

§ 970.202 Applicability.

The provisions in this subpart are applicable to the NPS and the Federal Highway Administration (FHWA) that are responsible for satisfying these requirements for management systems pursuant to 23 U.S.C. 204.

§ 970.204 Management systems requirements.

(a) The NPS shall develop, establish and implement the management systems as described in this subpart. The NPS may tailor all management systems to meet the NPS goals, policies, and needs using professional engineering and planning judgment to determine the required nature and extent of systems coverage consistent with the intent and requirements of this rule. The management systems also shall be developed so they assist in meeting the goals and measures that were jointly developed by the FHWA and the NPS in response to the Government Performance and Results Act of 1993 (Pub. L. 103-62, 107 Stat. 285).

(b) The NPS and the FHWA shall develop an implementation plan for each of the management systems. These plans will include, but are not limited to, the following: Overall goals and policies concerning the management systems, each agency's responsibilities for developing and implementing the management systems, implementation schedule, data sources, and cost estimate. The FHWA will provide the NPS ongoing technical engineering support for the development, implementation, and maintenance of the management systems.

(c) The NPS shall develop and implement procedures for the development, establishment, implementation and operation of management systems. The procedures shall include:

(1) A process for ensuring the outputs of the management systems are considered in the development of NPS transportation plans and PRPTIPs and in making project selection decisions under 23 U.S.C. 204;

(2) A process for the analysis and coordination of all management system outputs to systematically operate, maintain, and upgrade existing transportation assets cost-effectively;

(3) A description of each management system;

(4) A process to operate and maintain the management systems and their associated databases; and

(5) A process for data collection, processing, analysis and updating for each management system.

(d) All management systems will use databases with a geographical reference system that can be used to geolocate all database information.

(e) Existing data sources may be used by the NPS to the maximum extent possible to meet the management system requirements.

(f) The NPS shall develop an appropriate means to evaluate the effectiveness of the management systems in enhancing transportation investment decision-making and improving the overall efficiency of the affected transportation systems and facilities. This evaluation is to be conducted periodically, preferably as part of the NPS planning process.

(g) The management systems shall be operated so investment decisions based on management system outputs can be considered at the national, regional, and park levels.

§ 970.206 Funds for establishment, development, and implementation of the systems.

The Park Roads and Parkways program funds may be used for development, establishment, and implementation of the management systems. These funds are to be administered in accordance with the procedures and requirements applicable to the funds.

§ 970.208 Federal lands pavement management system (PMS).

In addition to the requirements provided in § 970.204, the PMS must meet the following requirements:

(a) The NPS shall have PMS coverage of all paved park roads, parkways, parking areas and other associated facilities, as appropriate, that are funded under the FLHP.

(b) The PMS may be utilized at various levels of technical complexity depending on the nature of the transportation network. These different levels may depend on mileage, functional

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classes, volumes, loading, usage, surface type, or other criteria the NPS deems appropriate.

(c) The PMS shall be designed to fit the NPS goals, policies, criteria, and needs using the following components, at a minimum, as a basic framework for a PMS:

(1) A database and an ongoing program for the collection and maintenance of the inventory, inspection, cost, and supplemental data needed to support the PMS. The minimum PMS database shall include:

(i) An inventory of the physical pavement features including the number of lanes, length, width, surface type, functional classification, and shoulder information;

(ii) A history of project dates and types of construction, reconstruction, rehabilitation, and preventive maintenance. If some of the inventory or historic data is difficult to establish, it may be collected when preservation or reconstruction work is performed;

(iii) Condition data that includes roughness, distress, rutting, and surface friction (as appropriate);

(iv) Traffic information including volumes and vehicle classification (as appropriate); and

(v) Data for estimating the costs of actions.

(2) A system for applying network level analytical procedures that are capable of analyzing data for all park roads, parkways and other appropriate associated facilities in the inventory or any subset. The minimum analyses shall include:

(i) A pavement condition analysis that includes roughness, distress, rutting, and surface friction (as appropriate);

(ii) A pavement performance analysis that includes present and predicted performance and an estimate of the remaining service life (performance and remaining service life to be developed with time); and

(iii) An investment analysis that:

(A) Identifies alternative strategies to improve pavement conditions;

(B) Estimates costs of any pavement improvement strategy;

(C) Determines maintenance, repair, and rehabilitation strategies for pave-

ments using life-cycle cost analysis or a comparable procedure;

(D) Provides for short and long term budget forecasting; and

(E) Recommends optimal allocation of limited funds by developing a prioritized list of candidate projects over a predefined planning horizon (both short and long term).

(d) For any park roads, parkways and other appropriate associated facilities in the inventory or subset thereof, PMS reporting requirements shall include, but are not limited to, percentage of roads in good, fair, and poor condition.

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§970.210 Federal lands bridge management system (BMS).

In addition to the requirements provided in §970.204, the BMS must meet the following requirements:

(a) The NPS shall have a BMS for the bridges which are under the NPS jurisdiction, funded under the FLHP, and required to be inventoried and inspected as prescribed by 23 U.S.C. 144.

(b) The BMS shall be designed to fit the NPS goals, policies, criteria, and needs using, as a minimum, the following components:

(1) A database and an ongoing program for the collection and maintenance of the inventory, inspection, cost, and supplemental data needed to support the BMS. The minimum BMS database shall include:

(i) Data described by the inventory section of the National Bridge Inspection Standards (23 CFR part 650, subpart C);

(ii) Data characterizing the severity and extent of deterioration of bridge elements;

(iii) Data for estimating the cost of improvement actions;

(iv) Traffic information including volumes and other pertinent information; and

(v) A history of conditions and actions taken on each bridge, excluding minor or incidental maintenance.

(2) A system for applying network level analytical procedures that are capable of analyzing data for all bridges in the inventory or any subset. The minimum analyses shall include: