DAVID Y. IGE GOVERNOR





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November 17, 2020

The Honorable Ronald D. Kouchi, President, and Members of The Senate Thirtieth State Legislature Hawaii State Capitol, Room 409 Honolulu, Hawaii 96813 The Honorable Scott K. Saiki, Speaker, and Members of The House of Representatives Thirtieth 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: **July 16 – August 17, 2020**

Draft Submitted: September 3, 2020 Final Submitted: September 15, 2020



Solutions that Matter

Overview

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Executive Summary

The DOE efforts to execute an accelerated project to replace their antiquated and potentially unstable FMS system are making progress. Based on a detailed review and adjustments to the schedule the project recommended, and the Executive Steering Committee (ESC) voted to approve, a contingency plan to move the go-live date to sometime beyond the currently scheduled January 1, 2021 date. DOE intends to engage with the SI to negotiate a contract modification for this contingency, which is likely to increase project costs. Still, despite some delays, the project is making headway and was recently able to demonstrate system configuration progress through a series of demos presented to system users. Feedback from the demos appear to be generally positive, as users are realizing that many of their tasks will be automated and simplified, however, users are also beginning to realize that other tasks could be complicated by required workarounds due to some system limitations. Execution of the contingency plan would likely mitigate some risks associated with DOE SME overallocation and data conversion/interface delays, as well as allow User Acceptance Testing (UAT) and training to run consecutively in order to mitigate the risks of running them in parallel. IV&V remains concerned that legislative budget cuts, due to COVID-19, could impact the funding of potential project budget increases and also remains concerned with the over reliance on 3-4 key overallocated DOE resources, SI staffing challenges, Oracle limitations, security model complexities, and insufficient risk and release management practices.

Jun	Jul	Aug	Category	IV&V Observations
M	S	M	Cost & Schedule Management	DOE and the ESC have acknowledged that this project includes an aggressive schedule and an increased risk profile, which the ESC has indicated they are willing to accept given the potential larger risks associated with a legacy FMS failure. The SI has recently completed its efforts to build out the project schedule critical path, which revealed that the existing schedule has slipped, and a January 1 go-live is no longer feasible. On 8/17/20, the project Executive Steering Committee (ESC) voted to approve a contingency plan to move out the go-live date. DOE intends to engage with the SI to negotiate a contract modification for this contingency plan, and new go-live date, that will likely increase project costs. Project leadership has stated their intention to avoid increasing the scope of baseline functionality, despite the extension, to avoid further contingencies or extensions going forward. Execution of the contingency plan would likely reduce some risks associated with data conversion/interface delays and SME overallocation, as well as allow UAT and training to run consecutively and mitigate the risks of running them in parallel. IV&V remains concerned that legislative budget cuts, due to COVID-19, could impact the funding of potential project budget increases.



Jun	Jul	Aug	Category	IV&V Observations
				The project's potential extension of the project schedule may provide some relief to overtaxed SME's and may provide an opportunity to increase their focus on quality. However, the DOE SME workload will likely increase once they begin work on other DOE initiatives, including Mainframe as a Service (MFaaS) and the Time & Leave project, which could require a significant level of effort by project resources that are already overtaxed. DOE SME's currently appear to be managing their operational and project tasks, but it remains unclear if this will be sustainable as the project progresses.
M	M	M	Human Resources Management	Of all the functional areas, conversion/interfaces have fallen behind the most and have created schedule delays. The SI has responded by adding an additional resource to support this area, and productivity and coordination of these activities appears to have improved. However, DOE and IV&V continue to raise concerns that the SI does not always appear to be prepared for some working sessions and that SI functional leads, at times, appear to provide incorrect or inconsistent information to DOE SME's. The SI has stated that some of this could be due to the accelerated schedule. The SI is making efforts to regularly coach their team members to improve the quality of delivery and continues to consider other staff augmentation options to fill skillset gaps. Nevertheless, if the SI team lacks deep, expert-level Oracle Financials (OF) cloud expertise, this could reduce the productivity of work sessions and/or lead to poor design decisions that could require rework once a better design or solution is discovered.



Jun	Jul	Aug	Category	IV&V Observations
				The SI appears to be making additional efforts to improve their project management processes. The SI's recent addition to their team appears to be making efforts to organize and add rigor to some processes and procedures. However, DOE and IV&V have noted inconsistent tracking of action items, decisions, and meeting minutes during work sessions. DOE SME's have informed the SI, explaining that this further strains their already constrained resources if these things are not logged or important decisions, action items and other information are forgotten. Still, the SI leadership appears to have made some efforts to collect SME feedback like this and address their concerns.
×	M	M	Project Management & Organization	IV&V logged a new preliminary concern that potential insufficient Knowledge Transfer (KT) and Maintenance & Operations (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. Reportedly, some contractual post go-live support requirements have yet to be clarified and agreed to between the SI and DOE. Further, KT from the SI to DOE IT staff have not met DOE expectations thus far and the DOE IT group has reported that their current staffing levels may not be sufficient to meet the needs of the project while continuing to support other DOE initiatives. The recent COVID-19 related hiring freeze could further hinder the DOE ability to augment their existing staff to meet project needs and to support the new system post-go-live. The DOE is maintaining its standing COVID-19 directive to work from home when possible, which has not appeared to impact the project in a significant way. However, some stakeholders continue to question the effectiveness of virtual testing and training, given this approach is unproven for their userbase who are accustomed to in-person testing/training.
				IV&V remains concerned that project risk management processes, including clear communication of DOE task priorities/dependencies and documentation of mitigation plans/steps, may be insufficient.



Jun	Jul	Aug	Category	IV&V Observations
n/a	M	M	Quality Management	The project was recently able to demonstrate system configuration progress through a series of demos presented to system users. Feedback from the demos appear to be generally positive, as users are realizing that many of their tasks will be automated and simplified, yet other tasks could be complicated by system limitations. The DOE and IV&V continue to note a general lack of rigor with regard to SI release and/or change management practices. For example, during one demo (purchasing module), the automated creation of a purchase order failed, and they were not able to fully demonstrate this functionality. The SI stated this was likely due to their offshore team making changes between the dry run the day before and the demo. Good release/change management practices typically prevent these types of missteps. Similar missteps during testing or go-live could lead to user confusion, reduced user buy-in, costly schedule delays, reduced executive stakeholder project support, a negative public perception, and bad press.

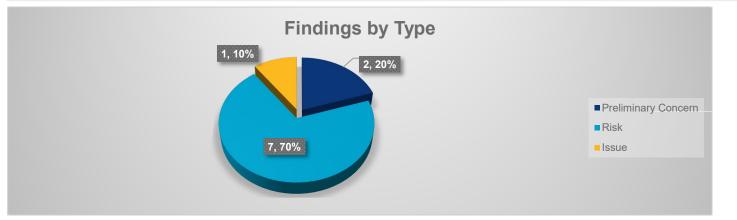


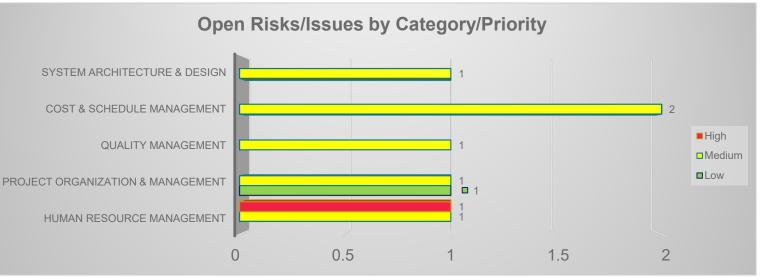
Jun	Jul	Aug	Category	IV&V Observations
			System Architecture &	The project appears to be making progress in addressing many Oracle Financials (OF) platform constraints with workarounds and process changes and is tracking them in a consolidated 'Change Impact Analysis' spreadsheet as part of their OCM efforts. However, the number of workarounds and changes appear to be significant. This could increase the level of effort for training and OCM and hinder user buy-in/adoption. Further, the SI has indicated they are considering avoiding some customizations/personalization's (hiding fields not relevant to a particular user) that would make the system more usable because, due to system limitations, these customizations may have to be reimplemented whenever Oracle rolls out its quarterly updates.
	M	M	Design	The SI has noted they are confident they can meet DOE security needs; however, DOE is concerned that user auto provisioning could be complex and that there are some use cases that the existing security model may not be able to fully support. DOE has stated (and IV&V has observed) that the SI has thus far not been able to effectively articulate the security strategy or the security model they plan on implementing, which makes it difficult for DOE to validate whether it will meet their needs or whether user provisioning will be difficult for DOE to maintain. The SI has recently assigned an additional resource to assist their single security resource with managing the security effort and to help further articulate the security strategy/model.



IV&V Findings and Recommendations

IV&V identified 10 findings (1 Issue, 7 risks, and 2 preliminary concerns) for this reporting period. The following chart breaks down the risks by 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.	Medium
Schedule Management	Risk	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	Risk	2	Over reliance on a few skilled and overtaxed DOE project resources could lead to significant project disruption.	High
Resource Management	Risk	5	SI staffing challenges could reduce project productivity and system design quality, and lead to schedule delays.	Medium
Project	Risk	6	COVID-19 State-wide shutdown could hinder project activities and negatively impact the project schedule and budget.	Medium
Organization & Management	Risk	8	Inefficient project management practices could lead to overall lack of productive project activities and ultimately schedule delays.	Low
Managomont	Preliminary Concern	11	<new> 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.</new>	n/a
Quality Management	lssue	10	Inadequate release management processes could lead to significant rework and schedule delays	Medium
System	Risk	7	Oracle Financials environment constraints could lead to schedule delays and leave the project unable to meet development, testing, and training objectives.	Medium
Architecture & Design	Preliminary Concern	9	User provisioning and security model complexities could lead to unmet user expectations, unfulfilled business objectives, and schedule delays	n/a



Cost & Schedule Management

Key Findings

3

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

Medium

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	Risk - 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



Cost & Schedule Management (cont'd)

Recommendations	Progress
 Take steps to assure sufficient OCM planning and activities are performed to prepare users for the significant change taking place at an accelerated rate. 	In progress
 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). 	In progress
• Leadership take steps to closely monitor project team capacity and assure resources are not overallocated.	In progress
 Implement a plan for broad validation of system functionality with clear channels of communication for user feedback to assure all users are able to perform their duties prior to the project go/no-go decision. 	Not started
 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. 	In progress
• Prepare and implement a public relations plan to avoid inflammatory media coverage which could negatively impact legislative, board of education, and public support.	Not started
• Request the SI accelerate efforts to finalize the PMP and provide a detailed baselined project schedule.	In progress



M Human Resource Management (cont'd)

Key Findings

2

Criticality Rating

Risk - 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. Many DOE team members will likely participate in the FMS Mainframe-as-a-Service project currently planned for August 2020, though, the required level of effort remains unclear. It 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.

High

▲ Human Resource Management (cont'd)

#	Key Findings
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Criticality Rating

Medium

Risk - 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.



M 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
 Consider temporary staff augmentation options to both augment the existing project team and augment the operations staff to offload operational responsibilities from key resources. 	In progress
 Prepare contingency plans in the event that the DOE project team can no longer sustain project and operational activities at the expected pace. 	In progress
• Prepare a resource management plan that addresses current and projected project resource constraints and clearly identifies additional resource needs. Recommend this plan include a detailed analysis of these individual's workload over the next 6 months to determine if expectations on their time are realistic.	Not started
 Assess project team members level of participation in the FMS Mainframe-as-a-Service Migration Project currently scheduled for August 2020 and manage their capacity accordingly. 	In progress
 Work closely with the SI in their staffing efforts and quickly, but thoroughly, vet additions to the SI project team. 	In progress
 Request the SI explore augmenting their team with highly capable and experienced resources that could potentially accelerate the project and reduce the burden on constrained DOE SMEs. 	In progress



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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.

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.

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Criticality

Rating

Medium

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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 Unclear project scope definition · 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

Preliminary Concern - 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.

Criticality

Rating



Project Management & Organization (cont'd)

Recommendations	Progress
 Begin early contingency planning to address further impacts of COVID-19, such as potential furloughs as well as fully remote UAT and Training. 	In progress
 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. 	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
 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. 	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.	Not started
 Monitor and provide regular feedback on PM processes and implement continuous process improvement processes to assure consistent and effective project management. 	In progress
 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. 	Not started



Quality Management

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#	Key Findings	Criticality Rating
10	 Risk – 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. 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. 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"). 	Medium



Quality Management

Recommendations	Progress
 Implement comprehensive and rigorous release management processes and quality controls (checks and	In
double-checks).	progress



System Architecture & Design

Key Findings

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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.



Criticality

Rating

System Architecture & Design

Key Findings

<NEW> Preliminary Concern – 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:

- 9 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.

n/a

Criticality

Rating



System Architecture & Design

Recommendations	Progress
Request the SI develop an environment management plan.	In progress
 DOE investigate the value of adding additional environments as necessary to assure accelerated development cycles. 	In progress

IV&V Status

- IV&V activities performed during the reporting period:
 - Prepared IV&V Plan and Work Plan
 - Prepared and reviewed IV&V Kickoff presentation
 - Attended interview of potential SI staffing additions
 - Attended Project Management meetings
 - Attended Weekly Managers & Leads meetings
 - Attended various Fit/Gap sessions, Working Group sessions & Design Workshops
 - Initial review of project documentation
 - Led IV&V Risk Review sessions with DOE leadership and the SI
 - Interviewed DOE and SI project team members
 - Produced initial assessment 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

ld Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
DOE capacity- overreliance	Over reliance on a few skilled and overtaxed DDE project resources could lead to significant project disruption.	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. Many DOE team members will likely	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 verent of their departure. While most projects have thin risk, the risk impact for this project, from V&V's perspective, is higher than most, and while the project could be impacted by the loss of any ODE team members, there are 3-4 individuals who are relied on to a greater extent than others. Loss of these individuals who are relied on to a greater extent than others. Loss of these individuals who are relied on to a greater extent than others. Loss of these individuals could be significant project disruption. Failupte to transfer standing daily operational and managerial responsibilities from these individuals to other DOE versources could stretch them beyond the capacity and leage the paraletist. Several of these key resources have indicated they have significant operational responsibilities and projects between now and ga-live (e.g. year-end close, udit, the Time & Leave project, preparations for the new school year, etc.) and may simply lack the capacity challenges (see relisted risk), the project may increase their reliance on these individuals and may have to work have to ensure streture elimidviduals and may have to work have to ensure streture reliance to ensure specificator. Further is in solid be resolve some staffing challenges (see relisted risk), the project may increase their reliance on these individuals and may have to work have to ensure streture elimidviduals and may have to work have to ensure streture reliance and project betweet to ensure streture reliance and ensure the streture to ensure streture reliance and ensure to ensure streture to ensure streture and project milestones are met, and overall project activities remain productive.	 Executive leadership regularly monitor the workload and job satisfaction of these key individuals as well as assist with workload management, clarification of priorities, and establishment of a sustainable pace. Temporarily re-allocate operational/managerial responsibilities from key resources until project completion. Ornoider temporary staff augmentation options to both augment the existing project team and augment the operations staff to offload operational responsibilities from key resources. Prepare contingency plans in the event that the DOE project team can no longer sustain project an operational activities at the expected pace. Prepare a resource management plan that addresses current and projected project worklad over the next months to determine if expectations on their time ar realistic. Assess project team members level of participation in the FMS Mainframe-as-a-Service Migration Project currently schedule for August 2020 and manage their capacity accordingly. 	08/17/20 - The project's likely extension of the project schedule may provide some relief to overtaxed SME's and may provide an opportunity to increase their focus on project and system quilly. Project leadership has stated their intention to avoid increasing project scope, despite the likely extension, which should help to mitigate this risk. However, project activities assigned to the DOE IT group are slated to increase in the coming months and could leave their resources overallocated and slow activities in the projects critical path. Further, the DOE IT group workbad will likely begin work on other projects. Including Mainfarma es a service (MFasS) and the Time & Leave project which is likely to require a significant level project task, but it remains unceal if their workbad will be sustainable as the project progresses. 07/31/2020 - Project leadership has reported that some efforts. The being improductive working session due to reported si staffing challenges (ser diving session due to reoptrated si staffing challenges leaver have flow they have become bunycoductive. Further, susten ad added the additional burden of taking over leadership of critical work sessions when they have become unproductive. Further, some tasks, assigned to ver allocated SMEs, appear to have become bottlenecks for potential critical path activities is practively gaterrein regular feedback for potential critical path activities is processively astrong regulared to project and staffic path activities is processively astrong regular feedback for potential critical path activities is processively astrong regulared back for potential critical path activities is processively astrong regulared back for potential critical path activities which are likely to create schedule slippage. It is unclear whether the SI is proactively astrong regular feedback for SMES to an whether ther is proactively astrong regular feedback for SMES to an whether ther is proactively astrong regular feedback for SMES to an other the sin	Human Resource Management	Risk	High	Open	6/30/2020
3 Accelerated Schedule	lead to poor system quality, user frustration, stretch DOE resources beyond	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 ther FMS as quickly as possible to avoid a similar event. The project is currently executing an aggressive, accelerated timeline with a launary 2021 go leve date. This accelerated scheduler that the DOE has deemed acceptable given the potential larger risks associated with another legary FMS failure. In order to speed implementation, the project has elected to implement a cloud- based Oracle Software as-s-arking bastrom based on a pre- configured template, leverage Aglie SDLC methods, limit the amount of new or improver such cancelback and a scaled back snary analysis efforts in order to mest DOE expectations for an accelerated schedule. The SI also stated that Initial analysis would not be needed because the project will be adopting a preconfigured Oracle SAAS trenghate for system implementation and that DOE users will be required to change their existing processes and adopt processes supported by the platform template. Some SME have reported anyl parts for the latform template. Some SME have reported anyl parts for strengt hardron template. Some SME have reported anyl program to change their existing processes and adopt processes and adopt processes.	The accelerated schedule could lead to: *Bick of through consideration of required business process changes resulting from the new system *Biser confusion and frustration due to the added burden of learning a new system with new processes, unnet expectations for improvements, and significant disruption to their daily duties *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant COX and Training efforts with limited time to rob expectation *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant COX and Training efforts with limited time to plan and execute *Bignificant execution exceeds the system analysis efforts *Bined time to react to or resolve issues that may arise *Bore system design *Bignificant early onlysis efforts. This risk could lead to a need to ackend the project schedule. If these potential risks are realized, negative user feedback could end to Infimmative media coverage which could negatively impact legislative, board of education, and public support. Sines SMis have reported early works essions have been unproductive due to the lack of sufficient early analysis efforts. This risk could be exacerbated by other IV&V identified risk which could lead to a nate or to exect the project schedule. SUP project this stated they will only go-live if the system sufficiently supports DOE operations and users are able to do their jobs.	eccelerated rate. • 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). • Leadership take steps to closely monitor project team capacity and assure resources are not overallocated. • Implement a plan for broad validation of system functionality with clear channels of communication for user feedback to assure all users are able to perform their duites prior to the project goin-go decision.	securitions we have need to Structional leads or how the Stra- 08/17/20 - The project Executive Stering Committee (Sc), on 8/17/20, approved a contingency plan to move out the golve date given the current January 1, 2021 golve date acomote bene. Do EW ill now engage with the St ose eif they can negotiate a contract modification for this contingency, and new golve date, that will lively increase project costs. Project leadership is determined to avoid increasing the scoop of baseline functionality, despite the extension, to avoid further contingencies or extensions going forward. However, the project is currently tracking significant level of change that will be required due to limitations of the Oracle Financials that do not fully meet DOF needs, which could require significant number of work arounds and changes to their existing processes. DOE expectations for Si knowledge transfer have thus far not been met, likely due to the accelerated schedule. IV&V will continue to monitor.	Cost & Schedule Management	Risk	Medium	Open	6/30/2020
Delayed PMP & schedule	Delayed finalization of the Project Management Plan (PMT) and schedule could lead to stateholder confusion and less than informed planning and ultimately lead to reduced productivity and project delays.	Plan (PMP) and project schedule. The PMP deliverable was due	The projects accelerated schedule leaves little room for any impact to project productivity. Lack of a finalized PMP could lead to uncertainty around project scope and uncertainty around how the project will be executed or managed, which can reduce overall project cadence and productivity. Delays in estabilisting a clara, detailed baselined schedule could lead to project delays and leave the project unable to effectively monitor project progress. Further, the lack of a clare archited last could leave the project with little mic to respond to critical path activities that may have already impacted the project go-live date.	detailed baselined project schedule. • Request the SI clearly define the project schedule critical path, monitor and clearly communicate critical path activities that are approaching slippage, and formulate risk mitigation strategies to address critical path activities that are failing behind.	surprised to discover they have not appropriately prioritized their work (08/17/19 - OCB haves to to approve the finalized APW but has deemed the existing PMP as sufficient. Efforts are underway to assess revisions to the project schedule based on contract negotiations to move out the go-live date. Sit tabletop exercises were conducted but may have not fully met DOE expectations as contingencies may have not been addressed (e.g., what happens when something goes wrong). 07/31/2020 - While DOE has deemed that recent drafts of the PMP are adequate, finalization of the PMP appears to be delayed by internal DOE processes (e.g. State Attorney General reviews). As of this reporting period, the schedule has yet to be baselined and finalized and still lacks some important details, sequencing, and dependencies and more importanty a cleasibility as well as het by SMEs understand how releases will be orchestrated and identify important tasks and sequencing of tasks/activities.	Cost & Schedule Management	Risk	Medium	Open	6/30/2020

Id Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
5 SI Staffing Challenges	Si staffing challenges could reduce project productivity and system design quality, and lead to schedule delays.	several concerns with regards to the 5 project team. DOE stakeholden have peorden that working session productivity has, at times, been hindered by the apparent tack of sufficient knowledge, capabilities, and expectise of some 51 seam 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 Devolument Lécyel (SEOL). The S has recently	Due to the accelerated project schedule, the project can II afford to toferate a lack of productivity given ga-lwe is in 6 months. One of the primary factors of project succes is establishing a skilled, operationed, productive, highly available and high- functioning team. If the SI is not able to quickly implement as staffing model that can stabilish this kind of team, the project schedule could be at Kin. Further, the tack of sufficiently capable SI resources could weigh heavily on already constrained DOB SMEs as they attent to compensate and extend additional directs to enume project milestones are met. The addition of highly capable and experienced SI resources ould reduce the burden on DOB SMEs. This risk is likely to be acceobated by the significant time zone difference between the project team (HST and PST) and the SI technical team who reside in India.	thoroughly, we additions to the SI project team. • Request the SI explore augmenting their team with highly capable and experienced resources that could potentially accelerate the project and reduce the burden on constrained DDE SMEs.		Human Resource Management	Risk	Medium	Open	6/30/2020
6 COVID	COVID-19 State-wide shutdown could hinder project activities and negatively impact the project schedule and budget.	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	While the extent to which remote work regulements will impact the project, it has already complicated planning for training and OCM. Many users have a strong preference for here some training, however, due to social distancing policies, existing classroom capacity has been significantly reduced. Limited in-person training could lead to unnet user expectations and forwards and sets than optimal training effectiveness. In the event in-person training is limited, project training planning and preparation will likely increase. If strongbas are mandated, the project may not be able to meet project milestone deadlines which could also negatively impact the project sources. If strongbas are mandated, the project impacts. The project is currently faced with productivity and communication challenges because, due to COVID, the 51 off-shore serior technical resources reside in India. Time soone (India sem) challenges appeare 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 hindered their productivity.	 Begin early contingency planning to address further impacts of COVID- 19, such as potential furlought as well as fully remote UAT and Training. Perform an assessment of DOT ennote capabilities prior to UAT and Training to determine stakeholder's ability and effectiveness in relying on remote access for project participation. Continue to monitor project stakeholders are sufficiently competent with remote meeting technology and begin early efforts to help stakeholders to become highly functional with remote access technology (e.g. WebE), as UAT and Training Will likely require some level of (if not full) remote participation. Ontinue participation 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 tactic develop. Detail relevant OCM strategies and plans for addressing the impacts of COVID-19 in the project OCM Plan. Request the II make efforts to address time zone challenges with the off-shore technical team. Initiate efforts to request furlough exemptions for the DOE project team. 	"work from home" mandate. A recent COVID-3 related hiring freeze could hinder the OdE ability to augment their existing staft or meet project needs and to support the new system post-go-live. Some stakeholders continue to question the effectiveness of virtual testing and training. 07/31/2020 - Some stakeholders have indicated that some project	Project Organization & Management	Risk	Medium	Open	6/30/2020
7 Environments	Drace financials environment constraints, could lead to schedule delays and leave the project unable to meet development, testing, and training objectives.	The project has planed for a total of 4 environments, currently lated for development, testing, training, and production. Oracle Financial cloud service level agreements for environment refresh is reportedly 3 weeks. The 51 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 guick environment refreshes in order to effectively meet development, testing, and training objectives. Not will plan for an abundance of environments in order to avoid the need to repurpose environments, avoid project delaya, and provide flexibility to Tresere environments to propose testing and training quality. If the project is unable to quickly refresh environments and is has only a limited number of environments.	 Develop an environment management plan with sufficient details to describe how the project will mitigate related to OF environment limitations. ODE work to procure additional environments as necessary based on SI recommendations that would assure accelerated development cycles. 	08(17):07-The project appears to be making progress in addressing many Oracle Financials (OP) platform constraints with work arounds and process changes and tracking them in a consolidated "Change impact Analysis spreadsheet. However, the number of workarounds and changes appear to be significant. This could not only increase the level of effort for training and OCM but also hinder user buy-in/adoption and ultimately lead to be algorither. This could not only increase the level of effort for training and OCM but also hinder user buy-in/adoption and ultimately lead to ald press or the filing of union greaveness. The project is planning on utilizing a separate sandbox environment for users to experiment and learn in as a way to unitigate this risk. The S is has recently indicated they may avoid some customizations that would have to be reimplemented whenever the platform rollouts out its quarterly updates. 07/31/2020 - Current St plans include User Acceptance Testing (UAT) to be executed concurrently with end user training, such that UAT fises will raquire ongoing changes to the training material that has already been taught and could create some user confusion. OF limitations could make t difficult to accomplish optimal training and UAT objectives.	System Architecture & Design	Risk	Medium	Open	6/30/2020

Id Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
8 PM processes	coud 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 SIPM, with the SI PM managing the buik of SDL2 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 product until the wear bale to acque a capable consultant to lift the role, April 2020. The project reported some early insufficient and inefficient project management processes, including: Il usufficient attention to risk management II unclear project scope definition II unclear project scope definition II unclear project scope definition II sufficient attention to risk management II usufficient attention to risk management and vetting of attendees II Provious 15 project manager (M) had not met project expectations for project teadership, strategic direction, communication, and organization. The Si has recently responded to DOE leadership concerns by removing the SI Plan and adding a project condinator to their team, and the si lengagement manager has taken over as the PM and is now making some progress in addressing the above concerns. The project is currently oparating under a drift Project Management Tain (WP) and project schedule. These deliverables were due 3/3/2/20 but, as of this reporting period, have not been finalized (see Risk #4).	Due to he accelerated project schedule, the project can ill afford to tolerate a lack of productivity. Lack of good project management processes can lead a on overal lack of project productivity, and utimately lack to schedule delays and stakeholder frastration and reduced buyin. The SI appears to be making good progress in addressing OGD project management processes for the initial SI months of the poject productivity and utimately attemption to the project productivity during the planning and analysis phase has led to project delays. Further, the current SI PM planning and analysis phase has led to project delays. Further, the current SI PM exceedence and the project could reactive the reduced productivity during the planning and analysis phase has led to project delays. Further, the current SI PM exceedence and the project could reactive the reduced productivity during the planning and analysis phase has led to project delays. Further, the current SI PM exceedence and the project could reactivity of the PM and engagement manager roles, in addition to other responsibilities in their role as Versident of Operations and senior CheryRoad executive finiciple/partner). The recently added SI project coordinator appears to have had a positive impact on PM processes.	project manager that has proven experience successfully driving 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.	08/17/2020 - The SI appears to be making additional efforts to improve their project management processes. The SI sreent addition to their team appears to be making efforts to organize and add rigor to their processes and procedures. However, IV&V observed gaps during this reporting period including inconsistent tracking of action items, decisions, and meeting minutes during work sessions. DOE SME's have made the SI awave, explaining how this further strains their already constrained resources if these things are not logged or if important decisions, action terms and other information are forgotten by the SI. The SI leadership appears to have made some efforts to collect SME feedback and address their concerns. 07/31/2020 - IV&V has observed some risk management processes that may be insufficient. For example, project tax priorities or dependencies that are required to meet the current schedule. IV&V also noted that mapy project risk documented in the project risk lips ane no clear risk response strategy or mitigation steps that are be tracked or that would give the project withink or fors to first activities on the critical path that are approximality into mitigation steps that and be tracked or they activities into mitigation steps that can be tracked or that wap be an into alwave efforts to first activities on the critical path that are approximality into mitigation adjustion progress. The Si does not stakeholders who are strugging with tasks that may be close to slipping. The SI han noted that they and operating an abring and their importation of their methodology, due to the accelerated schedule, which may limit extensive risk and project management activities.	Project Organization & Management	Risk	Low	Open	6/30/2020
9 Security model complex	User provisioning and security model complexities could lead to unmet user expectations, unfullied 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, principie of least privilege. The project has elected to implement a single Business Unit (B) for all of DOE, which could create system implementation challenges given Oracle Financials security is optimally implemented for multiple BU: 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: Biscurity is too restrictive and hinders their ability to be productive and do their job Siscurity is overly permissive and privileged information is visible to other groups that do not have a butiness need for the data RULser provisioning maintenance is overly complex and/or labor intensive afthe 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 wet the proposed security model with other Oracle Financial cloud security experts could lead a less than optimal security model which could lead to unmet user expectations as well as project disruption in the event that a significant change to the model is needed as go-live approaches.	•SI make efforts to fully wet the proposed security model with multiple Oracle Financials cloud security strategy experts prior to implementation. • Make early COL efforts to manage expectations based on potential limitations of the security model as they relate to business objectives. • ODE establish clear controls with regard to segregation of duties and least privilege permissions.		System Architecture & Design	Prelimina ry Concern	n/a	Open	7/29/2020
10 Release management	processes could lead to significant rework and schedule delays	Due to existing Oracle Financials cloud limitations, upload of data is often difficul to back out. Errors made during data uploads can either require manual data entry corrections or an environment refresh that will liekly take's week. During initial updoads 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 GF 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 refersh the environment to a previous state, however, an OF refersh will likely take 3 weeks, which may not be feasible given the tight deadlines. If comprehensive cut acid of ear update by both DOF and the S1 can be difficult to back out. Lack of dear update di live varioning and othere contols could lead to umong files being uploaded which could lead to disruption of development efforts and, if not caught, could lead to disruption of destingtion of development efforts and, if not caught, could lead to disruption of testing phases and ultimately, schedul during testing or go-live could lead to dest contions, reduced user bury-in, costly procedures taks sufficient rigor, the likelholder project suport, and a negative public perception that could be picked up by the local media (aka "bad press").	controls (checks and double-checks) to ensure the right files are uploads with clean data.			Issue	Medium	Open	7/31/2020
11 Long term support	planning prior to go-lve could lead to project delays and diminished quality of post go-live support.	There appears to be a lack of carity around post ga-line support imponsibilities and the level of Si support. Apparently, some contractual post ga-line support requirements have yet to be clarified and agreed to between the Si and Ook. Further, DCE expectations for the Si to train their IT staff have not been met. The DCE IT group correctly has some interfacic development project responsibilities and DCEs appectation was that the Si would provide sufficient browledge trainer (FT G) on Order. Financial (CP) and Oracle hitegration Cloud (ICIC) in order to perform these tasks in a timely manner as well as meet sepectation for DCD port ga-line support regroupsrike. DCE has stretch their expectation that DCE IT staff would work alongside the since their expectation that DCE IT staff would work alongside the since their or IT haron more DCE expectations thus far. The SI has tated they are not contractually obligated to formably train the DCE IT staff on the technology.	If the DOE If staff are not sufficiently valued to effectively implement their project tacks this could add to a reduction of efficient execution and quality of the technical components they have been assigned and, ultimately, to schedule algoping. Lack of chirdry or stifficter planning around post pole-bue support cuell lead to diminished quality of post go-bue support. Failure to adequately support the new OF group with OF skillexters could leave OCE unable to adequately support the new OF system post go-bue and lead to an over-reliance on costly vendor resources and impact the project budget.	DOE develop a resource management plan to address paps in their existing their address part to be next training their address part to be next training their address part to be next to be address part		Project Organization & Management	Prelimina ry Concern	n/a	Open	8/17/2020