

4.12 INSERVICE INSPECTION AND TESTING

4.12.1 Introduction

The preservice examinations at Browns Ferry were conducted using the 1971 Edition, Summer 1971 Addenda, of ASME Section XI as a guideline. The inservice examinations performed during the first 40-month cycle were in accordance with the 1971 Edition, Summer 1971 Addenda, of ASME Section XI for Units 1 and 2; and the 1974 Edition, Summer 1975 Addenda, of ASME Section XI for Unit 3.

The three units at Browns Ferry were put on a concurrent inspection and pressure test cycle beginning July 1, 1980; therefore, all inservice examinations performed during the 80-month cycle and those exams to be performed during the 120-month cycle shall be performed in accordance with the 1974 Edition, Summer 1975 Addenda of ASME Section XI or as stated in 1-, 2-, and 3-SI-4.6.G, Browns Ferry Nuclear Plant Surveillance Instruction, Inservice Inspection Program, Codes of Record.

The inservice inspection and testing programs for vessels, piping, pumps, valves, and pressure tests shall be performed in accordance with Section XI of ASME Boiler and Pressure Vessel Code and the ASME Code for Operation and Maintenance of Nuclear Power Plants (ASME OM Code) and applicable addenda as required by 10 CFR 50, Section 50.55a except where specific written relief has been identified. Several ASME Code Cases have been approved for use in the inservice inspection program and utilization of code cases accepted by NRC Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability ASME Section XI, Division 1," as applicable to Browns Ferry.

The inservice pressure tests program for the first interval was prepared in accordance with the 1974 Edition, Summer 1975 Addenda of ASME Section XI for all units. The Inservice Pump and Valve Testing Program for the first interval was prepared in accordance with the 1980 Edition, Winter 1980 Addenda ASME Section XI for all units.

The inservice pressure test program, inservice examination program, and inservice pump and valve test program for subsequent intervals will be prepared in accordance with the edition of the ASME Section XI Code as specified by the 10 CFR 50.55a requirements at the time of the update, except where specific relief has been granted.

The examinations are performed using TVA and/or contractor personnel. Nondestructive examination personnel shall be certified in accordance with a program meeting the requirements of SNT-TC-1A and/or ANSI N45.2.6 and/or ANSI/ASNT CP-189, except where specific relief has been granted.

4.12.2 Scope

Periodic inservice examinations for Browns Ferry ASME Class 1, Class 2, and Class 3 components, and reactor vessel internals are defined in plant procedures. Periodic pump, valve and pressure testing in accordance with the applicable subsections of ASME Section XI and ASME OM Codes are defined in Plant Procedures.

The requirement for Inservice Inspection Examinations for Browns Ferry equivalent ASME Class MC became effective September 9, 1996, being incorporated as a result of ASME Section XI, Subsection IWE into 10 CFR 50.55(a).

4.12.3 Responsibility

TVA is responsible for the performance of the inservice inspections and tests outlined under the scope (4.12.2) of this program.

4.12.4 Area and Extent of Examination

The area and extent of examination are given in plant procedures.