SUBPART 2.18
Quality Assurance Requirements for Maintenance of Nuclear Facilities

100 GENERAL

Subpart 2.18 provides amplified requirements for the maintenance of nuclear facility components and systems. Maintenance consists of actions necessary to maintain or restore an item to acceptable conditions. This Subpart supplements the requirements of Part I and shall be used in conjunction with applicable sections of Part I when, and to the extent specified by the organization invoking Subpart 2.18. This Subpart does not apply to controlling modifications that may be determined to be needed during the performance of maintenance.

200 GENERAL REQUIREMENTS

Design or modification information shall be available to the operating organization so that it can review the adequacy of provisions for the maintenance program in accordance with the requirements of Subpart 2.18.

201 Responsibilities

Responsibilities shall be assigned for establishing and implementing the maintenance program. These responsibilities shall include:

(a) the review of the maintenance program to ensure that changes to plant design or modifications are taken into consideration;

(b) the development and updating of appropriate maintenance plans, procedures, and schedules;

(c) the review of planned maintenance activities to ensure that radiation exposures to personnel will be as slow as reasonably achievable;

(d) the conduct of the program of maintenance activities and other inspections and tests as necessary to verify satisfactory performance;

(e) the assurance that activities are performed by qualified personnel, using approved processes and calibrated test equipment and tools;

(f) the assurance that properly controlled and identified materials are used;

(g) the assurance that environmental or seismic qualification requirements of equipment are not compromised;

(h) the development of provisions for installation and removal of temporary conditions (e.g., jumpers, transferring of control switch positions) and returning equipment and systems to service;

(i) the recording of all maintenance examination and test results including corrective actions required and actions taken;

(j) the assessment and evaluation of the results of maintenance, examinations, postmaintenance tests, and equipment history;

(k) the development and trending of performance indicators;

(l) the retention of records.

202 Procedures

(a) Procedures and/or written instructions shall be established for performance of maintenance activities. Requirements for procedure format and content shall be established. Additional guidance regarding procedural requirements are contained in ANSI 3.2.

(b) Checks shall be made to verify that

(i) procedures and/or written instructions with an appropriate level of detail have been provided;

(ii) procedures include applicable format and content elements;

(iii) all changes, including temporary changes, shall be controlled;

(iv) provisions shall be made for documenting data to assist in ensuring satisfactory completion of the work. Such data shall include, as applicable:

(1) parts used (e.g., serial no., part no., lot no.);

(2) identification number of measuring and test equipment used;

(3) “as found” condition;

(4) “as left” condition;

(5) adjustments, repairs, replacements made;

(6) postmaintenance clean-up and final inspection;

(7) postmaintenance testing and acceptance results.

Recorded data shall be reviewed for completeness and acceptability. The review shall be conducted by personnel who are familiar with the design and operation of the equipment, including acceptance criteria for its design features and operating characteristics. Administrative procedures shall require documentation of the acceptance of results.

203 Cleanliness Control

(a) Controls to minimize the introduction of foreign materials and to maintain cleanliness during maintenance shall be in accordance with Subpart 2.1 of this Part