

INSERVICE INSPECTION REPORT  
UNIT 2 OCONEE 1988 REFUELING  
OUTAGE 9

Location: Oconee County, South Carolina  
NRC Docket No. 50-270  
Commercial Service Date: September 9, 1974

Owner: Duke Power Company  
422 S. Church St.  
Charlotte, N. C. 28242

Revision 2

Prepared By: A. J. Hogge Jr. Date 9-5-89  
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## 2.0 Status of Required Inspections

The completion status of inspections required by the 1980 ASME Code Section XI, including addenda through Winter 1980, is summarized in this section. The requirements are listed by the ASME Section XI examination category as defined in Table IWB-2500-1 for Class 1 inspections and in IWC-2500-1 for Class 2 inspections. Augmented inspections are also included.

### Class 1 Inspections

| <u>Section XI Category</u> | <u>Description</u>  | <u>Inspections Required</u> | <u>Inspections Completed</u> | <u>Percentage Completed</u> | <u>Deferral Allowed</u> |
|----------------------------|---|-----------------------------|------------------------------|-----------------------------|-------------------------|
| B-A                        | Pressure Retaining Welds in Reactor Vessel                    | 8 Welds                     | 1.33 Welds                   | 16.62%                      | Yes                     |
| B-B                        | Pressure Retaining Welds in Vessels Other than Reactor Vessel | 15 Welds                    | 4 Welds                      | 26.66%                      | No                      |
| B-D                        | Full Penetration Welds of Nozzles in Vessels                  | 30 Inspections              | 13 Inspections               | 43.33%                      | Partial                 |
| B-E                        | Pressure Retaining Partial Penetration Welds in Vessels       | 31 Welds                    | 31 Welds                     | 67% Credited                | No                      |
| B-F                        | Pressure Retaining Dissimilar Metal Welds                     | 38 Welds                    | 18 Welds                     | 47.36%                      | No                      |
| B-G-1                      | Pressure Retaining Bolting Greater than 2 Inch Diameter       | 553 Items                   | 154 Items                    | 27.84%                      | Yes                     |
| B-G-2                      | Pressure Retaining Bolting 2 Inches and Less in Diameter      | *36 Connections             | 12 Connections               | 33.33%                      | No                      |
| B-H                        | Integral Attachment for Vessels                               | 12 Attachments              | 3 Attachments                | 25%                         | No                      |
| B-J                        | Pressure Retaining Welds in Piping                            | 89 Welds                    | 35 Welds                     | 39.32%                      | No                      |

\*Total connections includes CRDMS that are disassembled

Class 1 Inspections (Continued)

| <u>Section<br/>XI<br/>Category</u> | <u>Description</u>   | <u>Inspections<br/>Required</u>           | <u>Inspections<br/>Completed</u> | <u>Percentage<br/>Completed</u> | <u>Deferral<br/>Allowed</u> |
|------------------------------------|--|---|----------------------------------|---------------------------------|-----------------------------|
| B-K-1                              | Integral Attachments<br>for Piping, Pumps<br>and Valves  | 1 Attachment                              | None                             | 0%                              | N/A                         |
| B-L-1                              | Pressure Retaining<br>Welds in Pump Casings  | 1 Weld                                    | 1 Weld                           | 100%<br>Credited                | Yes                         |
| B-L-2                              | Pump Casings   | 1 Casing                                  | 1 Casing                         | 100%<br>Credited                | Yes                         |
| B-M-1                              | Pressure Retaining<br>Welds in Valve Bodies  | None                                      | N/A                              | N/A                             | N/A                         |
| B-M-2                              | Valve Body > 4 in.<br>Nominal Pipe Size  | 2 Valves                                  | 1 Valve                          | 50%                             | Yes                         |
| B-N-1                              | Interior of Reactor<br>Vessel  | 3 Items                                   | 2 Items                          | 66.66%                          | No                          |
| B-N-2                              | Integrally Welded Core<br>Support Structures and<br>Interior Attachments to<br>Reactor Vessels | None                                      | N/A                              | N/A                             | N/A                         |
| B-N-3                              | Removable Core<br>Support Structures   | 1 Item                                    | None                             | 0%                              | Yes                         |
| B-O                                | Pressure Retaining<br>Welds in Control Rod<br>Housings   | 3 Welds                                   | 1 Weld                           | 33.33%                          | Yes                         |
| B-P                                | All Pressure Retaining<br>Components   | 145 Components                            | 59 Components                    | 40.68%                          | Yes                         |
| B-Q                                | Steam Generator Tubing   | 100% Station Technical Specifications Met |                                  |                                 | N/A                         |
| F1.01                              | Class 1 Component<br>Supports  | 85 Supports                               | 27 Supports                      | 31.76%                          | No                          |

Class 2 Inspections

| Section<br>XI<br>Category | Description  | Inspections<br>Required | Inspections<br>Completed | Percentage<br>Completed | Deferral<br>Allowed |
|---------------------------|--|-------------------------|--------------------------|-------------------------|---------------------|
| C-A                       | Pressure Retaining<br>Welds in Pressure<br>Vessels               | 10 Welds                | 2 Welds                  | 20%                     | No                  |
| C-B                       | Pressure Retaining<br>Nozzle Welds in<br>Vessels                 | 5 Welds                 | 3 Welds                  | 34%<br>Credited         | No                  |
| C-C                       | Integral Attachments<br>for Vessels, Piping,<br>Pumps and Valves | 53 Attachments          | 18 Attachments           | 33.96%                  | No                  |
| C-D                       | Pressure Retaining<br>Bolting Exceeding<br>2 Inches in Diameter  | None                    | N/A                      | N/A                     | N/A                 |
| C-F                       | Pressure Retaining<br>Welds in Piping                            | 267 Welds               | 108 Welds                | 40.44%                  | No                  |
| C-G                       | Pressure Retaining<br>Welds in Pumps and<br>Valves               | None                    | N/A                      | N/A                     | N/A                 |
| C-H                       | All Pressure Retaining<br>Components                             | 87 Components           | 18 Components            | 20.68%                  | *                   |
| F1.02                     | Class 2 Component<br>Supports                                    | 390 Supports            | 134 Supports             | 34.35%                  | No                  |

\*100% of required exams completed for first inspection period

Augmented Inspections

| <u>Description</u>                                    | <u>Percentage Complete</u> |
|---|----------------------------|
| Reactor Coolant Pump Flywheel:                        | 33.33%                     |
| (1) Volumetric inspection of bore and keyway in place |                            |
| (2) Surface inspection of flywheel when removed       |                            |
| (3) Volumetric inspection of flywheel when removed    |                            |
| High Pressure Injection and Makeup Nozzle Safe-ends   | 66.66%                     |
| Core Flood Tank 2A Dump Valve Flange to Head Weld     | 100%                       |
| Core Flood Tank 2A Support Attachment Weld            | 100%                       |