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February 5, 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: November 16 – December 15, 2020

Draft Submitted: January 7, 2021 Final Submitted: January 29, 2021



Solutions that Matter

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Executive Summary

The project continues to make progress toward completion of the second round of System Integration Testing (SIT) and DOE testers system knowledge continues to grow. The testers have provided important valuable feedback on system capabilities and usability which has provided the project with early detection of potential user complaints. IV&V remains concerned that unexpected delays may occur, due to the late introduction of new configurations into the SIT environment, and the lack of a detailed fully resourced project schedule. These delays, along with other testing challenges, may prevent critical SIT objectives from being met.

The System Integrator (SI) continues to make efforts to improve their team's ability to deliver quality work products and improve overall project technical leadership. The SI has recently replaced their training lead with a resource that has a proven track record on other Hawaii State projects (DAGS Payroll). However, DOE SMEs continue to report SI quality issues that continue to increase their project workload. The SI team continues to demonstrate a general lack of technical leadership as important design decisions and solutioning of design challenges are delayed. IV&V and DOE also continues to note the SI foregoing quality control measures (e.g., making changes in the SIT environment without following release management procedures) as they rush to meet development deadlines, which could degrade system quality and further delay the schedule due to the increased potential for rework.

DOE leadership continues to make efforts to address SME capacity concerns including opting out of the state-wide Time & Leave project, so their resources can focus on project activities. However, as the project nears completion of SIT, the project could be faced with a narrowing window of opportunity to effectively mitigate these risks. IV&V continues to monitor risks related to supporting a complex security model, insufficient SI unit testing, insufficient SI security configuration resources, and the overallocated SI PM.



Oct	Nov	Dec	Category	IV&V Observations	
			 Cost & Schedule Management Cost & Gripts are difficult to follow. Further, the SI, at times, appears to be foregoin quality control measures (e.g., failure to follow release management proced) 	IV&V and the DOE PMO continue to be concerned that planning details outside the current rolling 6-week project schedule planning window could be insufficient and could lead to schedule delays once these activities are thoroughly vetted and detailed.	
M	M	M		Due to the aggressive schedule, the project has elected to implement security and some other functionality during the latter half of SIT. This could lead to schedule delays if the added functionality cannot be completed and tested in time to meet SIT exit criteria. The project has also elected to forego test script revisions during SIT despite testers complaining of multiple spelling and grammar problems and that the scripts are difficult to follow. Further, the SI, at times, appears to be foregoing other system configuration quality control measures (e.g., failure to follow release management procedures) as they rush to meet activity deadlines, which could degrade system quality and further delay the schedule.	
					IV&V remains concerned that the SI does not consistently mitigate schedule slippage risks and/or communicate the urgency of specific project tasks. The SI is reportedly exploring additions to their team to shore up areas that have experienced delays.

Oct	Nov	Dec	Category	IV&V Observations
				DOE SMEs continue to report challenges with the SI project team that has led to an increase in their project workload as they seek to ensure SI work product quality, comprehensive SI communications and follow through, and that proposed systems designs are fully vetted. The SI team continues to show signs of a general lack of technical leadership as important design decisions are delayed. However, the SI has made efforts to address DOE concerns and increased some of their team's capabilities and capacity. The SI has replaced their training lead with a resource that has proven success assisting other State projects (DAGS Payroll) and is therefore familiar with DOE capabilities and training needs. IV&V and DOE continues to note a lack of internal collaboration amongst the SI project team members which has led to some unproductive DOE/SI work sessions.
M	H	H	Human Resources Management	One key member of the Gartner PMO team has been replaced by a Gartner technical PM resource, and the longstanding Gartner assistant PM is now the Lead DOE PM. Turnover to the new Lead PM appears to have been effective, as the project has not experienced any noticeable disruption due to the change. The new Gartner technical PM resource has been assisting the DOE IT team, offering technical guidance and coordination support.
				DOE has been impacted by the COVID pandemic in ways that other agencies may not have been impacted and this has put an overall strain on DOE resources. DOE leadership continues to make efforts to address SME capacity concerns including opting out of the state-wide Time & Leave project, so their resources can focus on project activities. However, as the project nears completion of SIT, the project could be faced with a narrowing window of opportunity to effectively mitigate these human resource risks. DOE is reportedly limited in their ability to augment their staff due to budgetary and union constraints, and the amount of time required to onboard new resources can be lengthy. This combined with the SI staffing challenges has led IV&V to maintain the "High" risk rating for this category.



Oct	Nov	Dec	Category	IV&V Observations
			Project Management & Organization	State leadership has announced that furloughs could begin January 4, 2021, though DOE employees will likely see less furlough days than other State employees. 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.
M	Ø	M		DOE SMEs continue to report instances of unproductive work sessions due to a lack of SI preparation for meetings and/or insufficient activity coordination; also, meeting minutes and agendas are not consistently provided to attendees. DOE PMO and IV&V continue to note instances of the SI scheduling meetings with multiple DOE participants that may have been unnecessary (or meeting length significantly reduced) if the SI had one-on-one conversations with SMEs to clarify or resolve issues prior to (or in lieu of) meeting with the larger group. It appears the SI PM continues to be overallocated as some PM tasks are delayed or rushed, which may reduce the effectiveness of the overall management of the project.
				The DOE IT team is making efforts to prepare for post go-live support and remains concerned the complex security model could be difficult to support. Though details of post go-live DOE/SI support responsibilities have yet to be clarified, the SI has begun work on a Maintenance & Operations (M&O) plan. The SI has stated they plan to garner lessons learned (as the project progresses) to help determine the recommended levels of SI post go-live support.



Oct	Nov	Dec	Category	IV&V Observations
M	M	M) Quality Management	IV&V remains concerned that the SI Test Lead may be overallocated given that they also serve as the SI PM. DOE has noted that the SI testing approach and SI produced test script quality have not met DOE expectations. DOE Leads have noted multiple shifts in approach, inefficiencies, and confusing testing procedures. It appears the SIT test scripts were not fully reviewed by the SI prior to delivery to the DOE test team and may not have been used for SI unit testing, a common practice to ensure test script quality. Testers have noted multiple test script grammar and spelling errors and have complained that scripts lack sufficient instructions or important execution details. This has led to an increase in the test team's workload and could lead to testers marking a test as successful when it is not. Further, testers have reported instances where they were given test scripts that tested functionality that had not been fully implemented in the system. The project has elected to forego revising the test scripts during SIT due to time constraints but plans to revise them before the start of User Acceptance Testing (UAT). DOE has accepted this risk in order to keep to their aggressive schedule.
				The SI continues to experience release management challenges and previous SI release management errors continue to hinder DOE interface development efforts as the system does not allow developers to easily back out some configuration mistakes. Recently, data was uploaded into the SIT environment without notifying the DOE test lead, effectively invalidating their tests without notice. With multiple members of the project team working at or beyond capacity, testing coordination has become difficult to manage and led to testing missteps. IV&V remains concerned that SI unit testing may be inadequate as they rush to complete tasks. Failure to fully unit test configurations (or code) push the burden of finding bugs onto the DOE testing practices.

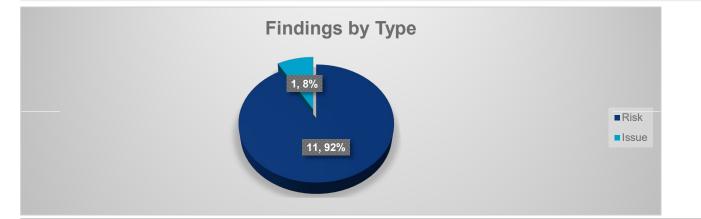


Oct	Nov	Dec	Category	IV&V Observations
				Feedback from testers during SIT have led the project to reevaluate whether they should use the default Oracle Financials (OF) "requisitions" feature. The DOE legacy FMS did not utilize requisitions, and testers have indicated the OF user interface is cumbersome, inefficient, and confusing. Testers have also complained of system slowness which the SI is in the process of addressing. IV&V and DOE leadership remains concerned with the level of effort required for DOE to perform regression testing to test Oracle quarterly updates post go-live.
M	M	M System Architecture & Design Si security resource intribute to scher prior to implement has led to increa and is rushing si release manager resource with sec problems with the schedule could bi security experts to It remains unclear	IV&V remains concerned with the complexity of the security implementation and the lack of adequate SI security resources, as security challenges continue to hinder project progress and are likely to contribute to schedule slippage. Further, it appears the security model was not thoroughly unit tested prior to implementation as security model changes continue to be implemented throughout SIT and has led to increased DOE tester rework. The single SI security resource appears to be overwhelmed and is rushing security fixes into SIT in order to meet deadlines, bypassing some unit testing and release management processes. The SI Engagement Manager is now assisting the SI security resource with security activities and with addressing outstanding security issues and recently identified problems with the security model. If the identified security issues are not resolved soon, the project schedule could be delayed. IV&V recommends DOE request the SI augment their team with OF security experts to validate the security model and the security implementation approach prior to UAT. It remains unclear if the security model will fully support segregation of duties, protection of assets, privacy, and protection against fraud.	
				Interfaces continue to face delays and are likely to continue to cause schedule slippage. Interfaces with external systems continues to be a challenge for the project. For example, it remains unclear why the DAGS payroll system interface has been delayed. Concerns have been raised that outbound interface testing could be hindered if external stakeholders are unavailable or unresponsive.

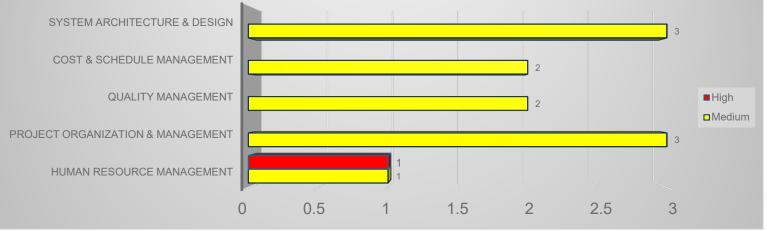


IV&V Findings and Recommendations

IV&V identified 12 findings (1 Issue and 11 risks) 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.	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
Quality	Issue	10	Inadequate release management processes could lead to significant rework and schedule delays.	Medium
Quality 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 &	Risk	9	User provisioning and security model complexities could lead to unmet user expectations, unfulfilled business objectives, and schedule delays.	Medium
Design	Risk	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

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. 	In progress
 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
 Request the SI proactively augment their team with additional experienced resources as needed to assure project milestone deadlines are met. 	In progress
 Request the SI accelerate efforts to finalize the PMP and provide a detailed fully resourced project schedule. 	In progress



Human Resource Management

Key Findings

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

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Human Resource Management (cont'd)

#	Key Findings
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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.

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

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 (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. 	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
 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, expert-level resources that can provide technical leadership that could potentially accelerate the project and reduce the burden on constrained DOE SMEs. 	In progress
 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 SME's. 	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

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

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



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.	In progress
 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. 	In progress



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 (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
 Implement comprehensive and rigorous release management processes and quality controls (checks and double-checks). 	In progress
Clarify and fully vet the testing strategy and plans for DOE leads and stakeholders.	In progress
Develop and implement a robust regression test methodology.	Not started



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

М

9

System Architecture & Design (cont'd)

Key Findings

Risk – 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

Risk – 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.

Medium

Criticality

Rating



System Architecture & Design (cont'd)

Recommendations	Progress
 SI make efforts to fully vet the proposed security model with multiple Oracle Financials cloud security strategy experts prior to implementation. 	Not started
 Make early OCM efforts to manage expectations based on potential limitations of the security model as they relate to business objectives. 	In progress
DOE establish clear controls with regard to segregation of duties and least privilege permissions.	In 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
 Consider petitioning the State leadership for additional funding to resolve technical debt that could be putting the project and the State at risk of potentially embarrassing and costly security breaches and/or critical system failures. 	In progress
Consider prioritizing patching and system upgrades to stabilize boundary systems.	In progress
• Perform early discovery and due diligence to identify potential complications with integrating with older systems.	In progress
 Consider implementing early, basic proof of concept interfacing with older systems to assure integration is feasible and to vet optimal interface solutions. 	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 DOE 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	Identified Date
2 DOE capacity -	Over reliance on a few	There are currently 3-4 DOE team members who are relied on to a	Over reliance on key resources can not only overtax and thereby reduce	Executive leadership regularly monitor the workload and job	12/15/20 - One key member of the Gartner PMO team has been replaced and the longstanding	Human	Issue	High	Open	6/30/2020
overreliance	skilled and overtaxed DOE	greater extent than others. Each of these individuals have significant	the effectiveness of these key individuals, but also presents a risk of	satisfaction of these key individuals as well as assist with workload	Gartner assistant PM is now the lead DOE PM. Turnover to the new PM appears to have been	Resource			1	
	project resources could lead		significant project disruption in the event of their departure. While most	management, clarification of priorities, and establishment of a sustainable nace	effective as the project has not experienced any noticeable disruption due to the change. The	Management			1	
	to significant project disruption.	responsibilities as well. While each of these team members have indicated a strong commitment to project success, each has multiple	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		new Gartner technical resource has been assisting the DOE IT team offering guidance and coordination. DOE leadership continues to make efforts to provide some relief to overtaxed DOE				1	
	anaption	competing priorities, and most will be constrained with operational	by the loss of any DOE team members, there are 3-4 individuals who are	from key resources until project completion.	SME's including a concerted effort to offload business operations tasks from the lead DOE SME				1	
		tasks between now and go-live. It remains unclear if DOE staffing	relied on to a greater extent than others. Loss of these individuals could	Consider temporary staff augmentation options to both augment	who has become both the focal point and chokepoint for important project tasks. DOE is				1	
		levels committed to in the original Statement of Work (SOW) have	lead to significant project disruption. Failure to transfer standing daily	the existing project team and augment the operations staff to	reportedly limited in their ability to acquire new DOE staff due to budgetary and potential union				1	
		been met (see SOW, page 3).	operational and managerial responsibilities from these individuals to	offload operational responsibilities from key resources.	constraints. SI challenges continue to weigh heavily on the lead DOE SME as they make				1	
			other DOE resources could stretch them beyond their capacity and lead to a lack of job satisfaction, decreased productivity, decrease in quality,	 Prepare contingency plans in the event that the DOE project team can no longer sustain project and operational activities at the 	additional unexpected efforts to assist with coordinating SI communications and other activities, and provide quality assurance for SI work products.				1	
			and increases the probably they could make critical mistakes that could	expected pace.					1	
			negatively impact the project. Several of these key resources have	Prepare a resource management plan that addresses current and	11/15/20 - IV&V remains concerned that DOE SME's are operating at or beyond their capacity				1	
			indicated they have significant operational responsibilities and projects	projected project resource constraints and clearly identifies	and the overreliance on one DOE SME, who currently provides exceptional value to the project,				1	
			between now and go-live (e.g. year-end close, audit, the Time & Leave	additional resource needs. Recommend this plan include a detailed	has become both the focal point and chokepoint for important project activities. Any disruption				1	
			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	analysis of these individual's workload over the next 6 months to determine if expectations on their time are realistic.	to this individuals' availability could lead to schedule slippage. SME's continue to spend a significant amount of time reviewing and double-checking SI configurations and other work				1	
			to resolve some staffing challenges (see related risk), the project may	Request that the SI address issues with their project team that	products due, in part, to their lack of confidence in the quality of SI work products. The SI				1	
			increase their reliance on these individuals and may have to work harder	place an unnecessary burden on overtaxed DOE SME's.	continues to make efforts to clarify and prioritize DOE SME tasks, however, specific SME task				1	
			to ensure system designs are accurate, project milestones are met, and		priorities are not always made clear to DOE SME's.				1	
			overall project activities remain productive.						1	
					10/15/20 - The single DOE resource that has, at times, become a bottleneck for project activities continues to be overallocated. This has been exacerbated by a recent flood of audit activities				1	
					that are occupying the DOE accounting teams time. IV&V has observed that SI leads lack of				1	
					coordination, communication, apparent expert knowledge, and prioritization of DOE SME tasks				1	
					(see Risk #5), has frustrated and often puts an additional hardship on DOE SME's. Further, the SI				1	
					has recently reported their Conversion/Interfaces management lead is leaving the project, which				1	
					could further exacerbate this risk. Until a suitable replacement is found, the SI PM and				1	
					Engagement Manager will fill this void. The SI is also in the process of onboarding a new testing				1	
					coordinator to take over for the SI PM that has been filling in. The DOE PMO appears to be stepping up efforts to assist with coordination, communication, and prioritization of SME tasks.				1	
					stepping up enorts to assist with coordination, communication, and phontization of sive tasks.				1	
3 Accelerated	Adoption of an aggressive	In October of 2018, the aging DOE FMS failed, was offline for several	The accelerated schedule could lead to:	 Take steps to assure sufficient OCM planning and activities are 	09/15/20 - DOE project leads have reported that though the project schedule extension will 12/15/20 - Due to the aggressive schedule, the project has elected to implement security and	Cost & Schedule	Risk	Medium	Open	6/30/2020
Schedule	schedule could lead to poor	weeks, and led to significant disruption of critical operations. As a	Eack of thorough consideration of required business process changes	 Take steps to assure sufficient Ocivi planning and activities are performed to prepare users for the significant change taking place 	some other functionality during the later half of SIT. This could lead to schedle delays if the	Management	NISK	weatum	Open	0/30/2020
	system quality, user	result, the DOE quickly procured and launched this project with the	resulting from the new system	at an accelerated rate.	added functionality cannot be completed and tested in time to meet SIT exit criteria. Further,				1	
	frustration, stretch DOE	goal of replacing their FMS as quickly as possible to avoid a similar	 Øser confusion and frustration due to the added burden of learning a 	Project leadership closely monitor project productivity and meet	the SI, at times, appears to be foregoing some quality control measures as they rush to meet				1	
	resources beyond their	event. The project is currently executing an aggressive, accelerated	new system with new processes, unmet expectations for improvements,	regularly to perform continuous process improvement	activity deadlines. The project has elected to forego test script revisions during SIT despite				1	
	capacity, and bad press.	timeline with a January 2021 go-live date. This accelerated schedule	and significant disruption to their daily duties	(continuously reach out for feedback and move quickly to improve	testers complaining of multiple spelling and grammer problems and that the scripts are difficult				1	
		incurs risks that the DOE has deemed acceptable given the potential larger risks associated with another legacy FMS failure. In order to	•Øver allocation of project resources and users •Significant OCM and Training efforts with limited time to plan and	unproductive project elements and processes). • Leadership take steps to closely monitor project team capacity	to follow. The SI is exploring additions to their team to shore up areas that have experienced delays. IV&V recommends DOE explore providing the project with a dedicated report writer				1	
		speed implementation, the project has elected to implement a cloud-	execute	 Leadership take steps to closely monitor project team capacity and assure resources are not overallocated. 	that could be trained on the new reporting tools and offer long-term (post go-live) reporting				1 '	
								1		
		based Oracle Software-as-a-Service platform based on a pre-	 Broject decisions to cut corners to meet milestones and DOE 	 Implement a plan for broad validation of system functionality 						
		based Oracle Software-as-a-Service platform based on a pre- configured template, leverage Agile SDLC methods, limit the amount	 Broject decisions to cut corners to meet milestones and DOE expectation 	 Implement a plan for broad validation of system functionality with clear channels of communication for user feedback to assure 	support to system stakeholders. This could potentially free up S1 resources so they can focus on activities that have a greater risk of delaying the project schedule.					
		configured template, leverage Agile SDLC methods, limit the amount of new or improved functionality, and scaled back some project	expectation •Ønproductive working sessions due to insufficient analysis efforts	with clear channels of communication for user feedback to assure all users are able to perform their duties prior to the project go/no-	support to system stakeholders. This could potentially free up SI resources so they can focus on activities that have a greater risk of delaying the project schedule.					
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Id Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
4 Delayed PMP & schedule	Delayed finalization of the Project Management Plan (PMP) and schedule could lead to stakeholder confusion and eless than informed planning and uitimately lead to reduced productivity and project delays.	The project is currently operating under a draft Project Management Pan (MMP) and project scheduc. The MPD deliverable 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 fittler coon for any impact to project productivity. Lack of finalized PMP could eath a 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 establishing a clear, detailed baselined schedule could lead to project Gelays and leave the project unable to effectively monitor project project. 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.	 Request the SI accelerate efforts to finalize the PAPP and provide a detailed basined project schedule. Request the SI clearly defines the project schedule critical path, monitor and clearly communicate critical path, activities that are approaching signage, and formulater isk nitigation strategies to address critical path activities that are failing behind. 	12/15/20 - VRAV and the DOE PMO continue to be concerned that Janning outside of the rolling 6 week project schedule updates could be insufficient and could lead to schedule dealsy sonce these activities are thoroughly vetted and detailed. The SI has stated they are making efforts for future planning. 11/15/20 - The SI is currently updating the project schedule on a rolling 6-week basis and regularly reviews critical path tasks (at a high level) with the PMO. DOE PMO reports that while the current project schedule (and critical path) lacks some details. It has been, thus far, adequate for managing project activities. IVX0 continues to monitor risks related to the project schedule that could lead to the project being surprised when important milestones activities were not schedule that could lead to the project takelug that could lead to the project takelug takeholders have reported that some project document are not consistently key up to date schedule schedule regularly updated and express that could pose a risk to the schedule. 10/15/20 - The PMP reported final signature by the DOE Superintender on 9/22/20. DOE stakeholders have reported that some project documents are not consistently key up to date and are less than comprehensive. Best practice is for the PMP and other project changeners of truth for foundational project information. Further, DOE PMO reports that the project elseville that request the supplex to project schedule that are delayed, leaving the project life to follow. They have also state that SP M is overallocated. IV&V remains concerned the project coll bis sizes and cocer are front strift are redelayed, leaving the project life to tho solve solves are of this is are adopted schedule for that are delayed, leaving the project life to the solves project activations that are delayed, leaving the project life to the solves or to solve solves are of that the delay for the solves of this size as a project schedule fit and communicate the critical path, and essure the sobject rolice size and provid	Cost & Schedule Management	Risk	Medium	Open	6/30/2020
5 SI Staffing Challenges	Si staffing challenges could reduce project productivity and system design aulity, and lead to schedule delays.	Since soon after project launch, the DOE project leadership has raised several concerns with regards to the 5 project teadership has raised sakeholders have reported that vorsing session productivity has, at times, been hindred by the apparent lack of sufficient knowledge, capabilities, and expertise of some Stream members. While some appear to have some strong capabilities and financial system knowledge, others paper to lack the capability to drive productive discussions, quickly solution implementation issues, and accelerate the to NOLe Readership concerns that the SI PM lacked sufficient capabilities, and presence, 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 appears to be making efforts to augment their staffing model to address each concern.	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 S 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	• Work closely with the SI in their staffing efforts and quickly, but thorouphy, vet additions to the SI project team. • Request the SI make efforts to address time zone challenges with the off-shore technical team. • Request the Septore 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 DDE SMEs. • DOE consider issuing a corrective sciton plan for 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 SME's.	assess whether they will be able to complete all required tasks to meet the new go-live date and 12/15/20-DOE WBC sontinue to report challenges with the S project team that has led to an increase in their project workload as they seek to ensure SI work product quality, comprehensive Scommunication and follow through, and proposed system designs are fully wreted. The SI team continues to show aigns of a general lack of technical leadership as important design decisions are delayed. However, the SI has made efforts to address DIE concerns and increase their teams capabilities and capacity. The SI has repleced their training lead with a resource that has proven success assisting other State (DAGS) projects and is therefore familiar with DOE capabilities and training needs. IV&V and DOE continues to note a lack of internal collaboration amongs the SI project team members which has led to some unproductive DDE/SI work sessions. 11/15/20- The SI added a new test lead to the project team, however, it remains unclear whether this new resurce will fully tead the testing effort. It appars the SI project PM continues to lead this effort and the new SI resource is acting in a support role for testing coordination activities. Other SI stating challenges continue to show tittle improvement and DOE SME's have stated they are not always well informed on aspects of system functionality, system limitations and known bugs. DOE SME's continue task, confidence and they are concerned that the project 10/30/20. Project stakeholders and IV&V are concerned that the more stating challenges continue to show tittle improvement and, dungle good processes are in place, they are not always followed, which has led to contains and varve for DOE SME's teating as art is id delight groupeict anneagement. Ideadesement, Orher Sist tasks are at risk of delights groupeict and they are outpred that the coversion/interface tasks to adv processes are in place, they are not always followed, which has led to contais on adver avork	Human Resource Management	Risk	Medium	Open	6/30/2020

ld Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
6 COVID	COVID-19 State-wide shudows could hinder project activities and negatively impact the project schedule and bodget.	On 3/23/2020, the Governor issued a "stay at home, work from home order" that appears to have reduced the baility of the Octo be fully functional, as the large majority of their workers have been required to work from home/emotely. Though the governor has allowed state workers to reduce to the workplace, many continue to work remotely. The state legislature is currently contemplating implementing 1-2 div/veek fundpast so 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, it has already complicated planning for training and OCM. Many users have a strong preference for in-person training, however, due to social distancing policies, existing dassorom capacity has been significantly reduced. United in person training is limited, project training planning and preparation will likely increase. If furioughs are mandated, the project may not be able to meet project milestone dealines which could also negatively impact the project milestone dealines which could also negatively impact the project milestone dealines which could also negatively impact the project milestone dealines which callenges because, due to COVID. In Solf-shore source technical resources reside in India. Time zone (India team) challenges appear to have limited communications with the project team and SMs have offen had to wait until the following day to get answers to some questions. Further, SMS 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 furloughs as well as fully remote UAT and Training. Perform an assessment of DOF remote 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.: Web2i, as UAT and Training will likely require some level of (fin of ull) remote participation. Send toroad communications to assure stakeholders the project and provide regular updates, as appropriate, as new plans and tactics develop. Detail relevant OCM strategies and plans for addressing the impacts of COVD-19 in herp roject COM Plan. Initiate efforts to request furlough exemptions for DOE project team members. 	12/15/20 - State leadership has announced that funloughs could begin January 4, 2021, though DOC could see Iss than the project 2014 set wide standard 2 funlough days per month. Given that the project tainrently relies heavily on 3.4 key resources (see Finding 82), if anyone one of these individuals contract COVID-19, the project could be negatively impacted by their lack of availability. 13/15/20 - No material updates for this reporting period. 10/15/20 - State leadership has indicated that they may be implementing State-wide bi-weekly furloughs as early as December 2020. The project sanalyzing potential impacts and risk mitigations to address the loss of OC resource space/try Tyrolizkly. Slat ODD project resources and/or the project tain anyone constrained to the project tain anyone one of the project tain anyone to the project tain anyone one of provide the officiency to communications. INK N has observed some upmoductive communications and specific explorations and specific exploration and exploration and specific explorations and specific explorations and specific explorations and specific explorations and specific exploration explorations and specific explorations and specific explorations and specific explorations and specific exploration explorations and specific explorations and specific explorations and specific exploration and exploration exploration exploration explorations and specific exploration explorations and specif	Project Organizatioa Management	Risk	Medium	Open	6/30/2020
7 Environments	Oracle Financials environment constraints could lead to schedule delays and leave the project development, testing, and training objectives.	The project has planned for a total of 4 environments, currently slated for development, testing, training, and production. Oracle Financial (out service level gerements 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 DDE is reportedly making efforts to increase the number of environments.	Typically, projects of this size, complexity, and pace rely on quick environment refrashes in order to effectively meet development, fusting, and training objectives. Most will plan for an abundance of environments in order to avoid the need to repurpose environments, avoid project debas, and provide fitability 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.	Develop an environment management plan with sufficient details to describe how the project will mitigate related to OF environment limitations. = OOE work to procure additional environments as necessary based on Si recommendations that would assure accelerated development cycles.	12/15/30 - Feedback from testers during SIT have led the project to reevaluate the use of Oracle Financials (OF) use of regulsitions. The DOE legacy FARS did not utilize regulsitions and testers have indicated the OF user interface is cumbersome, inefficient, and confinaine, "Festers have also complained of system slowness which the SI is in the process of addressing. Proviously reported OF bags introduced by the quarterly Voracle quarter have since been resolved by Oracle 11/15/20 - The recent push of an Oracle quarterly update to the non-production environments introduced bugs and may have disrupted development efforts. It remains unclear when Oracle will be able to develo a patch for these bugs. DOE leadership remains concerned with the lead of effort required for them to perform regression testing to test quarterly updates post go live. They also emain concerned that bags could be introduced that are not caught in regression testing, promoted to the production, and lead to disruption of system functionality and availability. NVX recommends DOE make extensive efforts to plan for comprehensive regression testing efforts. 10/15/20 - The SI has confirmed that some system customizations will likely be overridden when Oracle quarterly updates are applied to the environments. N&V remains concerned that, whill oracle is able to fit some apparent bugs in their Oracle financials migration tools, the SI will not be able to automent. 09/15/20 - The project has stated that the schedule extension change order will include additional controls to address imitations of the Oracle financials migrations. The project has solution or work around which could also become an OCM challenge as some proposed work arounds could be significant. This could not only increase that the project workariout oursuliated (Phance in the significant. This could not only increase the effort for training and OCM but also hinger user by <i>in-There</i> are to the environments.	System Architecture & Design	Risk	Medium	Open	6/30/2020

ld Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
8 PM process	es 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 SUC 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.	Due to the accelerated project schedule, the project can ill afford to tolerate a lack of productivity. Lack of good project management processes can lead to an overall lack of project productivity, and altimately lead to schedule delays and stakeholder frustration and reduced buy-in. The SI appears to be making good progress in addressin DOE project management concerns. However, the impacts of operating the project management concerns. However, the impacts of operating the project management concerns.	Request the SI work quickly to acquire a dedicated and highly- capable 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	12/15/20 - DOE SME's continue to report instances of unproductive work sessions due to a lack of SI preparation for meetings and/or lack of coordination of activities. Meeting minutes and meeting agends as ren ot consistently provided to attendes. DOE PMO and W&V continue to note instances of the SI scheduling meetings with multiple DOE participants that may have been unnecessary or the amount of time taken could have been reduced if the SI had one-on- conversations with SME's to clarify or resulve issues prior to for in lieu of meeting with the	Project Organization & Management	Risk	Medium	Open	6/30/2020
		The project reported some any insufficient and inefficient project management processes, including: Binsufficient action item tracking and follow-up Binsufficient action item tracking and follow-up Binsufficient actions to mission and action action action Binack of clear meeting objectives and late delivery of meeting Binsufficient guidance on attendee management and vetting of attendees Birowick project management and vetting of attendees Birowick project management and vetting of attendees Birowick project management provided expectations Birowick project management provided expectations attendees Birowick project management provided expectations Birowick project management provided expectations attendees Birowick provided birowick provided expectations attendees Birowick provi	the project under poor project management processes for the initial 5 months of the project remain unclear. The project could realize the reduced productivity during the planning and analysis phase has led to project delays. 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 CherryRead executive (principle/partner). The recently added SI project coordinator appears to have had a positive impact on PM processes.	consistent and effective project management. • Integrate risk management practices into existing processes (e.g. Review important deadlines in weekly working sessions). • Document and execute detailed risk mitigation steps for tasks	Inger group. It appears the SI PM continues to be overallocated as some PM tasks are delayed or rushed, which may reduce the effectiveness of the overall management of the project. 11/15/20 – SI efforts to offload Testing Lead responsibilities from the PM to their new Test Lead have not met DDE expectations. If the SI PM continues to lead testing, the quality of SI project					
		An removal ap upper tanging (* m) name the project Expectations for project leaderships, 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 manage has taken over so the PM and is now making some progress in addressing the above concerns. The project is currently operating under a draft Project Management PM lane (PMP) and project schedule. These deliverables were due 3/12/20 but, as of this reporting period, have no the enfinitioned (see Risk 44).			In Optic desumes are not insetse. 10/15/20 - The SI has recently added a new resources to assist with management of project action items. The SI PM has made efforts to improve communications to the DOE SME's including clarifying DOE tasks that are on the critical path. The DOE PMO has stepped up their own efforts to assist the SI PM with coordination and communications. Wolf recommends the SI continue to offload SI PMS responsibilities so they can focus on effective, detailed management of the project, and consider augmenting the team with another resource to manage the project schedule.					
					09/15/20 - DOE stakeholders have noted that while SI PM practices have improved, they continue to see other project management practices that are less than optimal and have not met DOE expectations. For example, DOE SME's continue to report that tracking of meeting minutes, action items, and decisions are inconsistent, and SI doesn't always provide dear direction or prioritization on DOE tasks. With the potential schedule extension, the project hopes that these conditions and practices will improve once the project team has more time to shore up their PM practices. IX2V is also concerned the SI project manager may be at risk of becoming					
9 Security mo complex	del - 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 duites, 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 BUX. 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: 85ecurity is too restrictive and hinders their ability to be productive and do their job 25ecurity is coverly permissive and privileged information is visible to other groups that do not have a business need for the data RUser provisioning maintenance is overly complex and/or labor intensive	SI make efforts to fully yet the proposed security model with multiple Oracle financials cloud security strategy experts prior to implementation. Make early OCM efforts to manage expectations based on potential limitations of the security model as they relate to business objectives. DOE establish clear controls with regard to segregation of duties and least privilege permissions.	12/15/20 - Security model changes continue to be implemented throughout ST which has led to tests being invalidated and multiple retests by DO Enters. It appears the security model was not thoroughly unit tested prior to implementation into the ST environment. IN&V continues to recommend DOE request the SI augment their team with OF security experts to validate the sourcity ended and implementation strategies prior to UAT. The single SI security reduces the team with out the security reduces the validate the bypassing some unit testing and relaxen management processes. The SI Engagement Manager is now assisting the single SI security resource with security activities and with addressing outstanding security issues and complications with the security activities and with addressing	Architecture &	Risk	Medium	Open	7/29/2020
			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 other Oracle Financials cloud security experts could lead a lest stan 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.		issues are not resolved soon, the project schedule could be delayed. 11/15/20 - The SI has made progress in clarifying the security model for DOE leadership. DOE and IV&V remains concerned with the level of effort to accurately implement and maintain the proposed security model, and whether security configuration delays will impact timely completion of SIT. Further, it remains unclear if the security model will fully support segregation of duties, protection of assets, and protection against fraud.					
					10/15/20 - The SI continues to make efforts to clarify the security model for DOE and has scheduled Knowledge Transfer (KT) sessions for DOE support staff who will be implementing user provisioning for the system post polive. It remains unclear if system security implementation activities have been fully productive as security milestones have slipped and the project will enter ST without some security components. Given this slipped, It remains unclear why the single SI resource responsible for security configuration has recently been assigned to prepare and perform KT sessions 2 hours a day for 4-5 days. IX8V is escalating this finding to a Medium risk. The SI has stated that though the security buildout has been delayed, they have					
					made progress in simplifying the security model to improve ease of security management. 09/15/20 - The SI has made efforts to better articulate the system security and user provisioning strategy/model, and held a security overview session for DOE security stakeholders. While this has reportedly provided good details of the security framework, DOE leadership has remaining concerns that additional details will need to be provided and hands on activities as well as OF security tool training will need to be concluded in order for the DOE IT team to effectively perform expected tasks. DOE leadership has reported that it remains unclear whether the					

ld Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
10 Release management	Inadequate release management processes could lead to significant rework and schedule delays	Due to existing Oracle Financials cloud limitations, upbad of data is often difficult back out. Errors make during data updads can either require manual data entry corrections or an environment referability will likely take 3 weeks. During initial uploads to the development environment, the wong version of all use un sitaken/uploaded which created some disruption of development activities.	Due to limitations of the DF cloud limitations, back out of bad data or configurations in on 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 previous state, however, an OF refresh will likely take 3 weeks, which part of release management processe, mistakes that are made by both DDC and the 51 can be difficult back out. Lack of clar upload file wrisioning 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 sippage. 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, release procedures lack sufficient rigor, the likelihood of missteps may increase. Missteps during testing or go-live could lead to user confusion, etaded user buyin, 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").		b1/15/20- The SI continues to experience release management challenges. Recently, the worker interface (like was updaded into the SI or environment without notifying the DOE tast last, effectively invalidating their tests without notice. The testing lead happened to recognize the problem when they were re-running a test script and noticed different results due to the hange in the worker data. With multiple members of the project team working at or beyond capacity, testing coordination has become difficult and led to testing missapps. IV&V remains concerned that SI unit testing more binadquests as they run to complete tasks. Failure to fully unit test configurations/code pushes the burden of finding bags onto the ODE testing team who is already operating at capacity. IV&V recomments ODE request the SI improve their nut testing efforts. Previous SI release management challenges continue to create problems (incorrect data formats) for interface development as the system does not allow developers to easily back out incorrect configurations. 11/15/20. The SI continues to have some challenges with ensuring their leads are consistently following release management processes and keeping DOE/SW sell informed of their release management activities. DOE and W&V remains concerned with the quality of SI implementation activities and the sinary not have sufficient quality assurance processes in place for system configuration activities. DOE and W&V remains concerned with the quality of SI implementation activities and the aviving once challenges with ensuring they are consistently following release the aviving some challenges with ensuring they are consistently following release the aviving they are consistently following release the aviving some challenges with ensuring they are consistently following release the aviving some challenges with ensuring they are consistent for they admittedly are having some challenges with ensuring they are consistent (JOE SWE's have raleed gone goars) in inputting data	Quality Management	Issue	Medium	Open	7/31/2020
11 Long term support	Insufficient knowledge transfer and M&O planning 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 polt op-live support requirements have yet to be clarified and agreed to between the SI and ODE. Further, DDE expectations for the SI to train their 1 staff have not been met. The ODE IT group currently has some interface development project responsibilities and DDE's expectation was that the SI would provide sufficient knowledge transfer (KT) on Oracle Financials (DF) and Oracle Integration Cloud (DC) in order to perform these tasks in a timely manner as well as meet supectations for DDE post go-live support responsibilities. DDE was stated their spectation that DDE ODE expectations that. The SI has stated their soft KT has not met DDE expectations that. The SI has stated they are not contractually obligated to formally train the DDE IT staff on the technology.	If the DDE 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 silppage. 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 DDE IT group with DF skillesc could leave DDE 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.	• DOE develop a resource management plan to address gaps in their existing their existing IT team to ensure they are able to meet expectations for project implementation and post go-live support. • DOE explore seeking legislative exemptions to acquire experienced Tracle Financials (OP) resources to fill gaps on their IT staff as soon as possible to reduce dependence on vendors to support the system and to fill current skillest gaps and capacity constraints with existing DOE IT resources. A Consider preparing return on investment (R0) data to present to the legislature that could clearly justify the cost of highly provide cost awings to the state compared to the cost of equivalent vendor support contracts.	module), the automated creation of a purchase order failed, and they were not able to 12/51/20 - The DED If teams in single efforts to pragers for post gol-lee support and remains concerned the complexity of the security model could make it difficult to support. While details for pot gol-lee support DDE/Sr responsibilities have yet to be carliefd, the Sha begun work on M&O plan. The SI has strated they plan to garmer lessons learned as the project progresses to help determine the recommended levels of support. 11/15/20 - 1V&V and DOE leadership remains concerned with the level of effort required for DOE to perform post go-live regression testing to test quarterly updates. They also remain concerned that busic could be introduced that are not caught in regression testing post pol-live support DDE/Sr response and avertently promoted to the production environment, which could quickly overwhelm DDE resources as they work to correct or provide dequate work arounds. DOE is in the process of evaluating automated testing tools hour downledge Transfer (KT) sessions for the DDE support taff who will be performing system user provisioning tasks post go-live. The project has influted Maintenance & Operations (M&O) meetings to begin planning for post go-live system support.	Project Organization & Management	Risk	Medium	Open	8/17/2020

ld Short Desc	Title / Summary	Finding Description	Analysis and Significance	Recommendation	Updates	Category	Туре	Priority	Status	Identified Date
12 Testing	and planning could lead to poor test quality, including	N&V has observed some unproductive test preparation work sessions and some confusion annue the project team methers as some elements of the test strategy and plan are unclear on role wild defined. At times, it appears the S 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 may to expecilicated. The SI test Lead, and the SI PM may to expecilicate the SI Test Lead, despite concerns that the SI PM may to expecilicated. It is under 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 SI without some system components being (fully operational shift) could, A juruet in incomplete testing and, B jinvalidate test results for functionality that has been previously tested.	Delays and unproductive test preparation sessions could lead to schedule delay once the project realizes they are not ready for SIT and UAT testing phase. If the SL cannot fetticively leverage their testing expertise to offer guidance to the DOE testing team. DOE testing stakeholders could find themselves unprepared for SIT and UAT phases, which could lead to schedule delays. If the project, A) does not clearly define SIT or UAT entrance criteria and/or 8) enters SIT or UAT phases without some system components being fully operational, the value of the project testing phases could be significantly reduced and lead to exercisive bags, overcomplicated testing, a solution that cannot perform the required or necessary functionality, and ultimately extend the project schedule.	Clarify and fully vet the testing strategy and plans for DOE leads and stakeholders. Develop and implement a robust regression test methodology. Develop and implement an efficient process for updating/refining test scripts based on tester.	12/15/20 - DOE has indicated that the S1 testing approach and S1 produced test script quality has not met DOE expectations. The DOE Test Lead has noted multiple shifts in approach, imfliciencies, and consing procedures. Testers have noted multiple shifts in approach, and met DOE expectations. The OOE Test Lead has noted multiple shifts in approach, and met DOE expectations. This could be an increase in the test services are more and spelling errors and have complained that scripts lack sufficient instructions or important step execution details. This has let do an increase in the test semas workload as they struggle to follow some script instructions. This could also lead to testers marking a test as successful when lis not. It appears the S1 test scripts were not reviewed (prooffead or QAI by the S1 prior to delivery to the DOE test team and may not have been used for S1 unit testing, a Common practice or sure test script quality. Further, testers have reported instances where they were given test scripts that tested functionality that had not been fully implemented in the system. The project has elected to forego revising the test scripts throughout S1T due to time constraints, but plans to revise them before the start of UAT. DOE has accepted this risk in order to keep with their aggressive schedule. 11/15/20 - The S1 has recently added an additional resource to lead the testing effort, however, it appears that the S1PM continues to lead testing. If testing leadership is stretched too thin, the raised concerns with the quality of S1 produced test scripts and the process for continuous improvement of testing scripts remains unclear and may not be adequate. The project schedule could slip or the sting scripts remains unclear and may not be adequate. The project schedule could slip or the science of the remains unclear and may not be advecated. DE testers have raised scons and/or excessive bugs are realized late into S1T. We tremains concerned that this could negatively inpact the quality of	Quality Management	Risk	Medium	Open	9/15/202
13 Antiquated systems	Integration with older (onfluquated technology) systems could be unexpectedly complicated and lead to schedule delays	The project currently has requirements to integrate with older systems that often lack systems that the new PMS must interface with are based on doler technology that may be incompatible with new technology and can be difficult to integrate with. Many systems have accumulated a significant anoun (decades in some instance) of technical debt, reportedly due to lack of funding and technical team capacity. For example, it has been reported that packting for many systems are severely out of date and may run on Operating Systems or other software technology/hoods that are no longer supported by the vendor Many of these systems no longer have system experts because support at far have moved on or relined, and documentation and/or knowledge transfer upon their departure may not have been sufficient. Documentation for many alder systems is reportedly missing or incomplete.	antiguated 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 system have accumulated over the years and the lack of system patching, the system could open the FMS replacement system, other connected systems, and the DEt on undue system failure risks. If any of these antiquated DDE system fail during project execution, project resources (who are already at capacity) will likely have to be railocated towards repair and recovery of these	 Consider petitioning the State leadership for additional funding to resolve technical debt that could be putting the project and the State at risk of potentially embarrassing and costly security breaches and/or critical system failures. Consider prioritating patching and system upgrades to stabilize boundary systems. Perform early discovery and due diligence to identify potential complications with integrating with older systems. Consider implementing early, basic proof of concept interfacing with older systems to assure integration is feasible and to vet optimal interface solutions. 	12/15/20 - Interface's continue to face delays and are likely to continue to cause schedule slippage. Interfaces with external systems continues to be a challenge of the project. It remains unclear why the DAGS payroll system interfaces has been delayed. Concerns have been raised that outbound interface testing could be hindreed' letternal stakeholders are unavailable or unesponsive. For example, the project has yet to get a clear answer with regards to p-card migration from Bank of Hawaii to First Hawaiian Bank. Delays like this could lead to project delays. 11/15/20 - The project is continuing efforts to modernize the DAGS payroll system interface; however, it remains unclear whether delays will be introduced due to DAGS limited capacity to support this effort. 10/62/20 - The project has identified at least one existing incoming boundary system interface that they will be making efforts to modernize as a means to decouple from the mainframe and simplify ongoing MAG efforts. The interface currently utilizes an antiquated encoding format (EBCDIC) and inefficient processing steps. The project is working with DAGS payroll to coordinate modernization efforts, but the level of effort has yet to be clarified.	System Architecture & Design	Risk	Medium	Upen	9/15/202