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October 4, 2022

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

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

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawai'i, Department of Commerce and Consumer Affairs, Business Registration Modernization Project.

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

Sincerely,

Dogueas

Douglas Murdock Chief Information Officer State of Hawai'i

Attachment

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

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

STATE OF HAWAII DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS (DCCA)

Business Registration Modernization (BRM) Project

AND

#### MONTHLY IV&V REVIEW REPORT

August 31, 2022 | Version 1.2





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## Document History

DATE	DESCRIPTION	AUTHOR	VERSION
09/09/22	Monthly IV&V Review Report Draft created	Sondra Ouye	0.0
09/22/22	Monthly IV&V Review Report Final updated to correct Aalta spelling throughout, to correct observation number reference on page 4, and to reflect no comments submitted in Appendix A.	Sondra Ouye	1.0
09/28/22	Monthly IV&V Review Report Final updated for public reporting by including a background section, Appendix A: IV&V Criticality and Severity Ratings, and Appendix B: Industry Standards and Best Practices and removing the "internal purposes only" notations.	Sondra Ouye	1.1
09/29/22	Monthly IV&V Review Report Final updated to correct the total budget amount on page 4 and observation number reference on page 5.	Sondra Ouye	1.2

## BACKGROUND

The State of Hawaii (State), Department of Commerce and Consumer Affairs (DCCA) contracted Century Computers, Inc. (Pacxa) on July 1, 2022 to provide services for the Business Registration Modernization (BRM) Project to redesign the Business Registration (BREG) Division's business registration processes and modernize its systems. DCCA contracted Aalta LLC (Aalta) to provide project management services for DCCA and also contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the BRM Project.

The goal of IV&V is to increase the probability of project success. The benefits of IV&V include identification of high-risk areas early and actionable recommendations. Our IV&V approach includes conducting interviews, observing project activities, reviewing project artifacts, and utilizing IV&V checklists based on industry standards and best practices (refer to Appendix B: Industry Standards and Best Practices).

This is the first Monthly IV&V Review Report which provides an initial assessment of project health as of August 31, 2022. Periodic IV&V review reports will be issued on a monthly basis through December 2023 to update and evaluate continual project progress and performance. The focus of our IV&V activities for this initial assessment was to quickly assess the project's implementation approach, understand the proposed technical solution, and evaluate the early project execution to date. Our IV&V Assessment Areas include People, Process, and Technology.

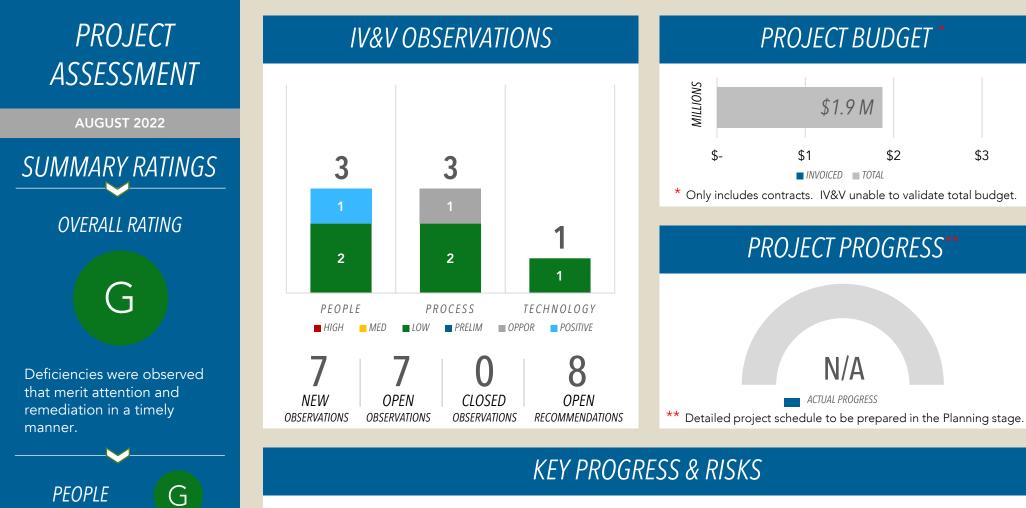
The IV&V Dashboard and IV&V Summary provides a quick visual and narrative snapshot of both the project status and project assessment as of August 31, 2022. Ratings are provided monthly for each IV&V Assessment Area (refer to Appendix A: IV&V Criticality and Severity Ratings). The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of the underlying observations.

#### **PROJECT SUCCESS**

"Coming together is a beginning; keeping it together is progress; working together is SUCCESS."

-Henry Ford





**PROCESS** 

**TECHNOLOGY** 

MEDIUM

R HIGH **CRITICALITY RATINGS** 

G

LOW

G

- The project is currently in the Planning and Discovery stages to gather information, develop plans, and implement processes.
- Identified risks are low as the project is still in the early stages. However, risks should be mitigated to prevent escalation.
- Collaborative team environment, experienced Pacxa team members, and DCCA employees are engaged. •
- Formalization of resource plans, governance, processes, and meetings needed to prevent future delays. ٠

			ORIGINAL	ACTUAL REVISI	D DELAYED
G )	PLANNING	RELEASE 1: BUILD & VALIDATE	UAT DPLY *GO-LIVE MAY 22, 2023	CLOSE	
	DISCOVERY		RELEASE 2: BUILD & VALIDATE	UAT DPLY * GO-LIVE D	EC 11, 2023
	PLAN				
	DISC				
			*** High-level timeline	pending the detailed pro	ject schedule.
NA	AUG 2022	JAN 2023	JUN 2023	NOV 2023	
N/A					4

\$2

\$3

# AUGUST 2022 · BRM PROJECT

AUG	SEP	OCT	IV&V ASSESSMENT AREA	IV&V SUMMARY
G	NA	NA	Overall	The BRM Project is currently in the Planning and Discovery stages to gather information, develop plans, and implement processes. Identified risks are low as the project is still in the early stages.
				<i>Project Schedule</i> : The project is on track with the high-level timeline. The detailed project schedule will be prepared in the Planning stage at the end of September 2022.
				<i>Project Costs</i> : Major project costs were finalized for the system implementor (Pacxa), project manager (Aalta), and IV&V (Accuity) contracts. A comprehensive project budget needs to be prepared (2022.08.004).
				<i>Quality</i> : The quality management plan is a project deliverable that will be completed in the Planning stage.
				<i>Project Success</i> : Project goals were drafted; however, quantitative success metrics need to be defined (2022.08.006).
G			People Team, Stakeholders, & Culture	<ul> <li>The project team environment between Pacxa and DCCA is collaborative and respectful (2022.08.001).</li> <li>The Pacxa team organization and high-level roles and responsibilities were presented at the project kickoff meeting. Pacxa team members appear to be qualified and knowledgeable and the Pacxa team adequately resourced.</li> <li>DCCA contracted an external full-time Project Manager (Aalta) who officially onboarded at the end of August 2022.</li> <li>DCCA also appointed resources for the OCM and communications lead roles. The new DCCA Project Manager is working to identify additional DCCA workstream lead roles (e.g., data conversion lead, testing lead) needed and potential candidates within DCCA. It is unclear at this time if there are adequate DCCA project resources to efficiently perform project work. DCCA project roles and responsibilities should be clearly defined and the resource plan completed as soon as possible (2022.08.002).</li> <li>The DCCA SMEs appear to be engaged in ongoing Discovery sessions and accountable for timely completing required tasks and responding to questions.</li> <li>Project governance is still pending. Selection of the steering committee members and kickoff of committee meetings should be finalized soon (2022.08.003).</li> <li>The Pacxa OCM lead kicked off OCM activities in July 2022. The OCM team made significant progress to draft various OCM documents including the stakeholder analysis, change impact analysis, and user identification. The OCM plan and communication matrix drafts are in progress.</li> </ul>

# AUGUST 2022 · BRM PROJECT

AUG	SEP	ОСТ	IV&V ASSESSMENT AREA	IV&V SUMMARY
G	NA	NA	Process Approach & Execution	<ul> <li>Pacxa presented high-level project processes and timeline during the project kickoff meeting. Drafting of the formal project management plan and detailed project schedule is currently in progress and scheduled to be completed at the end of the Planning stage in September.</li> <li>Pacxa is clarifying the project scope and requirements in the ongoing Discovery Sessions in order to prepare the project plan and schedule. The initial "As-Is" business processes documents were drafted and provided for DCCA review. Requirements and business processes will continue to be refined throughout the Discovery stage as well as the Joint Application Requirements activities.</li> <li>Pacxa is in the process of drafting deliverable expectation documents (DED) for the various project management and technical management deliverables.</li> <li>The DCCA SharePoint site was launched for project documents and collaboration.</li> <li>It is unclear how the complete project budget will be managed and how additional costs outside of the primary system implementor, DCCA Project Manager, and IV&amp;V contracts will be identified (e.g., software licenses, data storage, project tools) (2022.08.004).</li> <li>Recurring meetings such as project management, technical, and risk meetings help to promote frequent and focused discussions (2022.08.005). The new DCCA Project Manager plans to work with Pacxa to implement meetings in September.</li> <li>Project goals were drafted; however, quantitative success metrics were not defined (2022.08.006).</li> </ul>
G	NA	NA	<b>Technology</b> System, Data, & Security	<ul> <li>Pacxa's high-level system solution is based on the Clariti Business Registration COTS application built on the Salesforce platform.</li> <li>The initial fit-gap analysis to estimate the amount of configuration or customization effort is scheduled to be completed during the Discovery stage and continually refined during the Build and Validate stage.</li> <li>Pacxa held initial Discovery sessions regarding legacy system databases and data conversion requirements.</li> <li>Technical requirements for integration with existing applications and data conversion from legacy systems need to be further investigated (2022.08.007).</li> </ul>

People

Process

Technology

**Analysis:** The project team members regularly seek feedback, input, and clarification in an open and respectful manner. The experience and knowledge of Pacxa team members combined with the dedication and high level of engagement from DCCA SMEs support the positive project team environment.

**Recommendation:** N/A for positive observation.



People

Process

Technology

#### TITLE: IDENTIFY DCCA PROJECT ROLES AND RESOURCES

**Observation:** Insufficient DCCA project resources may lead to project delays, reduced project performance, or turnover of project resources.

**Industry Standards and Best Practices:** PMI PMBOK Chapters 2.4 and 4.4 provide methods for estimating the resources needed for successful completion of the project.

**Analysis:** It is unclear at this time if there are adequate DCCA project resources to efficiently perform project work to achieve the aggressive high-level timeline. DCCA did contract an external full-time Project Manager (Aalta) who officially onboarded at the end of August 2022. Having a dedicated and experienced resource in the Project Manager role has been shown to increase project success compared to a resource who is often pulled back to perform regular job duties. DCCA also appointed resources for the OCM and communications lead roles; however, other project roles and resources are not yet identified. The new DCCA Project Manager is working to identify the additional DCCA workstream lead roles (e.g., data conversion lead, testing lead) needed to efficiently and effectively perform project work as well as identify potential candidates within DCCA to fill these lead roles. A common issue in SOH modernization projects is that assigned resources must often balance competing priorities of project work and ongoing operational work. Additionally, assigned resources don't always have the necessary experience or knowledge of how to perform the project tasks. It is critical that a resource plan to backfill and train DCCA resources is developed to prevent project delays.

**Recommendation:** 2022.08.002.R1 – Evaluate project resource needs and acquire additional resources.

- Estimate resource time requirements and identify required knowledge or skillsets.
- Develop a plan to minimize the impact to operations (e.g., backfill, reassign work) so that assigned project resources are not pulled back from project work.
- Get commitments from resources and management for the time needed to perform project work.

2022.08.002.R2 – Provide adequate training and support to assigned resources to be able to perform role.

- Consider performing general project management training so that resources understand general project processes and the purpose of project activities.
- Consider providing additional support and information to resources regarding best practices and common approaches for assigned tasks or areas of responsibility.



People

Process

Technology

## OBSERVATION #: 2022.08.003

#### TITLE: FORMALIZE PROJECT GOVERNANCE

**Observation:** A delay in formalizing the executive steering committee may limit the strategic guidance and support to the project.

**Industry Standards and Best Practices:** PMI research shows that steering committees contribute to project success. PMI PMBOK Chapter 4.4 also identifies the importance of the steering committee role to provide direction and support.

**Analysis:** The Pacxa kickoff presentation noted that a governance model will be developed. The topic of a steering committee was also raised during meetings. However, the selection of the steering committee members and kickoff of the committee meetings are still pending.

**Recommendation:** 2022.08.003.R1 – Assemble and formalize an executive steering committee.

- The size and selection of committee members should balance the representation of key stakeholders with the need for efficient decision making.
- Formalize the committee mission, responsibilities, and the types and the thresholds of decisions that need committee approval in a steering committee charter.



People

Process

Technology

#### TITLE: ESTABLISH COST MANAGEMENT PLAN & BUDGET

**Observation:** A lack of cost management practices may lead to unexpected or improper costs.

**Industry Standards and Best Practices:** PMI PMBOK Chapter 2.4 outlines components of the project budget, Chapter 2.7 summarizes common cost measures, and Chapter 4.6 describes the cost management plan.

**Analysis:** Major project costs were finalized for the system implementor (Pacxa), project manager (Aalta), and IV&V (Accuity) contracts. However, it is unclear how the complete project budget will be managed and how additional costs outside of the major contracts will be identified. For example, certain assumptions were made regarding the use of existing enterprise licensing for DocuSign CLM and Salesforce community licenses. As additional information and clarification of technical requirements is obtained, these assumptions and the potential additional costs must be closely managed. Other costs for project tools (e.g., code repository, project management, testing) should also be considered and managed.

**Recommendation:** 2022.08.004.R1 – Prepare a comprehensive project budget and a schedule of long-term operational costs (e.g., licenses, subscriptions, maintenance, cloud services).

2022.08.004.R2 – Develop DCCA cost management processes.

- Develop processes to prepare cost variance analysis and reports.
- Develop processes to monitor contract deliverables against payment terms.



People

Process

Technology

2022.08.005	STATUS
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#### TITLE: IMPLEMENT RECURRING MEETINGS

**OBSERVATION #:** 

**Observation:** Implementation of recurring meetings help to promote frequent and focused discussions.

**Industry Standards and Best Practices:** PMI PMBOK Chapter 4.4 states that meetings are important for engaging the project team and are the primary means of communicating in projects.

**Analysis:** Recurring meetings help to promote collaboration and transparency, engage project team members, and coordinate various workstreams. They also provide regular touchpoints and communication channels to help keep critical project activities moving forward. Recurring project management meetings provide visibility of all project activities to Pacxa, DCCA, as well as IV&V. Recurring technical meetings have worked well in other projects as standing meeting to discuss different technical issues or topics. Recurring risk meetings promote regular and focused discussion of risks and mitigation strategies.

Recommendation: 2022.08.005.R1 – Implement recurring meetings.

- Ensure meetings are productive and fosters open and safe communication.
- Adjust the cadence as needed depending on the needs and activities of the project.

People

Process

Technology

#### TITLE: DEFINE SUCCESS METRICS

**Observation:** A lack of quantitative success metrics may lead to differences in the interpretation of project success.

Industry Standards and Best Practices: PMI project management, benefits realization management, and Prosci organizational change management best practices all include the identification of success metrics and the regular monitoring of progress towards achieving predefined success metric goals.

Analysis: Project goals were drafted; however, quantitative success metrics were not yet defined. Clear and measurable success metrics ensure that everyone is working to the same definition of success, that progress can be monitored, and corrective actions can be taken if necessary.

**Recommendation:** 2022.08.006.R1 – Formalize measurable goals and success metrics.

- Consider financial, nonfinancial, tangible, and intangible metrics such as operational key performance indicators (KPIs), customer or employee satisfaction, user adoption, return on investment, or cycle or processing times.
- Consider benefits realization management objectives as well as alignment to BREG goals.

2022.08.006.R2 – Collect baseline data and monitor progress.

- Consider methods for collecting data such as process mining, surveys, queries, observation, or open forums.
- Consider sources of data such as legacy systems, operations, and internal and external stakeholders.



People

Process

Technology

OBSERVATION #: 2022.08.007	STAT
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#### TITLE: INVESTIGATE TECHNICAL REQUIREMENTS

**Observation:** Technical requirements for integration with existing applications and data conversion from legacy systems need to be further investigated.

**Industry Standards and Best Practices:** DAMA International's Guide to the Data Management Body of Knowledge (DMBOK), Data Integration and Interoperability describes processes related to the movement and consolidation of data within and between data stores and applications. Institute of Electrical and Electronics Engineers (IEEE) 15288-2015 Section 6.4.5 outlines the various activities and tasks in the design process that includes the refinement and full definition of interfaces. DocuSign CLM also provides best practices for a Salesforce integration in the "DocuSign CLM for Salesforce Administrator Guide".

**Analysis:** Further investigation of technical requirements is needed to determine if there is a potential impact to the project schedule, project budget, or proposed solution. Some examples of the technical requirements that need to be further investigated include:

- DocuSign CLM specifications for integration with Salesforce environments
- Tools and time needed for a migration of documents from the existing DocuSign CLM repository
- HIC contract terms regarding data access and rights
- Migration of files from RDPMS

Pacxa and DCCA are in the process of investigating some of these. IV&V will continue to monitor this preliminary concern as additional information is discovered.

**Recommendation:** N/A for preliminary concerns.



## Appendix A: IV&V Criticality and Severity Ratings

#### **IV&V CRITICALITY AND SEVERITY RATINGS**

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

#### **Criticality Rating**

#### TERMS

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

ISSUE
An event that is
already occurring or
has already
happened

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

RRRVV<td

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

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

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

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

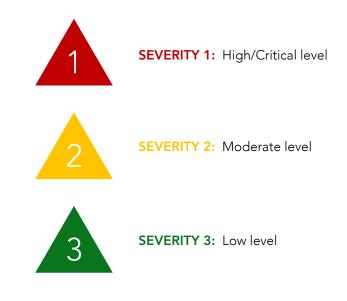


#### **Severity Rating**

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

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

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



#### TERMS

POSITIVE

Celebrates high performance or project successes.

#### PRELIMINARY CONCERN

Potential risk requiring further analysis.





## Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR: Awareness, Desire, Knowledge, Ability, and Reinforcement
BABOK® v3	Business Analyst Body of Knowledge
DAMA-DMBOK® v2	DAMA International's Guide to the Data Management Body of Knowledge
PMBOK® v7	Project Management Institute (PMI) Project Management Body of Knowledge
SPM	PMI The Standard for Project Management
PROSCI ADKAR®	Leading organization providing research, methodology, and tools on change management practices
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
IEEE 828-2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	International Organization for Standardization (ISO) Quality Management Systems – Requirements
ISO/IEC 25010:2011	ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models
ISO/IEC 16085:2020	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management
IEEE 16326-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Project Management
IEEE 29148-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering



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



STANDARD	DESCRIPTION	
FIPS 199	Federal Information Processing Standard (FIPS) Publication 199, Standards for Security Categorization of Federal Information and Information Systems	
FIPS 200	200 FIPS Publication 200, Minimum Security Requirements for Federal Information and Information Systems	
NIST 800-53 Rev 5	00-53 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 ( ritical Intrastructure ( vbersecurity	
LSS	Lean Six Sigma	





# Appendix C: Comment Log on Draft Report



## Comment Log on Draft Report

BRM Project: IV&V Document Comment Log					
		ACCUITY			
ID #	Page #	Comment	Commenter's Organization	Accuity Resolution	
1		No DCCA comments.			
2					
3					
4					
5					

# 

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