6.6 INSERVICE INSPECTION OF CLASS 2 AND 3 COMPONENTS

6.6.1 COMPONENTS SUBJECT TO EXAMINATION

→(DRN M9900822)

An inservice inspection program is provided for the examination of Code Class 2 and Code Class 3 components in accordance with Section XI of the ASME Boiler and Pressure Vessel Code. Table 3.2-1 specifies the Safety Classes for components that have a safety function; Subsection 3.2.2 defines the relationship between these Safety Classes and the Regulatory Guide 1.26 Quality Groups. The program reflects the principles and intent embodied in ASME Section XI. The purpose of the inservice inspection program is described in Subsection 5.2.4.

←(DRN M9900822)

A detailed inservice inspection program, including information on areas subject to examination, method of examination, and extent frequency of examination has been provided as required by 10CFR50.55a(g).

→(DRN M9900822)

Class 2 and 3 pressure retaining components are examined in accordance with the requirements of Section XI articles IWC and IWD respectively.

←(DRN M9900822)

6.6.2 ACCESSIBILITY

→(DRN M9900822)

Provisions have been made in the design and layout of Code Class 2 and 3 Systems to allow for compliance with the inservice inspection requirements contained in ASME Section XI and as defined in the inservice inspection program.

←(DRN M9900822)

Welds and other areas requiring periodic inspection have been made accessible to the extent practical. Reinforcing pads, supports, piping and equipment, have been located to the extent practical not to obstruct welds. Insulating materials are removable to provide accessibility for the required inservice inspection.

6.6.3 EXAMINATION TECHNIQUES AND PROCEDURES

Examination techniques include liquid penetrant or magnetic particle when surface examination is specified and ultrasonic when volumetric examination is specified. Also visual inspection techniques are used to determine surface condition of components and for evidence of leakage. Specific techniques and procedures for performing examinations are defined in the inservice inspection program.

6.6.4 INSPECTION INTERVALS

→(DRN M9900822)

The examination program for the 120 month inspection interval is defined in the inservice inspection plan. The inservice inspection program for all Code Class 2 and 3 systems and components is in accordance with the requirements of the ASME Code Section XI 1980 Edition with Addenda through Winter 1981 (initial interval). Subsequent 120 month inspection intervals throughout the service life of the facility will comply, where practical with those requirements in editions of the Code and addenda in effect 12 months prior to the start of each inspection interval.

←(DRN M9900822)

6.6.5 EXAMINATION CATEGORIES AND REQUIREMENTS

→(DRN M9900822)

The Section XI Code Examination Category, sample size and inspection method for Code Class 2 and 3 systems and components to be inspected comply with Section XI. Requests for relief as applicable are listed in the inservice inspection plan. Requests for relief from PSI examination requirements has been documented in the preferred format and submitted in the PSI final report.

←(DRN M9900822)

6.6.6 EVALUATION OF EXAMINATION RESULTS

Evaluation of nondestructive examination results for Code Class 2 and 3 systems and components will be made in accordance with Article IWA-3000 of Section XI and as defined in the inservice inspection program. Where acceptance standards for a particular component or Examination Category are in the course of preparation, evaluation will be based on acceptance standards for materials, and welds specified in the Section III edition applicable to the construction of the component. The results of the examinations and evaluations will be documented in accordance with article IWA-6000 of Section XI.

Repair procedures for Code Class 2 and Class 3 components and the extent of their agreement with IWC-4000 and IWD-4000 respectively will be described in the inservice inspection program.

6.6.7 SYSTEM PRESSURE TESTS

→(DRN M9900822)

Code Class 2 and Class 3 systems and components are subjected to a system leakage test, at least once per inspection period. The system pressure tests shall be performed in accordance with requirements of IWC-5000 and IWD-5000. The Technical Specifications describe operational limitations during heatup, cooldown, and system pressure testing.

←(DRN M9900822)

6.6.8 AUGMENTED INSERVICE INSPECTION TO PROTECT AGAINST POSTULATED PIPING FAILURES

The following piping will receive augmented ISI in accordance with SRP 6.6 and BTP MEB 3-1.

a) Main Steam and Feedwater Piping

→(EC-2013, R302)

1) All of the circumferential and longitudinal welds from both Steam Generators to the first rigid restraint past the outer containment isolation valve are being 100 percent volumetrically examined except as restricted by part geometry or access, or as required per the Risk-Informed process for piping outlined in EPRI Topical Report 1006937.

←(EC-2013, R302)

b) Safety Injection Piping

1) The augmented ISI requirements of SRP 6.6 and BTP MEB 3-1 will be imposed on the two 14-inch shutdown cooling lines and the four 8-inch LPSI lines penetrating containment.

→(EC-2013, R302)

a) All of the circumferential and longitudinal (if any) welds on the two 14-inch shutdown cooling lines between the containment inboard and outboard isolation valves will be 100 percent volumetrically examined except as restricted by part geometry or access, or as required per the Risk-Informed process for piping outlined in EPRI Topical Report 1006937.

b) All of the circumferential and longitudinal (if any) welds on the four 8-inch LPSI lines between the containment inboard and outboard isolation valves will be 100 percent volumetrically examined except as restricted by part geometry or access, or as required per the Risk-Informed process for piping outlined in EPRI Topical Report 1006937.

←(EC-2013, R302)

→(DRN M9900822)
←(DRN M9900822)