

Asset Management Plans

Improving System Performance
Are we there yet?

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What is Asset Management?

- From 23 USC 101(a)(2): “a strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on engineering and economic analysis based upon quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the lifecycle of the assets at minimum practicable cost.”

Asset Management Infrastructure Condition

- Goal: Maintain the highway infrastructure asset system in a state of good repair.
 - Manage your network for the long term at the minimum practicable cost to:
 - improve or preserve asset condition and system performance.
 - manage risk.
 - Short-term performance measures and targets are key indicators.

Risk-based Asset Management Plan

- Plan Contents:
 - Pavement and bridge inventory and conditions.
 - Objectives and measures.
 - Performance gap identification.
 - Lifecycle planning
 - Risk management analysis.
 - Financial plan.
 - Investment strategies.

The financial plan process must, at a minimum [23 CFR 515.7(d)]:

- Identify annual costs over a minimum period of 10 years;
- Include the estimated cost of expected future work to implement investment strategies contained in the asset management plan, by fiscal year and work type;
- Estimate funding levels that are expected to be reasonably available, by fiscal year, to address the costs of future work types:

The financial plan process must, at a minimum:

- Identify anticipated funding sources; and
- Estimate value of the agency's pavement and bridge assets and the needed investment on an annual basis to maintain the value of these assets.

TAMP investment strategies should collectively make or support progress toward:

- achieving and sustaining a desired state of good repair over the life cycle of the assets.
- improving or preserving the condition of the assets and the performance of the system relating to physical assets.
- achieving the Agency's targets for asset condition and performance of the NHS in accordance with 23 USC 150(d).
- achieving the national goals identified in 23 USC 150(b).

Management Systems

- Minimum standards for Agencies to use in developing and operating bridge management systems and pavement management systems.
- Agencies to use bridge and pavement management systems to analyze asset conditions to develop and implement Risk-based Asset Management Plans.

Management Systems – requirements

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- (a) Collecting, processing, storing, and updating inventory and condition data for all NHS pavement and bridge assets.
- (b) Forecasting deterioration;
- (c) Determining the benefit-cost over the life cycle of assets to evaluate alternative actions (including no action decisions), for managing the condition of NHS pavement and bridge assets;
- (d) Identifying short- and long-term budget needs;
- (e) Determining the strategies for identifying potential NHS pavement and bridge projects that maximize overall program benefits within the financial constraints.; and
- (f) Recommending programs and implementation schedules to manage the condition of NHS pavement and bridge assets within policy and budget constraints.

Timeline

- A Lot of Work to Do

- Initial TAMP – April 30, 2018
- Fully Compliant TAMP – June 30, 2019
 - These dates are for just getting the original document submitted

- Our challenges
 - Infrastructure Condition? Whole-Life Planning? Risk Management? Finance Plans? Investment Strategies?

Timeline Part 2

- Strategic Direction
 - i.e. Keeping Good Roads Good! Is everyone on board?
 - Upper Management? Division / Region Directors? Field Staff?
- Organizations structure
 - In part the TAMP is about CHANGING the organization's culture
 - Care and Feeding over the whole-life of the assets
 - No long just build / expand
 - Focus on whole-life (ten year window)
 - Is your TAMP a change agent or a door stop?

Timeline Part 3

- Achieving Measures and Targets
- Implementation Plan
- Pavement Management System
- Bridge Management System
 - Minimum standards
 - Link to TAMP
- Where does your agency need help?
 - Training – Workshops – webinars?

Measuring Success

- What about those measures and targets?
- Are they achievable?
- Do they need to be tweaked?
- Who? How? When?

- Do you have an identified process to update your TAMP?
 - Update on 4-year cycle or as needed

- Future Training Needs
 - Workshops – Webinars -



QUESTIONS



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