/20/19: In July 2019, DataHouse presented AWS as a potential alternative solution. The proposed AWS solution was compared to another cloud solution, Microsoft Azure, in respects to cost and performance. DataHouse reviewed the listing of content management solutions provided by Accuity and concluded that IBM FileNet was prepared. DUR approved AWS as the replacement hosting infrastructure solution effectively remediating the inability to leverage the DHS FileNet environment issue. Accuity had also recommended that a comprehensive technical analysis be prepared on the replacement solution; however, DLR decided not to formally document the analysis as they are comfortable with the selection based on reading of AWS whitepapers, the information provided by DataHouse, and discussions with ETS and EDPSO.	9/20/2019	Closed as a replacement solution was approved by DLIR. As a comprehensive analysis was not prepared and there is still a need for additional clarification regarding certain aspects of the replacement solution, Accuity will continue to monitor plans for AWS security under finding 2019.07.IT07, AWS M&O roles and responsibilities under the new preliminary concern 2019.10.IT02, and AWS costs under finding 2019.07.PM12.

ASSESSMENT			ORIGINAL	CURRENT									
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Design	2019.07.IT03	Issue	High	N/A		Case Management is currently in the design phase and design documents have not been provided. The Content Management Design (version 1.0) approved by DLIR on May 6, 2019. The recent DHS development will require design documents to be updated after an alternative Content Management hosting infrastructure solution is selected. However, even prior to this development, the Content Management design documents were dafted based on requirements documentation that is incomplete (refer to finding 2019.07.PM10). The requirements document deficiencies should be remediated immediately and the design documents updated according).		Update the Content Management design documents.	Consider updates for revised requirements documents (refer to finding 2019.07.PM10) and for the alternative Content Management hosting infrastructure solution (refer to finding 2019.07.IT01).	Closed	09/20/19: Acculty decreased the severity rating from Level 1 (High) to Level 2 (Moderate). DataHouse updated the Content Management Design Document to include additional, more detailed requirements. As noted above at finding 2019 07.PM10, DataHouse is in the process of updating the requirements documentation to include all requirements from the DataHouse contract. 10/20/19: The Content Management Design Document (version 1.2) was updated to refine or add requirements.		Closed as the Content Management design documents are regularly updated as changes to requirements are made. The completeness of the design with respect to contract requirements will continue to be monitored under the 2019.07.PM10 requirements finding.
Data Conversion	2019.07.1T04	Risk	Moderate	N/A	plan that is based on incomplete, inaccurate, and outdated requirements may impact the data migration design	Case Management is currently in the design phase and data conversion documents have not be drafted. The Content Management Conversion and Migration (version 0.0) document was drafted by DataHouse on June 13, 2019 but was not yet approved by DLIR. The document was drafted based on requirements document was drafted by DataHouge 2019.07.PM10). Furthermore, the Content Management Conversion and Migration (version 0.0) document included a risk that changes to the requirements after a certain point in the project may cause additional effort to re-factor the migration design process. As data conversion is the process of converting data from one source to suit the system requirements of another, it is important that the data conversion plan is based on accurate system requirements. The requirements document deficiencies (refer to finding 2019.07.PM10) should be remediated immediately and the data conversion plan updated according).		Update the Content Management data conversion plan.	Consider updates for revised requirements documents (refer to finding 2019.07.PM10).	Closed	09/20/19: Accuity has kept the severity rating as Level 2 (Moderate). The Content Management Conversion and Migration Plan (version 1.1) was updated on 09/05/19 before the Content Management Design Document (version 1.1) was updated on 09/15/19 to include additional design requirements. Changes to requirements should be evaluated for the impacts on the conversion and migration plans and the detailed taxonomy mapping. 10/25/19: DataHouse evaluated the new requirements and determined that there is no impact to the high level Content Management conversion requirements included in the Conversion and Migration Plan. 11/22/19: Accuity reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements will not have a significant impact on the Content Management data conversion plan as the legacy system has limited data fields that are currently used.		Closed as changes in system requirements do not appear to significantly impact the Content Management data conversion plan.

Appendix E: Prior IV&V Reports

AS OF DATE	DESCRIPTION
06/30/19	Initial On-Site IV&V Review Report
09/20/19	Monthly On-Site IV&V Review Report
10/25/19	Monthly On-Site IV&V Review Report
11/22/19	Monthly On-Site IV&V Review Report
12/20/19	Monthly On-Site IV&V Review Report
01/24/20	Monthly On-Site IV&V Review Report
02/20/20	Monthly On-Site IV&V Review Report
03/27/20	Monthly On-Site IV&V Review Report
04/24/20	Monthly On-Site IV&V Review Report
05/22/20	Monthly On-Site IV&V Review Report
06/26/20	Monthly On-Site IV&V Review Report
07/29/20	Monthly On-Site IV&V Review Report
08/21/20	Monthly On-Site IV&V Review Report
09/28/20	Monthly On-Site IV&V Review Report
10/23/20	Monthly On-Site IV&V Review Report
11/24/20	Monthly On-Site IV&V Review Report
12/23/20	Monthly On-Site IV&V Review Report
01/26/21	Monthly On-Site IV&V Review Report





Appendix F: Comment Log on Draft Report



Appendix F: Comment Log on Draft Report

DLIR DCD eCMS Project: IV&V Document Comment Log									
CLE OF MAR		ACCUITY							
ID #	Page #	Comment	Commenter's Organization	Accuity Resolution					
1		No DLIR comments.							
2									
3									
4									
5									
6									
7									
8									
9									
10									

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