

estimated costs, prediction of the estimated remaining life of the bridge, development of a prioritized list of candidate projects over a specified planning horizon, and budget forecasting.

(c) For any bridge in the inventory or subset thereof, BMS reporting requirements shall include, but are not limited to, percentage of non-deficient bridges.

#### **§ 972.212 Federal lands Safety Management System (SMS).**

In addition to the requirements provided in § 972.204, the SMS must meet the following requirements:

(a) The FWS shall have an SMS for all transportation facilities serving the Refuge System, as appropriate, funded under the FLHP.

(b) The FWS SMS may be based on the guidance in "Safety Management Systems: Good Practices for Development and Implementation,"<sup>3</sup>

(c) The FWS shall utilize the SMS to ensure that safety is considered and implemented as appropriate in all phases of transportation system planning, design, construction, maintenance, and operations.

(d) The SMS may be utilized at various levels of complexity depending on the nature of the facility involved.

(e) The SMS shall be designed to fit the FWS goals, policies, criteria, and needs using, as a minimum, the following components as a basic framework for a SMS:

(1) An ongoing program for the collection, maintenance and reporting of a database that includes:

(i) Accident records with sufficient detail for analysis such as accident type using standard reporting descriptions (e.g. right-angle, rear-end, head-on, pedestrian-related, etc.), location, description of event, severity, weather and cause;

(ii) An inventory of safety appurtenances such as signs, delineators, and guardrails (including terminals);

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

(iv) Accident rates by customary criteria such as location, roadway

classification, and vehicle miles of travel.

(2) Development, establishment and implementation of procedures for:

(i) Routinely maintaining and upgrading safety appurtenances including highway-rail crossing warning devices, signs, highway elements, and operational features where appropriate; and

(ii) Identifying and investigating hazardous or potentially hazardous transportation system safety problems, roadway locations and features, then establishing countermeasures and setting priorities to correct the identified hazards and potential hazards;

(3) A process for communication, coordination, and cooperation among the organizations responsible for the roadway, human, and vehicle safety elements; and

(4) Development and implementation of public information and education activities on safety needs, programs, and countermeasures which affect safety on the FWS transportation systems.

(f) While the SMS applies to appropriate transportation facilities serving the Refuge System funded under the FLHP, the extent of system requirements (e.g., data collection, analyses, and standards) for low volume roads may be tailored to be consistent with the functional classification of the roads. However, adequate detail should be included for each functional classification to provide for effective inclusion of safety decisions in the administration of transportation by the FWS.

#### **§ 972.214 Federal lands Congestion Management System (CMS).**

(a) For purposes of this section, congestion means the level at which transportation system performance is no longer acceptable due to traffic interference. For those FWS transportation systems that require a CMS, in both metropolitan and non-metropolitan areas, consideration shall be given to strategies that reduce private automobile travel and improve existing transportation system efficiency. Approaches may include the use of alternate mode studies and implementation plans as components of the CMS. The FWS shall consider the results of the CMS when selecting the implementation of strategies that provide the most efficient and effective use of existing and future transportation facilities, and alleviate congestion.

(b) In addition to the requirements provided in § 972.204, the CMS must meet the following requirements:

(1) For portions of the FWS transportation system within TMAs, the FWS transportation planning process shall include a CMS that meets the requirements of this section. By agreement between the TMA and the FWS, the TMA's CMS coverage may include the transportation facilities serving the Refuge System, as appropriate. Through this agreement(s), the FWS may meet the requirements of this section.

(2) If a TMA's CMS does not provide coverage of the portions of the FWS transportation facilities within the boundaries of the TMA, the FWS shall develop a separate CMS to cover those facilities within the boundaries of the TMA.

(3) For portions of the FWS transportation system outside the boundaries of TMA's, the FWS shall:

(i) Develop criteria to determine when a CMS is to be implemented for a specific transportation system; and

(ii) Have CMS coverage for all transportation facilities serving the Refuge System, as appropriate, funded through the FLHP that meet minimum CMS needs criteria.

(4) A CMS will:

(i) Identify and document measures for congestion (e.g., level of service);

(ii) Identify the causes of congestion;

(iii) Include processes for evaluating the cost and effectiveness of alternative strategies to manage congestion;

(iv) Identify the anticipated benefits of appropriate alternative traditional and nontraditional congestion management strategies;

(v) Determine methods to monitor and evaluate the performance of the multi-modal transportation system;

(vi) Appropriately consider the following example categories of strategies, or combinations of strategies for each area:

(A) Transportation demand management measures;

(B) Traffic operational improvements;

(C) Public transportation improvements;

(D) ITS technologies;

(E) Additional system capacity; and

(vii) Provide information supporting the implementation of actions.

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<sup>3</sup> "Safety Management Systems: Good Practices for Development and Implementation," FHWA and NHTSA, May 1996, may be obtained at the FHWA, Office of Safety, Room 3407, 400 Seventh St., SW., Washington, DC 20590, or electronically at <http://safety.fhwa.dot.gov/media/documents.htm>. It is available for inspection and copying as prescribed as 49 CFR part 7.