Supplemental Project Notice

TRANSMISSION ASSET MANAGEMENT IMPLEMENTATION MATURITY ASSESSMENT (TAMIMM)

PROJECT HIGHLIGHTS

- Identified strengths and areas for improvement
- Methodology specifically developed for electric transmission
- Specific, actionable, improvement recommendations

Background, Objectives, and New Learnings

Transmission asset management is a systematic, consistent, and repeatable approach that integrates people, procedures, processes, and technologies to help the organization achieve its strategic objectives. Utilities desire to better understand the quality of their asset management program implementations.

A mature asset management implementation needs a well-defined strategy, plans to implement the strategy and track progress, processes, and procedures to implement the plans and manage data registries. Several questions need to be answered as part of the current state assessment. For example:

- Are the people and processes in place to support the program?
- Is all the data available to make informed decisions?
- Do we understand the risks associated with our asset portfolio?
- Is our maintenance function integrated into strategy and decision making?
- Are practices in place to promote continuous improvement?

To meet this challenge, EPRI has developed a comprehensive method to help a transmission utility assess the current state of its asset management program implementation.

The objective of this project is to apply a comprehensive, electric transmission specific, asset management maturity assessment methodology to help transmission utilities:

- Understand their capability to successfully implement critical aspects of a comprehensive asset management program.
- Identify gaps in their current implementation.
- Project a future state according to current plans.
- Benchmark their implementation against aggregate anonymous results from peers.

This project intends to utilize a set of criteria developed to minimize subjectivity that evaluates the maturity of an electric transmission company's asset management program in key areas including:

- Governance and strategy
- Condition, performance, and risk management
- Lifecycle management, maintenance, and budgeting

The assessment results will assist the participating companies in making continuous improvements to their asset management programs, strategic goals and objectives. It will also enable them to benchmark performance in comparison to their peers.

Benefits

The findings of this research will be of value to electric transmission companies because it will provide them with subject matter focused assessments of their own asset management programs and identify areas for improvement. Successfully executed, the results of this research will enable organizations to improve performance towards achieving corporate objectives related to reliability, cost, risk, safety, and environmental performance.

Project Approach and Summary

The Transmission Asset Management Implementation Maturity Model (TAMIMM) is built on the responses to a set of very specific questions chosen to address electric transmission asset management circumstances. These responses are then combined in an algorithm to provide metrics in several categories of the implementation state (maturity) of important elements that are required for best-practices transmission asset management.

The model is administered and facilitated on-site by subject matter experts who engage with selected company personnel. A workshop intended to educate participants on the foundation elements in the model is held to ensure the correct personnel are involved during data gathering for each of the key assessment categories. Interviews then are scheduled and conducted to obtain responses to the applicable set of questions for the topic of that session. The on-site assessment data collection phase is complete once all interviews have concluded and the questions for all model categories have been answered.

The EPRI team enters interview responses into a set of algorithms that provide metrics that indicate the maturity of the company's asset management program in each of the model categories. A final report is developed and delivered to the organization including targeted recommendations to assist them in addressing gaps and areas identified for improvement. A comparison to the assessment results of other participants will be available for the purpose of shared learning and collaboration.

Deliverables

- Kick-off workshop explaining assessment goals and objectives; set scope
- In-person meetings to gather assessment inputs
- Asset Management Program Implementation Assessment Report
- Workshop to present findings, discuss gaps and how they may be bridged

Price of Project

This is a one-on-one member specific scope dependent project. Estimated cost ranges from $75,000 - $175,000. Utilities may also elect to adopt a phased approach.

Who Should Join

Electric transmission organizations interested in gaining insight into their current and future asset management program capabilities for the purposes of implementing or improving their ability to operate safely, meet regulatory obligations, evaluate future business strategies for the delivery of differing performance, cost, and risk tolerance levels, and significantly reduce the cost of asset lifecycle.

Contact Information

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