

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7912040293 DOC. DATE: 79/11/27 NOTARIZED: NO  
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.  
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.  
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.

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AUTH. NAME: PARKER, W.O.  
 RECIP. NAME: DENTON, H.R.  
 REID, R.W.  
 AUTHOR AFFILIATION: Duke Power Co.  
 RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation  
 Operating Reactors Branch 4

SUBJECT: Forwards requests for relief from requirements of ASME Boiler & Pressure Vessel Code Section XI, due to impracticality of performing hydrostatic testing of portions of low pressure svc water, chemical addition & nitrogen sys.

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	15 CORE PERF BR	1	1	17 ENGR BR	1	1
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	20 EEB	1	1	21 EFLT TRT SYS	1	1
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# DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

November 27, 1979

TELEPHONE: AREA 704  
373-4083

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

Attention: Mr. R. W. Reid, Chief  
Operating Reactors Branch No. 4

Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

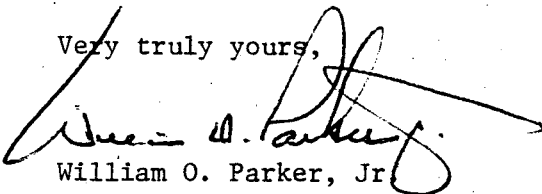
Dear Sir:

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

The requests concern the impracticality of performing hydrostatic testing of portions of the Low Pressure Service Water, Chemical Addition, and Nitrogen Systems.

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

Very truly yours,

  
William O. Parker, Jr.

SRL/sch  
Attachments



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DUKE POWER COMPANY

OCONEE NUCLEAR STATION

REQUESTS FOR RELIEF FROM ASME SECTION XI

HYDROSTATIC TESTING REQUIREMENTS

A.1. Component for Which Relief is Requested:

(a) Name and Number

- (1) Nitrogen Supply Header - Duke System No. 48 and
- (2) Chemical Addition Lines to Core Flood Tanks - Duke System No. 63.

(b) Function

- (1) The nitrogen supply header furnishes nitrogen to various components within the Reactor Building.
- (2) The chemical addition lines supply nitrogen, chemical addition and high pressure injection make-up to the core flood tanks.

(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 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:

Check valves N-247 and N-248 were installed in the chemical addition lines to the core flood tanks. The welds (see Attachment A) were not hydrostatically tested, since there are no isolation valves to the core flood tanks inside the Reactor Building. The hydrostatic test pressure for the chemical addition lines of 1575 psig would exceed the Hydrostatic test pressure for the core flood tanks of 1050 psig.

Check valve N-246 was also installed in the nitrogen supply header. The welds were not hydrostatically tested due to the undesirability of introducing water into the system. Water remaining in the lines after the test could result in unwarranted corrosion.

4. Alternate Examinations:

The socket welds received the normal visual examinations and were also dye penetrant tested and found to be satisfactory. Isometric sketches are attached identifying the welds.

5. Implementation:

The valves were installed in July 1979 on Unit 3. It is anticipated that similar valves may be installed on Units 1 and 2 during the upcoming refueling outage for each unit.

Ellensburg

Cater

No Foreman Review

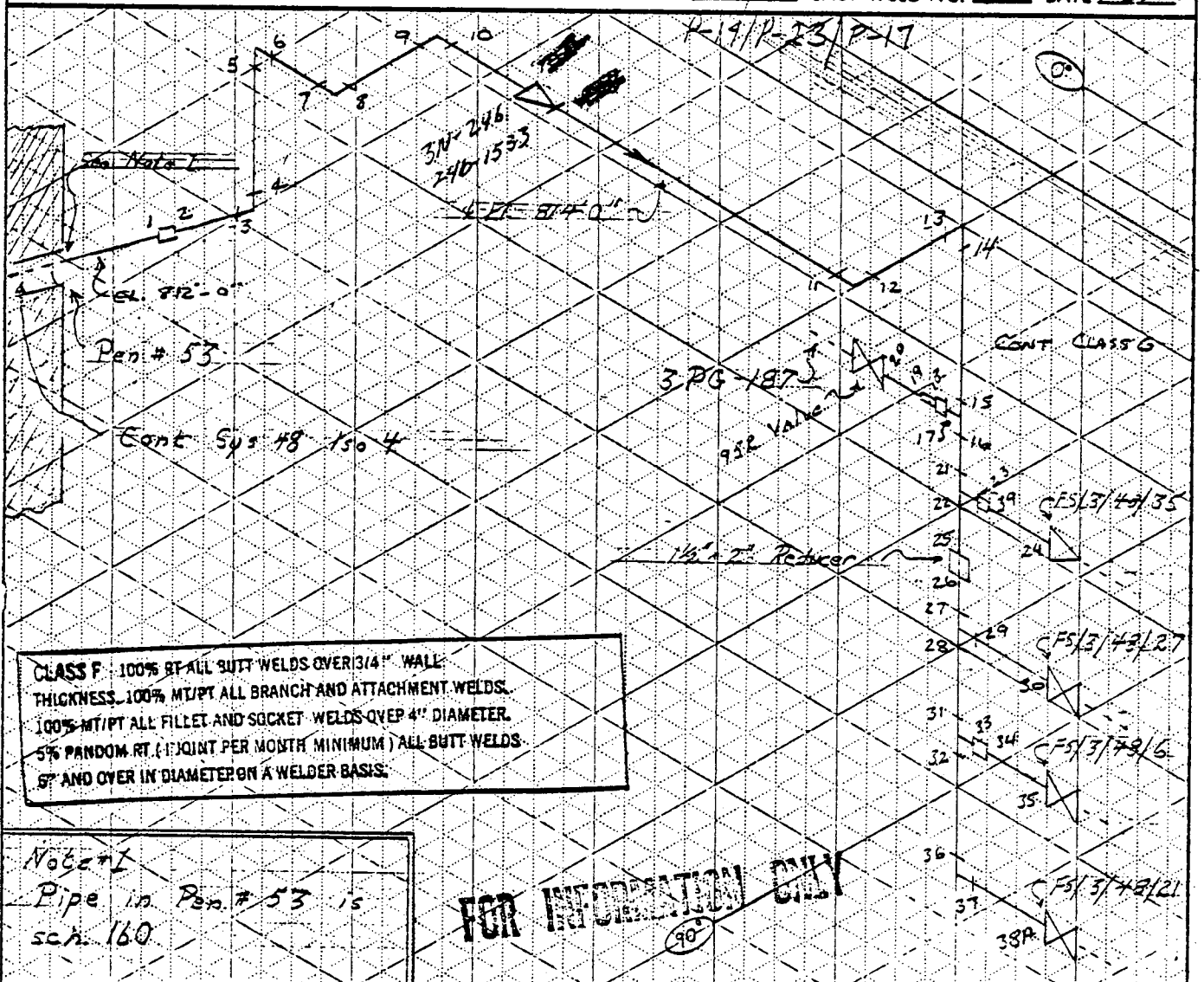
L.M.

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

Nitrogen to R.B.

## ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 48 SUB SYSTEMS 3 UNIT 3RR ISO. NO. 5 REV. NO. 4  
 CLASS F MATERIAL CFE WELDING PROCEDURE P-5A/P-5B LAST WELD NO. 29 DATE 7-23-79



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 POINT PER MONTH MINIMUM) ALL BUTT WELDS 5" AND OVER IN DIAMETER ON A WELDER BASIS.

Notes

Pipe in Pen # 53 is  
sch. 160.

FOR INFORMATION ONLY

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.
2479B	1/1A	1 1/2" x 1.200	1-17, 21-23	FOE O 1	1	REPUNCH: 38		
2479C		" "	25, 34, 35		2	ADD W.P.		
		" "	10A, 10B	FOE O 1	2	- 38		
		2" x 2.18	26-33, 36, 37	FOE O	3	+ 38A		
		1" x 1.79"	39, 24, 18	FOE O	3	- 1, 2		
		1" x 1.79"			4	+ 1A, 2A		
		1 1/2" x 1.47"	19, 20	FOE O	4	- 1A, 2A		
NEW 1328						READD 1, 2		
PD-127B		2" x 2.18"	38A	FOE O		+ 10A, 10B		

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

RLM

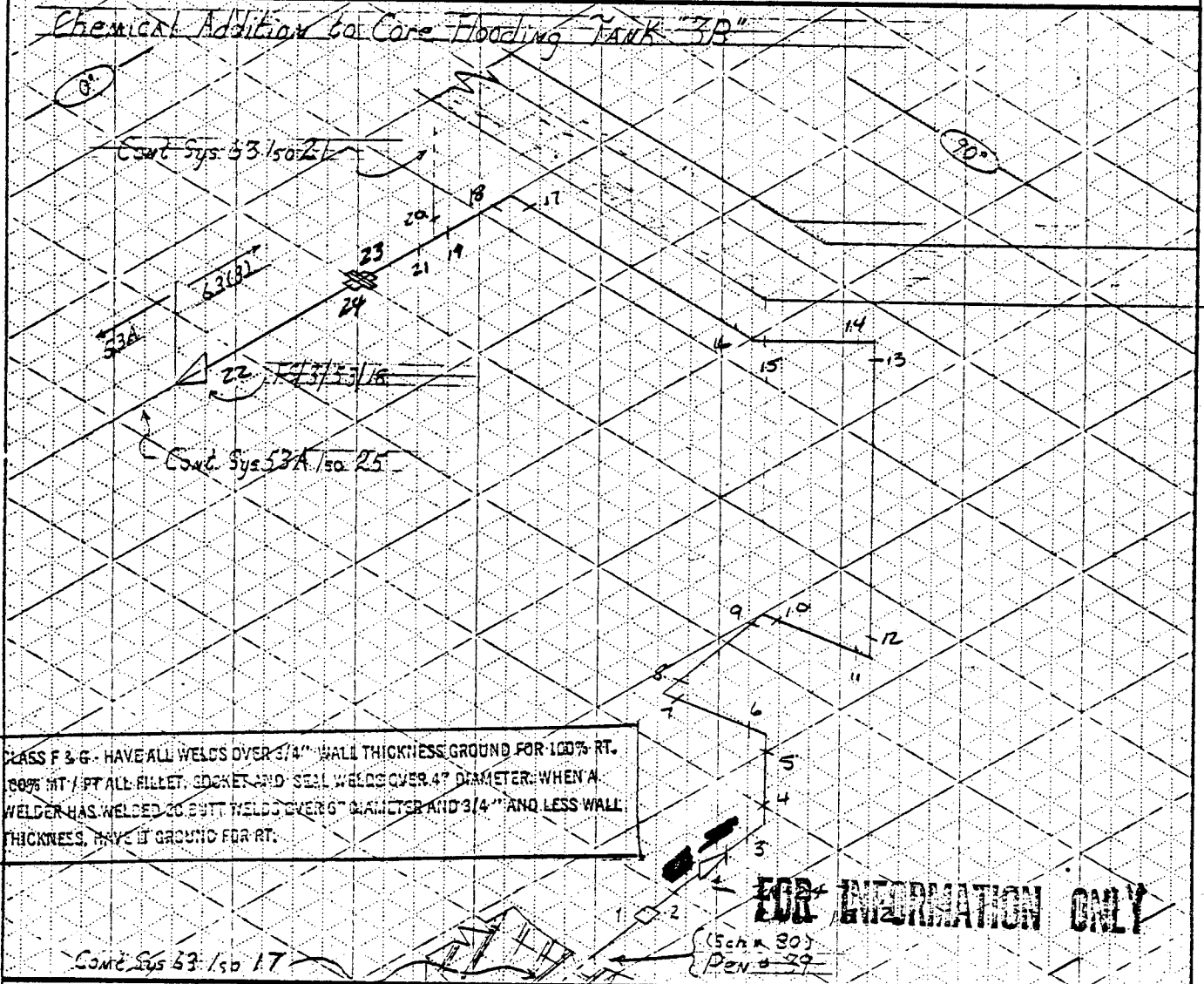
U by K.D. Foreman 12 Feb 73

ELLENBURG

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

## ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 63 SUB SYSTEMS (3) UNIT 3A ISO. NO. 18 REV. NO. 5  
 CLASS F MATERIAL CRES/304 WELDING PROCEDURE P-7, L-201 LAST WELD NO. 24 DATE 7-13-79

Chemical Addition to Core Flooding Tank "3B"

CLASS F & G - HAVE ALL WELDS OVER 3/4" WALL THICKNESS GROUND FOR 100% RT.  
 50% RT / PT ALL FILLET, SOCKET AND SEAL WELDS OVER 4" DIAMETER. WHEN A  
 WELDER HAS WELDED 20 BUTT WELDS OVER 6" DIAMETER AND 3/4" AND LESS WALL  
 THICKNESS, HAVE IT GROUND FOR RT.

FOR INFORMATION ONLY

REF. DWG. NOS.		SIZE x WALL THICKNESS	WELD NUMBERS	NOT CODE	WELD NUMBERS	ISO. REV. NO.	WELD NUMBERS	
DWG.	REV.						ADDED	DELETED
2479D	N/A	1" x 122" H)	1-22, 23, 24	F 304	01	1	(ADD CONT. NOTE)	15/FEB 72
2490A	1		2A, 2B	F 304	01	2	SHOW DEN. SCH	
2492B						3	23, 24	
V.N. 5038						4	2A, 2B	N/A
						5	REWORK - 2A & 2B	
NSM 1328	1							
PO 127B								

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

R.L.M.

✓ 6-11-79 24 N. 72

✓ 6/24/2012

B.1. Component for Which Relief is Requested:

(a) Name and Number

Low Pressure Service Water (LPSW) High Point Vent Valve - Duke System No. 14B.

(b) Function

The LPSW system supplies low pressure cooling water to various components outside the Reactor Building.

(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 Determined to be Impractical:

ASME Boiler & Pressure Vessel Code Section XI, 1974 Edition, including 1975 summer addenda, article IWD-5000, System Pressure Test.

3. Basis for Requesting Relief:

A 4" LPSW line supplying seal water to a polishing demineralizer was cut and capped. In order to facilitate the subsequent filling of the LPSW system, a valve to provide a high point vent was installed on a 36" line. However, the welds could not be hydrostatically tested due to leakage through valve 3LPSW-132, which is normally open. In order to isolate the valve and effect repairs the decay heat coolers must be isolated. The coolers can be isolated only for a short period while the unit is in a heatup mode, and the available time is not sufficient to allow valve 3LPSW-132 to be repaired.

4. Alternate Examinations:

The valve installed to provide the high point vent was performance-tested, and the cap installed on the 4" line was radiographed. All welds were found to be satisfactory. In addition, the new welds were visually inspected when the LPSW system was returned to service. It is anticipated that a hydrostatic test will be performed during the 10-year inservice inspection, when the decay heat coolers can be isolated.

5. Implementation:

The modification was made in order to isolate non-seismic piping from a safety-related portion of the Unit 3 LPSW system. This was in response to a NRC commitment resulting from IE Bulletin 79-14. The welds are shown on the isometric provided as Attachment B.



JESSE - K. CATER

M. J. PERRY (10-1-5)

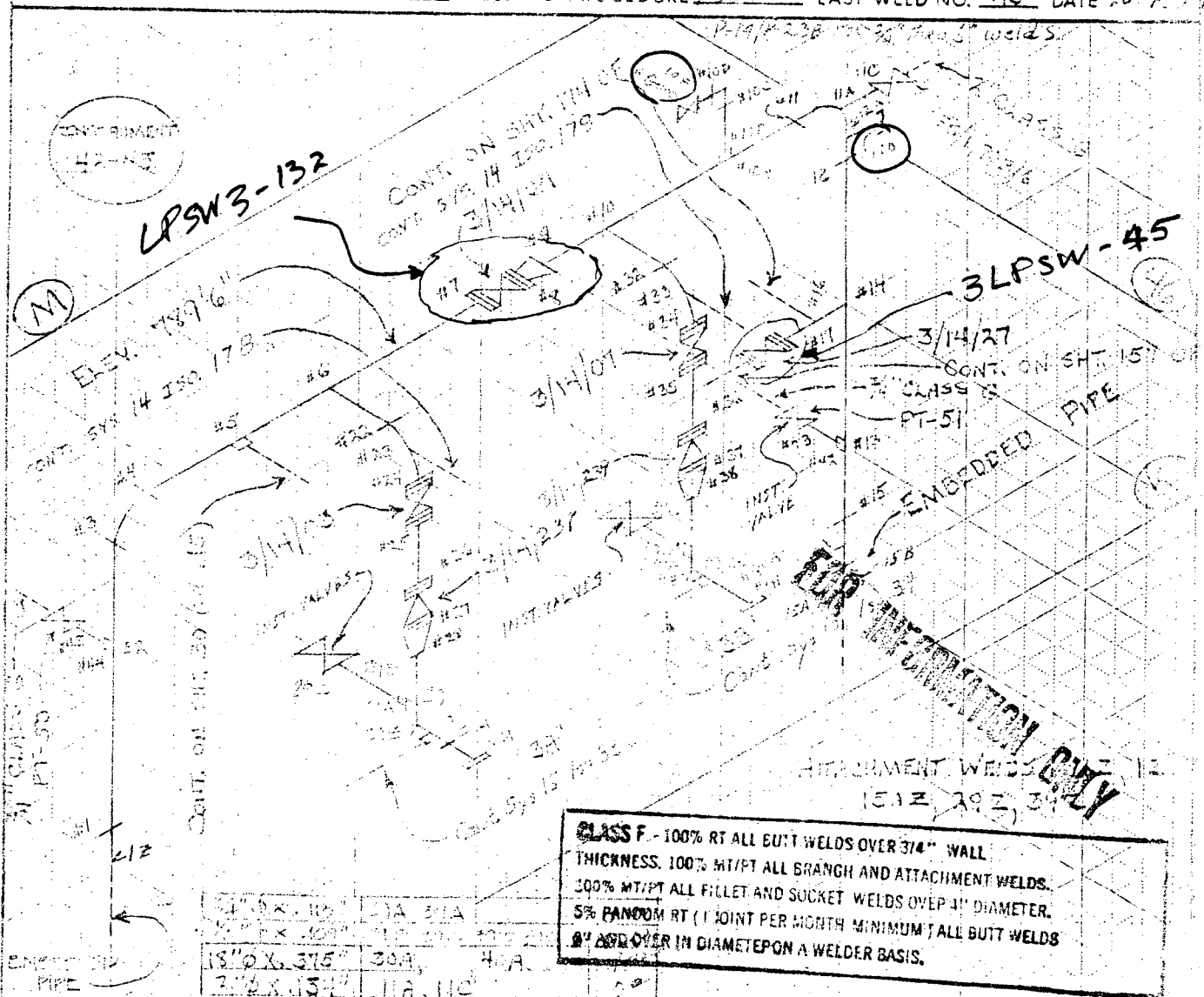
R.L.M.

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

K.P.S.W. PUMP "3A" "3B"

## ISOMETRIC SKETCH DISCHARGE

PROJECT COONEE SYSTEM 14B SUB SYSTEMS (1) UNIT 3TB ISO. NO. 156 REV. NO. 15  
 CLASS F MATERIAL CPE WELDING PROCEDURE 1-202 LAST WELD NO. 45 DATE 10-4-79



**CLASS F** - 100% RT ALL BUTT WELDS OVER 3/4" WALL THICKNESS. 100% MT/PT ALL BRANCH AND ATTACHMENT WELDS. 300% MT/PT ALL FILLET AND SOCKET WELDS OVER 4" DIAMETER. 5% RANDOM RT (1 POINT PER MONTH MINIMUM) ALL BUTT WELDS 2" 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
DWG.	REV.				WELD NOS.		WELD NOS.
2400 A	16	3/4" x .113"	2, 13, 29, 30, 39, 40	6	15BZ		
2400 J	7	1 1/2" x .145"	5	6	15AZ		
		3" x .216"	23, 33	6	ADD VALVE NOTE		
PQ. 124 C		3" x .323"	16	6	12B		
		14" x .375"	14, 17	9	10 E		
		15" x .375"	23, 38, 31, 41	9	10 F		
		24" x .375"	1, 3, 4, 6, 8, 10, 22	9			
		24-27, 32, 34-37		9			
		36" x .375"	9, 11, 13, 15, 15A, 15B	9			
		3/4" x .113"	42-45, 104-100, 105	9			

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