

Electrical Maintenance Plan (EMP)

70B Support Services

A practical framework for electrical maintenance

NFPA 70B provides a structured approach to electrical maintenance based on equipment, operating conditions, and risk. An effective Electrical Maintenance Program (EMP) translates these requirements into a practical framework for managing maintenance activities across a facility or organization.

An EMP establishes clear expectations for what equipment should be maintained, how maintenance activities should be managed, who is responsible, and what documentation should be maintained.



Overview

NFPA 70B has evolved from a recommended practice to a standard, bringing greater focus to how electrical equipment maintenance, documentation, risk assessment, and ongoing program management are established and maintained. This change is impacting facilities with electrical infrastructure by placing greater emphasis on having a documented, structured approach to maintaining electrical equipment. An Electrical Maintenance Program (EMP) translates applicable requirements into a practical, facility-specific maintenance strategy. It considers the facility's electrical equipment, operating environment, existing conditions, and maintenance needs to establish what equipment should be maintained, what activities should be performed, and when they should occur. The EMP also provides a documented framework for assigning responsibilities, planning and managing maintenance activities, and maintaining the records needed to support an ongoing electrical maintenance program.

Electrical Maintenance Plan includes:

- Review of available electrical documentation and equipment information
- Identification and organization of applicable electrical equipment and equipment categories
- Development of maintenance, inspection, and testing requirements
- Maintenance frequency and task recommendations based on applicable requirements, manufacturer information, and operating considerations
- Defined roles and responsibilities for maintenance activities
- Documentation and recordkeeping requirements
- Corrective action and management of change considerations
- Customized Electrical Maintenance Plan document
- Guidance for maintaining and updating the program as equipment and site conditions change

Additional 70B Support Services

- **Governing Policy:** Establishes the organization-wide framework and expectations for the Electrical Maintenance Program, including maintenance responsibilities, processes, documentation, and program requirements.
- **Site Audit:** Reviews existing maintenance practices, documentation, and program readiness against applicable NFPA 70B considerations to identify observations, gaps, and opportunities for improvement.

Summary

An Electrical Maintenance Plan turns the principles of NFPA 70B into a practical framework for managing electrical maintenance. By documenting what equipment is covered, what maintenance activities are expected, who is responsible, and how activities should be documented, organizations can establish a consistent approach to electrical maintenance.

ERS brings practical electrical maintenance experience and NFPA expertise to help organizations develop programs that reflect their equipment, operations, and maintenance needs.

Next level reliability

To learn more about ERS 70B Support Services, please contact us at 1 (877) 468-6384 or visit www.electricalreliabilityservices.com