

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.

DOCKET #  
 05000269  
 05000270

AUTH. NAME: PARKER, W.O.  
 AUTHORITY AFFILIATION: DUKE POWER CO.  
 RECIPIENT NAME: DENTON, H.R.  
 RECIPIENT AFFILIATION: OFFICE OF NUCLEAR REACTOR REGULATION

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.

ACTION:	RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
		LTR	ENCL		LTR	ENCL
	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			

MAY 24 1979

TRACY  
 LED

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 WATH*

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 Oconee 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

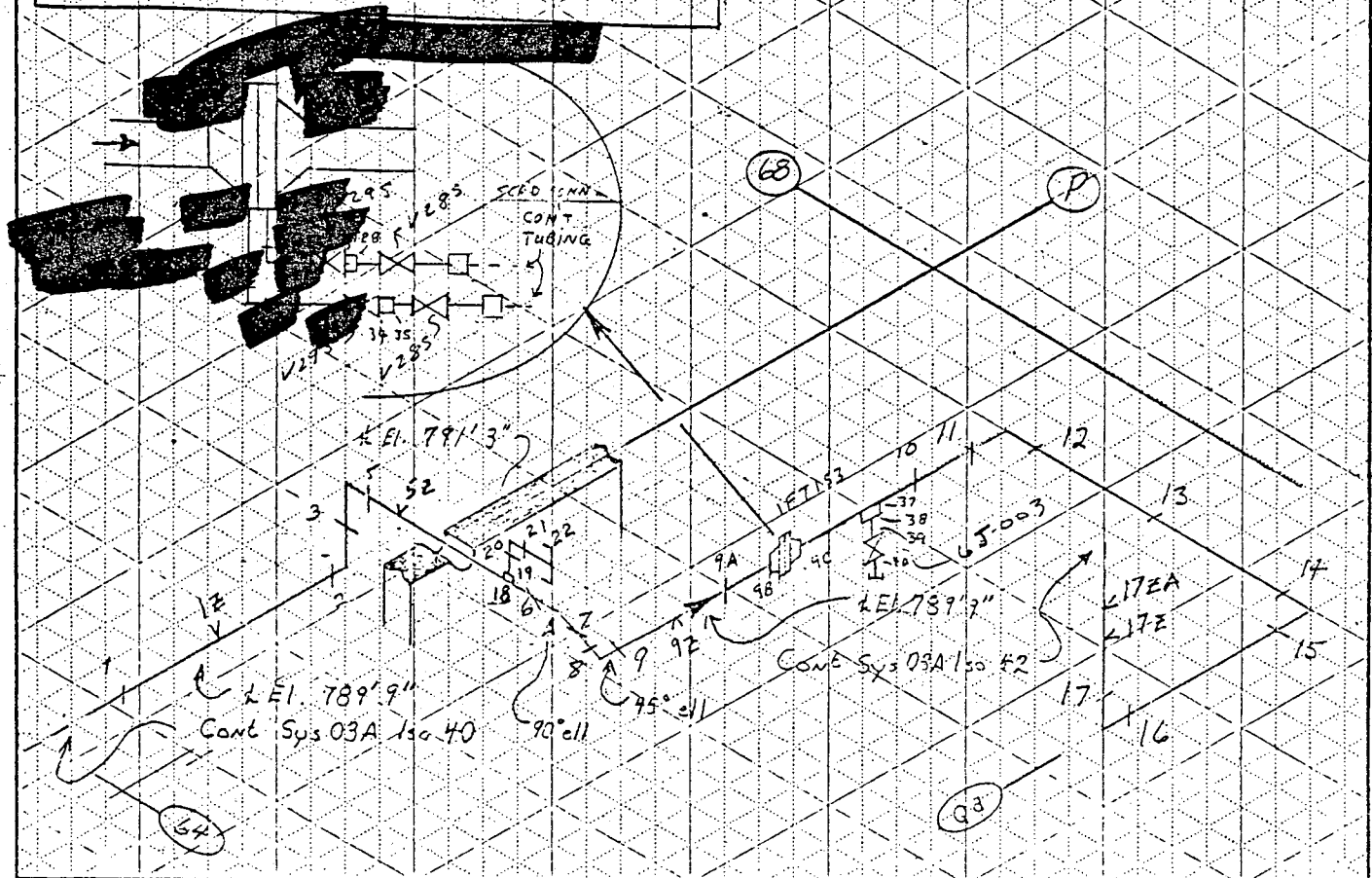
DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

Emerg. Fd. Wt. "1A"

ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM Q3A SUB SYSTEMS (1) UNIT 1A ISO. NO. \* 41 REV. NO. 10  
CLASS F MATERIAL CFE/CFES 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% PANDEM RT (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	1	±	+ 38, 39, 40			
	CFES 304 1/2"Ø x .147	28, 35	0	1	±	+ 28, 35			
	CFE 1/2"Ø x .127	18-23	0"	1	±	+ 18, 19, 20, 21, 22, 23			
	CFES 304 3/4"Ø x .154	24-27, 31-34	0	1	±	+ 24, 25, 26, 27, 31, 32, 33, 34			
	CFES 304 2"Ø x .154	23, 30	0	1	±	+ 23, 30			
SP-1796	ATTACH. WELD	17ZA	6"	1	±	+ 9A, 9C, 33-40			
NSM-1275	ATTACH. WELD	5, 17Z, 17, 9Z	6"	1	±	- 17, 30			

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



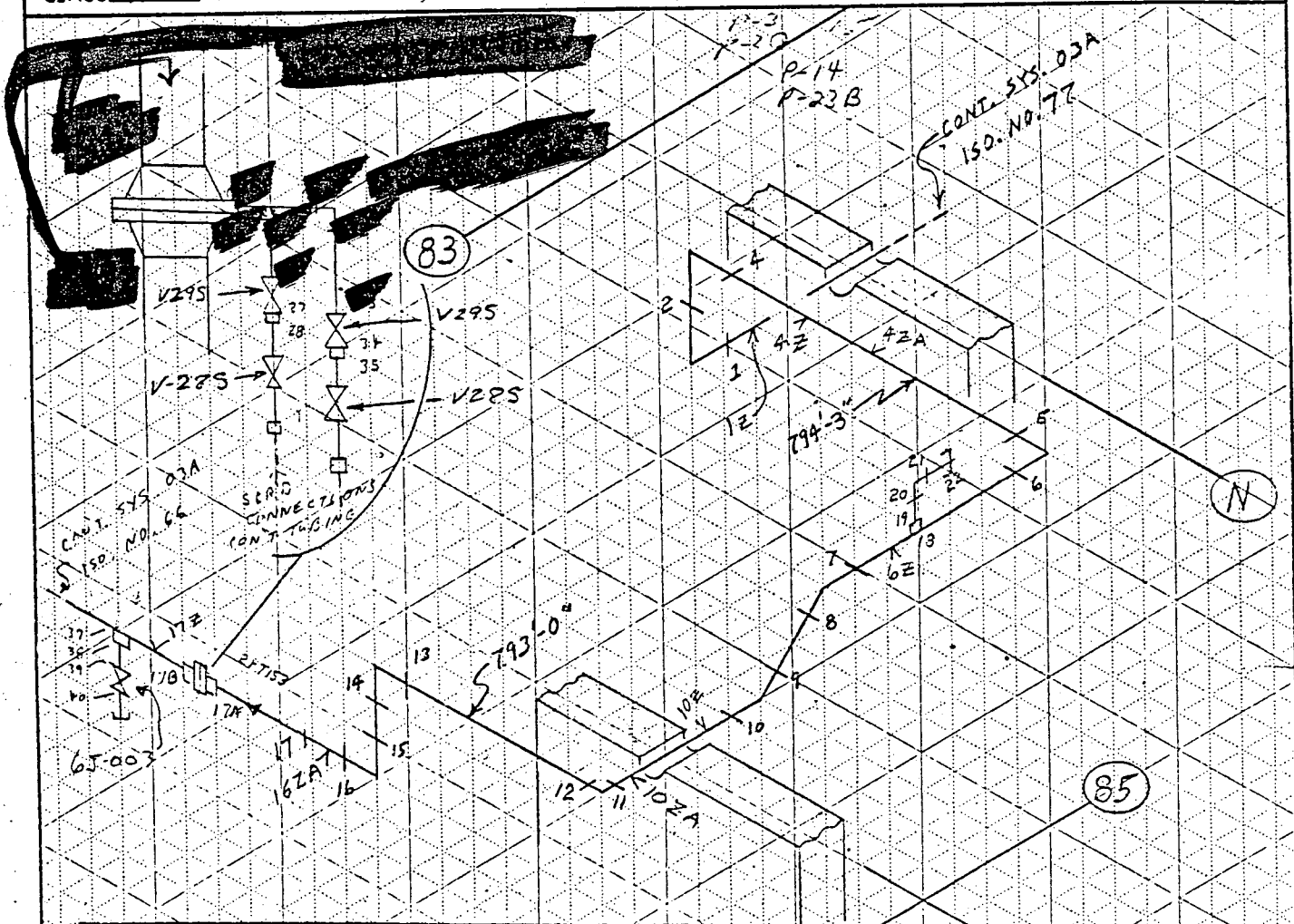
PARADISE  
L.R.D. BY JPI  
RLM

DUKE POWER COMPANY EMERG. FEED WTR. LINE "2A"  
CONSTRUCTION DEPARTMENT

ISOMETRIC SKETCH

2A

PROJECT DCONEE SYSTEM 03A SUB SYSTEMS (1) UNIT 2A ISO. NO. 65 REV. NO. 12  
CLASS F MATERIAL CFE, CRES 304 WELDING PROCEDURE S11 LAST WELD NO. 40 DATE 5-8-79



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. GUARD OVER IN CONTACT ON A WELDER BASIS.

REF. DWG. NOS.		SIZE x WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES WELD NOS.	ISO. REV. NO.	CHANGES WELD NOS.
1437A	CFE	6" x .432	1, 2, 4-16, 17, 17A, 17B, 17C, 17D, 17E, 17F, 17G, 17H, 17I, 17J, 17K, 17L, 17M, 17N, 17O, 17P, 17Q, 17R, 17S, 17T, 17U, 17V, 17W, 17X, 17Y, 17Z	7	1	5-22-72	10	17A, 17E, 23-40
	CFE	1" x .179	37	6	2	11-16-72	11	24, 36
	CFE	1" x .179	38-40	0	3	4-21-72, 10-17-72	12	REWORK 37-40
SP-1677		1/2" x .147	18-22, 19	0 P1	4	12-11-72		
	CRES 304	3" x .154	24-27, 31-34	0	5	1-5-72		
	"	3" x .147	23, 35	0	6	5-2-72		
	CRES 304	6" x .154	23, 30	0	7	1-2-72		
		ATTACH WELD	4, 16, 17A, 17B, 17C, 17D, 17E, 17F, 17G, 17H, 17I, 17J, 17K, 17L, 17M, 17N, 17O, 17P, 17Q, 17R, 17S, 17T, 17U, 17V, 17W, 17X, 17Y, 17Z, 10, 10A, 63, 1/E	6	8	1-18-72, 2-27-72		

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

PARADISE  
LRB BY JPF  
RLM

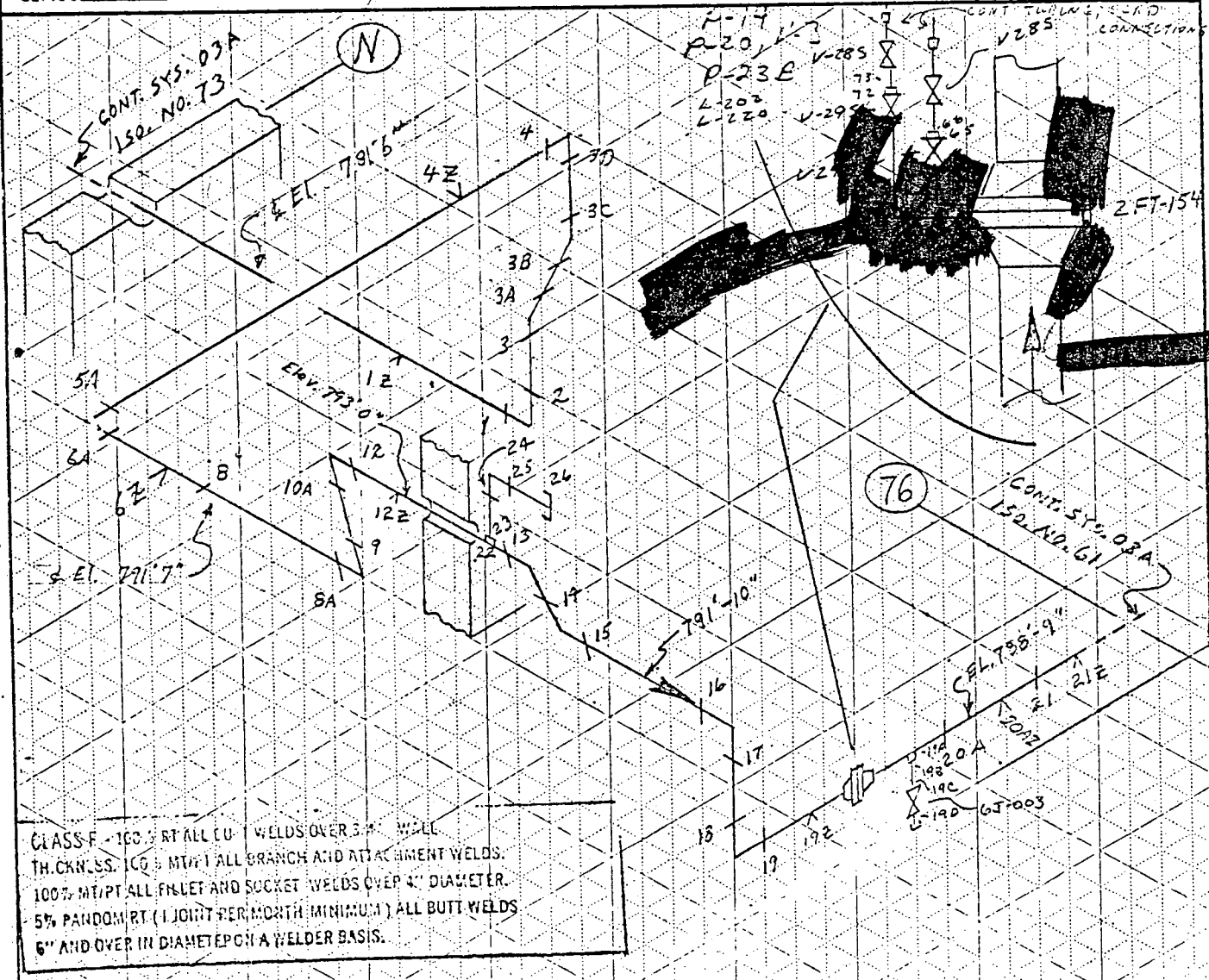
DUKE POWER COMPANY EMERG. FEED WTR. HEADER  
CONSTRUCTION DEPARTMENT

ISOMETRIC SKETCH

(ZP) 2FT-154

PROJECT OCONEE SYSTEM Q3A SUB SYSTEMS (1) UNIT 2A.B ISO. NO. \* 60 REV. NO. 13

CLASS F MATERIAL CFE/CRES WELDING PROCEDURE P-5/P-6 LAST WELD NO. \* 68 DATE 5-1-79



CLASS F - 100% RT ALL BUT WELDS OVER 3" WELD TH. CKN. SS. 100% MTW/1 ALL BRANCH AND ATTACHMENT WELDS. 100% MT/PT ALL FILLET AND SOCKET WELDS OVER 4" DIAMETER. 5% PANDUM 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.
437B	1/4"	1-4, 12-19, 8A	9	1	-	11	1	-	47, 67
SP-1677	3/8" x .1875	9, 5A, 5A, 22A	9	1	+	5A	1	+	12, 12E
CRES/304	1/2" x .147	66, 67, 73, 74		2	-	5-7, 10	2	-	22-26, 26T
CRES/304	3/4" x .154	12, 25, 29-72		2	+	51, 62, 76	2	+	26T
	1/2" x .147	22-26, 66, 73	0 W	3	+	5-7, 10	3	+	19A, 19E, 19C, 19D
CFE/CRES-	7/8" x .154	61, 68	0	3	-	20	3	-	19E, 19F, 61-74
	1" x .179	19A	6	3	+	20A	3	+	67, 74
	1" x .179	19E, 19C, 19D	0	4	-	21	4	-	
		* ATTACH. WELDS: 20AB, 19E,	6	5	-	20AB	5	-	
		12E, 21E, 4E, 6E, 1E	6	5	-	19E, 21E	5	-	

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