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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.      05000269  
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SUBJECT: Forwards requests for relief from certain inservice insp testing, per ASME Boiler & Pressure Vessel Code, Section XI w/ addenda through Winter 1980, for review & approval for 871103 startup. Testing impractical following repair.

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HAL B. TUCKER  
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NUCLEAR PRODUCTION

October 29, 1987

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Oconee Nuclear Station, Unit 1  
Docket Nos. 50-269  
Request for Relief

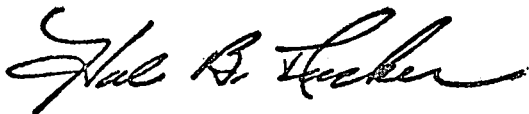
Gentlemen:

Pursuant to 10CFR 50, §50.55a, please find attached requests for relief from the requirements of Section XI of the ASME Boiler and Pressure Vessel Code (with Addenda through Winter 1980). These requests are being submitted due to the impracticality of pressure testing specific welds as required by the Code following repair. The attached requests concern the inservice inspection at Oconee Unit 1 being performed during the second ten year interval.

It is requested that these requests for relief be reviewed and approved by NRC prior to Unit 1 Cycle 11 startup currently scheduled for November 3, 1987.

These requests are considered to supplement the request made by my letter dated September 13, 1984. As such, no additional fees are required.

Very truly yours,



Hal B. Tucker

PJN/239/jgc

Attachment

8711050039 871029  
PDR ADOCK 05000269  
Q PDR

A047  
11

Document Control Desk

October 29, 1987

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Mr. J.C. Bryant  
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Oconee Nuclear Station

Duke Power Company  
Oconee Nuclear Station  
Unit 1

I. Component for which relief is requested:

- (a) Name and Number: Feedwater System Weld No. 30B (see attached sketch)
- (b) Function: Provides feedwater to the steam generators
- (c) ISI Class/Duke Class: ISI Class C/Duke Class F
- (d) Valve Category: N/A

II. Reference Code requirement that has been determined to be impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) paragraph IWA-5214 which requires a system pressure test per IWA-5211.

III. Basis for requesting relief:

Performing the required pressure test would require a hydrostatic test of the Once Through Steam Generator (OTSG) and associated piping. Hydrostatic testing of the OTSG would require filling the Main Steam lines with water and would unnecessarily place additional hydrostatic test cycles on the OTSG.

IV. Alternate examination:

A VT-2 inspection and a radiograph will be performed on the subject weld.

V. Implementation schedule:

The alternate examination will be performed when the unit is in hot shutdown conditions during the current Unit 1 refueling outage (End of Cycle 10). In addition, the weld will be hydrostatically tested as part of the 10 year Inservice Inspection of feedwater, OTSG, and Main Steam.

LAST WELD NO. USED #65

System # 03 UNIT 1 R.O.D

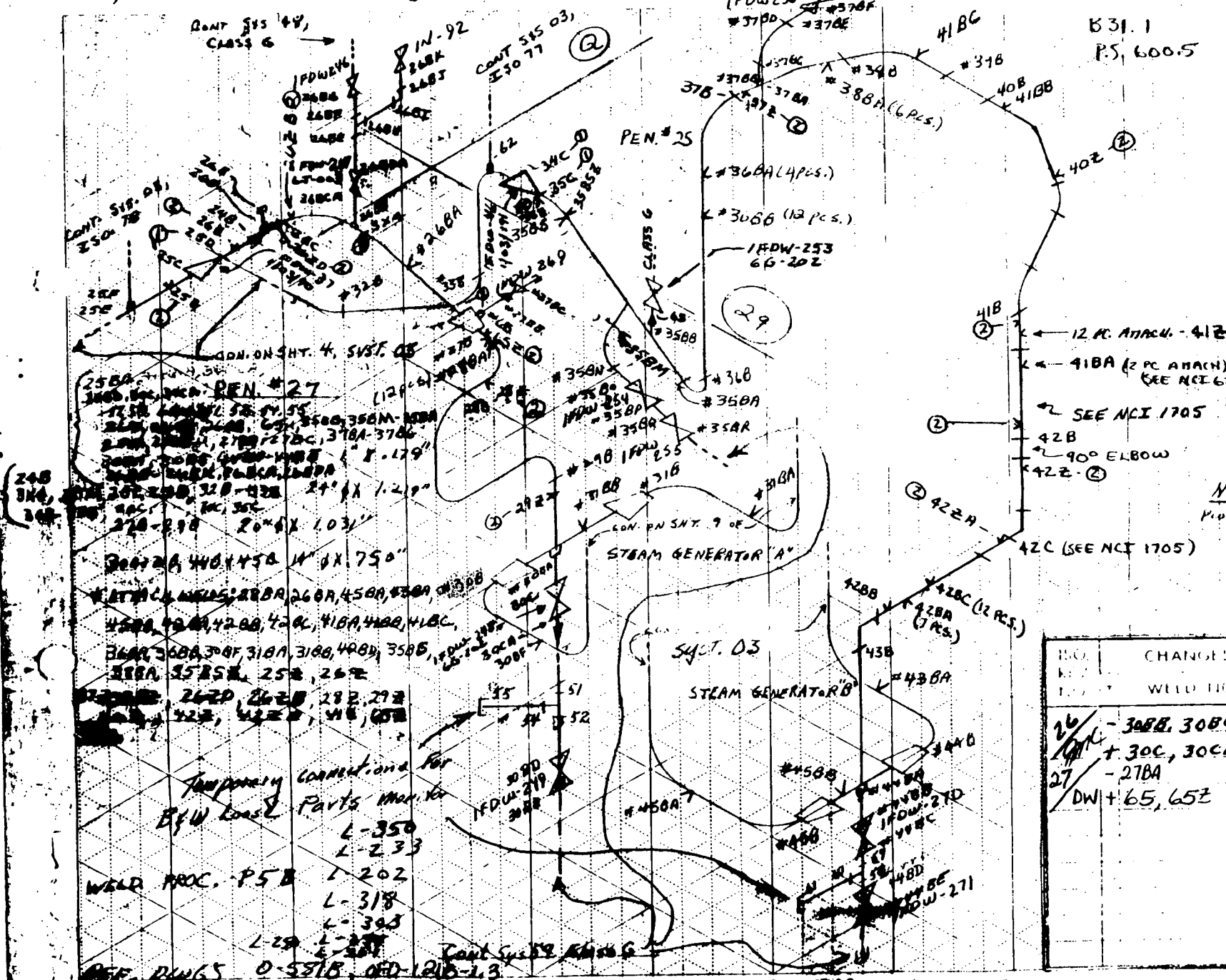
CLASS F

ELLENBURG CFE

B31.1 P.S. 600.5

SHEET 1 (PART 1 OF 2) ADDED WELDS

27BA, 26BA, 45BA,	4
44BA, 45BA, 43BA,	4
42BA, 42AC, 41BA,	7
41BA, 41BC, 36BA, 36AB,	7
30BF, 31BA, 31BB, 42BA,	7
25BA-25BM, 26BA-	5
26BK (REFUNCH: 34BA	5
-34BM) 35BA, 35BB	5
38BA	
28BA, 43BA	
Relocate Attach's	2
57, 58, 60, 64, 51,	8
52, 54, 55	8
55B, 5E	9



NOTE: VENDOR WELD POINT PER QNS, DATA SHT. 9  
 (2) GAMMA PLUG

NO.	CHANGES	ISO REV	CHAR
26	- 308B, 309C		
27	+ 30C, 30CA		
27	- 27BA		
	+ 65, 65Z		

FOR INFORMATION ONLY

Duke Power Company  
Oconee Nuclear Station  
Unit 1

I. Component for which relief is requested:

- (a) Name and Number: Low Pressure Service Water System Weld  
Nos. 31 and 32 ISO#22 for valve 1LPSW-6
- (b) Function: Containment isolation - Low Pressure  
Service Water to reactor coolant pump  
motors and bearing coolers
- (c) ISI Class/Duke Class: ISI Class B/Duke Class F
- (d) Valve Category: N/A

II. Reference Code requirement that has been determined to be impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) paragraph IWA-5211(d), which states that pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed in accordance with IWA-5240 to detect leakages. The required system pressure tests and examinations, as referenced in Table IWA-5210-1, may be conducted in conjunction with one or more of the following system tests or operations:

- (d) a system hydrostatic test conducted during a plant shutdown at a pressure above nominal operating pressure.

III. Basis for requesting relief:

Weld Nos. 31 and 32 cannot be hydrostatically tested since the marbo plug used for the pressure boundary cannot withstand the differential pressure from the opposite direction. Further isolation would require shutdown of all three reactors.

IV. Alternate examination:

Welds will be radiographed and a VT-2 examination will be performed when the system is placed inservice.

V. Implementation schedule:

The radiograph will be performed after the weld is made. The VT-2 inspection will be performed when the system is placed inservice following the End of Cycle 10 refueling outage.

Duke Power Company  
Oconee Nuclear Station  
Unit 1

I. Component for which relief is requested:

- (a) Name and Number: Low Pressure Service Water System Welds for installing the weld neck flanges for 1LPSW-15
- (b) Function: Containment isolation - Low Pressure Service Water from Reactor Coolant Pump Motors outlet
- (c) ISI Class/Duke Class: ISI Class B and C/Duke Class F
- (d) Valve Category: N/A

II. Reference Code requirement that has been determined to be impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) paragraph IWA-5211(d), which states that pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed in accordance with IWA-5240 to detect leakages. The required system pressure tests and examinations, as referenced in Table IWA-5210-1, may be conducted in conjunction with one or more of the following system tests or operations:

- (d) a system hydrostatic test conducted during a plant shutdown at a pressure above nominal operating pressure.

III. Basis for requesting relief:

In order to isolate 1LPSW-15 the entire LPSW system must be shutdown. Shutting down the LPSW system would require shutting down all three reactors.

IV. Alternate examination:

A radiograph will be performed, and an inservice leak inspection will be performed at operating temperature and pressure.

V. Implementation schedule:

Alternate examination will be performed during End of Cycle 10 refueling outage, prior to startup.

Duke Power Company  
Oconee Nuclear Station  
Unit 1

I. Component for which relief is requested:

- (a) Name and Number: Low Pressure Injection System welds for installing valves 1LP-131, 1LP-132, and 1LP-133
- (b) Function: Pressurizer Spray
- (c) ISI Class/Duke Class: ISI Class B/Duke Class B
- (d) Valve Category: N/A

II. Reference Code requirement that has been determined to be impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) paragraph IWA-5211(d), which states that pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed in accordance with IWA-5240 to detect leakages. The required system pressure tests and examinations, as referenced in Table IWA-5210-1, may be conducted in conjunction with one or more of the following system tests or operations:

- (d) a system hydrostatic test conducted during a plant shutdown at a pressure above nominal operating pressure.

III. Basis for requesting relief:

Valves 1LP-131, 1LP-132, and 1LP-133 cannot be isolated from the Reactor Coolant System. Hydrostatic testing would unnecessarily require pressurization of the Reactor Coolant System.

IV. Alternate examination:

Dye Penetrant testing will be performed on all affected welds, and an inservice leak inspection will be performed at operating temperature and pressure.

V. Implementation schedule:

Alternate examination will be performed during End of Cycle 10 refueling outage, prior to startup.



Duke Power Company  
Oconee Nuclear Station  
Unit 1

I. Component for which relief is requested:

- (a) Name and Number: Feedwater System Valves FDW-207 and FDW-209
- (b) Function: Steam Generator Drain
- (c) ISI Class/Duke Class: ISI Class B/Duke Class F
- (d) Valve Category: N/A

II. Reference Code requirement that has been determined to be impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) paragraph IWA-5211(d), which states that pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed in accordance with IWA-5240 to detect leakages. The required system pressure tests and examinations, as referenced in Table IWA-5210-1, may be conducted in conjunction with one or more of the following system tests or operations:

- (d) a system hydrostatic test conducted during a plant shutdown at a pressure above nominal operating pressure.

III. Basis for requesting relief:

The inlet side of FDW-207 and FDW-209 cannot be hydrostatically tested without pressurizing the steam generator.

IV. Alternate examination:

A VT-2 examination of welds will be performed during hot shutdown. In addition, dye penetrant testing will be performed on welds.

V. Implementation schedule:

Alternate examination will be performed during End of Cycle 10 refueling outage, while at hot shutdown.