

Essential Elements of Railroad Bridge Management Programs

- 1 Assignment of responsibility for decisions regarding integrity of structures.
- 2 Have a bridge inventory that indicates party responsible for management of each bridge.
 - 2.1 Identify each bridge by milepost location or other unique identifier.
 - 2.2 The location (city, if applicable & state).
 - 2.3 What the bridge crosses.
 - 2.4 Number of tracks.
 - 2.5 Number of spans.
 - 2.6 Span length.
 - 2.7 Type(s) of construction of the
 - 2.7.1 Substructure.
 - 2.7.2 Superstructure.
 - 2.7.3 Deck.
 - 2.8 Overall length.
 - 2.9 Dates of:
 - 2.9.1 Construction.
 - 2.9.2 Major renovation.
 - 2.9.3 Strengthening.
- 3 Known capacity of railroad bridges as determined by rating by competent engineer or by design documents.
- 4 Procedures for the control of movement of high, wide or heavy loads exceeding the nominal capacity of bridges
- 5 Maintenance of permanent records of design, construction, modification, and repair
- 6 Railroad specific procedures for design and rating of bridges
- 7 Inspection of railroad bridges
 - 7.1 Inspector Qualifications
 - 7.1.1 Bridge experience or appropriate educational training
 - 7.1.2 Trained on bridge inspection procedures
 - 7.1.3 Trained on Railroad Workplace Safety
 - 7.2 Type and frequency of inspection
 - 7.2.1 Periodic (at least annually)
 - 7.2.2 Underwater
 - 7.2.3 Special
 - 7.2.4 Seismic
 - 7.2.5 Cursory inspections of overhead bridges that are not the responsibility of the railroad.
 - 7.3 Inspection schedule
 - 7.4 Documentation
 - 7.4.1 Date
 - 7.4.2 Name of inspector
 - 7.4.3 Reporting Format
 - 7.4.4 Coherence of information
 - 7.5 Inspection Report Review Process
 - 7.6 Record retention

- 7.7 Tracking of critical deficiencies to resolution
- 8 Protection of train operations following an inspection noting a critical deficiency, repair, modification or adverse event
- 8.1 Qualifications of personnel permitted to authorize train operations.
- 9 Program audit procedures