

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7905220270 DOC. DATE: 79/05/11 NOTARIZED: NO  
 FACIL: 50-269 OCONEE NUCLEAR STATION, UNIT 1, DUKE POWER CO.  
 50-270 OCONEE NUCLEAR STATION, UNIT 2, DUKE POWER CO.  
 AUTH. NAME: PARKER, W.O. AUTHOR AFFILIATION: DUKE POWER CO.  
 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: OFFICE OF NUCLEAR REACTOR REGULATION

DOCKET #  
 05000269  
 05000270

SUBJECT: SUBMITS REQUEST FOR RELIEF FROM REQUIREMENT OF ASME  
 BOILER & PRESSURE VESSEL CODE, SECTION 11, RE IMPRACTICALITY  
 OF DOING HYDRASTATIC TEST ON EMERGENCY FEEDWATER HEADER DUE  
 TO EXCESSIVE LEAKAGE THROUGH BOUNDARY ISOLATION VALVES.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7  
 TITLE: GENERAL DISTRIBUTION FOR AFTER ISSUANCE OF OPERATING LIC

NOTES: M. CUNNINGHAM - ALL AMPTS TO FSAR & CHANGES TO TECH  
SPECS.

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
ACTION:	05 BC ORB #4	7 7		
INTERNAL:	01 REG FILE	1 1	02 NRC PDR	1 1
	12 I&E	2 2	14 TA/EDO	1 1
	15 CORE PERF BR	1 1	16 AD SYS/PROJ	1 1
	17 ENGR BR	1 1	18 REAC SFTY BR	1 1
	19 PLANT SYS BR	1 1	20 EEB	1 1
	21 EFLT TRT SYS	1 1	22 BRINKMAN	1 1
EXTERNAL:	03 LPDR	1 1	04 NSIC	1 1
	23 ACRS	16 16		

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DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

May 11, 1979

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. R. W. Reid, Chief  
Operating Reactors Branch #4

Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270

Dear Sir:

Pursuant to 10CFR50, §50.55a, please find attached a request for relief from the requirement of ASME Boiler and Pressure Vessel Code, Section XI.

This request concerns the impracticality of performing a hydrostatic test on the emergency feedwater header due to excessive leakage through one or more boundary isolation valves.

This request is considered to supplement earlier requests and as such, no additional license fees are provided.

Very truly yours,

*William O. Parker Jr.*

William O. Parker, Jr.

*by WAT*

RLG:scs  
Attachment

REGULATORY DOCKET FILE COPY

*A001  
5/11*

7905220270

DUKE POWER COMPANY

OCONEE NUCLEAR STATION

Request for Relief from ASME Code Section XI

Hydrostatic Testing Requirements

1. Component For Which Relief Is Requested:

(a) Name and Number

Emergency Feedwater Pump Discharge Flow Orifices - Duke  
System No. 03A-(1)(a).

(b) Function

This section of the emergency feedwater piping system is the  
by-pass line for the normal emergency valves and provides an  
interconnection of emergency feedwater systems with the other  
two units. The flow orifices were installed to provide flow  
indication in this section of piping.

(c) ASME Section III Code Class

Equivalent Class 3 per NRC Regulatory Guide 1.26

(d) Valve Category

N/A

2. ASME Code Section XI Requirement That Has Been Determined To Be Impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1974 edition, including  
1975 Summer Addenda, article IWD-5000, System Pressure Tests.

3. Basis For Requesting Relief:

The orifice flanges in the emergency feedwater by-pass lines to both steam  
generators of Units 1, 2, were welded into existing lines. Following  
installation a hydrostatic test was required to be performed to the test  
pressure—1584 psig. Due to excessive leakage through FDW-310 and/or  
FDW-314, the required test pressure could not be obtained. The highest  
pressure achieved during twelve hours of testing was 1100 psig.

Similar results were obtained for each unit's steam generator emergency  
feedwater line.

To correct the excessive leakage would have required unit shutdown and  
valve repairs which would have taken an estimated two weeks per unit to  
accomplish.

4. Alternate Examinations:

The 6" butt welds were each radiographed after a visual examination by the welding inspectors. The socket welds were dye penetrant tested after a visual examination. Isometric sketches are attached identifying the welds.

5. Implementation:

This orifice installation was completed on Ocone Units 1, 2 on May 7, 1979. It is intended to be completed on Unit 3 by June 1, 1979.

PARADISE  
TR. BY JPF  
JPF

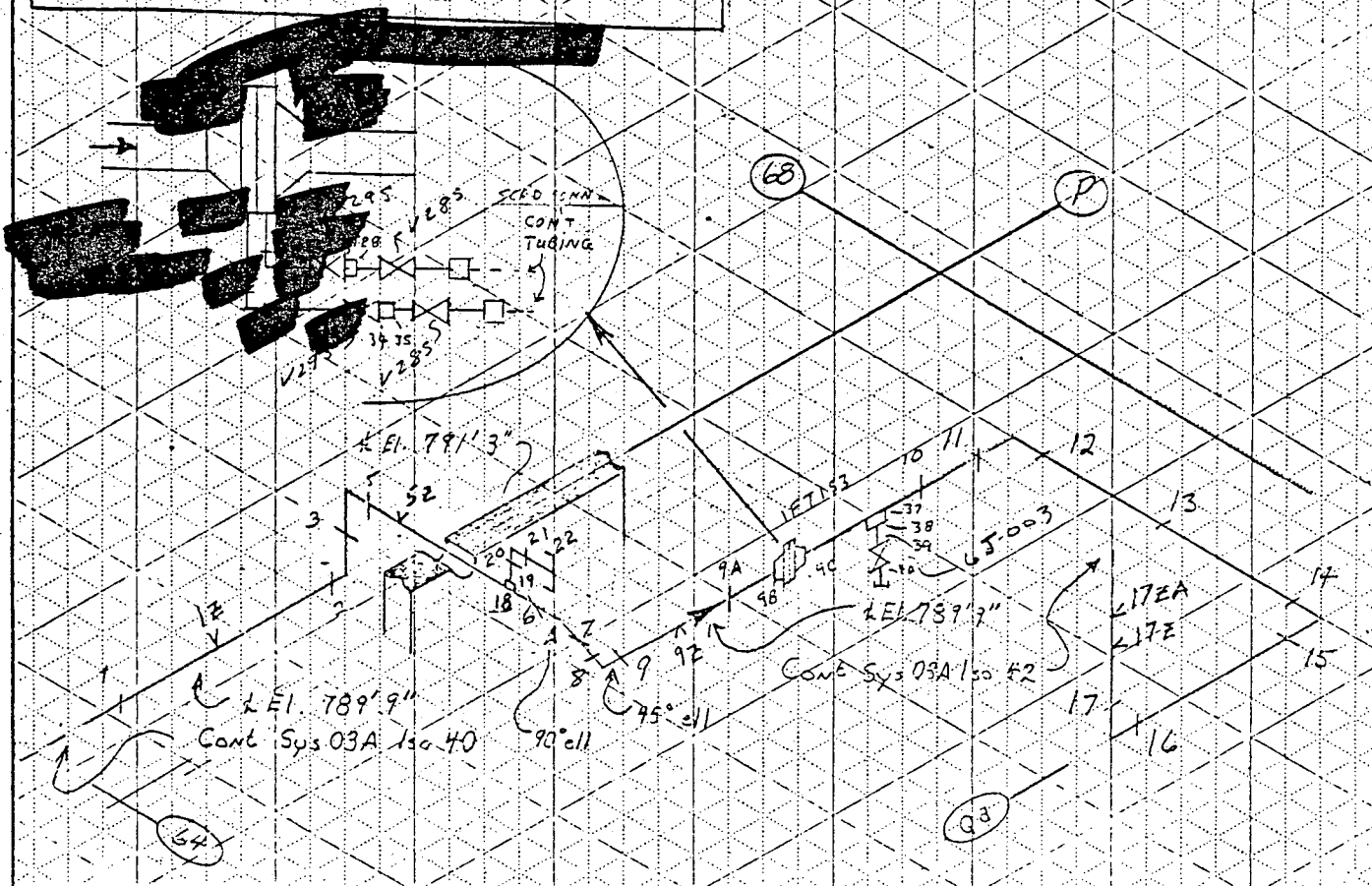
DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

Emerg. Fd. Wt. "1A"

# ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 03A SUB SYSTEMS (1) UNIT 1AB ISO. NO. \* 41 REV. NO. 10  
CLASS F MATERIAL CFE / CRES 304 WELDING PROCEDURE P-3A/B LAST WELD NO. \* 40 DATE 5-4-79

CLASS F, 100% RT ALL BUTT WELDS OVER 3/4" WALL THICKNESS. 100% MT/PT ALL BRANCH AND ATTACHMENT WELDS. 100% MT/PT ALL FILLET AND SOCKET WELDS OVER 4" DIAMETER. 5% RANDOM RT (1 JOINT PER MONTH MINIMUM) ALL BUTT WELDS 6" AND OVER IN DIAMETER ON A WELDER BASIS.



REF. DWG. NOS.	SIZE x WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES		ISO. REV. NO.	CHANGES	
					±	WELD NOS.		±	WELD NOS.
#373	CFE 6"Ø x .432"	1-3, 9A, 9B, 9C, 5-17	9	1	+	9A			
	CFE 1"Ø x .179"	37	6	2	-	37			
VN. 5363	CFE 1"Ø x .179"	38-40	0	3	+	53			
	CRES 304 1/2"Ø x .147	28, 35	0	11B	+	17E-11-15			
	CFE 4"Ø x .127	18-22	0	11A	+	17E, 9E			
	CRES 304 3/4"Ø x .154	24-27, 31-34	0	51A	+	15-22, 23T			
	CRES 304 3"Ø x .154	23, 30	0	2	+	17EA			
					-	22T			
SP-1796	ATTACH. WELD	17EA	6	1	+	9A, 9C, 33-40			
NSM-1275	ATTACH. WELD	5A, 17E, 17, 9E	6	1	-	3E			

\*ALL WELD NUMBERS SHOWN ABOVE ARE PRECEDED BY THE ISO. NO.

RLM

NOT EXCEPT 2:22

PARADISE

B. Paradise

R.L.M.

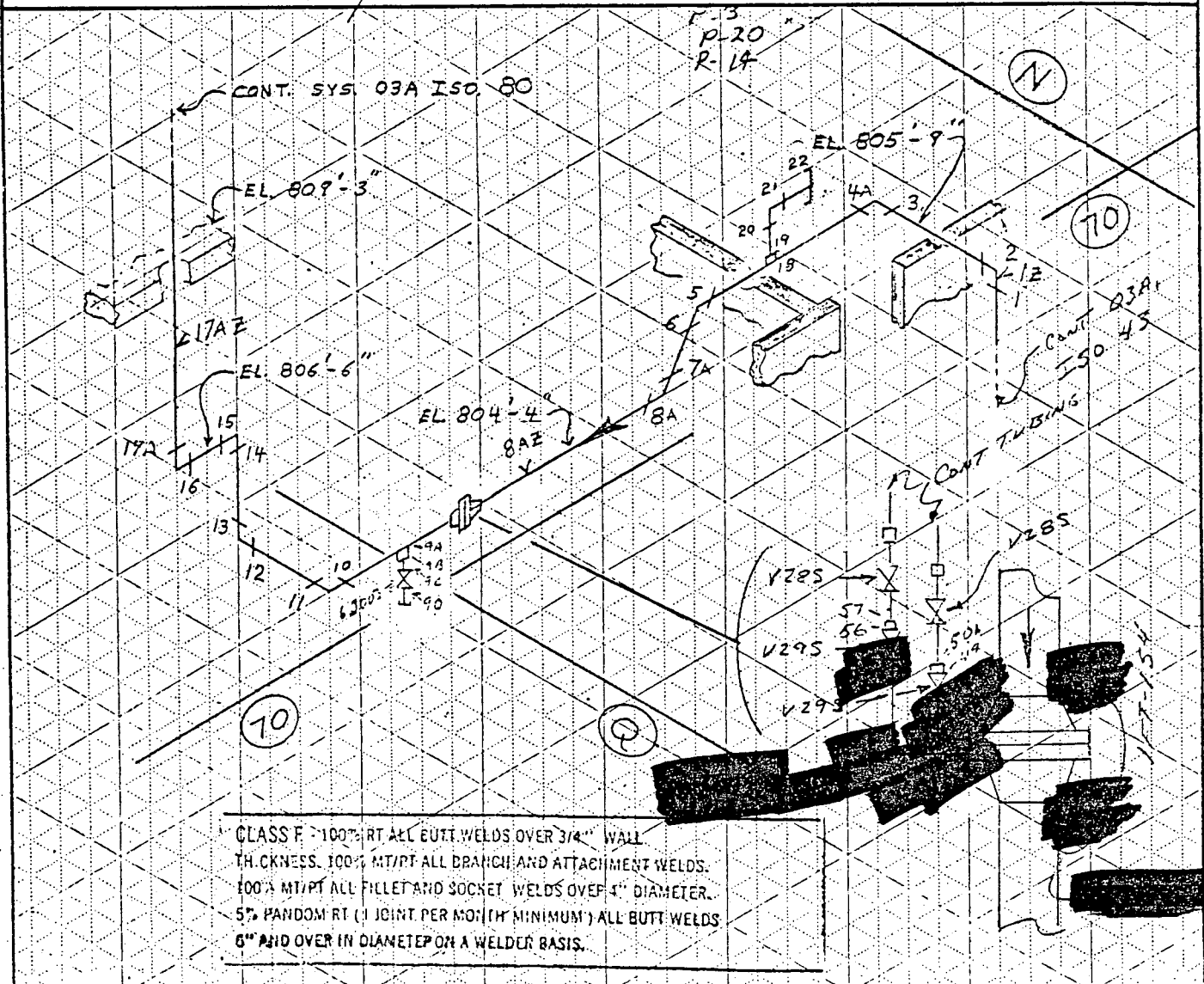
DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

EMERG. FD. WTR. BY-PASS (2)

## ISOMETRIC SKETCH

1B

PROJECT OCONEE SYSTEM 03A SUB SYSTEMS (1) UNIT 1A-B ISO. NO. \* 44 REV. NO. 10  
 CLASS F MATERIAL CFE/CPS WELDING PROCEDURE SA4B LAST WELD NO. \* 58 DATE 5-4-79



REF. DWG. NOS.		SIZE x WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES		ISO. REV. NO.	CHANGES	
DWG.	REV.					WELD NOS.	±		WELD NOS.	±
433 E	1/1	6" x .432"	1-3, 10-15, 17A, 5A	9	1	7, 8	±	3	- 22T	±
6P1796		4" x .80	17A, 5, 6, 4A	9	1	10-15, 17A, 5A	±	3	8A, 8	±
CFE/CPS		3/4" x .154"	45, 52	0	2	17A	±	10	9A, 9B, 9C, 9D	±
		1/2" x .147	15-22, 23	0	3	17, 10-25, 15	±	10	8B, 8C, 45-58	±
CRE/304		1/2" x .147	55A, 51	0	4	4	±	11	50, 51, 52	±
		1" x .179	9A	5	5	43	±		50A	±
		1" x .179	9A, 9B, 9C, 9D	0	6	17, 10-25, 15	±			±
CRE/304		3/4" x .154	46-49, 53-56	0	7	17A, 17A, 17A	±			±
1512 1225		ATTACH WELD	17, 17A, 5A, 5B	6	8	15-22, 22T	±			±

\*ALL WELD NUMBERS SHOWN ABOVE ARE PRECEDED BY THE ISO. NO.  
 DLO NOT EXCEPT 5132

\*ALL WELD NUMBERS SHOWN ABOVE ARE PRECEDED BY THE ISO. NO.

