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August 20, 2020

The Honorable Ronald D. Kouchi, President, and Members of The Senate Twenty-Ninth State Legislature Hawaii State Capitol, Room 409 Honolulu, Hawaii 96813 The Honorable Scott K. Saiki, Speaker, and Members of The House of Representatives Twenty-Ninth 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 report the Office of Enterprise Technology Services received for the State's Employer-Union Health Benefits Trust Fund Benefits Administration System project.

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

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)

STATE OF HAWAII DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

Employer-Union Health Benefits Trust Fund Benefits Administration System (BAS)

AND

INITIAL ASSESSMENT REPORT

June 26, 2020 | Version 1.0

REPORT FINALIZED

July 22, 2020

mirror_mod.use_y = True mirror_mod.use_z = False f_operation == "MIRROR_Z": mirror_mod.use_x = False mirror_mod.use_y = False mirror_mod.use_z = True

#selection at the end -add bac mirror_ob.select= 1 modifier_ob.select=1 bpy.context.scene.objects.active print("Selected" + str(modifier_ol)

> QUALITY. INTEGRITY INSIGHT.

Acuity...

CERTIFIED PUBLIC ACCOUNTANTS



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Document History

| DATE | DESCRIPTION | AUTHOR | VERSION |
|----------|---|---------------|---------|
| 07/02/20 | IV&V Initial Assessment Report Draft created | Julia Okinaka | 0.0 |
| 07/22/20 | IV&V Initial Assessment Report finalized with no updates to draft version. No comments submitted in Appendix E. | Julia Okinaka | 1.0 |
| | | | |
| | | | |
| | | | |

EXECUTIVE SUMMARY

BACKGROUND

The State of Hawaii (State), Employer-Union Health Benefits Trust Fund (EUTF) contracted Morneau Shepell Limited (Morneau Shepell) with their Ariel EAS technology solution for the Health Benefits Administration System Modernization Project (BAS Project) on June 1, 2020. EUTF also contracted Segal to provide project management, business process reengineering (BPR), organizational change management (OCM), data cleansing, and conversion services.

The Office of Enterprise Technology Services (ETS) contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the EUTF BAS 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.

This Initial Assessment Report summarizes the results of the IV&V activities performed from project kick-off on June 4, 2020 through June 26, 2020, and provides our objective initial assessment of project health as of June 26, 2020. Monthly IV&V Status Reports will be issued to update and evaluate continual project progress and performance. Pre and Post Go-Live Implementation Milestone Reports will be issued prior to and after the deployment/completion of major project milestones.

The following two pages provide a high-level summary and visual snapshot of both the project status and project assessment as of June 26, 2020. Refer to Appendix A: IV&V Criticality and Severity Ratings for an explanation of the ratings.

PROJECT SUCCESS

"If everyone is moving forward together, then SUCCESS takes care of itself."

- Henry Ford



PROJECT ASSESSMENT

AS OF JUNE 26, 2020

SUMMARY RATINGS

OVERALL RATING

Minimal deficiencies were observed. Oversight may be needed to ensure risks stay low and project remains on track.

G

G

G

GOVERNANCE PROJECT MANAGEMENT

PROGRAM

TECHNOLOGY

R

HIGH

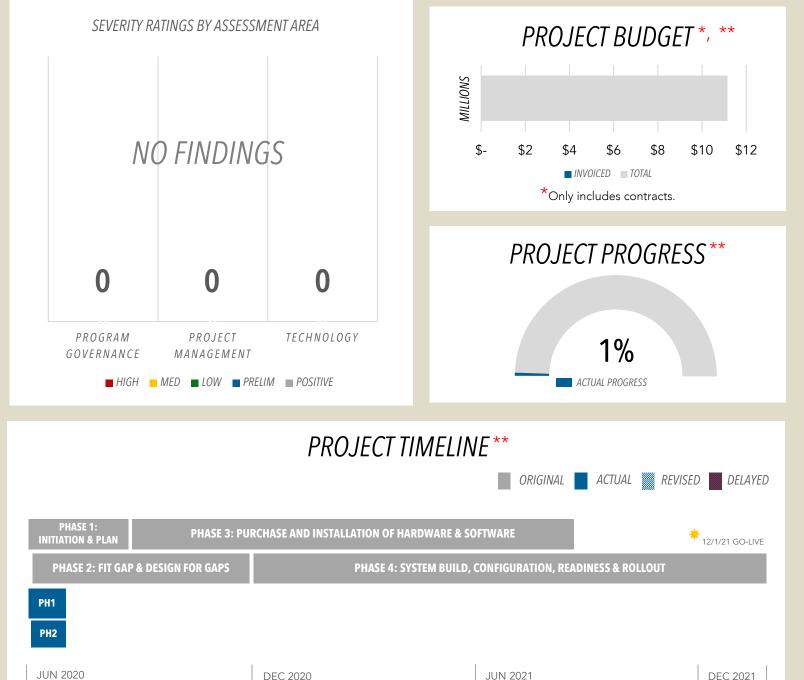
CRITICALITY RATINGS

MEDIUM

LOW



0 OPEN FINDINGS



**Pending finalization and approval

O OPEN RECOMMENDATIONS

ASSESSMENT AREA & RATINGS SUMMARY

AS OF JUNE 26, 2020

| INITIAL | IV&V ASSESSMENT AREA | IV&V OBSERVATIONS |
|---------|-----------------------|---|
| 0 | Overall | The overall project rating reflects a positive start with the contractors working collaboratively and effectively with EUTF and each other. Of sixteen total IV&V Assessment Categories, eight categories were given green, low criticality ratings indicating a good start towards developing key foundational project practices and proactive communication regarding upcoming project activities and deliverables. IV&V was unable to evaluate the remaining eight IV&V Assessment Categories as the project is still in its first month and many project activities have not yet begun. Our initial assessment resulted in no findings. Project Schedule, Cost, Scope, and Quality: The project is currently in the planning phase with a number of key project documents and tools used for tracking and monitoring schedule, cost, scope, and quality under development. As these documents and tools become finalized and utilized, IV&V will evaluate how effectively they are used to monitor key project metrics and activities. IV&V has observed discussions regarding schedule, scope, and resources as part of project meetings. |
| G | Program Governance | The project governance organization and roles and responsibilities were presented at the Project Kick-off meeting. Joint Steering Committee (JSC) members are finalized and monthly JSC meetings have been scheduled beginning in August 2020. Morneau Shepell plans to develop a Project Charter in July 2020 that will also serve as the overall Project Management Plan. The Project Charter will include success metrics for measuring and tracking how the project is delivering value and meeting project goals. |
| G | Project Management | The project management structure appears adequate as there are sufficient Morneau Shepell resources for the key implementation project roles and Segal has been hired to support EUTF in project management, BPR, OCM, and data conversion services. The EUTF BAS project has three main Project Managers (PMs) who work together collaboratively. Due to the COVID-19 pandemic, all of Morneau Shepell and Segal employees are working remotely across multiple times zones. Despite the location differences, project resources appear to be productive and effective. It will be important to coordinate and integrate project activities and deliverables across contractors. IV&V was unable to perform an initial assessment of project plans as they are still under development; however, Morneau Shepell will expand the Project Charter to also define and outline key project processes such as change management, communication management, risk escalation and management, and the implementation plan. Many key project deliverables such as a risk log, project SharePoint site, document request list, and project status reports typically expected during the planning phase were developed and utilized during the first month of implementation. Morneau Shepell's PM provided a project schedule on June 26, 2020 that will need to be reviewed to determine if is realistic and achievable. |
| 9 | Technology | Morneau Shepell's Ariel EAS solution is a benefits administration solution with integrated commercial-off-the-shelf (COTS) modules and is aimed at maximizing the out-of-the-box Ariel EAS features to meet EUTF requirements. To finalize the solution design, Morneau Shepell will hold seven Discovery Sessions to refine requirements, conduct a fit-gap analysis, and design to address identified gaps. The Discovery Session Kick-off will include an overview of the implementation methodology so participants understand their role in gathering, refining, and testing requirements. The solution will be implemented using a hybrid agile methodology to implement the solution in four segments. IV&V will assess the soundness of the implementation approach as the project progresses. Data extraction and mapping was one of the initial key focus areas in June. The data conversion team members held various meetings related to data extract layouts, data records, data mapping, integrity, security, and conversion. Morneau Shepell and EUTF are discussing and evaluating the cloud-based hosting solution. The project hopes to finalize the cloud architecture decision by the end of June. |

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA



OVERALL RATING

The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of any 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 each of the three major IV&V Assessment Areas. The eight green, low criticality ratings reflect a positive start towards developing key foundational project practices. As the project commenced on June 1, 2020, the project did not begin enough activities for IV&V to evaluate, resulting in eight gray, not applicable (NA) ratings. IV&V will evaluate and rate those areas as more information becomes available and project activities progress.

AT-A-GLANCE

POSITIVE start on FOUNDATIONAL project processes

Remote project resources are **PRODUCTIVE** and EFFECTIVE

COORDINATE and **INTEGRATE** project activities and deliverables across contractors

| INITIAL | PROGRAM GOVERNANCE | INITIAL | PROJECT MANAGEMENT |
|---------|---|---------|---|
| G | Governance Effectiveness | G | Project Organization and Management |
| NA | Benefits Realization | G | Requirements Management |
| INITIAL | TECHNOLOGY | G | Cost, Schedule, and Resource Management |
| G | System Software, Hardware, and Integrations | G | Risk Management |
| G | Data Conversion | G | Communications Management |
| NA | Quality Management and Testing | NA | Organizational Change Management (OCM) |
| NA | Configuration Management | NA | Business Process Reengineering (BPR) |
| NA | Security | NA | Training and Knowledge Transfer |
| NA | Deployment and Operations | | |



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



PROGRAM GOVERNANCE

| INITIAL | IV&V ASSESSMENT | IV&V OBSERVATION | FINDINGS | | |
|---------|-----------------------------|---|----------|------|--------|
| INITIAL | CATEGORY | IV&V OBSERVATION | NEW | OPEN | CLOSED |
| G | Governance Effectiveness | The project governance organization and roles and responsibilities were presented at the Project Kick-off meeting. Members of the Joint Steering Committee (JSC) are finalized and regular, recurring monthly meetings have been scheduled beginning in August 2020. The JSC objectives will include strategic direction, implementation trajectory, operational performance, and risk management. | 0 | 0 | 0 |
| NA | Benefits Realization | Morneau Shepell plans to develop a Project Charter in July 2020 that will also serve as the overall Project Management Plan. The Project Charter will include success metrics for measuring and tracking how the project is delivering value and meeting project goals. IV&V will perform an evaluation of the project charter upon completion. | 0 | 0 | 0 |

PROJECT MANAGEMENT

Project Organization and Management

Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer



PROJECT MANAGEMENT

| | IV&V ASSESSMENT | | FINDINGS | | | |
|---------|--|---|----------|------|--------|--|
| INITIAL | CATEGORY | IV&V OBSERVATION | | OPEN | CLOSEI | |
| G | Project Organization and Management | The project management structure appears adequate as there are sufficient Morneau Shepell resources for the key implementation project roles and Segal has been hired to support EUTF in project management, BPR, OCM, and data conversion services. The EUTF BAS project has three main Project Managers (PMs) who work together collaboratively. Due to the COVID-19 pandemic, all of Morneau Shepell and Segal employees are working remotely across multiple times zones. Despite the location differences, project resources appear to be productive and effective. In addition, RACI charts continue to be developed and expanded to clarify the project management structure, roles, and responsibilities. It will be important to coordinate and integrate project activities and deliverables across contractors. IV&V was unable to perform an initial assessment of project plans as they are still under development; however, Morneau Shepell will expand the Project Charter to also define and outline key project processes such as change management, communication management, risk escalation and management, and the implementation plan. Many key project deliverables such as a risk log, project SharePoint site, document request list, and project status reports typically expected during the planning phase were developed and utilized during the first month of implementation. | 0 | 0 | 0 | |
| G | Requirements Management | Discovery Sessions to refine and analyze requirements are being planned and will be a significant milestone to confirm fit and identify potential gaps in the BAS solution. The kick-off for the first of seven Discovery Sessions is planned for the beginning of July 2020. The Discovery Session Kick-off will include an overview of the implementation methodology so participants understand their role in gathering, refining, and testing requirements. IV&V will continue to monitor and report as the requirements activities commence. | 0 | 0 | 0 | |



| | | IV&V ASSESSMENT CATEGORY | | FINDINGS | | | | |
|---|---------|---|---|----------|------|--------|--|--|
| PROJECT MANAGEMENT | INITIAL | | IV&V OBSERVATION | NEW | OPEN | CLOSED | | |
| Project Organization and Management Requirements Management Cost, Schedule, and Resource Management | G | Cost, Schedule, and Resource Management | Morneau Shepell's PM provided a project schedule on June 26, 2020 that will need to be reviewed to determine if it is realistic and achievable. The schedule still needs to be updated for percent completion, resources, and project deliverables. Although there is no single integrated schedule that also reflects EUTF's activities and resources, Segal plans on detailing out EUTF's schedule, tasks, deliverables, and resources. Segal will work with the EUTF in monitoring the project's overall schedule, milestones, deliverables, resources, and budget. IV&V has observed discussions regarding schedule, scope, and resources as part of the weekly and biweekly project meetings. | 0 | 0 | 0 | | |
| Risk Management Communications Management Organizational Change Management | G | Risk Management | A risk log was created by Morneau Shepell on their SharePoint site within the first two weeks of project implementation and risks are being logged and discussed during project meetings. The Segal PM has agreed to update the same log to track issues identified by EUTF. IV&V communicated the need to also log risks identified through IV&V monthly reporting. | 0 | 0 | 0 | | |
| Business Process Reengineering Training and Knowledge Transfer | G | Communications Management | A project kick-off meeting introducing the key project members and providing a high-level overview of project objectives, implementation strategy, project governance, cadence, and next steps was held on June 4, 2020. With such a large team, proactive and frequent communication is critical to project team communications. The PMs have taken the responsibility of coordinating meetings on behalf of their teams and meeting notes are posted to the SharePoint site for all to view. IV&V has observed kick-off meetings with key stakeholders prior to starting major project activities. | 0 | 0 | 0 | | |
| | NA | Organizational Change Management (OCM) | OCM activities have not commenced yet. Segal is responsible for working with EUTF to develop an OCM plan. Segal and Morneau Shepell have agreed to account for OCM plans as part of Discovery Session 1. Structured OCM activities should start early to ensure stakeholder engagement and acceptance. | 0 | 0 | 0 | | |
| | NA | Business Process Reengineering (BPR) | BPR activities have not commenced yet. Segal is responsible for working with EUTF to develop a BPR plan. Segal and Morneau Shepell have agreed to account for BPR as part of Discovery Session 1. | 0 | 0 | 0 | | |
| | NA | Training and Knowledge Transfer | Training and Knowledge Transfer activities are not occurring at this stage of the project. | 0 | 0 | 0 | | |



TECHNOLOGY

System Software, Hardware, and Integrations

Data Conversion

Quality Management and Testing

Configuration Management

Security

Deployment and Operations

| G | TECHNOLOGY |
|---|------------|
|---|------------|

| INITIAL | IV&V ASSESSMENT | | FINDINGS | | | |
|---------|---|--|----------|------|--------|--|
| INITIAL | CATEGORY | IV&V OBSERVATION | NEW | OPEN | CLOSED | |
| G | System Software, Hardware, and Integrations | Morneau Shepell's Ariel EAS solution is a benefits administration solution with integrated COTS modules. Ariel EAS is Microsoft-based, runs on Windows Servers, and uses Microsoft SQL Server as the database platform. Morneau Shepell and EUTF are discussing and evaluating the cloud- based hosting solution. The project hopes to finalize the cloud architecture decision by the end of June. Any impacts to the Morneau Shepell contract and pricing for both implementation and post- implementation will need to be reviewed carefully. | 0 | 0 | 0 | |
| G | Data Conversion | Data conversion was one of the initial key focus areas in June. The data conversion team members have held various meetings to discuss data extract layouts, data records, data mapping, integrity, security, and conversion. Morneau Shepell and EUTF have shared their data layouts to determine data mapping between current and legacy databases. Segal and their subcontractor, ICON Consulting, are supporting EUTF through this process. | 0 | 0 | 0 | |
| NA | Quality Management and Testing | Segal is responsible for developing and monitoring project quality standard compliance including conducting quality reviews of deliverables and testing. Testing activities are not occurring at this stage of the project. Morneau Shepell is responsible for developing a testing strategy and plan and test cases to cover unit, system, regression, integration, parallel, user acceptance, volume, and stress testing. | 0 | 0 | 0 | |



| | INITIA | | IV&V ASSESSMENT | IV&V OBSERVATION | FINDINGS | | | |
|--|--------|---------|------------------------------|--|----------|------|--------|--|
| TECHNOLOGY | | INITIAL | CATEGORY | IV&V OBSERVATION | NEW | OPEN | CLOSED | |
| System Software, Hardware, and Integrations Data Conversion | | NA | Configuration Management | The proposed solution is aimed at maximizing the out-of-the-box Ariel EAS features to meet EUTF requirements, with the least amount of customizations. Morneau Shepell provided a high-level Release and Configuration Management process overview as part of its response to the EUTF BAS RFP. IV&V to evaluate when the Change Control Plan and detailed configuration management documentation is available. | 0 | 0 | 0 | |
| Quality Management and Testing | | NA | Security | Security activities are not occurring at this stage of the project. | 0 | 0 | 0 | |
| Configuration Management | | NA | Deployment and Operations | Deployment activities are not occurring at this stage of the project. | 0 | 0 | 0 | |

Deployment and Operations

Security

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.

The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the

Criticality Rating

TERMS

RISK An event that has not happened yet.

ISSUE An event that is already occurring or has already happened.



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. Up arrows indicate improvements or progress made, down arrows indicate a decline or inadequate progress made in areas of increasing risk or approaching timeline, and 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.

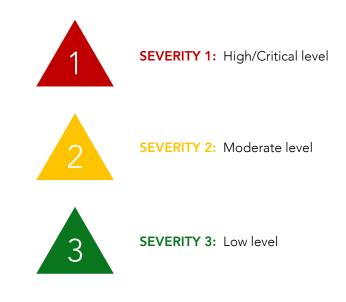
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Severity Rating

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

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

Findings that are positive or preliminary concerns are not assigned a severity rating.



TERMS

POSITIVE

Celebrates high performance or project successes.

PRELIMINARY CONCERN

Potential risk requiring further analysis.

Appendix B: Industry Standards and Best Practices

| STANDARD | DESCRIPTION |
|-----------------------|---|
| ADA | Americans with Disabilities Act |
| ADKAR® | Prosci ADKAR: Awareness, Desire, Knowledge, Ability, and Reinforcement |
| BABOK® v3 | Business Analyst Body of Knowledge |
| DAMA-DMBOK® v2 | DAMA International's Guide to the Data Management Body of Knowledge |
| HIPAA | Health Insurance Portability and Accountability Act of 1996 |
| MARS-E v2.0 | CMS Minimum Acceptable Risk Standards for Exchanges – Exchange Reference Architecture Supplement |
| MITA v3.0 | Medicaid Information Technology Architecture |
| PMBOK® v6 | Project Management Institute (PMI) Project Management Body of Knowledge |
| SWEBOK v3 | Guide to the Software Engineering Body of Knowledge |
| TOGAF® v9.2 | The Open Group Architecture Framework Standard |
| COBIT® 2019 Framework | Control Objectives for Information and Related Technologies Framework |
| IEEE 828-2012 | Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering |
| IEEE 1062-2015 | IEEE Recommended Practice for Software Acquisition |
| IEEE 1012-2016 | IEEE Standard for System, Software, and Hardware Verification and Validation |
| IEEE 730-2014 | IEEE Standard for Software Quality Assurance Processes |
| ISO 9001:2015 | International Organization for Standardization (ISO) Quality Management Systems – Requirements |
| ISO/IEC 25010:2011 | ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models |
| ISO/IEC 16085:2006 | ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management |



| STANDARD | DESCRIPTION |
|-------------------|---|
| IEEE 16326-2019 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Project Management |
| IEEE 29148-2018 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering |
| IEEE 15288-2015 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – System Life Cycle Processes |
| IEEE 12207-2017 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Software Life Cycle Processes |
| IEEE 24748-1-2018 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 1: Guidelines for Life Cycle Management |
| IEEE 24748-2-2018 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 2: Guidelines for the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes) |
| IEEE 24748-3-2012 | IEEE Guide: Adoption of ISO/IEC TR 24748-3:2011, Systems and Software Engineering – Life Cycle Management – Part 3: Guide to the Application of ISO/IEC 12207 (Software Life Cycle Processes) |
| IEEE 14764-2006 | ISO/IEC/IEEE International Standard for Software Engineering – Software Life Cycle Processes – Maintenance |
| IEEE 15289-2019 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life Cycle Information Items (Documentation) |
| IEEE 24765-2017 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Vocabulary |
| IEEE 26511-2018 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Requirements for Managers of Information for Users of Systems, Software, and Services |
| IEEE 23026-2015 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Engineering and Management of Websites for Systems, Software, and Services Information |
| IEEE 42010-2011 | ISO/IEC/IEEE International Standard – Systems and Software Engineering – Architecture Description |
| IEEE 29119-1-2013 | ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions |
| IEEE 29119-2-2013 | ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes |
| IEEE 29119-3-2013 | ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation |
| IEEE 29119-4-2015 | ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques |



| STANDARD | DESCRIPTION | | |
|--|---|--|--|
| IEEE 1484.13.1-2012 | IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training | | |
| ISO/IEC TR 20000- 11:2015 | ISO/IEC Information Technology – Service Management – Part 11: Guidance on the Relationship Between ISO/IEC 20000-1:2011 and Service Management Frameworks: ITIL® | | |
| ISO/IEC 27002:2013 | Information Technology – Security Techniques – Code of Practice for Information Security Controls | | |
| SAML v2.0 | Security Assertion Markup Language v2.0 | | |
| SoaML v1.0.1 | Service Oriented Architecture Modeling Language | | |
| CMMI-DEV v1.3 | Capability Maturity Model Integration for Development | | |
| FIPS 199 | Federal Information Processing Standard (FIPS) Publication 199, Standards for Security Categorization of Federal Information and Information Systems | | |
| FIPS 200 | FIPS Publication 200. Minimum Security Requirements for Federal Information and Information | | |
| NIST 800-53 Rev 4 National Institute of Standards and Technology (NIST) Security and Privacy Controls for Fed Information Systems and Organizations | | | |
| NIST Cybersecurity Framework v1.1 | NIST Framework for Improving Critical Infrastructure Cybersecurity | | |
| LSS | Lean Six Sigma | | |

Appendix C: IV&V Monthly Status

MAIN IV&V ACTIVITIES AND ACCOMPLISHMENTS

| CTIVITIES AND ACCOMPLISHMENTS |
|-------------------------------|
|-------------------------------|

Conducted IV&V Introduction Meeting with EUTF

Conducted IV&V Kick-off Meeting with EUTF, Morneau Shepell, and Segal

Developed and shared a Lessons Learned presentation regarding State of Hawaii IT Modernization projects

Reviewed EUTF BAS project documentation and deliverable requirements

Participated in EUTF BAS Technology Meetings (Data Conversion and Azure Cloud Meetings)

Participated in EUTF BAS Project Management Meetings (Joint Weekly Project Team and Joint Bi-weekly PM Meetings)

Shared examples of project templates such as a Project Charter and Deliverable Expectations Document

Made informal recommendations on project tools such as the RAID log, Project Charter and Work Plan

Submitted two draft deliverables: IV&V Project Management Plan and Initial Assessment Report

KEY UPCOMING IV&V DELIVERABLES

| KEY IV&V DELIVERABLES | DRAFT DUE DATE | DRAFT SUBMITTED | FINAL SUBMITTED |
|------------------------------|----------------|-----------------|-----------------|
| IV&V Project Management Plan | 06/29/20 | 06/29/20 | - |
| Initial Assessment Report | 07/02/20 | 07/02/20 | - |

PRIOR IV&V APPROVED DELIVERABLES

| DELIVERABLE | AS OF DATE | APPROVED DATE |
|----------------|----------------|----------------|
| Not Applicable | Not Applicable | Not Applicable |



Appendix D: Interviews, Meetings, and Documents

INTERVIEWS

| DATE | INTERVIEWEE | | |
|----------|---|--|--|
| 06/18/20 | Gary Behnke (Segal PM): Project Management and Data Conversion deliverables | | |
| 06/18/20 | Donna Tonaki (EUTF Assistant Administrator): Review of IV&V project team, recurring IV&V meetings, project deliverables, and budget | | |

MEETINGS

| DATE | MEETING DESCRIPTION | | |
|----------|--|--|--|
| 06/01/20 | Initial IV&V Meeting | | |
| 06/04/20 | Morneau Shepell Kick-Off Meeting | | |
| 06/09/20 | IV&V Role and Introduction | | |
| 06/10/20 | Review EUTF – Documentation Request Form | | |
| 06/15/20 | EUTF – Data Conversion Kick-off | | |
| 06/16/20 | IV&V Meeting and Lessons Learned | | |
| 06/18/20 | Hawaii EUTF - ICON - EUTF - MS Extract Record Data Element Review | | |
| 06/22/20 | Hawaii EUTF Project - Morneau Shepell Extract Formats Review and Mapping | | |
| 06/22/20 | Hawaii EUTF Project - Morneau Shepell Extract Formats Review and Mapping Meeting 2 | | |
| 06/22/20 | EUTF - Joint Weekly Project Team Meeting | | |
| 06/23/20 | Hawaii EUTF Project - Morneau Shepell Extract Formats Review and Mapping Meeting 3 | | |
| 06/23/20 | EUTF - Joint Bi-Weekly PM Meeting | | |
| 06/26/20 | Review of IV&V Dashboard and Project timeline | | |



MEETINGS (CONTINUED)

| DATE | MEETING DESCRIPTION | | |
|----------|---|--|--|
| 06/26/20 | EUTF - Azure Discussion / Decision | | |
| 06/26/20 | Review of IV&V Dashboard and upcoming IV&V deliverables | | |

DOCUMENTS

| ТҮРЕ | DOCUMENT | | |
|-----------------------------|--|--|--|
| Request for Proposal | State of Hawaii EUTF BAS RFP No. RFP-20-002 for Health Benefits Administration System (Release Date 11/27/19) | | |
| Morneau Shepell Proposal | Final Response Morneau Shepell Limited to State of Hawaii EUTF RFP-20-002 – Master (Dated 01/24/20) | | |
| Morneau Shepell Proposal | EUTF BAS RFP 20-002- Morneau Shepell BAFO Response Implementation Plan - FINAL | | |
| Morneau Shepell Proposal | EUTF BAS RFP 20-002- Morneau Shepell BAFO Response to BAS Oral Presentation Demo Question Requests - FINAL | | |
| Request for Proposal | State of Hawaii EUTF BAS RFP No. RFP-20-001 for Project Management and Consulting Services (Release Date 09/25/19) | | |
| Segal Proposal | BAFO for RFP No. RFP-20-001 for Project Management and Consulting Services (Effective 03/16/20) | | |
| Request for Proposal | State of Hawaii ETS RFP-19-010 EUTF BAS IV&V | | |
| Accuity Proposal | Accuity LLP EUTF IVV Proposal RFP-19-010 FINAL | | |
| Contract | Morneau Shepell Limited Contract (effective 06/01/20) | | |
| Contract | Segal Company Contract (effective 06/01/20) | | |
| Contract | Accuity Contract (effective 06/01/20) | | |
| Project Management | Hawaii EUTF Morneau Shepell Project Kick-Off – FINAL (06/04/20) | | |



DOCUMENTS (CONTINUED)

| ТҮРЕ | DOCUMENT | | |
|--------------------|---|--|--|
| Project Management | EUTF Morneau Shepell HW Information Request Form (Annotated Version) | | |
| Project Management | MS RACI Chart | | |
| Project Management | EUTF – Weekly Project Team Status – 2020-06-22 | | |
| Project Management | EUTF-Joint PM Meeting Agenda – 2020-06-23 | | |
| Risk and Issues | EUTF – RAID Log | | |
| Schedule | Hawaii (EUTF) – RFP Work Plan – V1.0 | | |
| Schedule | Hawaii (EUTF) – BAS Work Plan (2020-06-26) | | |
| Data Conversion | Data Conversion Kick-off Agenda | | |
| Data Conversion | EUTF – MS Data Conversion Kick-off | | |
| Data Conversion | EUTF Employee Conversion Layout | | |
| Data Conversion | Data Flow and Process of MS Data Extracts | | |
| Meeting Minutes | 20200615 – Data Conversion Kick-off Minutes | | |
| Meeting Minutes | 20200618 – Hawaii EUTF Project – Data Analysis Mtng – Notes V001 | | |
| Meeting Minutes | 20200622 – Hawaii EUTF Project – Data Analysis Mtng Agenda and Notes V005 | | |
| Meeting Minutes | 20200626 Azure Discussion Minutes | | |



Appendix E: Comment Log on Draft Report



Appendix E: Comment Log on Draft Report

| EUTF B | EUTF BAS Project: IV&V Document Comment Log | | | |
|------------------------------|---|--------------------------|-----------------------------|--------------------|
| CERTIFIED PUBLIC ACCOUNTANTS | | | | |
| ID # | Page # | Comment | Commenter's Organization | Accuity Resolution |
| 1 | | No EUTF or ETS comments. | | |
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INSIGHT.

Acuityup

CERTIFIED PUBLIC ACCOUNTANTS

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