



Performance Audit

AASHTOWare Project Construction and Materials (APCM)

Michigan Department of Transportation (MDOT) and Department of Technology, Management, and Budget (DTMB)

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MDOT manages the life cycle of the construction project beginning with initial project design and specifications, continuing through the bid letting and contract award process, and ending with the execution of the job site construction activities. The current software suite manages a majority of the construction contracts and processes over \$1.9 billion in construction project payments.

Because MDOT plans to sunset the current software suite, it began using AASHTOWare Project. MDOT uses two of the AASHTOWare Project modules: APCM and AASHTOWare Project Preconstruction. This audit focused on the APCM module, which documents the daily project work and compiles the biweekly payments to construction contractors. As of June 13, 2023, APCM managed approximately \$144 million in construction contracts and had approximately 500 users. MDOT's long-term goal is for APCM to manage all construction contracts and payments.

Audit Objective			Conclusion
Objective 1: To assess the effectiveness of selected APCM access controls.			Not effective
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
MDOT's monitoring of user access excluded 67% of APCM users. Also, access was not removed for 49% of users with inactivity greater than a year, and 83% of transferred or terminated State of Michigan users did not have access removed timely (Finding 1).	X		Agrees
Of sampled users, 70% did not have user access forms and for those with forms, 100% lacked approved access documentation. Also, MDOT granted 11% of the sampled high-risk users inappropriate access and had not defined incompatible user roles (Finding 2).	X		Agrees

Audit Objective			Conclusion
Objective 2: To assess the effectiveness of MDOT and DTMB's efforts to implement controls over APCM interfaces.			Effective
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
None reported.		Not applicable.	

Audit Objective			Conclusion
Objective 3: To assess the effectiveness of MDOT and DTMB's efforts to implement change controls over the APCM application and data.			Effective
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
MDOT and DTMB did not maintain documentation for 95% of system integration testing, 97% of user acceptance testing, and 100% of post-implementation validation (<u>Finding 3</u>).		X	Disagrees

Audit Objective			Conclusion
Objective 4: To assess the sufficiency of MDOT's efforts to ensure the accuracy of construction records within APCM.			Sufficient
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
None reported.		Not applicable.	

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