

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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May 9, 2022

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 http://ets.hawaii.gov (see "Reports").

Sincerely,

DOUGLAS MURDOCK Chief Information Officer

State of Hawai'i

Attachment (1)



MONTHLY ON-SITE IV&V REVIEW REPORT

REPORT FINALIZED

March 23, 2022 | Version 1.0

May 3, 2022







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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
04/07/22	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
05/03/22	Monthly On-site IV&V Review Report Final updated for corrections of documents in Appendix C and 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.

The focus of our IV&V activities for this report included the completion of a two-month assessment of cost management, organizational change management, and system operations and the beginning of a two-month assessment of configuration management. 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 March 23, 2022. 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.

PROJECT MANAGEMENT

"Clarity and simplicity are the antidotes to complexity and uncertainty."

-General George Casey



PROJECT ASSESSMENT

AS OF MARCH 23, 2022

SUMMARY RATINGS

OVERALL RATING



Significant severe deficiencies were observed requiring immediate remediation or risk mitigation.

PROGRAM GOVERNANCE



PRO.IFCT **MANAGEMENT**



TECHNOLOGY



CRITICALITY RATINGS



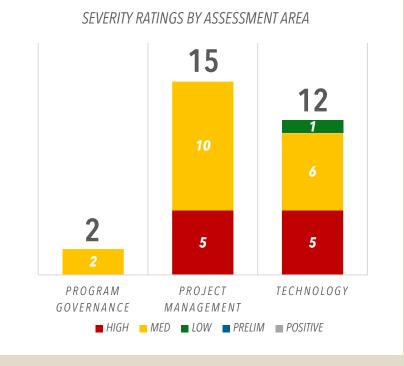




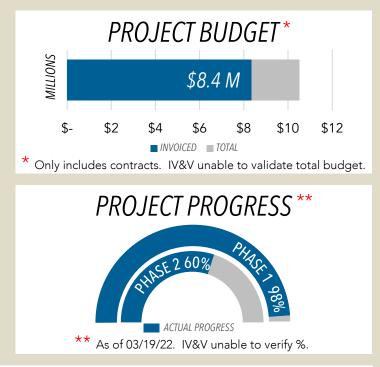


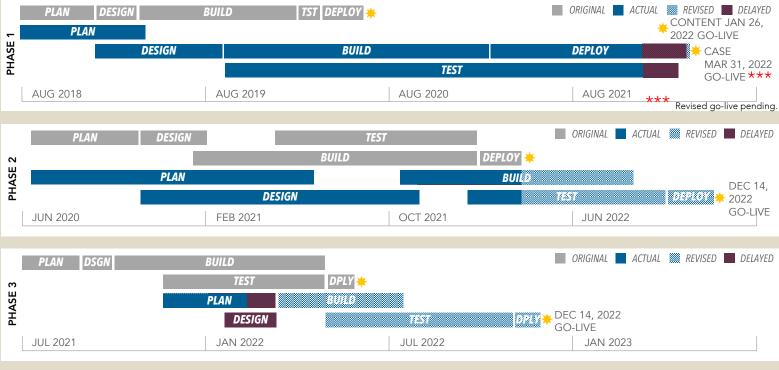


29 OPEN FINDINGS



45 OPEN RECOMMENDATIONS





ASSESSMENT AREA & RATINGS SUMMARY

AS OF MARCH 23, 2022

JAN	FEB	MAR	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
R	R	R	Overall	While the eCMS Project continues to move forward, status of existing obstacles are pending or unknown. Greater clarity is needed around status, plans, revised schedule, processes, metrics, and criteria.
				Project Schedule: Phase 2 is generally on track and slightly ahead of schedule. Phase 1 Case Management and Phase 3 tasks are delayed. Approval of a revised project schedule is still pending. Accuity is unable to fully assess schedule variances (refer to finding 2019.07.PM13).
				Project Costs: Contract costs are within the total contract amounts. DataHouse is prepaid for Phase 1 and 2 but is adjusting Phase 3 invoices under the revised payment schedule. Accuity is unable to fully assess cost variances (refer to finding 2019.07.PM12).
				Quality: DLIR and DataHouse continue to address system issues in production for Phase 1 Content Management and during user acceptance testing (UAT) for Phase 1 Case Management. Quality metrics still need to be defined and collected (refer to finding 2019.07.IT05).
	①	Y	Program Governance	The eCMS Project Executive Steering Committee (ESC) meeting was canceled for the month of March. Guidance and active involvement from project governance is needed to oversee major risks and issues, drive progress, enforce accountability, and reassess overall project priorities and goals.
R	R	R	Project Management	A revised project schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June 2022, accelerate the Phase 2 go-live to November 2022, and compress the Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go-live is still quickly approaching. It is critical that plans for Phase 1 Case Management go-live are clarified and finalized including go-live communication activities for external stakeholders, training format and dates, organizational change management (OCM) activities and metrics, and business processes around the new system. Phase 3 requirements sessions resumed and the requirements deliverable was deferred to the end of March 2022. DLIR improved processes to monitor, engage, and acquire resources and trace requirements to testing and acceptance. DLIR and DataHouse should continually reassess and adjust foundational project management processes (refer to Appendix D: Prior Findings Log) to prevent future delays and improve project performance.
₩	•	₹	Technology	Phase 1 Content Management technical system issues continue to be addressed but the complete status of issue resolution, root cause of those issues, status of user adoption, plans to address transition issues, and system operation roles, procedures, and metrics remain unclear. Improvements are needed for many foundational technology processes (refer to Appendix D: Prior Findings Log). IV&V does not have adequate visibility of DataHouse development, testing, and data conversion activities. Phase 1 Case Management UAT progresses but is still behind initial forecasts. The Phase 1 Case Management go/no-go criteria or transition checklist are also still pending. DataHouse is completing Phase 2 development sprints ahead of schedule.

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA

PROGRAM GOVERNANCE



JAN

FEB

OVERALL RATING

MAR

KEY PROGRESS

Case Management UAT **PROGRESSING**

Phase 2 development AHEAD OF SCHEDULE

Phase 3 requirements sessions **RESUMED**

KEY RISKS

GREATER CLARITY in metrics, plans, and processes is critical

LOW Content Management USER ADOPTION

CONTINUOUS reassessment and adjustment needed

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. One IV&V Assessment Category improved and one
declined from the prior report. Greater clarity is needed around status, plans, revised schedule, processes, metrics, and criteria
for Phase 1 Content Management user adoption and system operation as well as Phase 1 Case Management acceptance and
deployment. Continuous improvements are needed for many foundational project management and technology processes.

Ŷ	Ŷ		Governance Effectiveness
₹	V	V	Benefits Realization
JAN	FEB	MAR	TECHNOLOGY
₩	V	Y	System Software, Hardware, and Integrations
6	G	G	Design
	Y		Data Conversion
R	R	R	Quality Management and Testing
	Y		Configuration Management
			Security

JAN	FEB	MAR	PROJECT MANAGEMENT
R	R	R	Project Organization and Management
R	R	R	Scope and Requirements Management
R	R	R	Cost, Schedule, and Resource Management
V	₩	V	Risk Management
1	₩	Ŷ	Communications Management
1	1	Y	Organizational Change Management (OCM)
Ŷ	1	Y	Business Process Reengineering (BPR)
G	@	G	Training and Knowledge Transfer



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



PROGRAM GOVERNANCE

JAN	FEB	EB MAR IV&V ASSESSMENT IV&V OBSERVATION		IV&V OBSERVATION	F	INDING	S
JAN	FED	IVIAR	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
~	↔	Y	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) was not able to meet this month to discuss project updates, risks, and issues. Continued project guidance and oversight is needed to oversee major risks and issues, drive progress, and enforce accountability (2021.05.PG01). The DataHouse wellness plan is expected to be provided in April 2022.	0	1	0
V	▽	₹	Benefits Realization	No significant updates since the prior report. Project success metrics should 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 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

JAN	JAN FEB M	MAR IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
JAN	FEB	WAR	CATEGORY	IVAV OBJERVATION	NEW	OPEN	CLOSED
R	R	R	Project Organization and Management	Project organization and management continue to be a challenge. While the eCMS Project continues to move forward, greater clarity is needed around status, plans, schedule, processes, and metrics, especially for the quickly approaching Phase 1 Case Management go-live. DLIR and DataHouse need to maintain their increased collaboration and coordination to avoid further project constraints (2019.07.PM02). Improvements are still needed for deliverable review process (2019.07.PM03) and to address prior IV&V findings or lessons learned (2020.07.PM01).	0	3	0
R	R	R	Scope and Requirements Management	Requirements continue to be clarified and refined during Phase 1 UAT and Phase 2 development. Phase 3 requirements gathering is resumed and the requirements deliverable was deferred to the end of March 2022. DLIR improved processes to trace requirements to testing and acceptance but additional improvements in requirement traceability (2019.10.PM01) and requirements management processes (2019.07.PM10) are needed.	0	2	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

JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		_	
JAN	FEB	WAK	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED	
æ	R	R	Cost, Schedule, and Resource Management	Phase 1 Case Management and Phase 3 tasks are delayed. Phase 2 is generally on track and slightly ahead of schedule. A revised project schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June 2022, accelerate the Phase 2 go-live to November 2022, and compress the Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go-live is still quickly approaching and it is critical that plans and related tasks are clarified and finalized in order to stay on track with a new schedule. Additionally, the proposed project schedule should be reassessed based on the latest status of underlying tasks to ensure that the proposed schedule is still realistic and achievable. Improvements in schedule management practices (2019.07.PM13) are needed to monitor progress and prevent further delays. DLIR is in the process of procuring additional resources (2019.07.PM14). Resource engagement and ownership also improved. DLIR should continue exploring other resource management strategies (2019.09.PM02) to increase pace of work. Contract costs are within the total contract amounts. DataHouse is prepaid for Phase 1 and 2 but is adjusting Phase 3 invoices under the revised payment schedule. Improvements in cost management processes (2019.07.PM12) are needed to track and monitor other project costs.	0	4	0	
Q	V	V	Risk Management	DLIR and DataHouse are still working to address Phase 1 Content Management risks and issues but the time and effort that continues to be spent on Content Management is creating risks and issues for other phases. Risk mitigation plans for other phases of the project, especially the upcoming Phase 1 Case Management go-live, need to be developed and implemented (2019.07.PM09).	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

JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDIN		IGS	
JAN	FEB	IVIAK	CATEGORY	IVAV OBSERVATION	NEW	OPEN	CLOSED	
☆	☆	☆	Communications Management	Internal DLIR communications continue to improve with weekly briefings to communicate project status and upcoming activities. DLIR is in the process of procuring an additional resource that will help to develop a communications plan for external stakeholders (2019.07.PM07), which is also needed for the upcoming Phase 1 Case Management go-live. Continued open and transparent dialogue between all DLIR and DataHouse team members (2019.07.PM06) is critical for smooth and timely project execution.	0	2	0	
↔	☆	₩	Organizational Change Management (OCM)	OCM updates are emailed to stakeholders on a weekly basis. DLIR began to develop an OCM plan, surveys, and metrics to measure user participation and system utilization. Engagement and ownership from DLIR resources improved. Additional OCM plans and strategies (2019.07.PM08) are needed for other phases, including the upcoming Phase 1 Case Management go-live.	0	1	0	
☆	☆	☆	Business Process Reengineering (BPR)	DLIR continues to clarify business processes during UAT. Content Management business processes for the DCD stakeholder groups as well as the significantly more complex Phase 1 Case Management business processes still need to be clarified (2020.12.PM01). Improvements are also needed to discuss, prioritize, and analyze BPR opportunities (2021.08.PM01).	0	2	0	
6	•	•	Training and Knowledge Transfer	DLIR continues to update Phase 1 Content Management and Case Management training materials for end users and system administrators to incorporate information learned during UAT. DLIR testing leads also continue to provide supplemental training. The training format and dates for the upcoming Phase 1 Case Management go-live still need to be determined.	0	0	0	



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		S
JAN	LED	IVIAR	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
₹	V	Y	System Software, Hardware, and Integrations	Phase 1 Content Management technical system issues continue to be addressed but the complete status of issue resolution, root cause of those issues, status of user adoption, plans to address transition issues (2022.02.IT01), and system operation roles, procedures, and metrics (2019.09.IT02) remain unclear. The go/no-go checklist and revised go-live date for Phase 1 Case Management is still pending. It is critical for the go/no-go checklist and deployment activities to be finalized (2020.09.IT01) due to the significantly increased complexity of the system and higher number of internal and external stakeholders that will require greater coordination and longer lead times. DataHouse is completing Phase 2 development sprints ahead of schedule. The Phase 2 interface solution is still unclear (2019.07.IT02).	0	4	0
6	6	6	Design	No significant updates since the prior report. Further clarification is needed of how BPR opportunities could be addressed through system design (2021.08.PM01) and integration with external systems (2019.07.IT02).	0	0	0
Y	Y	Y	Data Conversion	No significant updates since the prior report. Procurement of DLIR data conversion resources is in progress to perform conversion of paper files. Additional clarification of plans to convert paper files (2019.11.IT01) is still needed.	0	2	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION		INDING	S
JAN	LED	IVIAR	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
R	R	R	Quality Management and Testing	Current performance metrics for Phase 1 Case Management testing are still below percentage completion targets (2019.10.IT01). Issues related to permissions settings for DLIR testers largely contributed to the delays. DLIR plans to revise the testing target metrics to align to the new proposed go-live timeline. Additional improvements in prioritizing and addressing UAT execution issues (2020.12.IT01) are also needed. DataHouse is progressing with Phase 2 system testing. DLIR and DataHouse still do not have formal quality management plans (2019.07.IT05). Quality metrics are critical for evaluating and monitoring project activities for acceptance and go-live readiness, which is especially critical for the upcoming Phase 1 Case Management go-live.	0	3	0
Y			Configuration Management	No significant updates since the prior report. Details of the configuration management plan (2019.07.IT06) including the DLIR approval process and management of concurrent development are pending.	0	1	0
Y	Y	Y	Security	A comprehensive security management plan (2019.07.IT07), formal security policies (2019.10.IT02), and an M&O plan (2019.09.IT02) are needed for both Phase 1 Content Management system operation as well as future phases, including the upcoming Phase 1 Case Management go-live.	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.

TERMS

RISK

An event that has not happened yet.

ISSUE

An event that is already occurring or has already happened.

Criticality Rating

The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the respective IV&V Assessment Area 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.



















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.



SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level



TERMS

POSITIVE

Celebrates high

performance or

PRELIMINARY CONCERN

Potential risk

requiring further analysis.

project successes.

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® v7	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 –
IEEE 29148-2018	Project Management 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
03/01/22	Interview with DCD Stakeholder

MEETINGS

DATE	MEETING DESCRIPTION
02/28/22	IV&V DCD Update Meeting
02/28/22	Weekly DCD Risk Meeting
02/28/22	DCD OCM Update Meeting
03/01/22	PM Status Meeting
03/01/22	Case Management UAT Stand-Up
03/01/22	OCM Working Session
03/02/22	IV&V DCD Update Meeting
03/03/22	PM Status Meeting
03/03/22	Phase 3 Case Management Requirements
03/03/22	Case Management UAT Stand-Up
03/04/22	IV&V Report Draft Walkthrough
03/07/22	IV&V DCD Update Meeting
03/07/22	Weekly DCD Risk Meeting
03/07/22	LIRAB Touchpoint Meeting
03/08/22	PM Status Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/08/22	Case Management UAT Stand-Up
03/10/22	PM Status Meeting
03/10/22	Case Management UAT Stand-Up
03/10/22	eCMS Testing Roundtable
03/11/22	eCMS Content Management Operation Metrics
03/14/22	OCM Touchpoint Meeting
03/14/22	IV&V DCD Update Meeting
03/15/22	PM Status Meeting
03/15/22	Case Management UAT Stand-Up
03/15/22	eCMS Testing Roundtable
03/15/22	OCM Working Session
03/16/22	IV&V DCD Update Meeting
03/17/22	PM Status Meeting
03/17/22	Case Management UAT Stand-Up
03/17/22	Phase 3 Case Management Requirements
03/21/22	Weekly DCD Risk Meeting
03/22/22	PM Status Meeting
03/22/22	Case Management UAT Stand-Up
03/22/22	eCMS Testing Roundtable
03/23/22	Content Management Quality Log and Helpdesk Issues Review



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/23/22	IV&V DCD 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)						
Design	Design of Form TDI-46 Denial of Claim for Disability Benefits (03/22/22)						
Forms	HC-15 Health Care Contractor Report (rev 03/2022)						
Development	Content Management Operations Documentation Version 1.0 (03/13/22, pending DLIR approval)						
Development	Case Management Phase 2 Build Burndown (03/03/22, 03/17/22)						
Development	DataHouse Development Team Status Meeting Minutes (02/23/22, 03/02/22, 03/09/22, 03/16/22)						
Development	Data Layout for Carrier Electronic Filing						
Governance	eCMS ESC Meeting Minutes (02/11/22)						
OCM	OCM Agenda (02/28/22, 03/14/22)						
OCM	DCD eCMS Modernization Project Update (03/02/22, 03/09/22)						
Quality	Content Management Quality Tracking Log (03/20/22)						
Quality	Metrics for Content Management Quality Tracking Log (03/20/22)						
Requirements	Requirements Traceability Matrix (RTM) (03/23/22)						



DOCUMENTS (CONTINUED)

ТҮРЕ	DOCUMENT						
Requirements	Phase 3 Case Management Requirements Gathering Meeting Notes for 03/17/22						
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 03/23/22 by DataHouse Project Manager)						
Risk and Issues	RAID Log (Updated 03/23/22 by DCD Project Manager)						
Costs	DCD eCMS Modernization Project – Services (03/23/22)						
Costs	eCMS AWS Costs and Operations (03/23/22)						
Schedule	eCMS Microsoft Project Plan as of 03/19/22 (MPP file)						
Schedule	Filtered Project Plans (Late Tasks, Upcoming 4 weeks) (02/28/22, 03/08/22, 03/15/22)						
BPR	DLIR Business Process Improvement Opportunities Log (03/23/22)						
Testing	Case Management Test Cases (03/23/22)						
Testing	Case Management UAT Metrics (03/23/22)						
Testing	Case Management UAT Salesforce Bug Tracker Export (03/20/22)						
Testing	Case Management Feedback on Award Worksheet (03/23/22)						
Testing	Phase 2 Case Management Test Cases (03/23/22)						
Testing	Phase 3 Case Management Test Cases (03/23/22)						
Training	DCD Content Management Training Guides (03/15/22)						
Training	DCD Case Management Training Guides (03/15/22)						
Training	DCD eCMS Administrator Guides (03/23/22)						
Training	DCD Content Management Data Backup Information (03/23/22)						
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-22-03-DCD (Release Date 02/10/22)						
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-22-02-DCD (Release Date 02/10/22)						



Appendix D: Prior Findings Log



Appendix D: Prior Findings Log

ASSESSMENT		ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY	FINDING ID	TYPE SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
System Software, Hardware, and Integrations	2022.02.1701	Moderate Moderate	Moderate	Content Management system and rollout issues resulting in low user adoption.	The eCMS Phase 1 Content Management system went live on January 222, 2022 and was noted out to a small number of users in one stakeholder group. In the month since go-live, users have encountered an unable of technical issues with the system including performance, reliability, functionality, and data. The Datahouse Content Management establishing functionality. The following is a summary of transition risks or issues: The process for reporting user issues is not consistent with some issues logged in the quality log, DUR Teams channel, or through enaul. Than the process for reporting user issues is not consistent with some issues logged in the quality log, DUR Teams channel, or through enaul. Than which is the design of the production issues. We have a summary of the process of the production issues. We have a summary of the process of the production issues. We have a summary of the production issues with the system, it is undest how much of this is due to user Coff issues for, user resistance or training needly. User adoption to lockers need to be detentified. It is not clear what the root cause is for the number of technical issues and user issues encountered in production. Feedback was collected from user in all essons learned session to identify areas of improvement to further analysis to determine root causes are still reseded. It is not clear what the countered users and improvement plans to specifically address these root causes are still reseded.	2022.02.IT01.R1	Improve production issue/defect processes. Develop a comprehensive and prioritized plan to address transition issues.	*Reassess issue/defect reporting processes and tools to improve consistency and ensure documentation retention. *Collect and use metrics to help in identifying production issue trends, analyzing system vs. user issues, and investigating root causes. **DUR and DataHouse should work together to evaluate and prioritize the transition issues with the greatest impact on user adoption and develop a clear plan and realists trimpact on user adoption and develop a clear plan and realists trimpact on user adoption and elevelop a clear plan and realists trimpact on user adoption and exercise plan and realists trimpact on user adoption and exercise plan and realists trimpact on user adoption and exercise plan and realists trimpact on exercise plan and exercise exercises exercise exercise exercise exercises exercise exercises exercise exercises exercise exercises exercises exercise exercises exercis	Open	03/23/22: Phase I Content Management technical system issues continue to be addressed to the complete status of issue resolution, root cause of those issues, status and metrics for user adoption, and plans to address transition issues renain unclear. DIRP plans to restrict access to the legacy system after the last critical schinical issue is addressed. Acculty will continue to monitor the progress of Content Management rollout and adoption.		
Business Process	2021.08.PM01 F	Risk Moderate	Moderate	Inadequate attention to and framework	issues, it is unclear what the comprehensive pian or ameline is to accress both technical and user issues to successfully transition all users onto the new system. In the initial round of Phase 2 design sessions, preliminary design mock-	2021 08 PM01 R1	Identify and analyze BPR	Consider areas with greatest impact or value due to transaction	Open	Refer to prior IV&V Monthly Report for status updates before October 2021.		
Reengineering	202106-1901	wooderate	Moderate	inadeguate attention to and transwork for BPR may reduce operational performance gains schieved.	ups were presented and did not seem to completely address the requests and current operational pain points raised by DLR SMS during the requirements gathering stage. While some features were presented that will help to improve operational performance, there were insisted opportunities to achieve even greater improvements through system automation, integration, and capabilities. Design sessions with SMEs were more focused around technical design aspects while the SMEs sometimes struggled to understand the business context of the design or how the system could help to solve operational challenges. Business process improvement is a key deliverable identified in the FPP and in DataHous's contract but there are no formal plans or processes for BPPs and activities. As such, it is difficult to assess the effectiveness and mancapains targeted and achieved. Solutions to address BPP opportunities continue to be explored in follow-up design sessions as well as during the build stage; however, it is critical to identify and address these early to prevent additional effort to correct item. DIR plans to mere with SMEs prior to meetings to better prepare them to actively and effectively participate in project activities. Data Vious plans to provide more background and business context during follow-up design sessions. Although this finding is reported under the Business Process Reenjineering VBV Assessment Claegory, this finding also impacts the criticality rating for Design. In addition to the specific recommendation made as a part of this finding, the VBV encommendation made at funding 2000.12.PMOI will also help to address this issue.		identify and analyze bits opportunities.	**Continue" areas with gleatest impact of value (are to stransaction volume, severily of pain points, or providly within DUR's operational volume, severily of pain points, or providly within DUR's operational paints (area) are continued to the point of the points of t	Open	neter to prior haw wommy report to status updates before Coloner 2021. 10/26/21: DUR began to track some BPR opportunities in a log. 11/29/21 and 12/29/21: No updates to report. 01/25/22: Some BPR opportunities continue to be discussed in Phase 2 development sprint sessions and Phase 3 requirements gathering, lidentification of those BPR opportunities with the greatest impact or value is still needed. 02/24/22 and 03/23/22: No updates to report. Acculty will continue to assess BPR and design processes.		
Governance Effectiveness	2021 (S.PO01)	Moderate Moderate	Moderate	insufficient support and guidance from project governance may limit the project's ability to overcome current project challenges.	Since December 2000, DLIR and DataHouse have been working to address and analyse various Content Management issue, Fedfer to finding 2021 03.3101). In March 2021, DataHouse presented three options to the ESC for the Content Management solution. Previous plans and timelines to make a decision resparding the Content Management solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more than decision to the postpone of	2021 05.PG0 1.R1	Increase project governance involvement.	*Obscuss high-impact harien/blockers and mitigation plans for critical issues with ESC. *Evaluate how various ESC members can be everaged to remove barriers and execute mitigation plans. *Consider adding additional ESC meetings until critical issues are resolved. **Consider establishing more frequent touchpoints with DLIR and DataHouse project sponsors to more closely monitor and drive progress of executing mitigation plans for critical issues.	Open	Refer to prior IV&V Monthly Report for status updates before Cctober 2021. 10/26/21: The ESC reviewed DataHouse's revised payment schedules and approved the new project timelines. 11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again. Additional oversight is needed to ensure revised timelines are achieved. 11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again. Additional oversight is needed to ensure revised timelines are achieved. 11/29/21: The CMS Project is facing a number of significant challenges that could prevent successful completion of all time phase in 20/22 so planned. The ESC, ETS, and senior DataHouse and DUB leaders should increase oversight to guide the project to success. The DataHouse Project Sponsor significantly increased and issues of 11/25/22: The DataHouse Project Sponsor significantly increased missing the project to the Phase 1 Case Management go-live that to currently at risk. 20/24/22: DataHouse's additional resources committed using the Project to the Phase 1 Case Management go-live for IIARA are not currently being deployed. It is important for project governance he agreedly critical for guiding the project to the Phase 1 Case Management go-live for IIARA are not currently being deployed. It is important for project governance he belg uside the project forward in order to avoid recurring schedule delays. 20/23/22: The eCMS Project Executive Steering Committee (ESC) was not able to meet this month to discuss project updates, risk, and Essus The DataHouse wellness plan is expected to be provided in April 2022. Acculty will continue to monitor governance effectiveness.		

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING ANALYSIS	RECOMME		RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	CLOSED FINDING STATUS UPDATE DATE CLOSURE REASON
Business Process Reengineering	2020.12 PM01	Risk	Moderate	Moderate	Unclear business processes supporting dense waystern may impact testing and go-live readiness. The grading how the system will be used after interin Comen Management go-live as well as the integrated Case Manage The most critical business process in question is the use of the Proportion of the common support of the properties of the use of the business process for date entry and scanning of these form interim phase. Other examples of business process in comming of these form interim phase. Other examples of business process that clarified include initial paper conversion scanning, subseque and indexing of files, transferring of cases to LIRAR during it preparing and viewing select documents for hearings, storin files associated to mulpiles cases, and sacceptable use of an electronic documents. Clarification of business processes in will be used in the future. Clear understanding of business, also important to provide timely communications and nece to impacted stakeholders prior to go-live.	tement go-live. the new quick related d. dufing the need to be ent separation he interim, ng/indexing notations in octitical to the system processes is	M01.R1	Clarify redesigned business processes.	*Identify business processes that need to change with the modernized system. *Docus 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 process improvement performance goals and success metrics. *Consider oreating business process flows for the interim Content Management phase. *Consider creating business process flows for the interim Content Management phase. *Consider creating informational flyers/cheat sheets to help internal and octumal stakeholders understand and prepare for business process changes.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DLIR reached a decision on a critical Content Management business process but needs to further clarify the process details for the upcoming go-live. 11/29/21: DLIR continues to discuss and clarify some of the Phase 1 Content Management business processes questions that are arising during UAT. 12/29/21: DLIR is making progress on drafting additional process documentation related to scanning. However, a couple key business processed decisions incluse Lo Content Management are still prending and need to be determined due to the upcoming go-live. 10/25/22: Business processes continue to be discussed and refined for the limited DLIR takeholder group in the first rollout of Phase 1 Content Management. Content Management Content Management Content Management Dusiness processes for other stakeholder group as well as the significantly more complex Phase 1 Case Management business processes still need to be clarified. 02/24/22: No updates to report. 03/23/22: Changes to business processes around the new Case Management system need to be clarified in preparation for the upcoming go-live.
Quality Management and Testing	2020.12.FT01	haue	Heigh	High	Outstanding project risks are impairing the searchion of UAT which may impact scheduled by complete testing in the first week of January 2 quality and project success. Searchiol of UAT which may impact scheduled by complete testing in the first week of January 2 quality and project success. Searchiol of UAT which may impact searchiol of the complete testing in the first week of January 2 quality and project success and the subdiscript propeate testes prior to UAT in the complete testing of the complete testing the complete success pada the result of accepting residual sizes in aggregate. Acequate UAT in ensure quality and overall project success goals are met and project sable to more forward. The following project risks (refer to Appendix D. Prior Findings Log) are impairing UAT shadequare Resources (2010 70 PMIA) 2, 2000.03 PMIO 1 have disposed testing and the complete sequences (2010 70 PMIA) 2, 2000.03 PMIO 1 have disposed testing and testing owner with test case preparation, tester training, and testing owner which test cases preparation, tester training, and testing owner inadequate Schedule and Resource Management Process (2010 70 PMIA) and 2019 70 PMIA and 2019 70 PMIA 1 pmile testing testing testing the complete Requirements (2010 70 PMIA) the refeable testing testing testing the complete sequences (2010 70 PMIA) and project success schedule and discource Management Dior Residual Schedule and Resource Management Process (2010 70 PMIA) and 2019 70 PMIA 1 pmile testing	021. DLR isciscion, teating de did did did did did did did did did		Develop a prioritized plan to address UAT execution issues. Improve DUR understanding of issue/defect resolution.	*Dulk and DataHouse should work together to evaluate and prioritize the UAT execution issues with the greatest impact on the Content Management golve date. *Develop a deer plan and inability of DUR project resources. *DataHouse should provide additional clarification and demonstration of the functionality to be provided by the stand-alone Content Management solution and the integrated Case Management solution in the work of the functionality to be provided by the stand-alone Content Management solution and the integrated Case Management solution will be publicated by the stand-alone Content Management solution. This will help DLI lives used understand policy of temporary understand options (i.e. such account, change requestic, alone). *For issues not fixed by Dashbause, DLIR should ressue stakeholders understand options (i.e., work around, change requestic, change requestic austes to provide ungentifiable metrics for system acceptance and the golving op decision. *Consider which issues/defects can be addressed after go-live by agreed-upon resolution dates.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 1026/25/11. It is unclear what the impact of neart berhinal issues may be to the san of Phasa. Consent Management IVAT scheduled to begin in November 2021. UAT execution issues need to continue to be analyzed, prioritized, exalled, and resolved he neare UAT can be timely completed. DUR and DataHouse made improvements to test processes and plans (fefer to finding 2019 / 1010/101) to better prapers for upcoming IVAT. DUR and DataHouse still need to further improve the issue/defect reporting tool and resolution process. 11/29/21: The Phase 1 Content Management timeline was deferred due to technical issues. DataHouse and DUR are working to resolve the top three stouchs of the content of th

ASSESSMENT		ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
System Software, 2020.09.IT01 Integrations	Issue	High	High	Unclear going op criteria may impact the orderly complication of all tasks required for system golive.	The criteria for the goino-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 readmess of users. Various project plans often include or establish select criteria, however, some of these releaded plans included or establish select criteria, however, some of these releaded plans and 2019 to 10.011 (1) the quality management plan 1001 00.71105, and security management plan (2019 00.7107). Additionally, acceptance criteria for requirements (2019 10.7107), additionally, acceptance criteria for requirements (2019 10.7107). Additionally, acceptance criteria for requirements (2019 10.7107), and considerables. The Content Management system is scheduled to go-live on November 23, 2020 and Case Management on June 14, 2021. With the Content Management plans were date quickly approaching, it is important to establish clear criteria for the go/no-go decision. DUR sp lanning to draft a goin-go-go-levellat to summarize all of the criteria and tasks. Daral-fouce plans to provide a cutover plan to provide additional information about pre and post go-live tasks.	2020.09.1701.81	Establish complete and clear go/nc	*Establish golino-go criteria in advance of the ge-live decision to allow for sufficient time for state to be completed and criteria satisfied. *Ensure all parties agree upon golino-go criteria including impacted stakeholden. *Consider golino-go criteria such as all requirements meet acceptance criteria and are approved by DUR, end user training is completed, and "Consider settli dissease" and the state of the state	Open	Refer to prior IV&V Monthly Report for status updates before Cctober 2021. 10/26/21 and 11/29/21: With Content Management go-live approaching in less than three months, its critical that goin-op-orienta are finalized. Clear goin-op- and acceptance criteria are critical for ensuring quality and overall project success golds are satisfied and verified prior to acceptance and moving the system into production. 12/29/21: Phase I Content Management go-live is less than a month away and Phase I Case Management go-live is the months away. Clear go/no-go-criteria and milestones need to be established. 01/25/22: DLIR and DataHouse established a consolidated go/no-go-checklist for the first rollout of Phase I Content Management. Checklist items were pointized between pre and post go-live completion. DLIR and DataHouse agreed that post go-live items will be completed by the end of February 2022. Goin-go-checklist are still needed for the DCD rollout of Phase I Content Management planned for February 2022 and Phase I Case Advanced to the significantly increased complexity of the system and higher number of internal and esternal stakeholdes that will separate coordination and longer lead times. 02/24/22: The Phase I Case Management March 31, 2022 go-live is deferred but the revised schedules is pending. It is critical for the go/no-go-checklist and deployment activities to be finalized.		
Project 2020.07.PMO Organization and Management	Prince	High	High	Limited progress to address previously identified deficiencies for foundational project process my result in recocurring issues and delays.	New 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, resource management, requirements management, resource management, requirements management, resource management, requirements combibute greatly to overall project professor described to project ascertal and scheduler combibute of project described progress of the project ascertable deficiencies consolituded to project described progress of the project was defined deficiencies of the project of the project was defined to the project with the project was defined to the project with the project was delayed several times for MVS due to undear requirements, tasks, and resources needed as well as 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 becamed on the project to date, and make necessary improvements for upcoming activities. Additionally, addiessing deficiencies will be their position the project to hade, and make necessary improvements for upcoming activities. Additionally, addiessing deficiencies will be their position the project to hade, and make necessary improvements for upcoming activities. Additionally, addiessing deficiencies will be their position the project to hade, and make necessary improvements for upcoming activities. Additionally, addiessing deficiencies will be their position the project to hade, and make necessary improvements for upcoming activities. Additionally, addiessing deficiencies	2020.07 PM01.R1	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, includual team members, and governance. *Document lessons learned and necessary actions or follow-up to prevent recoursence of similar issues. *Prioritize based on relevance to upcoming activities; consider focusing nequirements management and BPR processes to opinize effectiveness and efficiencies of upcoming requirements gathering sessions. *Develop high-level smeline and tasks for addressing deficiencies and begin tracking progress.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 1026/21: DUR and DataHouse made incremental improvements in many areas of the project. The DataHouse Project Sponsor also instated discussions with NW to begin discussion with Tools can for improvement, and make adjustments to processes and plans accordingly. 1129/21: DUR and DataHouse continue to make incremental improvements but momentum has slowed from the prior month. The cCM Project is already experiencing some challenges and setabets under the rebaselined project schedule. Continuous improvements in project processes are critical to prevent recoccuring delays and improve project performance are critical to prevent recoccuring delays and improve project performance. 10/25/22: DataHouse Aroject Sponsor plans to prepare a wellness plan to address identified deficiencies. 10/25/22: DataHouse assigned a resource to help with closing out prior IV&V findings, DUR plans to perform a retrospective after the Phase 1 Content Management go-live to review lessons learned and make changes for future phases. Immediate adjustments of foundational project management processes must be made to prevent recocuring delays and improve project performance, especially for Phase 1 Case Management. 20/24/22: A Lessons learned meeting for Phase 1 Content Management various conducted. Developing and securities plan to address project risks and issues is expected to be provided in April 20/22. Addressing these previously identified deficiencies and lessons learned discussion will better position the project position and adjust to changes going into other phases. The wellness plan is still pending. 20/3/23/22: The DataHouse wellness plan to address project risks and issues is expected to be provided in April 20/22. Addressing these previously identified deficiencies and lessons learned from the Phase 1 Content Manageme		
Data Conversion 2019:11.JT01	Issue	Moderate	Moderate	Unclear data convention plant a high processes may processes may be DLR's ability to prepare for proper data conversion.	The Content Management Convenion and Migration (version 1.2 pecking DUR Approva) and Case Management Convenion and Migration (version 1.1 pending DUR approva) discribe the data conversion process and roles and responsibilities between Chatthous and DUR. DUR is responsible for performing IUAT on the data and utilitizedly singling off on the final reconciliation reports but has not yet formalized plans for these tasks. The data conversion plans do not provide sufficient details and DUR does not have insight to have one of the posterior of the posterior of the process and version. As such, DUR is unable to properly prepare for their part in the process and will not be able to adjust their data conversion bears, and estimp. As such, DUR is unable to properly prepare for their part in the process and will not be able to adjust their data conversion bears for scanning current paper files to resure necessary data quality to support system use at go-live. The IVAY recommendations made at 2019 O.7 PMOS R3 and 2019 O.7 PMOS R2 and 2019 O.7 PMOS R3 and	2019.11.IT01.81 2019.11.IT01.82 2019.11.IT01.83	data conversion process.	explain how data convension tools perform validation and reconciliation steps and share available reports and logs. *Explain the process for how the data convenion plans will be updated for changes in system requirements. *Provide details on timing, number of data extractions and tests to be performed, and necessary remapping of data. *Focus DUIT tests to address identified data convenion fishs and issues. *Focus DUIT tests to address identified data convenion fishs and issues. *Estimate data convenion test resource needs and ensure adequate resources are identified, trained, and scheduled (yefer to findings 2019.09 PM02 and 2019.07 PM14). *Evaluate the impact on operations and project success of different data convenion reasoning approach options. *Estimate scanning time requirements and begin to schedule or acquire necessary resources (refer to findings 2019.09 PM02 and 2019.07 PM14).	Open	sefer to prior IV&V Monthly Report for status updates before October 2021. 10.26.21: Phase 1 Case Management data validation testing is mostly complete with DIA and DataHouse working to address the remaining issues. After going through the data conversion testing for Phase 1, DLIR better understands DataHouse value conversion process and the importance of formalizing their own test plans. DLIR and DataHouse should continue to refine processes including issue status and resolution, DLIR testing documentation, and test metrics. DLIR and DataHouse should continue to refine processes including issue status and resolution, DLIR testing documentation, and test metrics. DLIR and DataHouse still need to discuss and plan for the conversion of paper files. In 11.26/21: DLIR discussed when paper files should be scanned in but no decision or plan was made. 11.26/21: DLIR discussed when paper files should be scanned in but no decision or plan was made. 12.29/21: DLIR is looking to procure additional data conversion resources and is assessing options for scope and timing of paper files to be scanned. 01/25/22: Procurement of DLIR data conversion resources and closed cases for the last 30 years. The estimated contract start date is early March 2022 and the straget completion date is Pethary 2023. It is undershow the timing of this work will impact the use of the new system or business processes for the Phase 1 Content Management DCD rollout and the Thase 1 Case Management ge-live. 02/24/22 and 03/23/22: No updates to report.		

ASSESSMENT			ORIGINAL	CURRENT						FINDING	CLOSED
Scope and Requirements Management	2019.10.PM01	Risk	High	Moderate	The current RTM documentation and tool may hinder traceability, which may impact the ability to ensure the overall ec.CMS solution fulfills all requirements and provides contact and expectations and provides contact and expectations for design, development, and testing.	developed separate from the DataHouse contract requirements and more detailed requirements were developed by the Content	2019-10-PM01.R1	Improve requirements traceability.	*Trace contract requirements to requirements subsets used by the development teams to ensure completeness. *Consider identifying high-level requirements that duplicate more detailed requirements to reduce redundancy in traceability to design and the requirements to reduce redundancy in traceability to design and the requirements to reduce redundancy in traceability to design afficiency of the requirement and the requirement tool with greater functionality.	Ореп	Refer to prior YNAV Monthly Report for status updates before October 2021. 1076/91: DataHouse continues to make updates to the RTM for changes in underlying deliverable using the same traceability approach. As a way to industry the state of the state
Quality Management and Testing	2019.10.1701	Issue	High	High	Lack of approved test plans may impar the execution and quality of test activities and documentation.	According to the Project Management Plan (sersion 1.3), the DataHouse test plane was scheduled for completion on September 3, 2019. Due to test plane was scheduled for completion on September 3, 2019. Due to the recell to focus securics on the AMS what pan derebond connections. DataHouse is now targeting to complete the test plan in November 2019. DUR planed to complete the DUR test plan in October 2019. Due to resource constraints and the need to work on other DUR TI ministeves, the DUR test plan in october 2019 and the plan may be combined with the DataHouse test plan. As DataHouse test activities are scheduled to begin in November 2019, DUR needs to understand DataHouse test strategy and test needs. DUR also needs to establish ther own test strategy as well as identify, tain, and schedule DUR test resources.		Finalize the test plan.	Identify applicable test standards and requirements. *Delinear roles and responsibilities between DataHouse and DUR feder to finding 2010 / PM02). *Estimate test resource needs and ensure adequate resources an clerofficed, trained, and scheduled (yefer to findings 2019 / 0.9 PM02 and 2019 / 0.7 PM1 4).	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DUR plans to break Plase 1 Case Management and Phase 2 UAT into UAT group test cycles but exact dates for these test cycles need to be finalized. DUR and Data blowa also calified some key test processes and dates prior to the stant of UAT. DUR still needs to assign test cases, prepare test data, collect and monitor test metrics, and coordinate performance tests. 11/29/21: Phase 1 Content Management UAT was deferred due to technical issues and is now rescheduled to begin in December 2021. Phase 1 Case Management UAT did not begin in December 2021. DUR confined to prepare test cases, develop test instructions and reference materials, and refine test processes for the bugoning UAT. 12/29/21: Performance metrics for both Phase 1 Content Management and Case Management UAT did not begin in December 2021. DUR confined to prepare test cases, develop test instructions and reference materials, and refine test processes for the purposing UAT. 12/29/21: Performance metrics for both Phase 1 Content Management and Case Management UAT did not begin to December 2021. DUR confined test cases. DUR does not have sufficient testing resources consistently performing testing and plans to onboard more testers in January 2022 to increase the pace of testing. Aljustments to DUR's testing approach and processes are needed pasts to onboard more testers in January 2022 to increase the pace of testing. Aljustments to DUR's testing approach and processes are needed pasts to onboard more testers in January 2022 to increase the pace of testing. Aljustments to DUR's testing approach and processes are needed progression testing with a targeted completion at the end of "elevaury 2022 to processes are needed progression testing with a targeted completion at the end of "elevaury 2022 to processes are needed completion at the end of "elevaury 2022 to processes on the pace of testing resources and in making progress to start planning and adjusted immediately. 2
Security	2019.10.IT02	Risk	High	High		OUR currently does not have formal security policies to determine durently requirements for the eCMS project and does not have security procedures in place to a deepastely protect eCMS Project data. The lack of policies primarily impacts the completion of the AMS setup and the Content Management solution component. Security requirements for the cloud environment must be determined and corroris implemented before the AWS environments can be used for planned data conversion and testing activities. The determination of security requirements is critical as data conversion activities are already delayed for the AWS environments can be used for planned data conversion activities are already delayed for the AWS environments can be used for planned data conversion activities are already delayed for the AWS environment for management plan and design that Deathouse is responsible for (refer to finding 2010 2017 IDI). Security prelicies and the explication security requirements should be determined immediately to prevent further delay of the project.	2019.10.IT02.R1	Formalize security policies. Formalize and implement security procedures.	Work with ETS to align DUIR 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 an monitoring, MFA, remote access, encryption of data-at-rest and data-intensity in the control of the	Open	Refer to prior IVBV Monthly Report for status updates before October 2021. 10/26/21, 11/29/21, and 12/29/21: No updates to report. 01/25/22: DLIR clarified some of the security requirements for Phase 1 Content Management with ETS. 02/28/22 and 03/23/22: No updates to report. Acculty will evaluate the security policies, requirements, and procedures as they are finalized.

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	
Cost, Schedule and Resource Management	2019.09 PM02	Risk	High	High	Undefined resource management processes and proceduser may result in unidentified resource requirements, inadequate resources, or project resources that are not optimally utilized (Updated)	This was originally reported in the September 2019 N&V Monthly Report. The Project Management Plan (yession 1.3) includes a human resource management scient that outlines the high-level roles and responsibilities of various team members but does not define a process for how resources will be managed. This vill become more critical for DUR as the project gears up for more resource demanding activities including data conversion, testing, and apprint reviews. Addisonally, DUR project team resources are not fully dedicated to the project and still perioden drive judicia. Developing processes and procedures to track and quartify upcoming resource needs, identify available resources, procure or obtain commitments of resources, manage resources to act and caused to the commitment of resources, manage resources and their appendion, and train a committed with assigned resources, and their appendion, and train a committed or an advantage of the contract	2019.09.PM02.R2	Oevelop procedures to estimate and refine DLI Resource requirements. Develop processes to optimize utilization of DLIR project resources.	Detail necessary steps and information needed to estimate and refine resources regularements. *Consult DataHouse for input on upcoming activities that require DUR resources and darly expectations of resources. *Assign responsibility for and establish target due dates to develop resources estimates for major project activities (e.g., data convenion, testing). *Consider working with managers of project resources to reassign team member of other job duites. *Consider working with managers of project resources to reassign team member of other job duites. *Consider predictally reconfirming and renewing resource commitments to the project. *Consider predictally reconfirming and renewing resource commitments to the project. *Consider predictally reconfirming and renewing resource commitments to the project. *Consider predictally reconfirming and renewing resource commitments to the project. *Consider predictally reconfirming and renewing resource commitments to the project. *Consider promitments to the project communications, CDM) and assignment. *Consider promitments are properly trained and prepared to perform their assignments. *Consider promitments are properly trained and prepared to perform their assignments. *Consider promitments are properly trained and prepared to perform their assignments.	Open	Refer to prior IWAV Monthly Report for status updates before Cictober 2021. 10/26/21 and 11/29/21: DIR plans to manage IUAT resources by breaking UAT into test cycles and teams, scheduling specific days of the week for testing, and holding recurring meetings to address questions and issues. Additional resource management strategies are still needed for other activities and phases. 12/29/21: Plans to manage IUAT resources in test cycles, teams, and days did not occur as planned. 01/25/22: Resource management is one of the issues with the greatest separation over a planned. 01/25/22: Resource management is one of the issues with the greatest separation over a planned. Only the company of the company			
System Software, and tracgrations	2019.09.1T02	Risk	Moderate	Moderate	Unclear MAC roles and exponubilities, may impact operational readiness after transition. (Updated)	This was originally reported in the September 2019 N&V Monthly Report as a preliminary concern but is upgraded to a risk in this report. The MoX Oroles and reportabilities and plans for developing support processes and procedures are currently unclear. DLIR is considering executing a support option in their contract with Dashbours to help with MAG after go-live as it is uncertain if DLIR EDPSO will have adequate resources to perform required MAG. The COVID-19 pandemic yelfer to finding 2020.03 PMO11 further exacerbates and creates additional uncertainty with regards to DLIR EDPSO and ETS resources. The roles resources to perform required MAG. The COVID-19 pandemic yelfer to relating the DLIR EDPSO and ETS resources. The roles responsibilities with ETS and Dashbour need to be clarified. This will help to quantify 65M MSO resource requirements (yelfer for finding 2019 0.0 PMO2) and either identify resources within the existing DLIR EDPSO team or acquire the necessary securices 2019-0. PMI-0.1 This should be done with sufficient time for training and knowledge transfer so that MSO resources are in place as polive. Clarifying MSO roles and responsibilities will also help to develop the related security management plan (refer to finding 2019 0.7.1707).		Clarify M&O roles and responsibilities.	*Discuss terms of DataYouse support option to understand level of support, cost structure, and timing of transition. *Clarify any shared responsibility with ETs and enterprise tools that can be leveraged.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: With the December 2021 Phase 1 Content Management go-live quickly approaching, it is critical for M&O roles and responsibilities to be clarified and finalized. 11/29/21: DLIR and DataHouse came to an agreement that turnover of the systems will be at the end of all three phases. M&O roles and responsibilities during the interim period between go-live and system turnover need to be further clarified. 11/29/21: DLIR and DataHouse parent go-live is less than a month away, and Phase I Case Management go-live is three months away. M&O roles and responsibilities during the interim period still need to be clarified. 11/29/21: Phase I Content Management go-live is three months away. M&O roles and responsibilities during the interim period still need to be clarified. 10/25/22: DUR and DataHouse plan to discuss M&O roles and responsibilities post go-live for Phase 1 Content Management. 02/24/22: No updates to report. 02/24/22: No updates to report. 02/33/23: System M&O roles, procedures, and metrics are still unclear two ownershapen go-live for Phase I Content Management. DUR provided declaration of the content Management on During provided deverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable in April 2022 that will have more detailed M&O information. DuR also continues to update Phase I Content Management and Case Management training materials for system administrators to incerporate information learned during UAT. Acculty will continue to evaluate M&O as roles and responsibilities are clarified.			
Data Conversion	2019.09.IT03	Risk	Low	Low	Unsupported IBM Lotan Notes Domino Case Management may impact the execution of data conversion activities. Updated)	This was originally reported in the September 2019 V&W Monthly Reports as preliminary cornem but is upgoaded to a risk in this report. The current case management system, IBM Losus Notes Domino, is no longer supported. The product was sold by IBM to Hct. Technologies, an Indian IT company, DLIR's Iscenses for the product ended in June 2019 and DLIR is unable to renew the Iscenses as Hct. Technologies is not a State Procurement Office (SPO) compliant vendor. This system will be replaced by the GNS Case Management solution which was sheduled to go-live in November 2020 but this was tentatively pushed back to June 2021. 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.	2019.09.IT03.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	Refer to prior IWAV Monthly Report for status updates before Cctober 2021. 10/26/21, 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to monitor this preliminary concern.			
Benefits Realization	2019.07.PG0S	Risk	Moderate	Moderate	Not defining, tracking, or using clear and measurable goals and success metrics to evaluate project and contractor performance may reduce benefits expected at project completion.	The eCMS Project does not have a project charter that would have behigden for formalize the project goals, target herefits, and success metrics at the start of the project. Based on informal recommendations made by Team Accing during the initial VBV on onthe review, DLR is in the process of creating a project charter that includes clear goals and success metrics. The lack of clear and measurable goals and success metrics makes it difficult to determine if the project and technical southon will achieve the desired level of improvement or benefits that justify the projects financial investment. Goals and success metrics made to be defined before going any further in the project as they should be guiding all key decisions throughout the entire project.	2019.07.PG05.R1 2019.07.PG05.R2 2019.07.PG05.R3	Formalize measurable goals and success metrics in a project charter control of the control of th	Consider financial, nonfinancial, tangible, and intangible metrics such so perational ley Performance indicators (IVR), customer or employee satisfaction, user adoption, return on investment, or cycle or processing times. *Consider project management, organizational change management, and benefits realization management objectives as well as alignment to DLR goals. *Consider project management objectives as well as alignment to a consider project management objectives as well as alignment to DLR goals. *Consider project of callecting data such as surveys, operies, observation, open forums, or actual performance testing. *Consider sources of data such as legacy systems, operations, and internal and external stakeholders.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/24/21, 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to evaluate the collection and monitoring of success metrics data.			

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED	CLOSURE REASON
Project Organization and Management	2019.07.PM02	Risk	High	High	The current project management organization may hinder project performance.	The eCM2 Project has failed to achieve team yeargy between DUR and DataHouse project team members and appear to work as separate trams instead of one. DataHouse works almost exclusively off-site except for designated meetings, workshops, and design sessions and DUR is not included in many project design or development activities. The unclear contract teams regarding olders and responsibilities between DUR and DataHouse (refer to finding 2019 07/P003), physical separation of the project team, and limited collaboration or DUR involvement have all contributed to the siloed workstreams. This has also led to ineffective communications within the project team (refer to finding 2019 07/P006).		Clarify roles and responsibilities between DLIR and DataHouse. The DataHouse Project Manager should work onsite at DLIR through project completion to improve DLIR and DataHouse project team cohesion.	Consider mixing project management plans to identify the person responsible and its specific responsibilities for each project management area. *Consider the need to include an ordline of DUR and DataHouse roles and responsibilities in a contract modification (refer to finding 2019.07.PG03).	Open	Refer to prior IV&V Monthly Report for status updates before October 202 10/26/21: There were improvements in collaboration between DUR and DateHouse. The DUR Data Convention Lead is working closely with the Data House counterpart. The DUR business analyst contractor is also working directly with the Case Management development team. Recrimensing between the Content Management development lead and DUR test team are shoulded to occur during UAT. Database also agreed to hold periodic meetings focused on technical topics. With the aggressive timeline, effective project management including prioritization of tasks, flu collaboration, transparent diadogue, swift risk and issue resolution, and careful coordination of limited resources are key.	9	
							2019.07.PM02.R3	Include DLIR in project activities and communications to increase DLIR and DataHouse project team cohesion.			11/29/21: The recurring meetings between the DataHouse development teams and DLR test teams during UAT were deferred due to the rescheduling of UAT to December 2021. 12/29/21: Recurring meetings between the DataHouse development tear and DUR started for Content Management UAT but did not begin for Cas Management UAT DLA development tear to the Cast Cast Cast Cast Cast Cast Cast Cast	n t	
											to thase I Content Management go-live to coordinate, prioritize, complet or miligate deployment activities to keep the project or tack with the scheduled go-live. Data House on-site resources worked closely with the DLIR stakeholders in the first rollout of Content Management. Momentur achieved through increased collaboration and coordination during this firs major miliestone needs to be quickly transitioned to the next rollout. 02/24/22: The continuing work from Phase 1 Content Management go-liv has caused an increase in schedule and resource issues for other phases. DLIR and Data House need to maintain their increase collaboration and		
											coordination to avoid further project constraints. It is used conscious on a 30.37.302: DUR and the DataHouse Content Management development team were working closely together to resolve production issues. The recurring stand-up meetings also help to improve collaboration between DUB and DataHouse for Case Management LNT issued/fect resolution. Additional collaboration and communication is needed around Phase 2 and 3 activities. Acculty will continue to evaluate the clarity of roles and responsibilities an		
Davids and	2010 07 01402		Madana		The country of the control of the co	Davidson of the best of the be	2010 07 0402 01	Facility of December 2		0	observe the effectiveness of project organization.		
Project Organization and Management	2019-07-PM03	Issue	Moderate	Moderate	The current deliversible review and acceptance process has contributed to project delays and resulted in the acceptance process has contributed to project delays and resulted in the acceptance of deliversibles that do not meet industry standards.	DataHoxee prepares project deliverables and submits to DLIR for review. As DLIR has had limited involvement in project activities or hepreparation of deliverables (refer to finding 2019.07 PMOZ), 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 protected reviewe periods and acceptance of deliverables that so do not meet industy standards (refer to finding 2019.07 PMOZ), a lack of a glast plantable listing or acceptance criteria (refer to finding 2019.07 PMOZ), a lack of a quality management process and resource to verify deliverables lefter to finding 2019.07 PMOZ, a lack of a glast plantable lefter for finding 2019.07 PMOZ, and contribute to an inference deliverable review and 1990.07 PMOZ period to the company of the company of the process and resource to verify deliverable lefter for finding 2019.07 PMOZ, and the contribute to an inference deliverable review and the contribution to an inference deliverable review of the contribution to an information of the resource of the resource of the resource of the contribution to an information of the contribution to an information of the contribution of the c	2019-07-PM03-R1 2019-07-PM03-R2 2019-07-PM03-R3	Establish deliverable acceptance criteria. Isold joint DLIR and DataHouse deliverable review meetings to wall through deliverable review meetings to wall through deliverable review and approval processes.	Consider including acceptance criteria in the quality management plan infert to finding 2019.07.105, in a contrast amendment (refer to finding 2019.07.PG03), or in Deliverable Expectation Documents (DED), which was a contrast of the contrast of the contrast of the quality control process for correctness (Peter to finding 2019.07.105). Whetched are valuation of deliverable against acceptance criteria and resoluted and are approachabilities and ultimately the quality of the technical solution and success of the project.		Refer to prior IVSV Monthly Report for status updates before October 202 1076/6/21: Accuity decreased the severity rating from Level 1 (High) to Lev 2 (Moderate) as DLIR completed review and approval of many pending deliverables. DataHouse held deliverable walkthrough meetings for the Phase 2 design deliverable and walkthrough meetings for the Phase 2 design deliverable and select log with SMEs to facilitate more timely review of the Phase 2 design deliverable. 11/29/21: DLIR signed off on the Phase 2 design deliverable. 12/29/21: No updates to report. 01/25/22: DLIR signed off on the Phase 1 Content Management system installation and configuration deliverable but it is unclear what the acceptance criteria was and whether the deliverable adequately documen the information DLIR needs in order to perform M&O for the system (refer also to finding 2019.09/1102). DLIR also signed off on Centent Management UTA and final data migration even though there are pending issues that need to be addressed by either DLIR or DataHouse. 02/24/22 and 03/23/22: DLIR continues to sign off on additional DataHou deliverables but is unclear what processes or factors were considered in acceptancy ill continue to evaluate the effectiveness of the deliverables review and acceptance process.	el la	

ASSESSMENT	ENIDING ID	TVOE	ORIGINAL CI	URRENT	ENDING	ANALYSIS	DECOMMENDATION ID	DE COMMENDATION	FINDIN	S CHICAGO CTATUS UPDATE	CLOSED	CLOCURE REACON
Communication	2019.07.PM06	Issue	Moderate M	Moderate	DataHouse's ineffective and untimely	Communication activities listed in the Project Management Plan (version	2019.07.PM06.R1	Implement daily touch point		Refer to prior IV&V Monthly Report for status updates before October 2021.	DATE	CLOSURE REASON
CATEGORY Communication Management	ENDING ID 2019 07. PM06	TYPE	SEVERTY S Moderate M	EVERTY	Team contributed to DLIR's incomplete	EXALYSS 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 repretect communications, maiundestandings and miscommunications between the DataHouse and DUR project teams continued to occur. DUR project teams members had a piece-meal undestanding of the technical solution (refer to finding 2019 07.01702) and project risks and sease select to finding 2019 07.01702, Additionally, inclination of the technical solution (refer to finding 2019 07.01702) and project risks and sease select to finding 2019 07.01702, Additionally, inclination of the technical solution (refer to finding 2019 07.01702) and project risks and expect for the design state pressions (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.PMOS). The IVAV recommendations made at 2019 07.PMO2.82 and The IVAV recommendations and as 2019 07.PMO2.82 and The IVAV recommendations and as 2019 07.PMO2.83 regarding DataHouse working on-vite and including DUR in project activities will also address this finding. Below are additional recommendations to further improve project team communications.		**************************************	SLIPPLEMENTAL RECOMMENDATION Open	Refer to pin r VaW Monthly Report for status updates before October 2021 10/26/21: Recurring meetings between the Content Management development lead and DLIR test team are scheduled to occur during UAT. DataHouse also apreed to hold periodic meetings focused on technical topics. The changes made to the weekly project management meeting are helping to improve discussions about processing and toward and issues and misagetion plans. Open and honest dialogue is critical to keep up with the aggressive project plane. 11/29/21: The DLIR and DataHouse Project Managers are working closely to evaluate different ways to keep the project moving forward with ongoing Phase 1 Content Management technical issues. The recurring meetings between the DataHouse development teams and DLIR states for Content Management UAT but did not begin for Case Management UAT. Open and transparent dialogue between DLIR and DataHouse of content project states and risks still need improvement. 01/25/22: Recurring meetings and DataHouse on-site resources allowed for frequent communications between DLIR and DataHouse of certain greaters of the Content Management UAT. Open and transparent dialogue between DLIR and DataHouse of course the project on track with the scheduled Phase 1 Content Management UAT. Open and transparent dialogue between DLIR and DataHouse of course tracks with the scheduled Phase 1 Content Management UAT. Continued open and transparent dialogue between all DLIR and DataHouse are especially needed for Phase 1 Case Management UAT. Continued open and transparent dialogue between all DLIR and DataHouse team members is critical for something and transparent dialogue between all DLIR and DataHouse team members is critical for something and transparent dialogue between all DLIR and DataHouse team members is critical for something and transparent dialogue between all DLIR and DataHouse team members is critical for something and transparent dialogue between all DLIR and DataHouse team members is critical for something aprice, as cri	, x	CLOSURE REASON
										Accuity will continue to evaluate the effectiveness of these project communication channels.		
Communication Management	2019.07.PM07	Resk	Moderate M	Moderate	The back of stationed project communications for all impacted stakeholden may reduce user adoption and stakeholder buy-in.	communications management is a pair of the Project Management Plans involved poir of Johanbusus however the plan is not comprehensive and orimally reflects project meetings, status reporting, and issue reporting. The approved Project Management Plan Persion 1.2 Naw supdated to include a communication matrix that outlines additional communication activities. While this is an improvement over the previous vestion, the latest draft plan still does not provide adequate details regarding communication activities as all stakeholders are grouped to gether for three broad communication methods and activities. A formal communication requirements analysis was not conducted to determine the information needs of internal and acteming project stakeholders. There is not as process to ensure the truely distribution of stakeholders. There is not as process to ensure the truely distribution of satisfication and communication activities is normal project stakeholders. As such, communication activities have occurred haphazardy. The limited communication activities have occurred haphazardy. The limited communication activities have morehalt mitigated as the DLIR Project Manager involves internal stakeholders in reproject-related meetings and working essions. However, this informal approach does not include all internal stakeholders or any external stakeholders.		Further refine communication management plans.	regement askeholders into groups by communication needs such as Open by department unit (e.g. Hearings, fatnorement, or Records and Claims), by position (e.g., manager, supervisor), or internal and external (e.g., claimants, intraumer agencies). **Consider the list of communication methods listed in DataHouse's BAPO. **Due to limited DLIR resources available for communication activities, the specific groups and communication activities and to focus resources most efficiently. **Update the project schedule for communication activities and assigned resources (refer to finding 2019.07.PM14).	Refer to prior IV&V Monthly Report for status updates before October 2021. 1026/21: DLIB is preparing for the annual divisional meeting to provide project updates for internal DCD stakeholders. DLIB is convolently asking this quanterly for the remainder of the project. Communication activities an methods for external stakeholders need to be revisited sepscially related to new forms, go-live of the new electronic submission processes and the portal, and with any external stateholders assetting with testing. 11/29/21: DLIR held divisional meetings to provide project updates for internal DCD stakeholders. 12/29/21: White Reas 1 go-live dates quickly approaching, the pre and pos go-live communication plan and activities for both internal and external stakeholders should be finalized. 10/25/22: The communication plan and activities for the DLIR stakeholders in the first rollout of Phase 1 Content Management were finalized and delivered. DLIR also started weekly meetings and email communications to update DCD managers and supervisors on high-level project activities. A communication plan and more sepecific communications related to the DCD rolloud of Content Management as well as for Phase 1 Case Management are still needed. 20/24/22: Internal Communications have improved with weekly stand-ups and regular DCM updates. However, a communication plan with certernal stakeholders for future phases and rollouts still needs to be developed. 20/23/22: Internal DLIR communications continue to improve with weekly stand-ups and regular DCM updates. However, a communication plan with external stakeholders for future phases and rollouts still needs to be developed. 20/23/22: Internal DLIR communications continue to improve with weekly stand-ups and regular DCM updates. However, a communication plan with external stakeholders for future phases and rollouts still needs to be developed. 20/24/22: Internal DLIR communications continue to improve with weekly stand-ups and regular DCM updates. However, a communication plan with	d t	

ASSESSMENT		ORIGIN	IAL CURRENT						FINDING		CLOSED	
CATEORY Organizational Change Management	ENDING ID 2019 07 FMG8 0	SEVER Moder	TV SSVERTY Moderate Moderate	NONO 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 COM activities but these were not formalized in a plan or processes. There are no CCM specific tasks or resources suigned for OCM activities in the project schedule (refer to finding 2019 07 PM14). Although there is no formal or coordinated COM approach, some elements of OCM occur through regular project management communication and training activities. The DLIR Project Manager's footing 2019 07 PM01) and the DCD Executive Sponsor's active and whole support of the project (effer to finding 2019 07 PM01) 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 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 embarced by employees.	ESCOMMENDATION D 2019-07-PM08-R1	**ECOMMENDATION Develop and implement a structured OCM approach.	SUPPLEMENTAL RECOMMENDATION COllect baseline change awareness and readiness measurements through surveys or interview. Create and mobilize a change coalition group of managers, supervisors, and key influencers. Honoprorets and align COM into communication, business process engineering (BPR), and training activities. Obveolog COM activities to address deriffied awareness gaps or Power of the Communication of the Communicat	STATUS Open	Refer to prior IVAW Monthly Report for status updates before Citciber 2021. 10/26/21 and 11/29/21: DLIR continues to hold supplemental working sessions and trainings to help DLIR project team members prepare for and participate in project activities. DLIR needs to further develop the OCM plans and approach to increase stakeholder engagement, collect periodic readiness data, and enforce changes related to the upcoming Contrest Management go live. 12/29/21: DLIR continues to prepare additional reference materials and meet one-on-one to help DLIR project team members prepare for and participate in project activities. However, there is still low participation and engagement from assigned testers. Additional OCM strategies should be explored to increase stakeholder engagement and commitment to completing project work. 10/25/22: DLIR bein meetings leading up to ga-live to prepare stakeholders in the first toilout of fifthese I Centent Management. DLIR also plans to hold resignating to grow the standard passion and engagement and commitment to provide additional stakeholder support. DataHouse on-aite resources will also help to provide users with training and technical support. Willie some progress to increase participation and engagement and ownership some progress to increase participation and engagement and ownership some progress to increase under some state of the DCD rollout of Content Management and stakeholder support. CoM updates are regularly engaged and stakeholder support. OCM updates are regularly engagement and womenship still remains low. 03/23/22: DLIR began to develop an OCM plans surveys, and metrics to measure user participation and system utilization. Engagement and ownership from DLIR resources improved. Additional OCM plans and strategies are needed for other phases, including the upcoming Phase I	DATE	CLOSURE REASON
Risk Management	2019.07.95609	Moder Moder	ate 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 own risks or issues related to the project. At risk regarding the delay in the completion of the MOU agreement with DHS (selfe to finding 2019 07 PMOA and 2019 07 PMOA 20	2019.07.PM09.R1	Formalize the Risk and Issue Management process. Conduct regular meetings to discuss project risks and issues.	*A formalized process should clearly define responsibilities and steps is identification, resolution and action items tracking, and escalation procedure. *The project team must encourage open, transparent discussion about risks and issues. *Reliculde DataFatiouse and DUR and, on occasion, the executive steering committee (refer to finding 2019.07.FG02). *Perform a detailer review of new trens, status of open items, risk/issue owners, and mitigation plans.	Open	Case Management gover. Accolly will continue to evaluate the OCM approach and monitor the change readiness of project stakeholders. Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DUR and DataHouse continue to develop some risk mitigation plans for the highest priority risks. With the aggressive timeline, it is critical for DUR and DataHouse continue to improve risk management processes to that risks and issues are proactively identified and swiftly mitigated. 11/20/21: DUR and DataHouse evaluated different risk mitigation strategies to that risks and sease are proactively identified and swiftly mitigated. 11/20/21: DUR and DataHouse evaluated different risk mitigation strategies as address ongoing these I Cornett Management tendent lauses. DUR and Obstatious are completed to increase the speed of resolution and calcinous improvements to risk management processes are needed to increase the speed of resolution and the speed of resolution is contributing to project delays. Closer monitoring and quicker execution of mitigation plans for all high priority risks and issues will help to minimize schedule impacts of risks and issues. 11/25/21: Acculy decreased the severity arising from Level 2 (Moderate) to Level 2 (Moderate) to Level 2 (Moderate) to Level 2 (Moderate) or risk and risks use and the severity arising from Level 1 (High) to Level 2 (Moderate). Differ and DataHouse are making some progress to complete risk and risks or fish and risks. 11/25/22: Acculy decreased the severity arising from Level 1 (High) to Level 2 (Moderate). Differ and DataHouse are making some progress to complete risks of risks and risks. 11/25/22: Acculy decreased the severity arising from Level 1 (High) to Level 2 (Moderate). Differ and DataHouse are making some progress to complete risks for the Phase 1 (Lovent Management Lovent Management polive, the content Management polive risks for other phases of the project, including the quickly approaching Phise 1 (Lovent Management golive, need to		

ASSESSMENT CATEGORY	FINDING ID	OF TYPE SE	RIGINAL CURR	ITY FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED	CLOSURE REASON
Scope and Requirements Management	2019.07.PM10	Issue His	gh High	The Content Management and Case Management requirements documentation is incomplete.	The requirements for both Content Management and Case Management have a leavely been approved, however, the requirements are incomplete leg, do not incomplete l		Revise Content Management and Case management requirements documentation and RTM. Improve requirements management processes.	*Finume requirements follow SMART (specific, measurable, actionable, eathers and time bound) guidelines. *Finume requirements follow SMART (specific, measurable, actionable, realistic and time bound) guidelines. *Finume requirements followers for the second s	Open	Refer to prior NRW Monthly Report for status updates before October 2021. 1026/21: Data/bouse and DUR clarified Phase 1 Content Management explorements in updated deliverable. DUR distrible. DUR distrible graps in documented deliverables. DUR six sing the contact requirements in documented deliverables. DUR is sing the contact requirements and other requirements discussed with SMEs during project meetings to develop test cases for upcoming Phase 1 Content Management and Case Management UAT. 11/29/21 and 12/29/21: DUR is confining to create UAT test cases as a way to mitigate missing or outdated project requirements. 01/25/22 and 02/24/22: Requirements continue to be clarified and refined during flhase 1 UAT and Phase 2 development. It is unclear how the feedback from SMEs are used to update requirements documentation. 03/23/22: Phase 3 requirements gathering is resumed and the requirements deliverable was deferred to the end of March 20/22. DUR is in procurement for a new busines analyst contractor that will serve as a liaison to external stakeholder and help to collect external stakeholder requirements for the Phase 3 portal. It is unclear how these requirements will be incorporated into DataHouse's Phase 3 requirements deliverable and development processes. Acculty will continue to evaluate the requirements documentation and processes.		
Cost, Schedule ar Resource Management	ad 2019.07.PM12	Milissue Mil	Mode Mode	ate Informal cost management practices may lead to unexpected costs or overpayments of contracts.	There is no formal cost management plan. A comprehensive total project budget in not readed, tracked, or reported. Currently, payments are tracked for the two mains CAST Project contracts. Charlactone SI are tracked for the two mains CAST Project contracts. To Statishouse SI are supported to the proper several project programs and equipment are tracked informally as these are often paid from some contracts of the proper several project projec	2019.07.PM12.R3	Prepare a comprehensive project budget and a schedule of long-term operational costs (e.g., seamont prepared to the cost of th		Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 1024.021. Acculy decreased the severity rating from Level 1 flyigh to Level 2004. Quidedane). Datableuse is still prepaid for Plans 1 and 2? however, Datablouse provided revised plyment schedules which adjusts Phase 3 invoices to make corrections for Plans 1 and 2 amounts. DLR added additional costs to the budget report. 11/29/21 and 12/29/21: No updates to report. 01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is upmouring two additional eCMS Project contracts improvement in cost management processes are needed to track and monitor other project costs. 03/23/22: Three additional DLR contracts are currently in procurement. ANS costs do not appear to be actively managed or monitored by DLR. Acculty will continue to monitor project costs, AWS costs (from finding 2019.07.ITO1), and cost management practices.		

ASSESSMENT			ORIGINAL							FINDING		CLOSED	
Cost, Schedule and	2019.07.PM13	TYPE	SEVERITY High	SEVERITY High	FINDING Inadequate schedule management	ANALYSIS The Phase 1 go-live dates were delayed a few times since the start of the	2019.07.PM13.R1	RECOMMENDATION Document and approve revisions to	SUPPLEMENTAL RECOMMENDATION	Open	FINDING STATUS UPDATE Refer to prior IV&V Monthly Report for status updates before October 2021.	DATE	CLOSURÈ REASON
Resource			1	-	practices may lead to project delays,	project with the Content Management go-live delayed five months and		project schedule deliverables,		Ι΄.			
Management					missed project activities, unrealistic schedule forecasts, or unidentified	the Case Management go-live delayed three months. Reasons for the delay provided by the eCMS Project team included additional time for		milestones, and go-live dates in accordance with the Project			10/26/21: The ESC approved the new project timelines. DataHouse updated the detailed project schedule tasks for the new timelines and		
			l		causes for delays.	requirements gathering, some Phase 2 work that was moved up to Phase		Management Plan.			added more detailed Phase 2 tasks.		
			l			1, staff vacations during the holidays, time for the DLIR Project Manager							
						to write the RFP for the IV&V contract, and delayed procurement of the scanners. Although there are reasonable explanations for some of the					11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again, deferring the go-live from December 2021 to		
						delays, detailed schedule variance analyses to understand causes and					January 2022. Phase 1 Case Management, Phase 2, and Phase 3 activities		
			1			impacts of the delays have not been thoroughly performed,	2019.07.PM13.R2	Refine the project schedule with		1	are moving forward but there are some delays in underlying tasks.		
						documented, or reported. Decisions or change requests to revise the project schedule are not properly documented or approved in		details of tasks, durations, phases, and assigned resources.			12/29/21: There are delays in both DLIR and DataHouse schedule tasks.		
						accordance with the Project Management Plan.		and assigned resources.			DLIR is behind on progress to complete Phase 1 Content Management and		
						DataHouse has prepared a higher-level project schedule and a more					Case Management UAT. DataHouse is behind on a couple of Phase 1 Content Management system documentation deliverables, Phase 2 build,		
						detailed task listing. Although the project schedule will need to be					and Phase 3 planning and requirements gathering. Both DLIR and		
						updated due to the recent DHS development and selection of an alternative solution, the following deficiencies were noted in the current					DataHouse plan to add or onboard additional resources to mitigate schedule		
						alternative solution, the following deticiencies were noted in the current project schedule:					delays. However, each delay in underlying tasks is further compressing time on an already aggressive schedule. It is unclear what the impact of the		
						* Does not include all project tasks such as Build stage sprints,					current DLIR and DataHouse task delays are on the overall timelines and if		
						communication, OCM, BPR, and quality assurance (refer to findings 2019.07.PM05, 2019.07.PM07, 2019.07.PM08, 2019.07.PM11, and					the revised go-live dates are achievable.		
						2019.07.IT05).					01/25/22: Schedule management is one of the issues with the greatest		
						* Does not include estimated durations. Durations are only included in the more detailed task listing.	2019.07.PM13.R3	Prepare regular schedule reports		1	impact to overall project performance and success. The Phase 1 Content Management is set to go-live as scheduled; however, some of the		
						* Only includes tasks for Phase 1. The Phase 2 and 3 tasks are only		and schedule variance analyses for			underlying tasks were deferred to be completed post go-live at the end of		
						included in the more detailed task listing.		management and the executive steering committee.			February 2022. The deferral of work increases schedule issues for other		
						 Specific assigned resources are not identified as only a generic DataHouse or DCD designation is used. 		steering committee.			phases, including Phase 1 Case Management which is currently at risk due to significant delays in UAT. It is unclear what the impact of Phase 3 delays		
						business of beb designation is used.					are. Improvements in schedule management practices are needed to		
			1								monitor schedule delays and evaluate root causes.		
			1								02/24/22: The Phase 1 Content Management system went live on January		
			l								26, 2022 for a small group of users. The Phase 1 Content Management		
											rollout for DCD users is on track for February 25, 2022. DLIR and DataHouse informed the ESC that the project schedule will require another rebaseline.	1	
j J			1								It is unclear what the new schedule will be. The project team will need to		
											improve their progress on Phase 1 Case Management UAT in order to avoid		
			1								further schedule delays. DLIR started to monitor testing progress by planning and scheduling out test cases each week. Additional		
			1								improvements in schedule management practices are needed to monitor		
			1				2019.07.PM13.R4	Complete assessment and revisions of project schedule.	•Revise tasks, deliverable milestones, and go-live dates for all three		schedule delays and evaluate root causes.		
								or project schedule.	 Evaluate whether remaining project work can be accomplished in the 		03/23/22: Phase 1 Case Management and Phase 3 tasks are delayed. Phase		
									remaining period of performance of DataHouse's contract or if the		2 is generally on track and slightly ahead of schedule. A revised project		
									contract needs to be extended. •Set realistic and achievable dates based on availability of DLIR project		schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June		
									resources.		2022, accelerate the Phase 2 go-live to November 2022, and compress the		
											Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go- live is still quickly approaching and it is critical that plans and related tasks		
											are clarified and finalized in order to stay on track with a new schedule.		
											Additionally, the proposed project schedule should be reassessed based on		
											the latest status of underlying tasks to ensure that the proposed schedule is still realistic and achievable.		
											Accuity will continue to monitor the project schedule and schedule management practices.		
											management practices.		
Cost, Schedule and	2019.07.PM14	Issue	High	Moderate	Inadequate assigned project resources	Team Accuity was unable to evaluate resource workloads based on the	2019.07.PM14.R1	Reevaluate project resource needs	Perform project schedule updates for the alternative solution (refer to	Open	Refer to prior IV&V Monthly Report for status updates before October 2021.		
Resource Management					may lead to project delays, reduced project performance, or tumover of	project schedule information (refer to finding 2019.07.PM13); however, based on observations of the eCMS Project team, the DataHouse and		and acquire additional resources.	finding 2019.07.IT01) and missing tasks (refer to finding 2019.07.PM13). •Ensure resource levels and skill sets align to assigned tasks.	-	10/26/21 and 11/29/21: The proposed timeline is not based on an analysis		
					project resources.	DLIR Project Managers appear to be over-tasked. The DLIR Project					of available resources but rather on stakeholder needs for the new system.		
											of available resources but fairler on stakeholder needs for the new system.		
						Manager is the only full-time DLIR employee assigned to the eCMS					As such, additional DLIR project resources including area leads are needed		
						Project and understandably does not have time to perform all of the	2019.07.PM14.R2	Prepare regular resource reports for	Consider including resource needs for unassigned tasks or roles.		As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline.		
						Project and understandably does not have time to perform all of the tasks to properly manage the project or represent DLIR during project activities. DLIR should increase participation in design and development	2019.07.PM14.R2	management and the executive	Consider including resource needs for unassigned tasks or roles. Consider including DUR resources needed and estimated hours for	_	As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline. 12/29/21: DLIR is looking to onboard additional testing resources and		
						Project and understandably does not have time to perform all of the tasks to properly manage the project or represent DUR during project activities. DUR should increase participation in design and development activities (refer to finding 2019.07.PM02) but would not be able to with	2019.07.PM14.R2	Prepare regular resource reports for management and the executive steering committee.	 Consider including DLIR resources needed and estimated hours for upcoming project activities (e.g., design sessions, user demonstrations, 	_	As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline. 1229/21: DLIR is looking to onboard additional testing resources and procure additional data conversion resources. DLIR should also continue to		
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ASSESSMENT	SIMPLING ID	70/05	ORIGINAL	CURRENT	Shane	ANALYSIS	DESCRIPTION IN	DE CONTRE LE LE CONTRE LE	SUPPLIEST A PECCHANISM FOR	FINDING	CHICKLE CATALIC INC. AT	CLOSED	SI OSUPS DE LSON
Quality Management and Testing	2019.07.IT05	Risk	High	High	ENDING Not having an approved quality management plan and assigned quality assurance resources may impact the quality of project deliverables.	ANALYS The Quality Management Plan (version 0.1) was drafted by DataHouse on June 23, 2019 but was not yet approved by DUR. 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 cidentified in DataHouse 5 BAFO is not assigned to the project team at		RECOMMENDATION Finalize the quality management plan.	SUPPLEMENTAL RECOMMENDATION ThatBrouse and DIR should collaborate and agree on the quality management processes and metrics that will best serve this project. Heiculde quality shandards or reference to specific criteria (refer to finding 2019 07.PM03). Thydde the project schedule to assign quality assurance resources (refer to finding 2019 07.PM14).	Open	FADNO STATUS UPDATE Refer to prior IV&V Monthly Report for status updates before October 2021. 10/2/21: DUI is working on establishing metrics for the Phase 1 Case Management data conversion validation testing results and for upcoming UAT.	DATE	CLOSURE REASON
						this time. 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.	2019-07-1705-R2	Perform quality management activities on previously approved o submitted deliverables.			11/29/21: No updates to report. 12/29/21: Content Management UAT performance metrics indicate a high ratio of reported issues to completed test cases. DLIR and DataHouse need to finalize their quality management plans and quality metrics. 01/25/22: Citalize their quality management plans and quality metric. Successive plans to the addressed post go-live but a number of pending issues are to be addressed for go-live but a number of pending issues are to be addressed post go-live. Quality review processes and quality metric thresholds are still unclear. 02/24/22: A number of technical issues were encountered post go-live with the Phase 1 Content Management system including performance, reliability, functionality, and data. Quality management processes should be reassessed to help minimize production issues in future phase. 03/23/22: DLIR and DataHouse still do not have formal quality management plans. Quality metrics are critical for evaluating and monitoring project the upcoming Phase 1 Case Management go-live to prevent similar production issues experienced with Content Management. Acculty will continue to evaluate the quality management plan and activities.		
Configuration Management	2019.07.1T06	Risk	Moderate	Moderate	A lack of a configuration ennangement plan may imperation the profound and quality of the system if unauthorized or unstread changes are promoted between environments.	A configuration management plan has not yet been drifted. DataHouse plans to prepare a configuration management plan by Schoeth 11, 2019. Based on the current project plan, the eCMS Project was supposed obeging the Build stage of Planse 1. All flowing the recent Planse of Planse 1. All flowing the recent Planse of Planse 1. All flowing the planse planse of Planse 1. All flowing the planse planse of Planse 1. All flowing the planse p	2019.07.IT06.R1	Oevelop a formal configuration management plan.	•Ensure the plan is in accordance with IEEE 828-2012 - Standard for Configuration Management in Systems and Software Enjoyenering and includes the configuration management planning process, configuration the management planning process, configuration status accounting process, configuration status accounting process, configuration status accounting process, configuration auditors accounting process, management plan process and agree on the configuration management plan purposes and processes that will best serve this project.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: No updates to report. 11/29/21: DataHouse clarified that separate Case Management environments will be used for the different phases. Details of the configuration management plan including the management of concurrent development is needed. 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to evaluate the configuration management plan and approach.		
Security	2019.07.1707	Risk	Moderate	Moderate	Not having an approved security management plan in place may impact the security and privacy of the data.	The Security Management Plan Nettion O. QI was prepared by DtaBfoluse on June 3, 2019 but was not yet approved by Dtl.R. Stade on the current project plan, the eCMS Project was supposed to begin the Build sage of Phase 1. Although the recent DtS 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 information security and privacy risk.		Ensure the security management plan meets specific standards. Finalize the security management plan.	*Consider the industry standards and best practices above. **DataHouse and Dut should collaborate and agree upon the specific standards that will best serve this project.	Open	safer to prior IV&V Monthly Report for status updates before October 2021. 10.02.612: DataHouse provided an updated vulnerability scan report that DUR conditionally accepted and approved as the configuration baseline. With the December 2021 Phase 1 Content Management go-live quickly approaching, DUR needs to finalize the security management plan and M&O roles and responsibilities at the end of all three phases. M&O roles and responsibilities and the related security management plan during the interim period between go-live and system tumour need to be further clarified. 12.729/12: No updates to report. 01.725/22: DUR and DataHouse documented critical security tasks in the gown-go-checidist. 02.724.02: DataHouse completed the disaster recovery plan pending DUR's review and approval. 03.02.1232.22: A clear plun for security management is needed especially for orgoning Phase 1 Content Management system operation as well as the upcoming Phase 1 Case Management go-live. Acculty will continue to evaluate the security management plans and documentation as they are finalized.		

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
ASSESSMENT OKTGORY Project Organization and Management	ENDING ID 2019.09.PM01	tssue (ssue	ORIGINAL SEVERITY Moderate	SEVERTY Moderate	INCOME The documented change management process was not followed as prescribed The documented change management process was not followed as prescribed.	The Project Management Plan (venion 1.3) documents the change management process that includes Change Requests, impact assessment, and a Change Log. The change to AWS (refer to finding 2019 0.7) for 1 m Appendix D) and the revision of the Contract Management go-live date were approved by DUI but not documented Change Requested or Change Report Repo	2019-09-PM01-R1 2019-09-PM01-R1	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 clarify and effectiveness.	Consider acting thresholds or criteria for changes that go through different approval processes. *Define the different approval processes (e.g., project manager, product owners, change control back 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.	FNDING	Refer to prior IVBW Monthly Report for status updates before April 2021. 04/27/21 and 05/27/21: No updates to report. 04/27/21 and 05/27/21: No updates to report. 04/27/21 but plans to combine all the pending Datacap related change requests into one change request related to the new Encapture solution. 07/27/21: Data/focuse drafted the new change request to document the water from Datacap to Encapture. Downer, DUR has not yet approved the change request due to ongoing discussions of the proposed Content Management timeline. DataHouse should also document the resulting project schedule changes for Phase 1B, 2, and 3 in a formal change request as prescribed by the Project Management Plan. 08/25/21 and 09/28/21: The Content Management change request is pending DUR approval. 10/26/21: Acculy decreased the severity rating from Level 1 (High) to Level 2 (Moderate). Although the details of the change request to which from Datacap to Encapture were not updated. DataHouse did update the content Management design deliverable to document how the replacement solution will address. Content Management design deliverable to document how the replacement solution will address the lack of related in the change request. Additionally, schedule changes continue to not be documented in formal change request. Notwert, DUR and Datalouse do present the high-level transfer in the ESC for approval. 11/29/21: As DUR approved the Phase 1 Content Management replacement solution to move into production, it appears that the change from Datacap to Encapture did address the bask of elected and results and redevelopment from preducement solution. Additionally, Redebut and results and redevelopment from preducement solution. Additionally, redebut and results and redevelopment prepared means to the content Management replacement solution. Additionally, decedual and results and redevelopment provided address the lack of elected and results are decedual and results and redevelopment.	CLOSED DATE 1/25/2022	COSUME EXACON. Although change requests do not document changes in detail and change requests are not used to document change in schedule changes, the current change management process appears to work for the project.
Quality Management and Testing	2020.02.JT01	Risk	High	Moderate	and does not adequately inform DLIR of	DataHouse draffed the Test Plan Version 0.0, pending DLIR review and approval. The test plan does not include or clearly explain the following. The scope of the test plan is nonenpilete (e.g., performance, load, volume, AMS environments). The testing approach differs from DataHouse's Best and Final Offer (BMFO) (e.g., regression testing, assistioner development (TDD) of the testing approach differs from DataHouse's Best and Final Offer (BMFO) (e.g., regression testing, assistioner development (TDD) of the testing testing the properties of the properties of the DataHouse of the	2020.02.1701.#2	Clarify the test approach. Oevelop adequate test management processes and procedures.	*Perform a deliverable review (refer to finding 2019.07.PM03) to ensure DIJR undentands the test plan and scope. *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.	Closed	work during Content Management UAT did not result in additional DataHouse chainge requests. Refer to prior IV&V Monthly Report for status updates before April 2021. 04/27/21, 05/27/21, 06/25/21, 07/27/21, 08/25/21, and 09/28/21: No updates to report. 10/26/21 and 11/59/21: Clustification of the test approach and plans for Phase 1 Content Management performance testing is needed including objects of the process of the process for baseline performance metrics collection. 12/29/21: DataHouse confirmed that they are not responsible for performance, days, day	12/29/2021	Closed as DUR accepted the risk related to DataHouse's clarified scope of their starting and how DataHouse testing results will be provided to DUR.
System Software, Hardware, and Integrations	2021.03.1701	Ssie	High	High	Ongoing Content Management technical issues and solution analysis are causing project delays.	Since December 2020, DLIR and DataHouse have been performing various system analysis due to Phase 1 Content Management UAT technical issues and user feedback. In March 2021, DataHouse presented three options to the ESC for the Content Management solution including an option to replace and redevelop the Content Management scanning and data extraction component. DLIR is current Management scanning and data extraction component. DLIR is current Management scanning and data extraction component. DLIR is current Management scanning and that extraction component. DLIR is current Management scanning and the scanning and data extraction component. DLIR is current with the Content Management solution but postponed the in order to allow more time for additional analysis. The Content Management go-live was prospored several intens due to origing analysis and could potentially under the content of the Content Management solution but prosponed several intens due to origing analysis and could potentially component to the content of the Content Management solution but the content of the Content Management solution but the content of the Content Management solution but the content of the Content Management solution and agree upon how to together to timely and thousage component analysis and agree upon how to together to timely and thousage component analysis and agree upon how to together to timely and thousage component analysis and agree upon how to together to timely and thousage content of the Content Management solution and the		Identify all major gaps in current solution. Complete the analysis of solution options.	*Review the reported issues/defects in the UAT quality log, close resolved entries, and identify unresolved gaps. *Review other project documentation and perform further system review to identify other major gaps. *Vasiagn risk/criticality ratings for each identified gap. *Evaluate how each option addresses all major gaps. *Evaluate how each option addresses all major gaps. *Evaluate how each option addresses all major gaps. *Evaluate to expend provide additional clarification and demonstration of the functionality to be provided by each of the options as it relates to the stand-alone Content Management solution and the integrated Case Management solution. All the provided by each of the comprehensive solution and to identify limitations that are only temporary until additional functionality is provided in later phases. *Consider impactional options are needed based on the completed listing of risk/criticality-rated major gaps. *Consider impaction of provider and seeded based on the completed integrated content in the completed state of risk/criticality-rated major gaps. *Consider impacts to current phase seed las total solution/project; short-term costs and total cost of ownership (TCO); and impacts to the implementation plan and users.	Closed	04/27/21: Datahouse is still working to investigate and address ongoing technical issues. DLR continues to evaluate the options presented by Datahouse and began to review unrevolved issues from UAT to perform their gap analysis. DLR needs to work with Datahouse to swiftly complete the analysis. 05/27/21: Datahouse is still working to address Datacap issues requiring floss. DLR and Datahouse agreed on a tentative plan and timeline of tasks to reach a decision regarding the Content Management subulino by July 20/21. 2022. 2021. 2022. 2023. 2024. 2024. 2024. 2025. 2025. 2026.	11/29/2021	DUR will not be preparing a formal and comprehensive solution analysis, however, this finding is closed as the solution analysis is captured in the ECP presentation, the updated Content Management design deliverable, and the Encapture architecture and workflow overview meeting. The ongoing technical issues related to the Encapture architecture and workflow overview meeting. The ongoing technical issues related to the Encapture registeriement. Walfording as these area already tracked in the testing logs.

ASSESSMENT	EINDING ID	TYPE	ORIGINAL	CURRENT	EINDING	ANALYSIS	PECOMMENDATION ID	PECOMMENDATION	CUPPLEMENTAL PECOMMENDATION	FINDING	ENDING STATUS LIPDATE	CLOSED	CLOSURE REASON
Project Organization and Management	2020.03.PMO	11 Issue	High	Moderate	project execution although the extent of the impact to project costs and the project schedule as well as the potential	The COVID-19 pandemic has created uncertainty with respect to the tamely completion of the project and its cost. Understandably, DLIR has diverted project resources to the ILD boxish to respond to the layoutching minimor of unsurphypriment claims. This finding focuses on the algorithm of the COVID-19 specific to the cOMS Project. The following is a summary of the related events and facts: All eCMS Project meetings were cancelled beginning March 17, 2020.	2020.03.PM01.R1	Explore possible ways to keep the project moving forward with available resources.	Hevaluate DLR SMEs availability and bandwidth to work on the project. Honsider reshuffling of user stories in current and upcoming sprints and how to best utilize available DLR SMEs.	Closed	Refer to the June 2020 W&V Monthly Report for status updates prior to July 2020. 2020		Although there will continue to be impacts of the pandemic on costs, schedule, and resources, Accuity will continue to monitor these under the other existing findings (2019.09.PM12, 2019.07.PM12, 2019.07.PM.13, and 2019.07.14).
						following directives for non-essential state workers to stay home. Subsequent state wide stay a-know order were put into effect through April 30, 2020. Clumently only a few DLIR project resources, including the DCD Executive Sponnor and DLIR Project Manager, are still working in the office or remotively but their decidated by project work has been drived for their project of the project of the state of the formation of the project management activities. Key DLIR Subset Maner Experts SMD are currently unadiable to the eCMS Project. The DLIR SMS are critical to the Case Management system development process due to the valuable knowledge and input of business operations they provide to the development teams to clarify and sefine requirements. Many DLIR SMSs have been temporarily assigned to assist the University of the service of the service of section of the service of sections of the SMSs have been temporarily assigned to assist the University of several services of sections of several services of the SMSs have been temporarily assigned to assist the section of several services of sections of several services sections of several services sections of sections of several services sections several services sections several services several several several services several several services several several several s	2020 03 PM01 R2	Comulate a plan for how to respond to COVID-19 impacts to the project.	- Casafaviuse and DLIR, with input from the ESC, must come together to decide on how to best proceed. - Carefully assess the situation and individually log all of the specific impacts to the project in the risk register, including direct and indirect impacts. - Kelvaluate alternative courses of action and contingency plans for each specific impact identified. - Consider algalizing the frequency of communications and reviews of response plans to support the pace of evolving circumstances.		With recent increases in cases in Hawaii, circumstances could potentially evolve rapidly. While the plan to move forward with Phase 2 work gives chevilor applied, While the plan to move forward with Phase 2 work gives DataHouse more options to keep the project moving forward, some level of DIR project resources will always be needed. Making improvements for identified efficiencies (2020 OZ PMO1) in a few key foundational project processes including schedule management (2010 OZ PMO1), and and adjust to changes going forward. 08/21/20: DataHouse kicked-off Phase 2 requirements gathering sessions. With Phase 1 activities scheduled to resume simultaneously with orgoing Phase 2 activities, additional clarity is still needed regarding the path forward. Additionally, the worsening COVID-19 situation in Hawaii creates a lot of uncertainty with regards to DIR project resources and work arrangements. A clear undestranding of intended project activities as well as contingency plans for key project resources and youslate work-from home arrangements are essential to minimizing further delays. 09/28/20, 10/23/20, 11/24/20, 12/23/20, and 01/26/21: No updates to report. 09/28/20, 10/23/20, 11/24/20, 12/23/20, and 01/26/21: No updates to report. 09/28/20, 10/23/20, 11/24/20, and 05/27/21: DIR and DataHouse should consider the continuing impacts the CVDID-19 pandemic will have on the availability of DIR project resources as a part of the upcoming Content Management analysis and decision and while reportionity project gostave and priorities. 00/28/21, 10/24/21, 04/27/21, and 05/27/21: DIR and DataHouse should consider the continuing impacts the CVDID-19 pandemic will have on the availability of DIR project resources as a part of the upcoming Content Management analysis and decision and while reportionity project gostave and priorities.		
Project Togganization and Management	2020 08 PMO	1 Risk	Moderate	Moderate	Inadequate planning and lack of a detailed project schedule for Phase 2 may impact the execution of Phase 2 activities and result in delays.	Dashfouse's updasted project management plan and project schedule was scheduled for completion in July 2020. The task is not seen to complete and there is no estimated timeline for completion. Some of the details of the Phase 2 planning were verbally discussed including Dashfouse'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 outland planning is needed. The current project management plan was last updated in August 2019 and many of the processes are outlanded on reed improvement (2020 OF JMO1). Additionally, the cLOS Project is now operating under completely additionally the cLOS Project is now operating under completely additionally the close of the project is now operating under completely with limited DUR project resources promote of the project resource shallow of the project resource shallow of DUR project resource planning of DUR project resource shallow of DUR project resource planning of DUR project resource shallow of DUR project resource planning of DUR project resource shallow of DUR project resource planning of DUR project resource shallow of DUR project resource planning of DUR project resource shallow of DUR project resource planning and technology. How the Content Management and Case Management components for the Phase 2 vib Be developed; the number of Content Management forms in scope for Phase 2. Stream and an extensibilities for Phase 2 Datahfouse and DUR project resources and performance for tensibilities for Phase 2. Datahfouse and personalities for Phase 2 Datahfouse and DUR project resources and performance for travely detection of Phase 2. 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.	2020 08 PM01 R1	Complete Phase 2 planning.	Fensure mutual understanding of Phase 2 plan and approach between DataHouse and DataHouse and Data House and Level and Phase 2 in the project schedule. *Consider building contingency plans for COVID-19 into the project management plan and processes.	Closed	00/28/20. Datahouse updated the project management plan to include some additional clearlise regarding flaves 2 deliverable and several project management processes. Additional clarification of project management processes (a. performance metrics, monitoring DLIR project resource workloads, resolving conflicts, or priorities for phases), contingency plans, and the project schodule are still needed. 10/23/20. Datahouse and DLIR 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 monitored professions. Datahouse has no provided to the project performance of the project profession of the project performance of the project performance of the project performance of the project performance of the project performance. Datahouse and DLIR darified project performance of the project performance of the project performance. Datahouse and DLIR darified project performance of the project performance of the project performance. Datahouse and DLIR darified project performance of the project performance of the project performance. Datahouse and DLIR darified project performance. Datahouse are not present the detahouse of the project performance. Datahouse are not present the resolution of the darified performance of the project performance. Datahouse are not present the darified project performance of the	2	Closed as DataFouse and DUR 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 0.7 PM14 Schedule Management, 2019 0.7 PM14 Schedule Management, 2019 0.7 PM14 Resources, and 2019 0.7 PM14 Indeequate Management fundings.

ASSESSMENT CATEGORY		TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project Organization and Management	2020.02.PM01			N/A	The DataHouse Case Management development team works very collaboratively with DLIR and demonstrates commitment to continuous improvement resulting in smoother project execution and increased transparency.	The Scur methodology employed by the Dalashouse Case Management development team inherently promotes collaboration, open communication, transparency, and process improvement through built in daily stantay and retrospective meetings. Over and above this, the Case Management development team members don't just go through the exercise of Scrum meetings but rasily embrace the spirit of the methodology. The Case Management development team members have: Wlorded closely with DLIR subject matter openets (SME) to ensure use and business needs are thoroughly understood. *Encouraged DLIR SMEs to really explore opportunities for business process improvements. In the stantay of the subject of the	N/A	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	2019.09.1T01	Positive	N/A	N/A	The DataFourae team's swift and adaptive response to issues and risks aminimized impact and further delays to project development.	Many members of the Datablosus team have contributed to the following success: **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 responses from and meetings with AWS, answering the Office of Enterprise Technology Services (ETS) security questions, and updating with a security of the Property of the Pro	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	10/25/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG01	Positive	N/A	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 leadenship that has, to an extent, compensated for the lack of formal governance feler for finding 2019.07.PO20 and other project deficiencies noted throughout this report. However, as important as good possorship 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	N/A	9/20/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG02		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 (wroton 1.2) make reference to a steering committee, however, & 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 expresentation of key stakeholdes 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	97/20179. Acculy decreased the severity rising from Levil 2 Moderate) to Levil 3 (Jov). The CMS Executive Setting 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. 10/251/9. The October 11, 2019 ESC meeting was effectively run by the DOD Popics Sponsor to discuss key rick and saves and to align the cOMS Project direction with DUR and ETS stargie; objectives. The hresholds for decisions that require committee attention were also established.		
Governance Effectiveness	2019.07.PG03	Risk	Moderate	N/A	The unclear DataFouse contract terms may limit objective evaluation of contractor performance and contract fulfillment.	The procurement of the System Integrator (SI) for the aCMS Project was performed by DIR EDPSO and reviewed by ETS. The RFU EDPSO and DIA	2019-07-PG03-R1	Evaluate the need for a contract modification to clarify contract terms.	Consider including key project documents as deliverables such a si- requirements management plan and requirements traceability matrix. IRTM (feefer to finding 2019.07.PMIO), risk and issue log (refer to finding 2010.07.PMIO), and testing documentation. *Consider including acceptance criteria based on industry standards. For example, the acceptance criteria based on industry standards. For example, the acceptance criteria could be compliance with Institute requirements to acceptance criteria out of the 2019.07. PMIO (2019.07.PMIO) *Consider including measurable success metrics (refer to finding 2019.07.PGIO). *Consider the need to outline roles and responsibilities between DLIR and DataHouse (refer to finding 2019.07.PMIO).	Closed	09/20179 - OUR has decided to address this finding through updates of project plans. Datablouse 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 disfind within will also be an additional method for evaluating centractor performance and fulfillment.	9/20/2019	Closed as DLR will address. Through project plan updates. The need for Carlification of roles and responsibilities as well as acceptance criteria and success menters will continue to be project plan to the project Cognition of the project Cogniti
Governance Effectiveness	2019.07.PG04	Risk	Low	N/A	The lack of guidelines, theodists, and shared project assets may reduce project performance and efficiency.	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 separations. The projects would greatly benefit even experience. Having guidelines and Accelstast and access to project documents from past State projects would greatly benefit even experienced project teams. ETS, as the State of havins "IT oversight office, is in the best position to gather project assets and put forth guidelines.	2019.07.PG04.R1	initiate conversations with ETS to discuss DLIR IT and project suppor 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 steam; committee to align and clarify ETS vs. steering committee governing roles.	Closed	97/20179: ETS began sharing best practices and lessons learned with DLIR noticularly taking the DLIR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed cMS Executive Steering Committee (ESC) and will use that shelicit to share lessons learned with DLIR. Additionally, DLIR is floreing to DLIR IT Seeing Committee to provide oversight to all DLIR IT projects. The DCD Executive Sponsor is a member of that DLIR committee and plants to share eCMS lessons learned and project templates with other DLIR IT projects.	9/20/2019	Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.

ASSESSMENT	EINIDING ID	TVDE	ORIGINAL	CURRENT	EINDING	AMALYEIC	RECOMMENDATION ID	RECOMMENDATION	FURBLEMENTAL DECOMMENDATION	FINDING	ENDING STATUS UPDATE	CLOSED	CLOSURE REASON
Benefits Realization	2019.07.PG06	Risk	Low	N/A	Failure to align statutes with the «CMS Project modernization objectives may reduce the operational improvements that are achieved.	The CASE Project's primary modernization objective is to move to a propriess and automated business process. The new system is being designed to allow for electronic filling, routing, and tracking of forms. Whowever, current disability compensation assistant have not been revised to require that these forms are filled electronically by law. As such, manual paper from any continue to be submitted by setterall users such as clamants, employers, and insurance companies. As the development of a portial for public filling will not begin until Phase 3, this risk is not as immirrent. 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 or as not to postpone or reduce the realization of the benefits from the new system.		Develop a plan and timeline to mend the statusts to align to project and organizational objectives.		Closed	OS/2019: In 2016, DUIL convened a Working Group (MIC) consisting of representatives from various DCD-related stakeholder groups. The WG provides an avenue for DUIR to understand stakeholders concerns and a forum for the stakeholders to understand stakeholders' concerns and a forum for the stakeholders to understand the DUIR's business process improvements including the need for statutorily mandated electronic claim fillings. DLIR plans to draft statutory changes to mandate electronic filling in PY2022 effective July 1, 2023. This timeframe was decided on as it allows DUIR to practively involves takeholders it setting production and provide stakeholders the appropriate time to ready their systems for electronic filling.	9/20/2019	Coxed as DUR has a plan to align statutes with eCMS Project objectives.
Project Organization and Management	2019.07.PM01		N/A	N/A	The DUR 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 eagement to learn. Additionally, the DLIR Project Manager has some of the necessary eachership qualifies that make her a good project manager. Her positive concerns of many internal stakeholders. This has mitigated some of the communication and COM risks feeler to findings 2019 07 PM07 and 2019 07 PM07 have the DLIR Reproject Manager is the only full-kine DLIR employee assigned to the eCMS Project and there is not a sufficient amount of project course feeler to finding 2019 07 PM14) to properly manage the project.		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	Issue	High	N/A	DataFlosuse proposed a solution on the BAFO without obtaining a written letter of intent between DataFlosus and DT/S. Furthermore, the cMSP Project advanced for 10 months without a formal MOU between DLR and DHS and relaince on the DataFlosuse Project Sporess or load the Sections due to her experience with DHS.	leverage DHS's IBM FileNet environment; however, there was no written	2019.07.PM04.R3	Finalize the MOU to leverage DHS' enterprise [incess for FileNet and Datacap. Olit 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 DIS for Datacap and FlielNet Ecenses is close to being finalized. DIX received a drift from DHS on September 1, 2019 and is was sent to the Attorney General's office on September 17, 2019. Accusity has observed that DUR has led the contract discussions and negotiations with AWS.	9/20/2019	Closed as the MCUI with DHS is in process to be finited and DLR is leading contractor negostations. The recommendation to identify all critical tasks will continue to be immitted under the 2019 07 7413 Schedule Management finding.
Project Organization and Management	2019.07.PMOS	Risk	Moderate	N/A	A lack of clarity on Datablouse's development methodology may not allow or adequately prepare stakeholders to participate readily.	DataTouse is using a modified Agie development methodology that is referred to as "Where-Courn-Ball". This is a combination of the waterfall and Agie methods that defines the full set of requirements at the beginning but uses Agie user stories and sprints while building the software. Based on the current project plan, the cRUS 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 kcloff of this stage, there are a number of concerns regarding the transition to the Scrum methodology. The stage of the project stage of the stage of the stage of the sprints. "He 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 DUB project team and stakeholden 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 now the		Formalize an approach for executing Scrum phases. Communicate the approach for executing Scrum phases to all team members and impacted stakeholders.	Consider industry best practices for Agile methodologies such as retrospectives, daily strandups, bumown charts, and frequent user demonstrations and feedback. *Establish the backlog preparation and refinement process. *Establish vitual conferencing tools and communication protocols for peoparphically distributed team members. *Set the number and length of the sprints. *Update the project schedule for sprint activities and assign resources yefer to finding 2019.07.PM113. *Include clear and detailed procedures and roles and responsibilities for Scurn tasks (refer to finding 2019.07.PM02). *DUS should be included in project team activities (refer to finding 2019.07.PM02).		19/20/19: Actuiry has kept the severity rating as Level 2 (Moderate). Although Dathcuse has incorporated the Case Management spirit schedule into the overall project schedule and provided a high-level overview of the requirement/suse restors to be covered by each spirit, roles and responsibilities still need to be clearly defined and communicated. The Case Management development team follows a classic Sorum model and plans to clarify roles and responsibilities of Product Owners and users, how were verpairments will be approved and prioritized, and acceptance criteria during the next user review and Epic 2. The Content Management development team follows a semisalge 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 DOIR Product Owners to provide an overview of the Scrum methodology and the Product Owner role and responsibilities.	10/25/2019	Cosed as the Scrum methodology has been formalized and was communicated to the DUR CRMS Product Cowner. Dre recommendation to communicate the methodology of all impacted stakeholders will continue to be monitored under the 2019 07. PMOT 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 takeholders, and make updates to the processes maps. Nathrough the process maps, and the process maps of this process, Datahouse provided future state process maps. However, Team Acculty was unable to clearly understand how processes were prioritized for change, not causes were addressed, or processes were provided for understand the process maps. But the process maps of the process of the pr		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	09/2019: Acculy has kept the seventy 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.

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY		TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
System Software, Hardware, and	2019.07.IT01	Issue	High	N/A	The original solution proposed by DataHouse in their BAFO to leverage	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	2019.07.IT01.R1	Evaluate other total solution alternatives for an alternative	Consider solutions that could include other technical applications that could utilize a different choice of methodology using different tools,	Closed	09/20/19: In July 2019, DataHouse presented AWS as a potential alternative solution. The proposed AWS solution was compared to another	9/20/2019	Closed as a replacement solution was approved by DLIR. As a
Integrations					the existing DHS FileNet hosting infrastructure is no longer a feasible	environment. Under the original solution, DHS would monitor and maintain the enterprise IBM FileNet environment. As DHS will no longer		solution.	provide a cheaper solution for the longer-term, and faster implementation.		cloud solution, Microsoft Azure, in respects to cost and performance. Data House reviewed the listing of content management solutions provided		comprehensive analysis was not prepared and there is still a need
					solution.	be providing access to their IBM FileNet environment, DLIR will need to identify resources to take on the monitoring and maintenance of the IBM			Consider the following website which lists 20 competitive alternatives to IBM FileNet for consideration: www.q2.com/products/ibm-filenet-		by Accuity and concluded that IBM FileNet was the best solution for this project; however, no formal analysis was prepared. DLIR approved AWS as		for additional clarification regarding certain aspects of the
						FileNet infrastructure. As DataHouse recommended in the BAFO the on-			content-manager/competitors/alternatives. Additional research could		the replacement hosting infrastructure solution effectively remediating the		replacement solution, Accuity will
						premise installation for the IBM ECM solution due to the capture volume and higher performance of document file transfers over the LAN and	2010 07 1701 02	Donato de la constanta de la c	result in more extensive choices going forward. •Include the impact of the alternative solution to project cost, schedule,		inability to leverage the DHS FileNet environment issue.		continue to monitor plans for AWS security under finding
						internal State network, DLIR should be provided with a technical analysis of various solution options that includes a comparison of the alternatives	2017.07.1101.102		resources, security, maintenance and operations, system software,		Accuity had also recommended that a comprehensive technical analysis be prepared on the replacement solution; however, DLIR decided not to		2019.07.IT07, AWS M&O roles and responsibilities under the new
						on performance.			hardware integration requirements, performance requirements, and required infrastructure to ensure a complete and successful working		formally document the analysis as they are comfortable with the selection based on reading of AWS whitepapers, the information provided by		preliminary concern 2019.10.IT02, and AWS costs under finding
						Although this issue relates to the proposed hosting infrastructure solution for Content Management, this is an opportunity for both DataHouse and			oclution. •Clearly define what needs to be completed, who is responsible, steps		DataHouse, and discussions with ETS and EDPSO.		2019.07.PM12.
						DLIR to reassess the total solution considering all updated technological opportunities available today. DLIR should ensure that DataHouse			for completion, and timing. •Considerations for impact on project cost includes costs related to the				
						performs sufficient analysis regarding possible alternative solution options. DLIR should also take the time to perform adequate due			following: * Processing, storage and connectivity				
						diligence before making any decisions. It is important that thorough analysis and adequate due diligence is performed before moving			Operating system and database management licensing Interfacing technologies				
						forward in the project in order to avoid further project delays and to ensure that the delivered system will meet operational and stakeholder			Maintenance and operations Data center, collocation facilities and availability requirements				
						requirements.			* If it is decided that FileNet is the most cost effective and efficient solution, renewal and ongoing costs of FileNet enterprise licensing				
									Considerations for impact on project schedule, time estimates, and resources include:				
									* Acquisition, installation, and configuration of software and infrastructure				
									* Ongoing maintenance and operations (patching, updates) * Performance of security assessments				
									* Change and configuration management				
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	2019.07.IT03.R1		Consider updates for revised requirements documents (refer to finding 2019.07.FM10) and for the alternative Content Management hosting infrastructure solution (refer to finding 2019.07.IT01).	Closed	09/20/19: Accuity 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	10/25/2019	Closed as the Content Management design documents are regularly updated as changes
						development will require design documents to be updated after an alternative Content Management hosting infrastructure solution is					above at finding 2019.07.PM10, DataHouse is in the process of updating the requirements documentation to include all requirements from the		to requirements are made. The completeness of the design with
						selected. However, even prior to this development, the Content Management design documents were drafted based on requirements					DataHouse contract.		respect to contract requirements will continue to be monitored
						documentation that is incomplete (refer to finding 2019.07.PM10). The requirements document deficiencies should be remediated immediately					10/20/19: The Content Management Design Document (version 1.2) was updated to refine or add requirements.		under the 2019.07.PM10 requirements finding.
						and the design documents updated accordingly.							
Data Conversion	2019.07.IT04	Risk	Moderate	N/A	A Content Management data conversion plan that is based on	Case Management is currently in the design phase and data conversion documents have not be drafted. The Content Management Conversion	2019.07.IT04.R1	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	11/22/2019	Closed as changes in system requirements do not appear to
					incomplete, inaccurate, and outdated requirements may impact the data	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		·			updated on 09/05/19 before the Content Management Design Document (version 1.1) was updated on 09/15/19 to include additional design		significantly impact the Content Management data conversion plan.
					migration design process and require additional effort to correct.	based on requirements documentation that is incomplete (refer to finding 2019.07.PM10). Furthermore, the Content Management					requirements. Changes to requirements should be evaluated for the impacts on the conversion and migration plans and the detailed taxonomy		
					- Concet	Conversion and Migration (version 0.0) document included a risk that changes to the requirements after a certain point in the project may					mapping.		
						cause additional effort to re-factor the migration design process.					10/25/19: DataHouse evaluated the new requirements and determined that there is no impact to the high level Content Management conversion		
						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					requirements included in the Conversion and Migration Plan.		
						conversion plan is based on accurate system requirements. The requirements document deficiencies (refer to finding 2019.07.PM10)					11/22/19: Accuity reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements will not		
						should be remediated immediately and the data conversion plan updated accordingly.					have a significant impact on the Content Management data conversion plan as the legacy system has limited data fields that are currently used.		

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
02/23/21	Monthly On-Site IV&V Review Report



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





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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