

Browns Ferry Nuclear Plant Unit 2
In-Service Inspection

In accordance with paragraph IS622.3 of Section XI of the ASME Boiler and Pressure Vessel Code (1971 edition through Summer 1971 addenda), the following information is provided.

1. Date: December 1981
2. Name of owner and address of corporate offices:

Tennessee Valley Authority
Chattanooga, Tennessee 37401
3. Name and address of nuclear generating plant in which the nuclear plant unit is located:

Browns Ferry Nuclear Plant
P.O. Box 2000
Decatur, Alabama 35601
4. Name or number assigned to the nuclear power system by the owner:

Browns Ferry Nuclear Plant unit 2
5. Commercial service date assigned to the nuclear power system by the owner:

March 1, 1975
6. Gross generating capability assigned to the nuclear power station by the owner:

1,098 MW_e
7. The number assigned to the "boiler," "pressure vessel," or components of the nuclear power system by the state or municipality:

Does not apply
8. National board number assigned by the manufacturer to the "boiler," "pressure vessel," or components of the nuclear power system:

No number assigned
9. Name of the component or part of the component of the nuclear power system for which this is a record, including such information regarding size, capacity, material, and location as may aid accurate identification (this may include drawing references if they may be of assistance):

The components examined as part of this in-service inspection are listed in the abstract.

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10. Name of the manufacturer of the component or part of the nuclear power system for which this is a record, including the manufacturer's corporate offices or the manufacturing plant locations as may aid in gaining access to the manufacturer's records regarding the component or part which the manufacturer is maintaining in accordance with requirements of the ASME Boiler and Pressure Vessel Code, Section III, Nuclear Power Components:

The majority of the components examined were supplied by:

General Electric Company
Atomic Power Equipment Department
San Jose, California 95103

under TVA Contract No. 66C60-90744

11. Dates of the in-service inspection: May 15-17, 1979

12. Name of the inspectors:

The Tennessee Valley Authority acts as its own inspectors.

13. Name and mailing address of the employers of the inspectors:

Tennessee Valley Authority
1630 Chestnut Street Tower II
Chattanooga, Tennessee 37401

14. Abstract of inspections performed, conditions observed, and corrective measures recommended and taken.

Refer to the attached scan plan for weld numbers and conditions observed. The examinations were performed by Lambert, MacGill, Thomas, Incorporated, and TVA personnel. No repairs were necessary as a results of these examinations.

TABLE VI (Continued)

RPT.	SYSTEM	WELD OR COMPONENT #	SCAN	LOCATION	METAL PATH	% DAC	REMARKS
R-008	Recirc.	NZB SE/THSL	3	360°	I.D.	33%	Geometry From Thermal Sleeve.
			3	360°	O.D.	63%	O.D. Geometry
			4	360°	I.D.	>>100%	Geometry from Safe End Slope.
R-009	Recirc.	NZC SE/THSL	3	360° Int.	I.D.	<40% DAC	Geometry from Thermal Sleeve.
			3	360° Int.	O.D.	<40% DAC	O.D. Geometry
			4	360°	I.D.	>>100% DAC	Geometry from Safe End Taper
R-010	Recirc.	NZD SE/THSL	3	360° Int.	I.D.	32%	Geometry from Thermal Sleeve.
			3	360° Int.	O.D.	64%	O.D. Geometry
			4	360°	I.D.	>>100%	Geometry from Safe End Taper
R-011	Recirc.	Valve Stems - #68-77, 68-79, 68-1, 68-3, 68-33, 68-35.					No Apparent Discontinuities

TABLE VI (Continued)

RPT.	SYSTEM	WELD OR COMPONENT #	SCAN	LOCATION	METAL PATH	% DAC	REMARKS
R-004	Recirc.	NZJ SE/THSL	3	360°	I.D.	41%	Thermal Sleeve Geometry
			4	360°	I.D.	>>100%	Geometry from Safe End Slope.
R-005	Recirc.	NZH SE/THSL	3	360° Int.	1.15" M.P.	35%	Thermal Sleeve Geometry
			3	360° Int.	O.D. Surface	41%	O.D. Geometry
			4				Geometry From Safe End Slope.
R-006	Recirc.	NZE SE/THSL	3	360° Int.	I.D.	12%	Thermal Sleeve Geometry
			4	360°	I.D.	>>100%	Geometry From Safe End Slope.
R-007	Recirc.	NZA SE/THSL	3	360°	I.D.	<20%	I.D. Geometry
			4	360°	I.D.	>>100%	Geometry From Safe End Slope.

TABLE VI

EVALUATIONSSummarized ISI Results

RPT.	SYSTEM	WELD OR COMPONENT #	SCAN	LOCATION	METAL PATH	% DAC	REMARKS
R-001	Recirc.	NZF SE/THSL	3	360°	O.D. Surface	64%	Geometry (Finger Damping)
			3	360°	I.D.	<20%	Thermal Sleeve Geometry
			4	360°	I.D.	>>100%	Geometry Due to Safe end Slope.
R-002	Recirc.	NZG SE/THSL	3	360°	I.D.	54%	Thermal Sleeve Geometry
			3	@ 8:30	O.D. Surface	50%	O.D. Geometry Finger Damped
			4	360°	I.D.	>>100%	Geometry Due to Safe end Slope.
R-003	Recirc.	NZK SE/THSL	3	360° Int.	O.D. Surface		O.D. Geometry
			4	360°	I.D.	>>100% DAC	Geometry Due to Safe end Slope.