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June 18, 2021

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

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

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation 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 Hawaii Department of Education's FMS 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,

Douglas Murdock Chief Information Officer State of Hawaiʻi

Attachment (2)



# **FMS Modernization Project**

# **Department of Education (DOE)**

IV&V Monthly Status Report – **Final** For Reporting Period: **March 16 – April 15, 2021** 

Draft Submitted: May 10, 2021 Final Submitted: June 4, 2021



**Solutions that Matter** 

### **Overview**

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Status
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  - A IV&V Findings Log & Priority Ratings
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## **Executive Summary**

Despite some challenges, the project continues to make progress toward achieving their planned 7/16/2021 go-live date. The project has begun the Rehearsal Smoke Test (RST) environment build and completed the majority of test scripts for UAT. However, delays (primarily with interfaces and conversion) continue to hinder progress, which will likely delay closeout of User Acceptance Testing (UAT) by at least 1 week. Some project team members continue to work overtime and on weekends to ensure they can meet their aggressive go-live date and appear to be making good progress despite the recent convergence of multiple workstreams including, rehearsal environment build, training material development, and UAT.

IV&V and DOE PMO continue to note instances where the project team has chosen expedience over quality (e.g., cutting corners on tasks to meet deadlines). As go-live draws near, the project continues to carry risks to quality, cost, and schedule primarily due to overlapping UAT and RST, the planned late introduction of some functionality, and the potential lack of adequate test script coverage. DOE has stated they plan to formulate a regression testing plan that could mitigate some of these risks. The project team capacity risk has increased as many important planned activities have been pushed out closer to go-live, which presents a risk that the month prior to go-live (June 2021) could require more activities than the team has capacity to accomplish, resulting in further sacrifice of quality or schedule slippage. Because the project schedule is not fully resourced, there is currently no objective way to determine which remaining system features will be completed prior to go-live, which could complicate training and increase user frustration as they may not know, at the time of training, exactly which features (or required work arounds) will be available at go-live. IV&V recommends DOE make extensive efforts to manage user expectations by communicating what functionality will be available at go-live, what workarounds will be required, and when functionality to eliminate workarounds will be implemented, in order to maintain user buy-in. Further, as important milestones draw near, IV&V recommends DOE executive leadership clearly communicate to project stakeholders (including testers) how they should prioritize project activities appropriately so that the project can meet their go-live date.

The project has recently named the new Financial Management System (FMS), "Aukahi FMS", which will be referenced as "Aukahi" on IV&V reports going forward.



Feb	Mar	Apr	Category	IV&V Observations
		H	Cost &	The project team continues to make extensive efforts to ensure they can meet their aggressive go-live date and appears to be making good progress despite the recent convergence of multiple workstreams (kickoff of the rehearsal environment build, training material development, and UAT). Though the project has accepted the risk of a less than comprehensive and fully resourced project plan, the SI continues to make efforts to mitigate this risk by building out a detailed cutover plan and providing project participants detailed, prioritized task lists. The project is also tracking, in a consolidated list, pre-go-live items that have been deprioritized (in order to focus on prioritized critical tasks) as well as tasks that will be completed soon after go-live. While this should help to assure important system features or tasks are not forgotten or missed, there remains no way of knowing which features/tasks can be completed before go-live or when they will be completed post go-live. This could complicate training and increase user frustration as they may not know, at the time of training, exactly which features (or required work arounds) will be available at go-live. If user expectations are not managed well, user buy-in could be challenging. Users may have few assurances as to when some system functionality will become available post go-live.
			Schedule Management	Additionally, some stakeholders have already indicated that they have concerns that the system will have limited capabilities at go-live due to the aggressive schedule. As go-live draws near, IV&V remains concerned that some functionality has yet to be fully vetted, implemented, and unit tested (e.g., purchase order approvals). IV&V also remains concerned that testing scripts may have been less than comprehensive due to the tight schedule which could impact system quality and lead to excessive bugs at go-live. Users may be allowed to enter invalid entries in the new system (mistakes that were blocked in legacy FMS) that could create additional bugs and/or require DOE SME extend efforts to identify and cleanup errors. Due to all the concerns mentioned here and the related category risks, IV&V has escalated this category risk to "High". This risk rating is based on the quantity, collective impact, and increased probability of IV&V and DOE PMO identified risks, as well as the ever-shortening window of time to implement risk mitigation.
				IV&V recommends DOE make extensive OCM efforts to manage user expectations at go-live as well as devote resources to actively monitor user inputs/actions post go-live, correct errors, and coach users on proper usage of the system.



Feb	Mar	Apr	Category	IV&V Observations	
					DOE project participants continue to state their strong commitment to ensure the project stays on schedule and continue to make efforts to improve the quality of system design and configuration. Key DOE project participants have stated they continue to operate at their maximum capacity which is beyond expectations and not typically a sustainable workload for DOE staff. Some have noted that the project has taken a toll on them, and some have expressed fatigue from the consistently long hours, frustration with the productivity challenges the project continues to face, and the burden of ensuring quality with technology they do not fully understand. The DOE PM (a Gartner subcontractor) recently announced they will be leaving the project and the position will be backfilled by another Gartner resource. Turnover to the new PM is underway but it remains unclear if the new resource will be able to provide the same level of support and risk mitigation provided by the outgoing PM given that this will be their first exposure to the project, three months prior to go-live. The burden to fill this potential gap could fall on DOE SMEs. IV&V recommends DOE request the SI provide additional PM support to help compensate for the potential drop in DOE PM support.
M	M	M	Human Resources Management	The project is compiling a list of activities/tasks that need to be completed pre- and post- go-live. As this list grows, it remains unclear if DOE SMEs will be able to complete some pre-go-live tasks as the level of effort for these tasks is not being estimated and DOE SME resource capacity is not being tracked. The project capacity risks are increasing as many important planned activities have been pushed out closer to go-live, which presents a risk that the month prior to go-live (June 2021) could require more activities than the team has capacity to accomplish resulting in further sacrifice of quality and/or schedule slippage. The DOE IT team project participation continues to be constrained by multiple competing non-FMS DOE priorities.	
				As DOE SMEs become more familiar with and explore system configuration options, they have found solutions that even the SI may not have been aware of. IV&V and DOE SMEs have observed instances of the SI's lack of expert-level knowledge of the system and their failure to communicate when mistakes are made, which has created confusion and frustration for DOE SMEs. IV&V recommends DOE request the SI increase their level of transparency and communication as the project makes the final push toward go-live. It has also become clear that the SI global team's inability to effectively manage staff across time zones continues to be a contributing factor to interface and conversion task delays. The SI has committed to modifying their global team hours to more closely align with Hawaii (HST) hours, however it remains unclear if this is consistently or effectively applied.	

Feb	Mar	Apr	Category	IV&V Observations
	M			DOE SMEs continue to report, and IV&V has observed, instances of SI lead's lack of meeting preparation. It appears the SI continues to rely on meetings with multiple participants to collaborate amongst themselves and resolve project issues. IV&V continues to highlight this risk to project team capacity and recommends DOE leadership request the SI team members explore more efficient methods (e.g., calling key SMEs prior to meetings) to speed communications and reduce time spent in meetings so they can be more productive and be freed up to work on project activities. IV&V and DOE SMEs have noted that SI leads continue to make the same mistakes despite DOE SME feedback on important management processes and practices that need improvement. The SI approach to team coaching and continuous process improvement remains unclear. IV&V recommends DOE request the SI consistently coach their team members for continuous process improvement capabilities, along with the SI global team's management of staff in different time zones continues to delay interfaces, conversion, and other project tasks.
M			Project Management & Organization	Security Knowledge Transfer (KT) sessions appear to have improved after the SI made some resource changes and made improvements to the KT materials. IV&V and the DOE PMO remains concerned that the DOE may not be fully prepared to support the system post go-live and/or post warrant when the existing SI team is no longer available to assist. Early KT security sessions seem to indicate that Oracle security configurations are complicated, and DOE IT support staff may have difficulty troubleshooting and effectively resolving support tickets in a timely manner. IV&V recommends DOE explore Oracle training options for their support staff and augment their team with additional resources to support the system and manage Oracle quarterly updates.
				The project is making extensive efforts to complete their first Aukahi introductory course which should be available for users the week of 4/26/21. DOE is also planning to provide supplementary support material to their users including policy/procedure documentation, walkthroughs of functional processes, guides to using forms, vendor payment charts, and a terminology crosswalk from legacy FMS to Aukahi. SI course duration estimates have recently increased, raising DOE concerns that the existing schedule is no longer be feasible. The SI is addressing this concern by adding an additional training resource. Details of post-go-live training for new DOE employees remains unclear.



Feb	Mar	Apr	Category	IV&V Observations
				The SI continues to improve the production cutover plan/checklist which should help to reduce some production cutover quality risks. The project's decision to implement and fully configure a separate rehearsal environment from the ground up is likely to increase the SI's competence and speed of implementing the production environment. DOE SMEs continue to note instances of SI leads bypassing agreed upon release management processes, making changes to environments without notifying DOE SMEs, which holds the potential for negatively impacting system quality.
			Quality	IV&V remains concerned that test scripts do not have full traceability to contract requirements and may not be comprehensive enough to catch some system defects, as DOE SME ad-hoc testing has uncovered bugs not caught by testing scripts. The SI has indicated they will not be improving test scripts or creating any new scripts when DOE ad-hoc tests find bugs, therefore, DOE has assigned a resource to create new scripts and improve unclear scripts.
M		M	Management	The project will likely extend UAT by another week due to interface/conversion implementation delays as well as delays related to tester capacity. As important project milestones draw near, IV&V recommends DOE leadership clearly communicate to project stakeholders (including testers) how they should prioritize project activities appropriately so that the project can meet their go-live date. It appears the project will elect to shorten the duration of the Rehearsal Smoke Test (RST) (accepting the risks related to insufficient testing) in order to get an early start on the production environment. Further, many system and functional design decisions and/or issues have yet to be resolved, much less tested. Late testing of new functionality runs the risk that this functionality may not be fully tested and/or the project may have little time to apply and fully test potential bug fixes. IV&V also recommends DOE leadership request the SI make additional exploratory testing efforts (aka., "poke around in the system to see if you can break it"). It remains unclear whether the project will implement security penetration (or other security testing) prior to go-live.

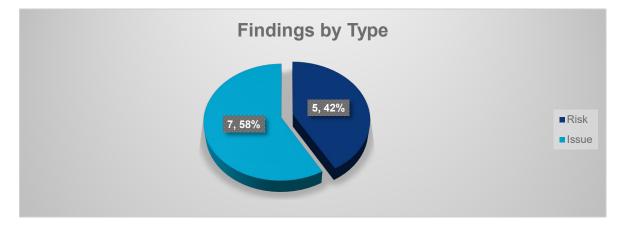


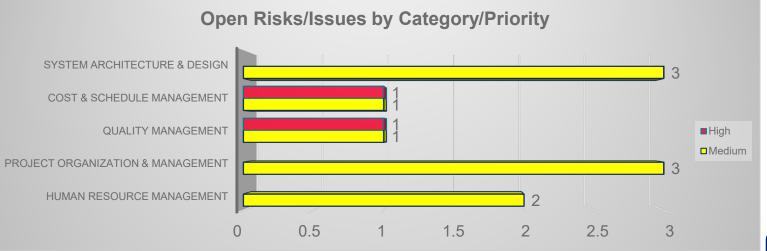
Feb	Mar	Apr	Category	IV&V Observations
				The project continues to devote a significant amount of effort to create workarounds due to Oracle Financials (OF) limitations. For example, due to Oracle's limited ability to secure attachments, the project has elected to implement a workaround by storing and securing all attachments in Google drive (where they can control security) and storing the Google drive URL in the system so users can view them. The project has been unable to create a separate training environment, so trainers have had to utilize the UAT environment for training material data entry and screenshots. This has led to trainers entering data in UAT that was unexpected by UAT testers and may have invalidated some UAT tests. Further, OF does not consistently apply the global Hawaii Standard Time (HST) setting system wide as some system components continue to default to UTC (Coordinated Universal Time). This has created some confusion and led to test script failures.
M	×	M	System Architecture & Design	DOE SMEs recently took the initiative to perform some ad-hoc security testing that was not included in system test scripts and found system flaws that existing test scripts had not covered. For example, ad-hoc testing found that SASA's were able to reopen closed PO's and make changes when the system should have prevented it. IV&V remains concerned that some aspects of security have not been implemented properly and/or have not been fully tested, and that some users may have been given more security permissions than their roles are intended to have in order to pass test scripts. Inaccurate security configurations could increase the risk of fraud and could lead to a flood of helpdesk or other support calls post go-live if multiple users are reporting security and other configuration issues. IV&V remains concerned that some security designs and issues have yet to be resolved this close to go-live. For example, the process to manage special user security requests has yet to be fully vetted due to project capacity constraints.
				Delays related to the late discovery of interface requirements with one boundary system (SVM) continues to negatively impact the project. It remains unclear if this or other interfaces will be implemented prior to completion of UAT or prior to go-live.



## **IV&V Findings and Recommendations**

IV&V identified 12 findings (7 issues and 5 risks) for this reporting period. The following chart breaks down the findings by type/category/priority.







### Summary of IV&V Open Risks/Issues Criticality

Category	Туре	#	Finding Title	Criticality
Cost &	Risk	3	Adoption of an aggressive schedule could lead to poor system quality, user frustration, stretch DOE resources beyond their capacity, and bad press.	1 High
Schedule Management	Issue	4	Delayed finalization of the Project Management Plan (PMP) and schedule could lead to stakeholder confusion and less than informed planning and ultimately lead to reduced productivity and project delays.	Medium
Human	Issue	2	Over reliance on a few skilled and overtaxed DOE project resources could lead to significant project disruption.	Medium
Resource Management	lssue	5	SI staffing challenges could reduce project productivity and system design quality, and lead to schedule delays.	Medium
	Risk	6	COVID-19 State-wide shutdown could hinder project activities and negatively impact the project schedule and budget.	Medium
Project Organization &	Risk	8	Inefficient project management practices could lead to overall lack of productive project activities and ultimately schedule delays.	Medium
Management	Risk	11	Insufficient knowledge transfer (KT) and M&O planning prior to go-live could lead to project delays and diminished quality of post go-live support.	Medium
	Risk	14	Training material development may be extensive and could lead to project delays or reduce the effectiveness of training	Medium
Quality	Issue	10	Inadequate release management processes could lead to significant rework and schedule delays.	High
Management	Risk	12	Insufficient testing strategy and planning could lead to poor test quality, including incomplete and invalid test results.	Medium
	Risk	7	Oracle Financials environment constraints could lead to schedule delays and leave the project unable to meet development, testing, and training objectives.	Medium
System Architecture &	lssue	9	User provisioning and security model complexities could lead to unmet user expectations, unfulfilled business objectives, and schedule delays.	Medium
Design	lssue	13	Integration with older (antiquated technology) systems could be unexpectedly complicated and lead to schedule delays.	Medium



Cost & Schedule Management

#### # Key Findings

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Risk - Adoption of an aggressive schedule could lead to poor system quality, user frustration, stretch DOE resources beyond their capacity, and bad press: In October of 2018, the aging DOE FMS failed, was offline for several weeks, and led to significant disruption of critical operations. As a result, the DOE quickly procured and launched this project with the goal of replacing their FMS as quickly as possible to avoid a similar event. The project is currently executing an aggressive, accelerated timeline with a January 2021 go-live date. This accelerated schedule incurs risks that the DOE has deemed acceptable given the potential larger risks associated with another legacy FMS failure. In order to speed implementation, the project has elected to implement a cloud-based Oracle Software-as-a-Service platform based on a pre-configured template, leverage Agile SDLC methods, limit the amount of new or improved functionality, and scaled back some project documentation and early analysis. The accelerated schedule could lead to:

- · Lack of thorough consideration of required business process changes resulting from the new system
  - User confusion and frustration due to the added burden of learning a new system with new processes, unmet expectations for improvements, and significant disruption to their daily duties

High

Criticality

Rating

- · Over allocation of project resources and users
- · Significant OCM and Training efforts with limited time to plan and execute
- · Project decisions to cut corners to meet milestones and DOE expectation
- · Unproductive working sessions due to insufficient analysis efforts
- · Limited time to react to or resolve issues that may arise
- Poor system design
- A flurry of chaotic stakeholder activity as the project progresses closer to go-live.

If this risk is realized, negative user feedback could lead to inflammatory media coverage which could negatively impact legislative, board of education, and public support. The project has stated they will only go live if the system sufficiently supports DOE operations and users are able to do their jobs.



### Cost & Schedule Management (cont'd)

#	Key Findings	Criticality Rating
4	Issue - Delayed finalization of the Project Management Plan (PMP) and schedule could lead to stakeholder confusion and less than informed planning and ultimately lead to reduced productivity and project delays.: The project is currently operating under a draft Project Management Plan (PMP) and project schedule. The PMP was due 3/12/20 but, as of this reporting period, both have not been finalized. DOE project leadership has indicated that existing drafts appear to lack sufficient details. The projects accelerated schedule leaves little room for any impact to project productivity. Lack of a finalized PMP could lead to uncertainty around project cadence and productivity. Delays in establishing a clear, detailed baselined schedule could lead to project delays and leave the project unable to effectively monitor project progress. Further, the lack of a clear critical path could leave the project with little time to respond to critical path activities that may have already impacted the project go-live date.	Medium



H Cost & Schedule Management (cont'd)

Recommendations	Progress
<ul> <li>Take steps to assure sufficient OCM planning, and activities are performed to prepare users for the significant change taking place at an accelerated rate.</li> </ul>	In progress
<ul> <li>Project leadership closely monitor project productivity and meet regularly to perform continuous process improvement (continuously reach out for feedback and move quickly to improve unproductive project elements and processes).</li> </ul>	In progress
<ul> <li>Leadership take steps to closely monitor project team capacity and assure resources are not overallocated.</li> </ul>	In progress
<ul> <li>Request that the SI address issues with their project team that place an unnecessary burden on overtaxed DOE SMEs.</li> </ul>	In progress
<ul> <li>Project make early efforts to plan for and prepare contingency plans in the event it becomes clear the accelerated schedule is unsustainable or critical project objectives will not be met by the planned go-live date.</li> </ul>	In progress
<ul> <li>Request the SI proactively augment their team with additional experienced resources as needed to assure project milestone deadlines are met.</li> </ul>	In progress
<ul> <li>&lt;<new>&gt; DOE make extensive efforts to manage user expectations with regard to system limitations and work arounds.</new></li> </ul>	In progress
<ul> <li>&lt;<new>&gt; DOE executive leadership clearly communicate to project stakeholders (including testers) how they should prioritize project activities appropriately so that the project can meet their go-live date.</new></li> </ul>	In progress

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### Human Resource Management

#### # Key Findings

Issue - Over reliance on a few skilled and overtaxed DOE project resources could lead to significant project disruption: There are currently 3-4 DOE team members who are relied on to a greater extent than others. Each of these individuals have significant standing critical operational responsibilities and most have managerial responsibilities as well. While each of these team members have indicated a strong commitment to project success, each has multiple competing priorities, and most will be constrained with operational tasks between now and go-live. slt remains unclear if DOE staffing levels committed to in the original Statement of Work (SOW) have been met.

Over reliance on key resources can not only overtax and thereby reduce the effectiveness of these key individuals, but also presents a risk of significant project disruption in the event of their departure. While most projects have this risk, the risk impact for this project, from IV&V's perspective, is higher than most, and while

the project could be impacted by the loss of any DOE team members, there are 3-4 individuals who are relied on to a greater extent than others. Loss of these individuals could lead to significant project disruption. Failure to transfer standing daily operational and managerial responsibilities from these individuals to other DOE resources could stretch them beyond their capacity and lead to a lack of job satisfaction, decreased productivity, decrease in quality, and increases the probably they could make critical mistakes that could negatively impact the project. Several of these key resources have indicated they have significant operational responsibilities and projects between now and go-live (e.g., year-end close, audit, the Time & Leave project, preparations for the new school year, etc.) and may simply lack the capacity to meet all current expectations. Further, if the SI is not able to resolve some staffing challenges (see *Risk #5*), the project may increase their reliance on these individuals and may have to work harder to ensure system designs are accurate, project milestones are met, and overall project activities remain productive.

Medium



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### Human Resource Management (cont'd)

### # Key Findings

Issue - SI staffing challenges could reduce project productivity and system design quality, and lead to schedule delays: Since soon after project launch, the DOE project leadership has raised several concerns with regards to the SI project team. DOE stakeholders have reported that working session productivity has, at times, been hindered by the apparent lack of sufficient knowledge, capabilities, and expertise of some SI team members. While some appear to have some strong capabilities and financial system knowledge, others appear to lack the capability to drive productive discussions, quickly solution implementation issues, and accelerate the Software Development Lifecyle (SDLC). The SI has recently responded to DOE leadership concerns that the SI PM lacked sufficient capabilities, experience, and the temperament to perform effectively as the project PM. The SI has responded to these concerns and the engagement manager has temporarily taken over PM responsibilities and augmented their team with a project coordinator resource. DOE leadership has raised concerns with other SI leads as well and the SI appears to be making efforts to augment their staffing model to address each concern.

Due to the accelerated project schedule, the project can ill afford to tolerate a lack of productivity given go-live is in 6 months. One of the primary factors of project success is establishing a skilled, experienced, productive, highly available and high-functioning team. If the SI is not able to quickly implement a staffing model that can establish this kind of team, the project schedule could be at risk. Further, the lack of sufficiently capable SI resources could weigh heavily on already constrained DOE SMEs as they attempt to compensate and extend additional efforts to ensure project milestones are met. The addition of highly capable and experienced SI resources could reduce the burden on DOE SMEs. This risk is likely to be exacerbated by the significant time zone difference between the project team (HST and PST) and the SI technical team who reside in India.

The SI teams' apparent lack of deep, expert-level Oracle Financials (OF) cloud expertise could continue to reduce the productivity of work sessions and/or lead to poor design decisions that could require significant rework once a better design or solution is discovered.



Criticality

Rating

Medium

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### Human Resource Management (cont'd)

Recommendations	Progress
• Executive leadership regularly monitor the workload and job satisfaction of key individuals as well as assist with workload management, clarification of priorities, and establishment of a sustainable pace.	In progress
• Temporarily re-allocate operational/managerial responsibilities from key resources until project completion.	In progress
<ul> <li>Consider temporary staff augmentation options (e.g., temps or 89-day hires) to both augment the existing project team and augment the operations staff to offload operational responsibilities from key resources.</li> </ul>	In progress
<ul> <li>Prepare contingency plans in the event that the DOE project team can no longer sustain project and operational activities at the expected pace.</li> </ul>	In progress
<ul> <li>Work closely with the SI in their staffing efforts and quickly, but thoroughly, vet additions to the SI project team.</li> </ul>	In progress
<ul> <li>Request the SI explore augmenting their team with highly capable, expert-level resources that can provide technical leadership that could potentially accelerate the project and reduce the burden on constrained DOE SMEs.</li> </ul>	In progress
<ul> <li>Request the SI make efforts to ensure solutions they have provided, and key decision documents are properly vetted by industry experts to ensure the best options are being presented to DOE SMEs.</li> </ul>	Not started



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### **Project Management & Organization**

#### # Key Findings

Risk - COVID-19 State-wide shutdown could hinder project activities and negatively impact the project schedule and budget: On 3/23/2020, the Governor issued a "stay at home, work from home order" that appears to have reduced the ability of the DOE to be fully functional, as the large majority of their workers have been required to work from home/remotely. Though the governor has allowed state workers to return to the workplace, many continue to work remotely. The state legislature is currently contemplating implementing 1-2 day/week furloughs as well as salary cuts for state workers to make up for budget shortfalls due to COVID-19. While the extent to which remote work requirements will impact the project are not fully known, it will likely complicate planning and execution of training, testing, and OCM. Many users have a strong preference for inperson training, however, due to social distancing policies, existing classroom capacity has been significantly reduced. Limited in-person training could lead to unmet user expectations and frustration as well as reduce the effectiveness of training. In the event in-person training is limited, project training planning and preparation will likely increase. If furloughs are mandated, the project may not be able to meet project milestone deadlines which could also negatively impact the project budget. IV&V will continue to monitor for other COVID-19 related impacts. Given that the project currently relies heavily on 3-4 key resources (see Finding #2), if any one of these individuals contract COVID-19, the project could be negatively impacted by their lack of availability. The project is currently faced with productivity and communication challenges because, due to COVID, the SI off-shore senior technical resources reside in India. Time zone (India team) challenges appear to have limited communications with the project team, and SMEs have often had to wait until the following day to get answers to some questions. Further, SMEs have indicated that the lack of in-person project work sessions has likely hindered their productivity.

Criticality

Rating

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### Project Management & Organization (cont'd)

#### Criticality # **Key Findings** Rating Risk - Inefficient project management practices could lead to overall lack of productive project activities and ultimately schedule delays: This project is scoped to be staffed by both a DOE PM and an SI PM with the SI PM managing the bulk of SDLC activities with the DOE PM assisting in managing DOE assigned project activities. The DOE struggled to adequately staff the DOE PM position during the initial months of the project, until they were able to acquire a capable consultant to fill the role, April 2020. The project reported some early insufficient and inefficient project management processes, including: · Insufficient action item tracking and follow-up Insufficient attention to risk management Inefficient meetings · Lack of clear meeting objectives and late delivery of meeting agenda's · Lack of preparation and planning for meetings and work sessions Insufficient guidance on attendee management and vetting of attendees 8 Medium Previous SI project manager (PM) had not met project expectations for project leadership, strategic direction, communication, and organization. The SI has recently responded to DOE leadership concerns by removing the SI PM and adding a project coordinator to their team, and the SI engagement manager has taken over as the PM and is now making some progress in addressing the above concerns. Lack of good project management processes can lead to an overall lack of project productivity, and ultimately lead to schedule delays and stakeholder frustration and reduced user buy-in. The SI appears to be making good progress in addressing DOE project management concerns. However, the impacts of operating the project under poor project management processes for the initial 5 months of the project remain unclear. Further, the current SI PM could be quickly overwhelmed as they attempt to fulfill both the PM and engagement manager roles, in addition to other responsibilities in their role as Vice President of Operations and senior CherryRoad executive (principle/partner). The recently added SI project coordinator appears to have had a positive impact on PM processes.



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Project Management & Organization (cont'd)

#### # Key Findings

**Risk** - **Insufficient knowledge transfer and M&O planning prior to go-live could lead to project delays and diminished quality of post go-live support**.: There appears to be a lack of clarity around post go-live support responsibilities and the level of SI support. Apparently, some contractual post go-live support requirements have yet to be clarified and agreed to between the SI and DOE. Further, DOE expectations for the SI to train their IT staff have not been met. The DOE IT group currently has some interface development project responsibilities and DOE's expectation was that the SI would provide sufficient knowledge transfer (KT) on Oracle Financials (OF) and Oracle Integration Cloud (OIC) in order to perform these tasks in a timely manner as well as meet expectations for DOE post go-live support responsibilities. DOE has stated their expectation that DOE IT staff would work alongside the SI technical team for KT throughout project implementation, however, the level of KT has not met DOE expectations thus far.

If the DOE IT staff are not sufficiently trained to effectively implement their project tasks this could lead to a reduction of efficient execution and quality of the technical components they have been assigned and, ultimately, to schedule slippage. Lack of clarity or sufficient planning around post go-live support could lead to diminished quality of post go-live support. Failure to adequately augment the existing DOE IT group with OF skillsets could leave DOE unable to adequately support the new OF system post go-live and lead to an over-reliance on costly vendor resources and impact the project budget.

Medium

Criticality

Rating



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### Project Management & Organization (cont'd)

#### Key Findings Risk - Training material development may be extensive and could lead to project delays or reduce the effectiveness of training.: DOE leadership, including the Superintendent, has indicated that the quality, effectiveness, and comprehensiveness of training is a top priority. Early indications are that both the number and degree of changes may be significant. The project is currently tracking, via the projects Change Impact Analysis (CIA) spreadsheet, impactful changes to users and daily operations with the implementation of the new system. Training material will need to effectively address these changes and prepare users for work arounds, process changes, and new system concepts. The SI has indicated that much of the system has maintained out of the box Oracle Financials functionality which should accelerate training material development. However, integrating CIA items into the training material could require a significant level of effort for both the SI and DOE. Because of the high priority given to the effectiveness of training, DOE review cycles may be unexpectedly extended in order to ensure quality. Given tight timelines and an aggressive go-live date, the project may elect to accept training material that does not fully meet their

expectations, or they may elect to extend the schedule in order to resolve training material issues. The SI is in the process assessing whether increased resources or additional time needs to be allotted to this effort to ensure timely delivery of training materials.



Criticality

Rating

Medium

Project Management & Organization (cont'd)

Recommendations	Progress
<ul> <li>Begin early contingency planning to address further impacts of COVID-19, such as potential furloughs as well as fully remote UAT and Training.</li> </ul>	In progress
<ul> <li>Perform an assessment of DOE remote capabilities prior to UAT and Training to determine stakeholder's ability and effectiveness in relying on remote access for project participation.</li> </ul>	In progress
• Continue to monitor project stakeholders and system users are sufficiently competent with remote meeting technology including ensuring they are highly functional with remote access technology (e.g. WebEx), as UAT and Training will likely require some level of (if not full) remote participation.	In progress
<ul> <li>Send broad communications to assure stakeholders the project has a clear understanding of COVID-19 impacts to the project and provide regular updates, as appropriate, as new plans and tactics develop.</li> </ul>	In progress
• Detail relevant OCM strategies and plans for addressing the impacts of COVID-19 in the project OCM Plan.	In progress
Request the SI make efforts to address time zone challenges with the off-shore technical team.	In progress
• Initiate efforts to request exemptions from hiring freeze constraints and furlough exemptions for the DOE project team.	In progress
<ul> <li>Monitor and provide regular feedback on PM processes and implement continuous process improvement processes to assure consistent and effective project management.</li> </ul>	In progress
<ul> <li>Document and execute detailed risk mitigation steps for tasks that appear to be slipping that include offering additional resources to support project team members who are falling behind on critical path tasks.</li> </ul>	In progress



### Quality Management

Μ

#	Key Findings	Criticality Rating
10	<ul> <li>Issue – Inadequate release management processes could lead to significant rework and schedule delays: Due to existing Oracle Financials cloud limitations, upload of data is often difficult to back out. Errors made during data uploads can either require manual data entry corrections or an environment refresh that will likely take 3 weeks. During initial uploads to the development environment, the wrong version of a file use mistakenly uploaded which created some disruption of development activities. Due to limitations of the OF cloud limitations, back out of bad data or configurations is not always automated and therefore can require manual correction of data. Alternatively, if the data corruption is significant, the project may elect to refresh the environment to a previous state, however, an OF refresh will likely take 3 weeks, which may not be feasible given the tight deadlines.</li> <li>If comprehensive quality controls are not implemented as an integral part of release management processes, mistakes that are made by both DOE and the SI can be difficult to back out. Lack of clear upload file versioning and other controls could lead to wrong files being uploaded which could lead to disruption of development efforts and, if not caught, could lead to disruption of testing phases and ultimately, schedule slippage.</li> <li>If release management procedures are unclear or if the execution of release procedures lack sufficient rigor, the likelihood of missteps may increase. Missteps during testing or go-live could lead to user confusion, reduced user buy-in, costly schedule delays, reduced executive stakeholder project support, and a negative public perception that could be picked up by the local media (aka "bad press").</li> </ul>	High



### Quality Management (cont'd)

#### Criticality **Key Findings** Rating Risk – Insufficient testing strategy and planning could lead to poor test quality, including incomplete and invalid test results: IV&V has observed some unproductive test preparation work sessions and some confusion among the project team members as some elements of the test strategy and plan are unclear or not well defined. At times, it appears the SI is asking DOE test leads to perform activities they lack expertise to perform. DOE test leads have also stated that SI led testing preparation efforts have not always been productive and have not met their expectations that the SI would provide sufficient testing preparation guidance. The SI appears to have responded by replacing the SI Test Lead, and the SI PM has taken over as the SI 12 Medium Test Lead, despite concerns that the SI PM may be overallocated. It is unclear whether the SI PM has capacity to effectively lead the testing effort and provide DOE test leads with sufficient guidance for them to adequately prepare for testing. The SI reports that they are making efforts to find a permanent replacement. Additionally, IV&V has concerns with the proposed testing strategy. The SI has stated they intend to begin System Integration Testing (SIT) without some system components being fully operational which could, A) result in incomplete testing and, B) invalidate test results for functionality that has been previously tested.



### Quality Management (cont'd)

Recommendations	Progress
<ul> <li>Implement comprehensive and rigorous release management processes and quality controls (checks and double-checks).</li> </ul>	In progress
Clarify and fully vet the testing strategy and plans for DOE leads and stakeholders.	In progress
Request the SI address their team's failure to effectively follow release management processes.	In progress



### System Architecture & Design

### # Key Findings

7

7	Risk – Oracle Financials environment constraints could lead to schedule delays and leave the project unable to meet development, testing, and training objectives: The project has planned for a total of 4 environments, currently slated for development, testing, training, and production. Oracle Financials cloud service level agreements for environment refresh is reportedly 3 weeks. The SI has indicated they are working on a strategy for accomplishing project objectives with the limited environments and the DOE is reportedly making efforts to increase the number of environments. Typically, projects of this size, complexity, and pace rely on quick environment refreshes in order to effectively meet development, testing, and training objectives. Most will plan for an abundance of environments in order to avoid the need to repurpose environments, avoid project delays, and provide flexibility to "freeze" environments to improve testing and training quality. If the project is unable to quickly refresh environments and is has only a limited number of environments.	Medium



Criticality

Rating

M

9

### System Architecture & Design (cont'd)

#### # Key Findings

Issue – User provisioning and security model complexities could lead to unmet user expectations, unfulfilled business objectives, and schedule delays: Initial security discussions have revealed some complexities and challenges with implementing a security model that fully meets DOE business objectives including segregation of duties, principle of least privilege. The project has elected to implement a single Business Unit (BU) for all of DOE, which could create system implementation challenges given Oracle Financials security is optimally implemented for multiple BU's. The SI is making efforts to ensure DOE business objectives are met and can be implemented so as not to put an undue burden on user provisioning staff. Implementation of a security model that does not meet user expectations and fully support end user provisioning and segregation of duties controls can lead to user frustration that:

- · Security is too restrictive and hinders their ability to be productive and do their job
- Security is overly permissive and privileged information is visible to other groups that do not have a business need for the data
- · User provisioning maintenance is overly complex and/or labor intensive
- The security model has made testing overly complex due to tester user provisioning challenges

The security model is currently being developed by a single SI resource. Failure to fully vet the proposed security model with multiple Oracle Financials cloud security experts and fully address DOE business objectives, could lead to project disruption in the event that a significant change to the model is needed as go-live approaches and as a result of mounting user complaints.



Criticality

Rating

Medium

М

### System Architecture & Design (cont'd)

#### # Key Findings

Issue – Integration with older (antiquated technology) systems could be unexpectedly complicated and lead to schedule delays: The project currently has requirements to integrate with older systems that often lack sufficient documentation and/or system expertise. A number of systems that the new FMS must interface with are based on older technology that may be incompatible with new technology and can be difficult to integrate with. Many systems have accumulated a significant amount (decades in some instances) of technical debt, reportedly due to lack of funding and technical team capacity. For example, it has been reported that patching for many systems are severely out of date and may run on Operating Systems or other software technology/tools that are no longer supported by the vendor. Many of these systems no longer have system experts because support staff have moved on or retired, and documentation and/or knowledge transfer upon their departure may not have been sufficient. Documentation for many older systems is reportedly missing or incomplete.

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Unexpected complications that arise in attempts to integrate with antiquated systems can lead to project delays or unexpected costs for tools to compensate for limitations of antiquated systems. Interface development efforts can also be delayed when expected system documentation, expertise, or vendor support is no longer available. Given the amount of technical debt these systems have accumulated over the years and the lack of system patching, the system could open the FMS replacement system, other connected systems, and the DOE to undue system failure risks. If any of these antiquated DOE systems fail during project execution, project resources (who are already at capacity) will likely have to be reallocated towards repair and recovery of these systems and lead to schedule delays.

Criticality

Rating

Medium

### System Architecture & Design (cont'd)

Recommendations	Progress
<ul> <li>DOE leadership reevaluate the Oracle representative's role on the project and request they provide better support for DOE technical leads for both pre and post go-live support.</li> </ul>	Not started
Make early OCM efforts to manage expectations based on platform limitations.	In progress
• Establish clear controls with regard to fraud, segregation of duties, and least privilege permissions.	In progress
<ul> <li>Request the SI develop an environment management plan with sufficient details to describe how the project will mitigate risks related to OF environment limitations.</li> </ul>	In progress
Consider prioritizing patching and system upgrades to stabilize boundary systems.	In progress
• Strategically plan to procure or provision additional environments as necessary to assure accelerated development cycles as well as provision standby environments that will speed development in the event a critical environment has become corrupt (e.g., mistakes are made to irreversible fields).	In progress
<ul> <li>Consider implementing early, basic proof of concept interfacing with older systems to assure integration is feasible and to vet optimal interface solutions. Perform early discovery and due diligence to identify potential complications with integrating with older systems.</li> </ul>	In progress



### **IV&V Status**

- IV&V activities performed during the reporting period:
  - Attended Project Management meetings
  - Attended Weekly Managers & Leads meetings
  - Attended various Working Group sessions
  - Review relevant project documentation
  - Led IV&V Risk Review sessions with project leadership and the SI
  - Interviewed DOE and SI project team members
  - Produced IV&V Monthly Status Report
- IV&V next steps in the coming reporting period:
  - Attend key project meetings
  - Interview additional key project stakeholders
  - Deliver next IV&V Monthly Status Report

# **Appendix A – IV&V Criticality Ratings**

This appendix provides the details of each finding and recommendation identified by IV&V. Project stakeholders are encouraged to review the findings and recommendations log details as needed.

See definitions of Criticality Ratings below:

Criticality Rating	Definition
Н	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



## **Appendix B – IV&V Standard Inputs**

### To keep abreast of status throughout the project, IV&V regularly:

- Attends the project meetings
- Reviews the project documentation
- Utilizes Eclipse IV&V® Base Standards and Checklists

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PCG Eclipse IVV Checklists



## Appendix C – IV&V Details

- What is Independent Verification and Validation (IV&V)?
  - Oversight by an independent third party that assesses the project against industry standards to provide an unbiased view to stakeholders
  - The goal of IV&V is to help the State get the solution they want based on requirements and have it built according to best practices
  - IV&V helps improve design visibility and traceability and identifies (potential) problems early
  - IV&V objectively identifies risks and communicates to project leadership for risk management

### PCG IV&V Methodology

- Consists of a 4-part process made up of the following areas:
  - 1. **Discovery** Discovery consists of reviewing documentation, work products and deliverables, interviewing project team members, and determining applicable standards, best practices and tools
  - 2. Research and Analysis Research and analysis is conducted in order to form an objective opinion.
  - **3.** Clarification Clarification from project team members is sought to ensure agreement and concurrence of facts between the State, the Vendor, and PCG.
  - 4. Delivery of Findings Findings, observations, and risk assessments are documented in this monthly report and the accompanying Findings and Recommendations log. These documents are then shared with project leadership on both the State and Vendor side for them to consider and take appropriate action on.

Note: This report is a point-in-time document with findings accurate as of the last day in the reporting period.





**Solutions that Matter** 

Id Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date
overreliance	Over reliance on a few skilled and overtaxed DOE project resource has lead to significant project disruption.	There are currently 3-4 DOE team members who are relied on to a greater extent than others. Each of these individuals have significant standing critical operational responsibilities and most have managerial responsibilities and well. While each of these team members have indicated a storng commitment to profites, and most will be constrained with operational tasks between now and ga-live. It remains unclear if DOE stating levels committee to in the original Statement of Work (SOW) have been met (see SOW, page 3).	Over reliance on kay resources can not only overtaa and therebry reduce the effectiveness of these key individuals, but also presents a risk of significant project disruption in the even of their departure. While most projects have this risk, the risk impact for this project, from IV&V's perspective, is higher than most, and while the project could be impacted by the loss of any DOE team members, there are 3.4 individuals who are relied to not a greater eater than others. Loss of these individuals could lead to significant project disruption. Failure to tranfer standing daily operational and manageral responsibilities from these individuals to other domessource could stretch them downloads to other could make critical missikes that could negatively impact the project. Several of these key resources have indicated they have significant operations responsibilities and projects between now and gol-lve (e.g. yare-and coloe, aucture, project mile reliances (the reliader of the eater reliader of the set key reliader it is not able to resolve some staffing challenges (see related risk), the project my increase and the reliances and they individuals and may have to work harder to ensure system designs are accurate, project milestones are net, and overall project activities remain productive.	<ul> <li>Executive leadership regularly monitor the workload and job satisfaction of these key individuals are will assist with workload management, clarification of priorities, and establishment of a sustainable pace.</li> <li>Temporarily resultates are personable and the satisfaction of these project completion.</li> <li>Consider temporary staff augmentation options to both augment the existing project team and augment the operations staff to offload operational responsibilities from key reasources.</li> <li>Propare contingency plans in the event that the DOE project team can no longer statistan project and operational activities at the expected pace.</li> <li>Propare a resource management plan that addresses current and projected project mounts and clearly devides at the expectations needs. Recommend therefore the statistical devides althous resource needs. Recommend therefore to determine if expectations on their time are realistic.</li> <li>Request that the Saddress is subs with the project team that place an unnecessary burden on overtaxed DOE SMEs.</li> </ul>	DMLF3/21. Key DOE project participants continue to operate at or keyond their capacity. The DOE PML Gastrare subcontractor) recently anomounded they will be leaving the project and the position will be backfilled by another Gastrare resource. Turnover to the new PM is underway but It remains unclear if the new source will be able to provide the same level of support and risk mitigation provided by the outgoing PM given that this will be their first exposure to the project 3 months prior tog erive. The build not be support to the provide the same to the support to help cost that the project has taken a toil on them, some have grown weary from the long hours, fluxtation will the productive/to-lainers the project on the build on for same guality with technology they don't fully understand. IV&V recommends DOC request the 31 provide additional PM support to help compensate for the potential dop in DOC Haupsont. The project 3 months and of activity fluxts the same to be completed pre and post go-live. As his tag grows, it remains in an being estimated and DOC SMF concorres capacity in to being tracked. Training material integra in the bing distributive and bing the project the same concertains and the same post go-live. The DOE IT team project participants understanding of system configurations and project processes continues to grow and they lave increased their participantion in the management of project takes, filling gaps where needed. However, the DOE project team continues to be stretched at or they ond their capacity under any excision to the DOC project team continues to DOC growters the controls will be approaches the overlap of local trans to device growter, and training and documenting changes to DOE project project deliverability and fill a much-needed gap in defining and documenting changes to DOE project team of local trans as again dening and documenting changes to DOE project team of local trans to delive project attractive, and training and documenting changes to DOE project team	Human Resource Management	Issue	Medium	Open			6/30/2020
3 Accelerated Schedule	Adoption of an aggressive schedule could lead to poor system quality, user trustration, stretch DOC resources beyond their capacity, and bad press.	In October of 2018, the aging DDE FMS failed, was offline for several weeks, and led to significant divuption of relicito operations. As a result, the DDE quickly procured and launched this project with the executing an agreesive, accelerated timeline with a lanuary 2021 go-live dite. This societies to sociable to avoid a similar event. The project is currently executing an agreesive, accelerated timeline with a lanuary 2021 go-live dite. This accelerated schedule the potential larger risk associated with another largery MS fause. The other based emission accelerated the potential larger risk associated with another backly Software ar-s Sorvice platform based on a pre- confluent demptice. Howering Alle SOC methods, limit the amount of new or improved functionality, and scaled back are project documentation. The S1 has stated that they had scaled back early analysis efforts in order to meed be ducket that initial analysis would not be meed be ducket users will be required to change their existing processes and adopt system implementation and that DOC users will be solds to change their existing processes and adopt processes supported by the platform thangles. Some SMS1 have regorted any work sesion have been suproductive due to the lack of sufficient early analysis end forts.	The accelerated schedule could lead to: *Back of thorough consideration of required business process changes resulting from the new system *Bere contusion and frustration due to the added burden of learning a new system with new processes, unnet are catations for improvements, and significant dirungtion to their alia/ additional to the added burden of #Bere aliacciano of project resources and users *Bere aliacciano of project resources and significant COA and Training efforts with limited time to plan and areacuite *Bere aliacciano and Training efforts with limited time to plan and areacuite *Boylest desistions to cut comers to meet milestones and Code additions to cut comers to meet milestones and Code statutions and the system of the system of the system *Binnet of the code stakeholder activity as the project progresses closer to ga-live. This risk code accentuale by other IV&V identified risks which could lead to a need to detaction, panyls benefits. This risk code be exacerbated by other IV&V identified risks which could be accentated by other IV&V identified risks which could be accented to of deduction, and public support. Some SMIS have reported early work sessions have been unproductive due to the luck of sufficient early analysis efforts. This risk could be exacerbated by other IV&V identified risk which could late to a need to ested the project some SMIS have reported early work sessions have been some SMIS have reported early work sessions have been and users are able to the the luck of utilicent early analysis efforts. This risk could be accented be able to hearly be the report schedule. SUIS the project has taket they will not partifies and the order project. Some SMIS have to not the project boccenter be able to the project. Some SMIS have the o	trained on the new reporting tools and offer long-term (post go-live) report writing support to system stakeholders. Project implement a minimum viable product strategy and make extensive efforts to determine which system features (interfaces, reports, etc.) that can be implemented tale game or post go-live to allow the project team to focus on completing critical features and meet the planned go-live date. DOC make extensive efforts to manage user expectations with regard to system limitations and work arounds. DOC executive deadership clearly communicate to project stakeholders (including	B4/15/2021 - Some stakeholders have indicated they have concerns that the system will not have some desired functionality algoive, due to the aggressive schedule. As goive draws new, IV&V remains concerned that some functionality hay et to be high vetted, inglemented, and unit tested (e.g. punchase notes approxible, IV&V soluce mains concerned that testing accipit may have test legging that the some functionality hay et to be high vetted, inglemented, and unit tested concernsive bags at goive, tills became and the soluce test point of the soluce of the soluce test point of the soluce of the soluce test point of the soluce test and the soluce test point of the soluce of the soluce test point of the soluce test and the soluce test point of the soluce test and test point of the soluce test and the soluce test point of the soluce test and the soluce test point of the soluce test and the soluce test point of the soluce test test point test and the aggressive schedule and are now tracking these postpored test prove and user expectation may not be met if postpond features are not implement prior toge-live. These concerns as well as the concern test that the lot opostpond test positive to sacrifice quality over expedience has led V&V to escalate this risk to "tigh". 03/15/21. The project continues to operate at an accelerated pace as a result of the accelerated schedule as well as the concern test that the project test positive test belows to the UAT process and may introduce some functionality posi- ture. The operative and comersion tasks. The project is point that the could be toget positive test that could be toget positive and the soluce test and countrises to sacrifice quality posi- tive. The soluce test and countributes to the soluce some functionality posi- tive. The soluce and be positive test and countribute and by positive. The soluce countributes to appende and countributes to the accelerated soluce and the soluce that could introduce some functionality posit. All, both and cound	Cost & Schedule Management	Risk	High	Open			6/30/2020
4 Delayed PMP 8 schedule	Colayed finalization of the Project Management Plan (PMP) and schedule could lead to stata-holder confusion stata-holder confusion and less than informed and less than informed autimately lead to reduced productivity and project delays.	The project is currently operating under a draft Project Management Plan (PMP) and project schedule. The MPD deliverable was due 3/12/20 buts, as of this reporting period, both have not been finalized. ODE rejocit leadensh bis indicated that existing drafts appear to lack sufficient details.	The project saccelerated schedule leaves little room for any impact to project productivity. Lack of a finalized PMP could lead to untertainly around project scope and uncertainty around how the project will be executed or managed, which can be due overall project calence and productivity. Boblevis and schedule begins not apopted table in the project calence and project calence and effectively monitor project progress. Further, the lack of a caler critical path call leave the project while the links of respond to critical path activities that may have already impacted the project go-live date.	testers) how they should prioritize project activities appropriately so that the project Request this Clarky define the project schedule critical path, monitor and clarky communicate critical path activities that are approaching slippage, and formulate is illigitation strategies to address critical path activities that are failing behind. • Request the SI take steps to increase engagement with key ODE SMEs to increase communication of priorities and clarify communications.	<sup>10</sup> 4/15/2021 - Though the project has accepted the risk of a less than comprehensive and fully resourced project paint, the 51 continues to make efforts to mitigate by building out a detailed cutover plan and providing project paint plans to the stake full that that lists. The project is currently tracking, in a consolidated list, pre-go-live task/activities that have been deprioritized (in order to focus on prointeed circuita tasks) are not longuiton or mised, there remains no way of innoving (i) prego live tasks can be completed boom plans or band to be completed to an after of focus on prointeed circuita tasks) are not longuiton or mised, there remains no way of innoving (i) prego live tasks can be completed boom plans or band to plans be been stake that arounds and with flew assurances as to when important system functionality will be available to them. 03/1/5/21 - IV&V remains concerned with the project acceptance of the risk associated with the lack of a comprehension and hully resource project plant. The Stak resource and hully resource project plant. The Stake visibility rino project tasks profites for DDE SME which should reduce task priority ambiguity and hep SME focus their efforts. 02/15/21 - Though DDE expectations for schedule management, level of detail, resourcing, and recording of actuals vs. baseline have gone unmet, the project appears to have accepted the risk of 1 has created task trackers outside of the project stake base to have accepted the risk of 1 have stake to be high of corres outpressings. In this correst to have accepted they waits do in KHz. The Site in crease angigement with hey ODE SME (e.g., phone calls or text message) to clarif, communication instad and fursition. 01/15/21 - WAV has previously reported that the Sha yet to fully resource the project plan to ensure task are appropriately staffed/resourced and to provide a timinium, resourcing details for the ingle ODE expected that the SD has yet to fully resource the project can meet milestone duest.	Cost & Schedule Management	P Issue	Medium	Open			6/30/2020

Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identifie Date
i Staffing Lhallenges	S staffing challenges have reduced project productivity and system design quality, and led to schedule delays.	Since soon after project laund, the DOE project leadership has reade several concerns with regards to the S project team. DOE stakeholders have reported that working resource productivity has, at times, been hindered by the apparent tak of sufficient knowledge, constraints and the state of sufficient knowledge, different source strong capabilities, and financial system knowledge, others appart to lack the capability of dire productive discussions, guickly administration knowledge, others apparts to lack the capability to dire productive discussions, guickly administration knowledge, others apparts to lack solution implementation knowledge, others apparts to administration to perform effectively as the project PM. The ST has responded to their concerns that project contrained resource. Dotted by apples over PM respondention resource. Dotted leadership has appear to be moving efforts to augment the staffing model to address each concern.	afford to tolerate a lack of productivity given go-live is in 6 months. One of the primary factors of project success is establishing a skilled, experienced, productive, highly available and high-functioning team. If the SI is not able to quickly implement a staffing model that can establish this	• Work closely with the S in their staffing efforts and guidky, but thoroughly, vet additions to the S project team. • Request the SI make efforts to address time zone challenges with the eff-shore technical team. • Request the SI explore augmenting their team with highly capable, expert-level resources that can provide technical leadership that could potentially accelerate the project and reduce the burden on constrained DOC SMss. • ODC consider subject augmenting their team of the SI to sufficiently address technical leadership concerns. • Request the SI make efforts to ensure solutions they have provided, and key decision documents are properly vetted by industry experts to ensure the best options are being presented to DOE SMFs.	DM1/3/2021 - As DDC SMC's become more familiar with and explore system configuration options, they have found solutions that even the Is may not have been aware of . RV42 words DDC SMC's have observed instances of the STs lack of expert-level knowledge of the system and their failure to communicate when mitakes are made, which has created consiston and furstancing for DDC SMC's have request the Influence of the STs lack of expert-level knowledge of the system and their failure to communicate when mitakes are made, which has created consiston and furstancing for DDC SMC's NEW recommends DDC request the ST Increase their level of transparency and communications at the project makes the final pub toward go when the has the bonce clear that the ST gold learn time takes difference continues to be a contributing factor to interface and conversion task delays. The ST has committed to molfying their global team hours to more clearly tait the ST project team achieved a key mitation of completing core functionality priors to the kickoff of LAT. However, interface and conversion activities continue to be less than productively, the ST project team achieved a key mitate of completing to effectively applied. Continue to Hit gaps in ST task management capabilities which has reduced their capacity to perform critical tasks. STefacts augument tacquest the observed several instances of unproductive work expectations, which could continue to place and additional buden on DOC SMC's to ensure the section and the strain task the strain and brack tasks secting corrective accessing and the scaling this risk to an issue since the ST has been out mEOC solutions and the scaling this risk to an issue since the ST has been confirmed to during meetings while DOC SMC's water their activities. While accomparison whice achieves the con- ductive tasks the strain and base the activities while we continue to DS SMS's have confirmed) be St lack of prograntical to augument tackace. DOC SMS is a the achieve there volu- during meetings while DOC SMK		Issue	Medium	Open			6/30/202
Sracle Platform	Oracle Finnetals environment construints has lead to schedule delays and left the project unable to meet some development, testing, and training objectives.		Typically, pojects of this size, complexity, and pase rely on pacits environment orderables in order to effectively mean development, testing, and training objectives. Most will pain for an abundance of environments in order to avoid the need to regurpose environments, movid project delays, and grovide fielditis to 'frecze' environments to improve testing and training quality. If the project is unable to quickly refers horizonments and is has only a limited number of environments.	<ul> <li>Develop an environment management plan with sufficient details to describe how the project will mitigate risk related to DE environment Intractions.</li> <li>Pina haval to procure or provision additional environments as necessary that will space development in the event a critical environment has become corrupt (e.g., mistakes are made to irreversible field).</li> <li>Strategically plan to procure or provision additional environment shat seconse to range source accelerated development environment has become corrupt (e.g., mistakes are made to irreversible field).</li> <li>Strategically plan to procure or provision additional environment has become corrupt (e.g., mistakes are made to irreversible field).</li> <li>ODE ladestribit prevaluate the Oracle representative's role on the project and request they provide better support for DOE technical leads for both pre and post go live support.</li> </ul>	due to Oracle Financials (OF) limitation. For example, due to Oracle's limited ability to secure attachments when utilizing a single business unit (BU), the project has elected to implement a work around by storing and securing all attachments in Google drive URL in	System Architecture & Design	Issue	Medium	Open			6/30/2021
M processes	Inefficient project management practices could lead to overall lack of productive project activities and utimately schedule delays.	and an SI PM with the SI PM managing the bulk of SDLC activities with the DOE PM assisting in managing DOE assigned project activities. The DOE struggled to	afford to tolerate a lack of productivity. Lack of good project management processes can lead to an overall lack of project productivity, and utilimately lead to schedule delays and stakeholder frustration and reduced buy-in. The SI appears to be making good progress in addressing DOE project management concerns. However, the impact to operating the project under proor project management process for the induits month of the project remain undear. The project could realize the reduced productivity delays. Further, the corrent SI PM could be quickly overwhetmed as they attempt to fulfill both the PM and engagement manager roles, in addition to other responsibilities in their role as Vice President of Doparations at enior Cherryland executive (principle/jarbent). The	Request the SI work quickly to acquire a dedicated and highly-capable project manager that has proven experience successfully diving an Oracle cloud-based K-12 project in an accelerated timeframe. Monitor and provide regular feedback on PM processes and implement continuous process improvement processes to assure consistent and effective project management. Integrater risk management practices into existing processes (e.g. Review important deadlines in weekly working assission). Occument and execute dealled risk mitigation steps for tasks that appear to be project assigned before a different accounces to support project team members who are falling behind on critical path tasks. Project Evadership reasesses meeting scheduling processes and reach agreement Hot DOC SMEs on more optimal meeting governance to druce the number and length of meetings so the project team can focus on and accelerate project tasks.	14/15/2021- ODE SME's continue to report (and VIXV has observed) instances of SI leads lack of persparation before meetings. IV AC continues to recommend DOE leadership request the SI make direct contact with key SME's prior to meetings to stop communications and reduce time spent in meetings to the your above meetings. IV AC world with a stop of the state of the stop of t	Project Organizatioa Management	Risk	Medium	Open			6/30/202

Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date
Jser provisioning and centry model complexities has led to immet user expectations, infulfilled business objectives, and cchedule delays	Initial security discussions have revealed some complexites and deallneegwe thin hippenenting a security model that fully meets DOE business objectives including segregation of dueley, principle of least privilege. The project has elected to implement aging Business built (BI) for all of DOE, which could create system implementation challenges given Oracle Francials security to gotmaly implemented for multiple BUS. The SI is making efforts to ensure DOE business bigctives are met and can be implemented so as not to put an undue burden on user provisioning staff.	Implementation of a security model that does not meet user expectations and fully support end user provisioning and segregation of duties controls can lead to user fixutation that: Escurity is too restrictive and hindres their ability to be productive and to their job Escurity is overly permissive and privileged information is visible to other groups that do not have a business need for the data Riber provisioning maintenance is overly complex due to tester user provisioning challenges The security model has made testing overly complex due to tester user provisioning dutilenges SI resource: Railure to fully vert the proposed security model with cher Oracle is currently being diveloped by a single SI resource: Railure to fully vert the proposed security model with cher Oracle scitonis as well as project discuption in when the oracle discutions as vertals project discuption in where the respections as vertals project discuption in event that a significant change to the model is needed as go live approaches.	<ul> <li>S make efforts to fully vet the proposed security model with multiple Oracle Financials cloud security strategy expects prior to inplementation.</li> <li>Make early OCM efforts to manage expectations based on potential limitations of the security model as ther yealte to busines objective.</li> <li>OCE establish clear controls with regard to segregation of duties and least privilege permissions.</li> </ul>	DO's and make changes when the system should have prevented them. N&V remains concerned that some aspect of security have not been implemented properly and/or fully tested and that some users have been over-provisioned in order to pass test scripts. Inaccurate security configurations could increase the risk of fraud and could lead to a chatcel croup of avoid fully users are reporting security configuration issues. INZV remains concerned that some security designs and issues have yet to be resolved this close to g-leve. For example, special users are reported fully vetted due to project capacity constraints. 03/1/s/21 - UAT testing results indicate that the buk of the limited number of defects are related to security configuration errors. It remains unclear why these defects where not footed and during unit testing and/or SIT. Failure to effectively test security configurations proto to UAT has placed an additional burden on DOL UAT testers and slowed UAT testing. Sel forsts to augment security resources to improve security concerns have not met DOE expectations. The SI has stated they now have a more regions change control process in place and th security configurations will continue to be refined throughout the rehearsal build phase of the project. It remains unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether proper change management controls are in place to that scripts configurations are also or SUAT is tested. SUB scripts concerns the stripts unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether existing UAT scripts because they are over provisioned. It also remains unclear whether existing UAT scripts the call that information can leave DDE IT wi	System Architecture & Design	Issue	Medium	Open			7/29/2020
				permissions in the UAT environment. 02/15/21 - The project continues to address Oracle security limitations that could limit DOE's ability to secure and hide sensitive information from their users. Though security tasks that had fallen behind schedule on suppart to be on track. DOE and VBX remain concerned with the quality of the security implementation insteps that occured during 57 and that they have taken steps to avoid security implementation misses that courced during 57 and that they have implemented							
nadequate release management rocesses have led to lightficant rework and chedule delays	Due to existing Oracle Financials cloud limitations, upload of data is often afficult to back out. Errors ande during data uploads can either enguine manual data entry corrections or an environment reflect hits data entry corrections of a line uploads to the desire initiation of the environment of a line use entratisently uploaded which create errors of a line disruption of development activities.	Due to limitations of the OF cloud limitations, back out of bad data or configurations is not always auromated and therefore can require manual correction of data. Atternatively, if the data compation is significant, it possible to the set of the set	<ul> <li>Implement comprehensive release management processes and quality controls (checks and double-checks) to ensure the right files are uploads with clean data.</li> <li>Institute rigroup checksists and cook freez communications pror to caustome demonstrations.</li> <li>Request the 3 address their teams failure to effectively follow release managemen processes.</li> </ul>	<sup>10</sup> Q1/23/221 - The SI continues to improve the production culover plan/checklist which should increase the quality of production contexper prior to go low. The project's decision to implement and fully configure a separate rehearsal environment. Thosewer, DOE SME's continues to note instances of SI leads bipassing agreed upon release management processes, making important changes to environments without notifying DDE SME's, which could negatively impact system quality. 3/3/5/31 - The SI has recently diafied a dataliad rehearsal build contour glan and is reviewing in with production build be norpiced in some time interplant to a start of the second system quality. 3/3/5/31 - The SI has recently diafied a dataliad rehearsal build contour glan and is reviewing in with production build be norpiced is someting limiting access to second SMEs continue to make additional efforts to ensure quality of SI configurations and have established a process that they appropriate DCE SMEs. To multiple the release management and configuration across in the new additional efforts to ensure quality of SI configurations and have established a process that provide the hubit properts is sometime to discond the provident base process that a success to manauly configure the system outside of the workbooks and DOE SMEs noted at least one instance where the SI may have made a change in the ULT environment thub could some moment and which could complicate and increase the level of effort to perform the final system cutover at later data: 202/2/31 - DOE SMEs found the discipacing of USMES found the badges control waves to enginese management processes. The example, DSMSEs before they were shored final for missteps in the final to follow the provided is provided provided to configure atter data: 202/2/31 - DOE SMEs found the missteps before they were and which could complicate and increase the level of effort to perform the final system cutover at later data: 202/2/31 - DOE SMEs found the missteps before they were	Quality Management	Issue	High	Open			7/31/2020
	There appears to be a lack of clarity around post go- like support responsibilities and the level of SI support. Apparently, some contractual post go-like support requirements have yet to be clarified and agreest to between the SI and DOC. Further, DOE supertains for the SI to rain their T staff have not been net. The DOE IT group currently has some infrarise development project responsibilities and sufficient knowledge transfer (r11 on Oracle Financials unificient knowledge transfer (r11 on Oracle Financials perform these tasks in a linely manner as well as meet supertains for DOE post go-lev support responsibilities. DOE has stated their expectations from OCD ET staff would on kal alongide the Stechnical team for r1 throughout project implementation, however, the level of r1 has not mot DOE IT staff would of the has the DOE IT staff would be dependent the section and busingleted to formally train the DOE IT staff would be priore to technology.	If the DOE IT staff are not sufficiently trained to effectively implement their project tasks this could lead to a reduction of efficient execution and quality of the technical components they have been assigned and, ultimately, to schedule slippage. Lack of clarity or sufficient planning anound pot go-live support could lead to diminished quality of post go-live support. Tailure to adequately and the support could lead to a decumely system post go-live and lead to an over-reliance on costly windor resources and impact the project budget.	In ensure they are able to meet expectations for project implementation and post are inservaport. Plan may include augmenting their if tatif with an additional resource to, at minimum, management Oracle quarterly update. = 0.00° explore explore lengibility exemptions to acquire experienced Oracle Financials (OF) resources to fill gaps on their if tatif as soon as possible to reduce dependence on vendors to support the system and to fill (urrent skillest gaps and capacity constraints with existing DOE IT resources. = Consider preparing return on investment (ROI) data to present to the legislature that could clearly justify the cost of highly compensated OF (possibly exempt) resources that could potentially provide cost savings to the state compared to the cost of equivalent vendor support contracts. = Clefty ST, transmir, and post ge-live support contactual obligations well ahead of go-live to avoid disagreements and last minute efforts to adequately support the system post ge-live.	SIT, testes typically are required to re-run their test cripts; excessive changes can increase testers workload. Tapposet the 3 continues to take of quality for expedience in order to accelerate DQL5/J2021 - Security Knowledge Transfer (KT) sessions appear to have improved once the 31 made ioner resource changes and made improvements to the KT materials. WKW and the ODE PMO remains concerned that the ODE may not be fully prepared to support the system post gal-twe and/or post warrait when the S1 is no larger available to assist. Early different the ODE PMO remains concerned that the ODE may not be fully prepared to support takes than y have difficulty troubleshooting and effectively resolution, support SLett is not taken y manner. NAXW will reasess and that Oncie security configurations may be complicated and DDE IT support staff may have difficulty troubleshooting and effectively resolution, manage Oracle quarteriny updates. To support the system and to at minimum, manage Oracle quarteriny updates. Details of a support the system and to at minimum, manage Oracle quartering updates. Details of with the additional transferred to the DDE PMO takes the essons have yes functional KT sessions as thor yapport table thouse, these essons have yes functional KT sessions and they appoint leads to focus on more urgent project tasks. NWW and the PMO have raised concerns that DDE may not be adequarely staffed to support the systeme the Si and DDE poits golve have yes to be finalized. The project has elected to delight inclunal KT sessions table yapport. Ukd WI at centures to support the systeme the Si and DDE poits golve have yet to be fundated. WWW and the PMO have raised concerns that DDE may not be adequarely staffed to support the systeme the Si and DDE poits and/or SPMO inclusion. UKW and the PMO have raised concerns that to DE may not be adequarely staffed to support the systeme the Si and DDE poits and/or SPMO inclusion the systeme science math that the new system points and/or SPMO inclusion t	Project Project Organization & Management	Risk	Medium	Open			8/17/2020
	ser provisioning and curity model manet user appectites has led to manet user appectations. hedule delays hedule delays sofficient towork and hedule delays sofficient towork and hedule delays	sufficient involvedge andergaate released biedde delays     Due to oxisting Oracle Friendals cloud limitations, involved and sufficient involvedge and the suffi	see provisioning and complement survey model see provisioning and objectives including segments of septomic survey has beetware appetition of account of the second mathematical set provisioning and the segment of the second mathematical set provisioning and the second mathematical set of the set provision and set provision and set on the path an undue burden on user provisioning and equate release and equate release and equate release and and equate release and equate releas	and equit in transfer and equit is the second intervent	<ul> <li>And a set of a se</li></ul>	<ul> <li>And a support of the su</li></ul>	<ul> <li>And a sub-base in the sub-base intervent and a sub-base in</li></ul>	<ul> <li>Market of an and a set of a set of</li></ul>	<ul> <li>Martin Martin Marti Martin Martin Martin Martin Martin Martin Martin Martin Mart</li></ul>		

Id Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority Status	Closure Reason	Closed Date	Identified Date
Testing	Insufficient testing strategy and planning could lead to poor test upality, including incomplete and invalid test results	NAV has observed some unproductive test proparation work sensions and some conditiona monog the project team members as some elements of the test strategy and pain are unchar or not well defined. At times, it appears the 3 is a sing DOE test leads to perform activities thave not always been productive and have not met their expectations that the 51 would make the single strategy and the single single single provides sufficient testing preparation efforts that not always been provides sufficient testing preparation again. The single single test, despite concerns that the 51 PM may be overallocated. It is unclean whether the 51 PM has capacity to the single some single of them to adequately prayma for testing. The 51 reports that they are making difforts to find a permanent replacement. Additionally, VI&V has stand over they are their significant concerns with the proposed testing strategy. The 51 has stated they intered to being SIT without some system components being there significant soft of a functionality that has been previously tested.	could lead to schedule delays. If the project, AJ does not clearly define STT or UAT entrance criteria and/or BJ enters STT or UAT phases withouts own system components being fully operational, the value of the project testing phases could be significantly reduced and lead to excessive bags, overcomplicated testing, a solution that cannot perform the required or necessary functionality, and utimately	<ul> <li>Clarity and fully wet the testing strategy and plans for DOE leads and stakeholdes.</li> <li>Develop and implement a robust regission test methodology.</li> <li>Develop and implement an efficient process for updating/refining test scripts based on tester.</li> <li>Request the SI make additional exploratory testing (aka., "poke around in the system and to see if you can brack it"). Suggest DOE test leads coordinate their own exploratory testing activities.</li> <li>DOE leadscribs and out communications that help DOE staff cleary understand the priority of project tasks over other duties as critical go-live milestones approach.</li> </ul>	update unclear scripts. The project has elected to extend UAT by another week due to interface/conversion implementation delays as well as delays related to tester capacity. As important project milestones draw near, IV&V recommends DDE leadership clearly communicate to project participants (including testers) how they should prioritize project activities appropriately so that the		Risk	Medium Open			9/15/2020
13 Antiquated systems	Integration with odder (instructurd utchnology) systems could be unexpectedly complicated and lead to schedule delays	The project currently has requirements to integrate with older systems to drins lack sufficient documentation and/or system expertise. A number of by systems that here wYSS mut interfaces with are based on older technology that may be incompatible with new technology and can be difficult to integrate with. Many systems have accumulated a significant sumul (decides in non-instance) of technical debt, reportedly due to lack of funding and technical tech patching for many systems sate severely out of date patching for many systems sate severely out of date technical states in the severely out of date system expects focus support staff have moved on or restred, and documentation and/or knowledge sufficient. Documentation and/or knowledge sufficient. Documentation for many older systems is reportedly missing or incomplete.	basepacted complications that arise in alternats to inegrate with antiued systems can also topoigct delays or unexpected costs for tools to compensate for limitations of antitude dystems. Instructure development efforts can also be delayed when expected system systems have accurated system. Instructure development available. Given the amount of technical debt these systems have accurated so that have and the lack of system patching, the system could open the FAS epidement systems failed are capted system. and the DDE to undue system failed resists. If any of these antiquated DDE systems failed many capted execution, project resource (who are already at capacity) will help have the source (who are already at capacity) will help systems, and lead to schedule delays.	<ul> <li>Consider petitioning the State leadership for additional funding to rescale technical debt that could be putiting the roject and the State at risk of potentially embarrassing and could security breaches and/or critical system failures.</li> <li>Consider prioritoring patching and system upgrades to stabilize boundary systems.</li> <li>Perform early discovery and due diligence to identify potential complications with integration with older systems.</li> <li>Consider prioritorite systems.</li> <li>Consider prioritorite systems.</li> <li>Consider prioritorite systems.</li> </ul>	by 15/2021. Delays related to the line discovery of Interface requirements with one boundary system (DWI) consumes to regainly impact the project. It remains unchar at this or other interface will be implemented prior to completion of UAT or prior to go-live. 03/15/21. For one boundary system, there was some confusion over whether another DOE and party words would be molying their interface to align with the projects interface design. Redesign of the interface has further delayed interface development. 02/15/21. External system interfaces continue to introduce delays in the project schedule_therefore. NeW has escalated with finding to an "Issue". The project has elected to introduce some interfaces the interface issues interfaces continue to introduce delays in the project schedule_therefore. NeW has escalated using the interface development. 02/15/21. Some esternal interface development. DUI schedule issues with the NAS CUI module and has made progress on resolving DAGS interface issues (i.e.g., check printing overflow challenges). The project has confirmed that they will be able to delay to traction of p-card from Back of Hawain EST Hawain Back progress on top days. 02/15/21. Some esternal interface delays have let to project schedule delays and the groject has made additional delays. The project has paused some activities to delarmine that theri streface. Some project tasks have been delayed with top top have to migrate first tooks? Could clead a top additional delays at there is no darks outload too take engement of the DOC DIG Clainties) interface. Some project tasks there is no darks outload too flaves to functions of some Orache (KM. further, runresolved lasks; with DOC heck printing interfaces to DAGS could lead to additional delays at there is no darks sould not be delays and are likely to continue to cause schedule slipages. Interfaces with eternal system interfaces is an earlievite to cantinue to cause schedule slipages. Interfaces with eternal system interfaces are nonewith reg	Design	Issue	Medium Open			9/15/2020
14 Training material	Training material development may be extensive and could lead to project delays or reduce the effectiveness of training	DOE leadership, including the Superintendent, has indicated that the quality, effectiveness, and comprehensiveness of training is a toportive. Early indications are that both the number and degree of hanges may be again(lar. The project currently tracking, with the projects Change impact Analysis (IDA) spreadhent, impactive Lindangs to users and daily operations with the implementation of the new system. Training material will need to effectively address these changes, and new system concepts.	The SI has indicated that much of the system has maintained out of the box Oracle Financials functionality which should accelerate training material development. However, integrating C1A tens into the training material could require a significant level of effort for both the SI and DDE. Because of the high priority given to the diffetiveness of training. DOE review cycles may be unexpectedly extended in order to ensure quality. Given tight timelines and angessive gavies due to, the project may effect to accept training material that does not than schedule in order to ensure training material is in the process assessing whether increased resources or additional time needs to be allotted to this effort to ensure timely delivery of training materials.	Request the SI improve their quality assurance processes to ensure project deliverable drafts go through a figorous quality assurance process prior to submission for DOE review.     DOE prepare contingencies and explore allocating additional resources to assure training material and training delivery quality.	1115/30 - The project is oxing tensive efforts to modernize the DAGS paryoil system interface; 04/5/2021 - The project is making seturise efforts to complete their first Audahi introductory course which should be available for users the week of 4/26/21. DOE also planning to provide supplementary support material to their user, including: policylorocedure documentation, walkthroughs of functional processes, guides to utaing forms, Vendor Payment charts, and a terminology consument from leagy. PMO to Judahi. S course duration estimates have recently increased, raising DOE concerns that the existing schedule will no longer be feasible. The 51 has addressed this concern by adding an additional training resource. Details of postg-live training for new DOE employees remains unclear. 33.5/31 - The 51 has indexident the holinal training material development chefulde was not feasible. The DOE and MOP termain concerned with dedays in the development chefulde was not feasible. The DOE and MOP termain concerned with dedays in the development of charling materials a wells 54 lack of utality suscence. The Sints active the material advises and the dot postg-live without poper quality assurance. The Sints active the davis plan the davise and the davis of the davis of the davise of the davis of the davise of the davise and the davis of the davise and the davis of t	Project Organization & Management	Risk	Medium Open	1		2/15/2021