

INSERVICE INSPECTION REPORT

UNIT 1 CATAWBA 1991 REFUELING
OUTAGE 5

Location: 4800 Concord Road, York, SC 29745

NATIONAL BOARD NO. 130

COMMERCIAL SERVICE DATE: JUNE 29, 1985

Owner: Duke Power Company
422 S. Church Street
Charlotte, NC 28201

Revision 1

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5.0 Class 1 Inspection Results

Examinations were performed during Outage 5 on the Reactor Vessel, Pressurizer, Steam Generators 1A, 1B, 1C and 1D, Piping Welds of Reactor Coolant, Residual Heat Removal, Safety Injection, and Chemical and Volume Control Systems, Valve Bolting, Valves and Supports.

5.1 Reactor Vessel

Seventy-eight (78) CRDM Tube to Upper Head Welds and fifty-eight (58) Incore Instrument Tubes to Lower Head Welds received a visual examination. No reportable conditions were found.

5.2 Pressurizer

The Pressurizer Surge Nozzle to Lower Head Weld and Inside Radius Section received an ultrasonic examination. No reportable indications were found.

Seventy-eight (78) Heater Penetrations to Lower Head Welds received a visual examination. No reportable conditions were found.

The Pressurizer Surge Nozzle Safe-End Weld received an ultrasonic and a dye penetrant examination. No reportable indication were found.

5.3 Valves

Bolting for Valves 1NI-54A, 1NI-59, 1NI60, 1NI-65B, 1NI-70, 1NI-71, 1NI-76A and 1NI-81 received a visual examination. The internal surface of Valve 1NC-1 received a visual examination. No reportable conditions were found.

5.4 Piping

Similar Metal Butt Welds:

Eleven (11) circumferential welds nominal pipe size four inches and greater received ultrasonic and dye penetrant examination. Three (3) circumferential welds and ten (10) socket welds received a dye penetrant examination. No reportable indications were found.

5.5 Steam Generator Tubing

(See Catawba 1 Refueling Outage 5 Eddy Current Examination Report.)

5.6 System Leakage Test

The Class 1 Pressure Boundary was subjected to a system leakage test as required by ASME Section XI, Article IWB-5000. No reportable conditions were found.

5.7 Class 1 Repairs and Replacements

Repairs and replacements for work performed from April 22, 1990 to June 9, 1991 are itemized in Section 11 of this report.

6.0 Class 2 Inspection Results

Inspections were performed during Outage 5 on Piping Welds of Residual Heat Removal (ND), Safety Injection (NI), Main Steam (SM), and Main Steam Vent to Atmosphere (SV) Systems and Supports.

6.1 Piping

Welds one-half inch and less nominal wall thickness.

Thirty-three (33) circumferential welds and twelve (12) longitudinal welds received a dye penetrant examination. No reportable indications were found.

Welds greater than one-half inch nominal wall thickness:

Nine (9) circumferential welds received an ultrasonic and a magnetic particle examination. Two (2) circumferential welds received an ultrasonic and a dye penetrant examination. One (1) circumferential weld received a radiographic and a magnetic particle examination. One (1) circumferential weld received a radiographic examination. No reportable indications were found.

6.2 Component Supports

Fifty-five (55) Class 2 Component Supports received a visual examination as required by ASME Section XI, Article IWF-2000. No reportable conditions were found.

6.3 System or Component Functional Test

Class 2 Functional Tests were performed as required by ASME Section XI, Article IWC-5000. No reportable conditions were found.

6.4 Class 2 Repairs and Replacements

Repairs and replacements for work performed from April 22, 1990 to June 9, 1991 are itemized in Section 11 of this report.

8.0 Personnel, Equipment, and Material Certifications

All personnel who performed or evaluated results of inservice inspections from April 21, 1990 to June 9, 1991 at Catawba 1 were certified in accordance with the requirements of the 1980 ASME Section XI with Addenda through Winter 1981. The appropriate certification records for each Duke Power Company inspector and periodic calibration records for Duke Power Company inspection equipment are on file at Catawba Nuclear Station or in the Corporate offices in Charlotte, North Carolina.

11.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI, 1980 Edition, a record of the Class 1 and 2 Repairs and Replacements for work performed from April 22, 1990 to June 9, 1991 is provided and is included in this section of the report. The individual work request documents are on file at the Catawba Nuclear Station.