

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7912040434 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.

DOCKET  
 0500026  
 0500027  
 0500028

AUTH. NAME PARKER, W.O. AUTHOR AFFILIATION Duke Power Co.  
 RECIP. NAME PARKER, W.O. RECIPIENT AFFILIATION Operating Reactors Branch 4

05000269  
 05000270  
 05000287

SUBJECT: Forwards requests for relief from inservice insp requirements of ASME Boiler & Pressure Code, Section XI due to impracticality of performing volumetric examinations on welds in several sys.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 25  
 TITLE: General Distribution for after Issuance of Operating Lic

NOTES: M. CUNNINGHAM - ALL AMENDMENTS TO FSAR AND CHANGES TO TECH SPECS

	RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
		LTR	ENCL		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	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	EPB-DOR	1	1
	0ELD	1	0			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	23 ACRS	16	16			

DEC 6 1979

CCP

TOTAL NUMBER OF COPIES REQUIRED: LTR 39 ENCL 38

# 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

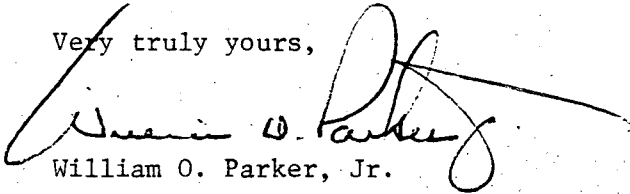
Dear Sir:

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

These requests concern the impracticality of performing volumetric examinations of welds in several 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



A001  
3  
1/1

7912040434

# REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7912040434 DOC. DATE: 79/11/27 NOTARIZED: NO DOCKET:  
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 0500026  
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 0500027  
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 0500028

AUTH. NAME: AUTH. AFFILIATION  
 PARKER, W.O. Duke Power Co.  
 RECIP. NAME: RECIPIENT AFFILIATION  
 PARKER, W.O. Operating Reactors Branch 4

05000269  
 05000270  
 05000287

SUBJECT: Forwards requests for relief from inservice insp  
 requirements of ASME Boiler & Pressure Code, Section XI due  
 to impracticality of performing volumetric examinations on  
 welds in several sys.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 25  
 TITLE: General Distribution for after Issuance of Operating Lic

NOTES: M. CUNNINGHAM - ALL AMENDMENTS  
TO FSAR AND CHANGES TO TECH SPECS

ACTION:	RECIPIENT	COPIES		RECIPIENT	COPIES	
	ID CODE/NAME	LTR	ENCL		ID CODE/NAME	LTR
	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	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	EPB-DOR	1	1
	0ELD	1	0			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	23 ACRS	16	16			

DEC 6 1979

ccp

TOTAL NUMBER OF COPIES REQUIRED: LTR 39 ENCL 38

# 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

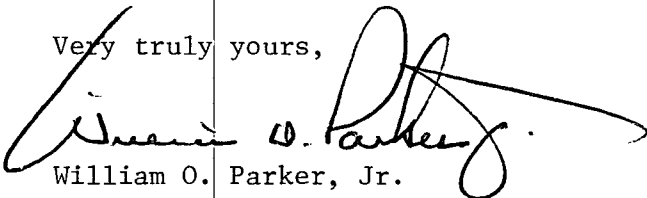
Dear Sir:

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

These requests concern the impracticality of performing volumetric examinations of welds in several 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

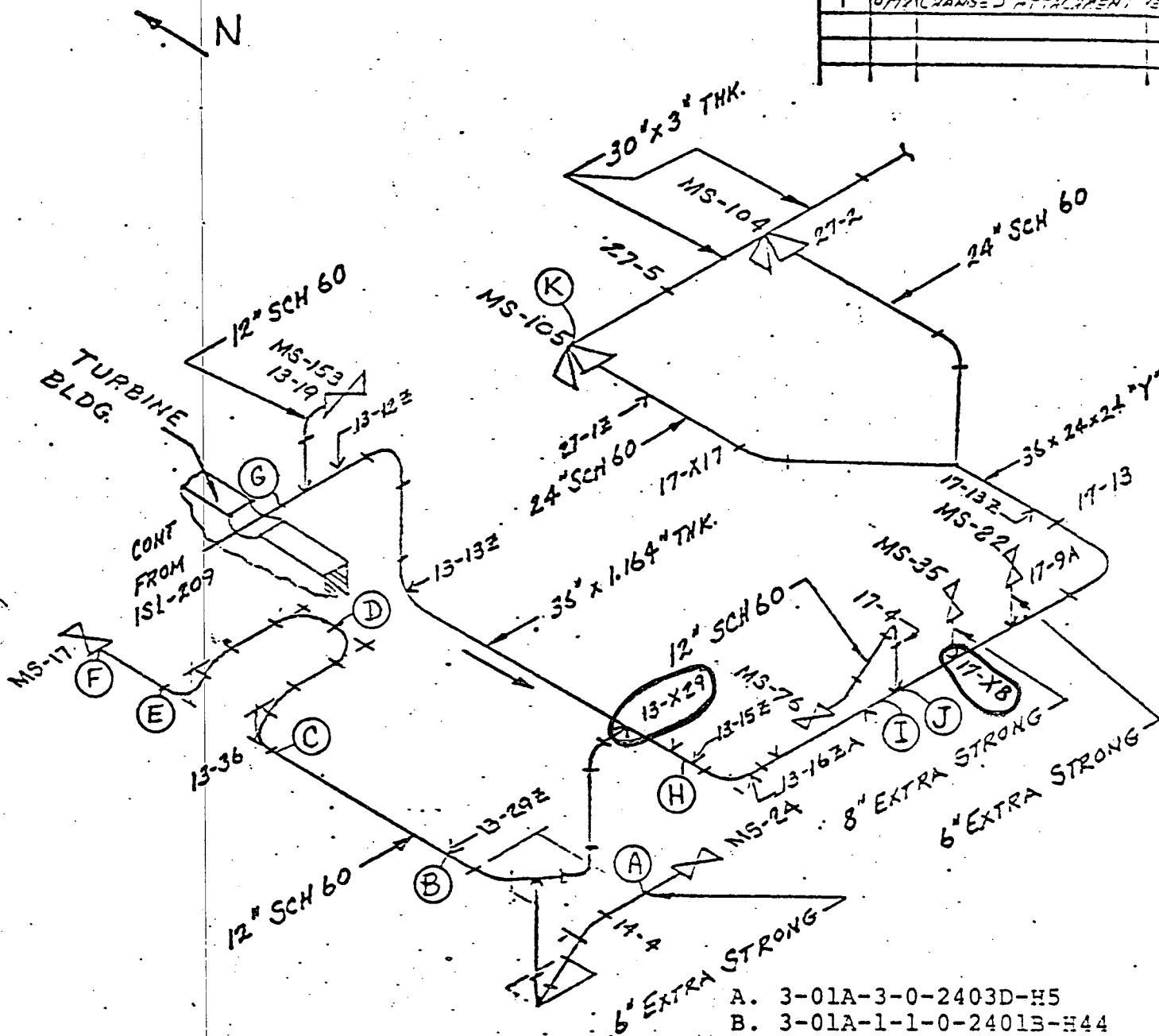


A001  
S  
1/1

7912040434

REVISIONS

DRAWING NO.	DATE	DESCRIPTION
1	8/72	CHANGED ATTACHMENT



DUKE REF.

ISO's

OIA-13

-17

-27

-14

DWG's

2401 B, G

2403 D

2441

- A. 3-01A-3-0-2403D-H5
- B. 3-01A-1-1-0-2401B-H44
- C. 3-01A-1-1-0-2401B-H45
- D. 3-01A-1-1-0-2401B-H1
- E. 3-01A-1-1-0-2401B-R10
- F. 3-01A-1-1-0-2401B-H8
- G. 3-01A-0-2441-R4
- H. 3-01A-0-2401B-H6
- I. 3-01A-0-2401B-H9
- J. 3-01A-0-2401B-R6
- K. 3-01A-0-2401B-R14

OWN. BY	DATE	REV.
150	5/5/78	1

MAIN STEAM A-TURBINE  
BLDG. TO STOP VALVES

SCALE	DATE
1:1	5/5/78

# THE BABCOCK & WILCOX COMPANY

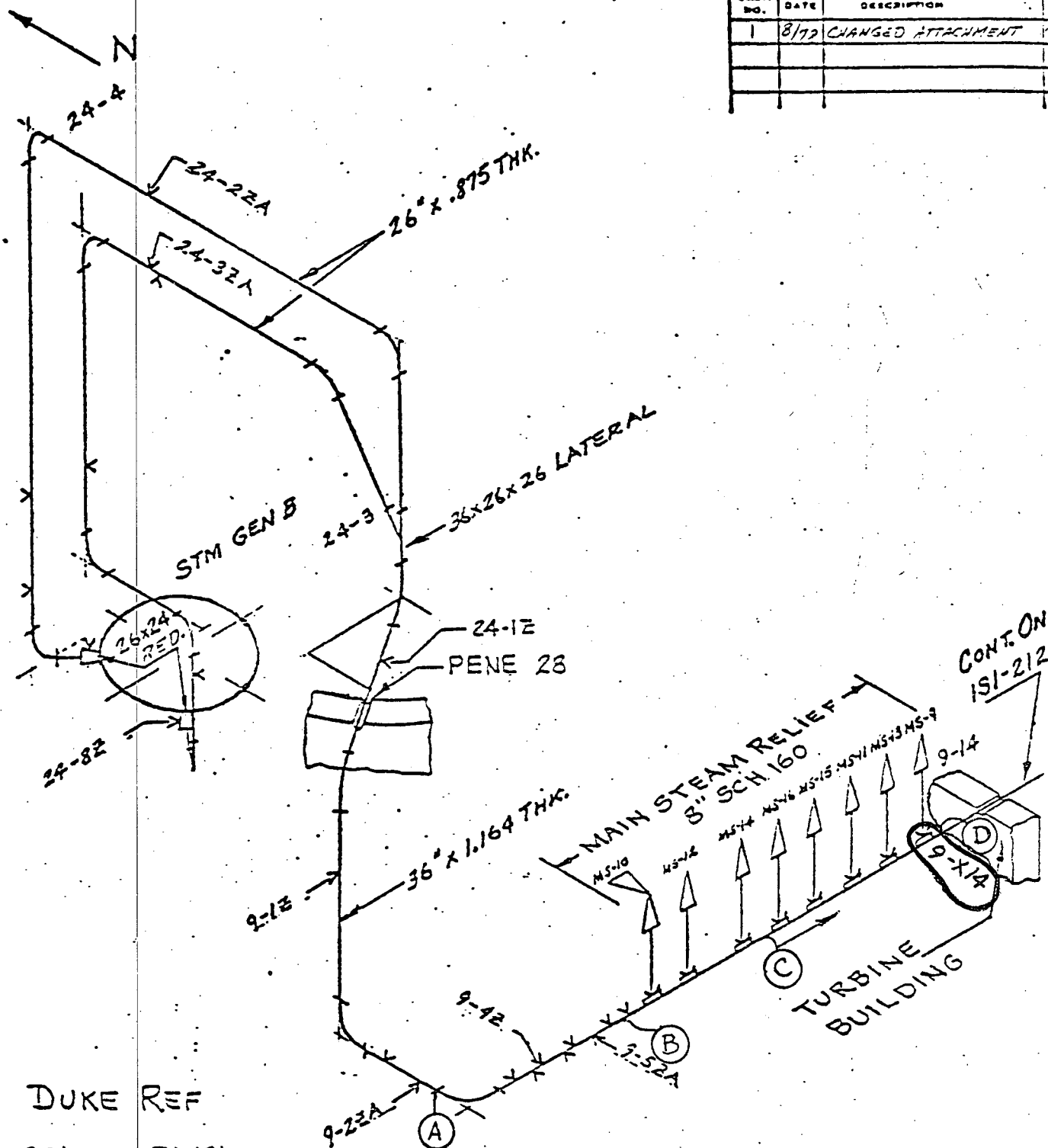
OCONEE 3

POWER GENERATION GROUP  
ATTACHMENT B-10

192-044-011

## REVISIONS

DRAWING NO.	DATE	DESCRIPTION
1	8/77	CHANGED ATTACHMENT



DUKE REF

ISO'S  
01A-24  
-9

DWG'S  
2401 B  
2441  
2480 A, B  
2481 A, B

- A. 3-01A-2441-R7
- B. 3-01A-0-2441-H14
- C. 3-01A-0-2441-R9
- D. 3-01A-0-2441-H17

OWNED BY	CHG'D
DATE	DATE

MAIN STEAM B - GEN. TO  
TURBINE BUILDING

SCALE NONE DATE 6/5/78  
DRAWN 151-211-1

# THE BABCOCK & WILCOX COMPANY

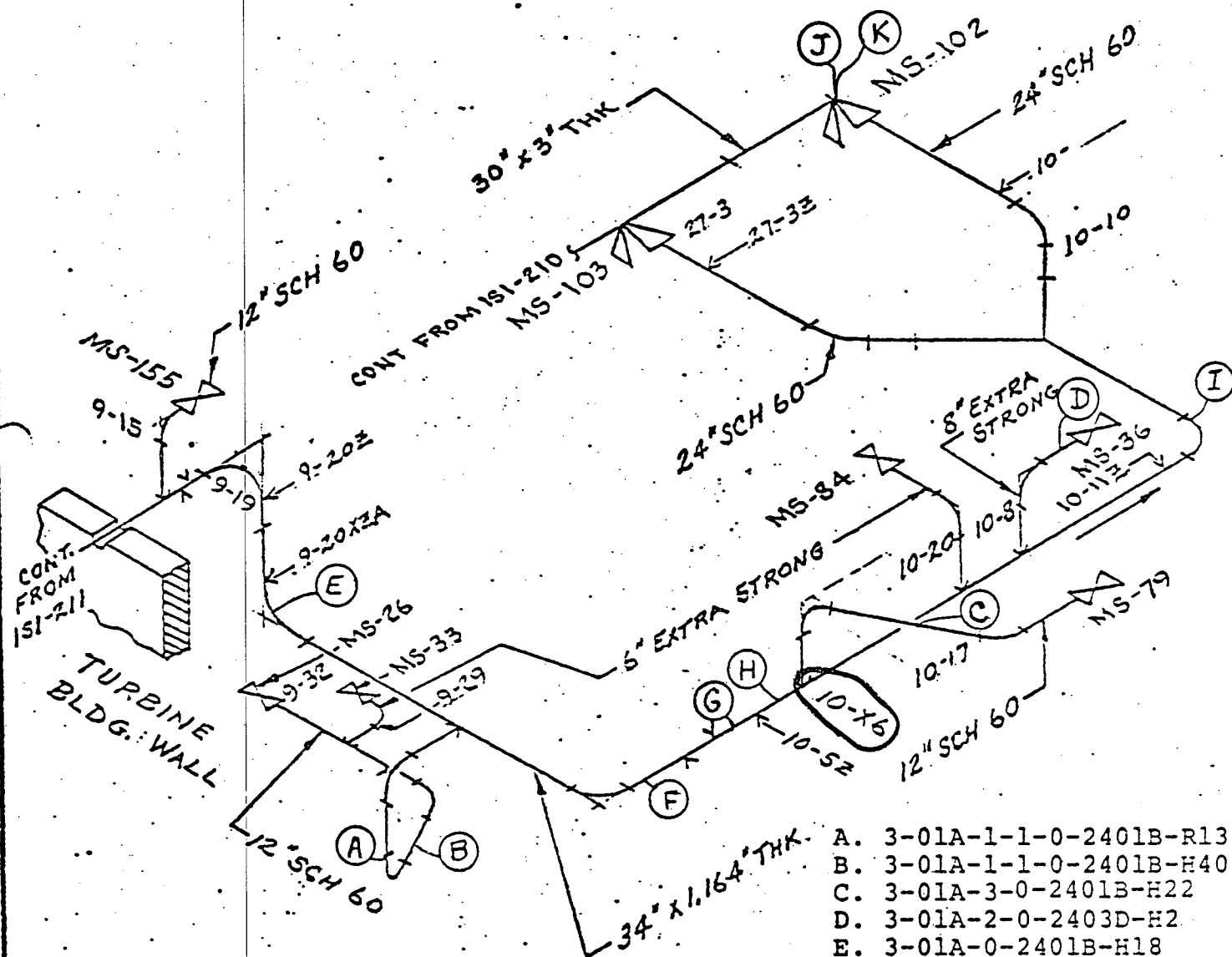
POWER GENERATION GROUP  
ATTACHMENT B-11

OCONEE 3

192-044-011

## REVISIONS

DRAW NO.	DATE	DESCRIPTION
1	8/78	CHANGED ATTACHMENTS



DUKE REF.

ISO's  
OIA - 9  
-10  
-27

DWG's  
2401 B, G  
2403 D

- A. 3-01A-1-1-0-2401B-R13
- B. 3-01A-1-1-0-2401B-H40
- C. 3-01A-3-0-2401B-H22
- D. 3-01A-2-0-2403D-H2
- E. 3-01A-0-2401B-H18
- F. 3-01A-2401B-H20
- G. 3-01A-0-2401B-R12
- H. 3-01A-2401B-H22
- I. 3-01A-0-2401B-H23
- J. 3-01A-0-2401B-R15
- K. 3-01A-0-2401B-R16

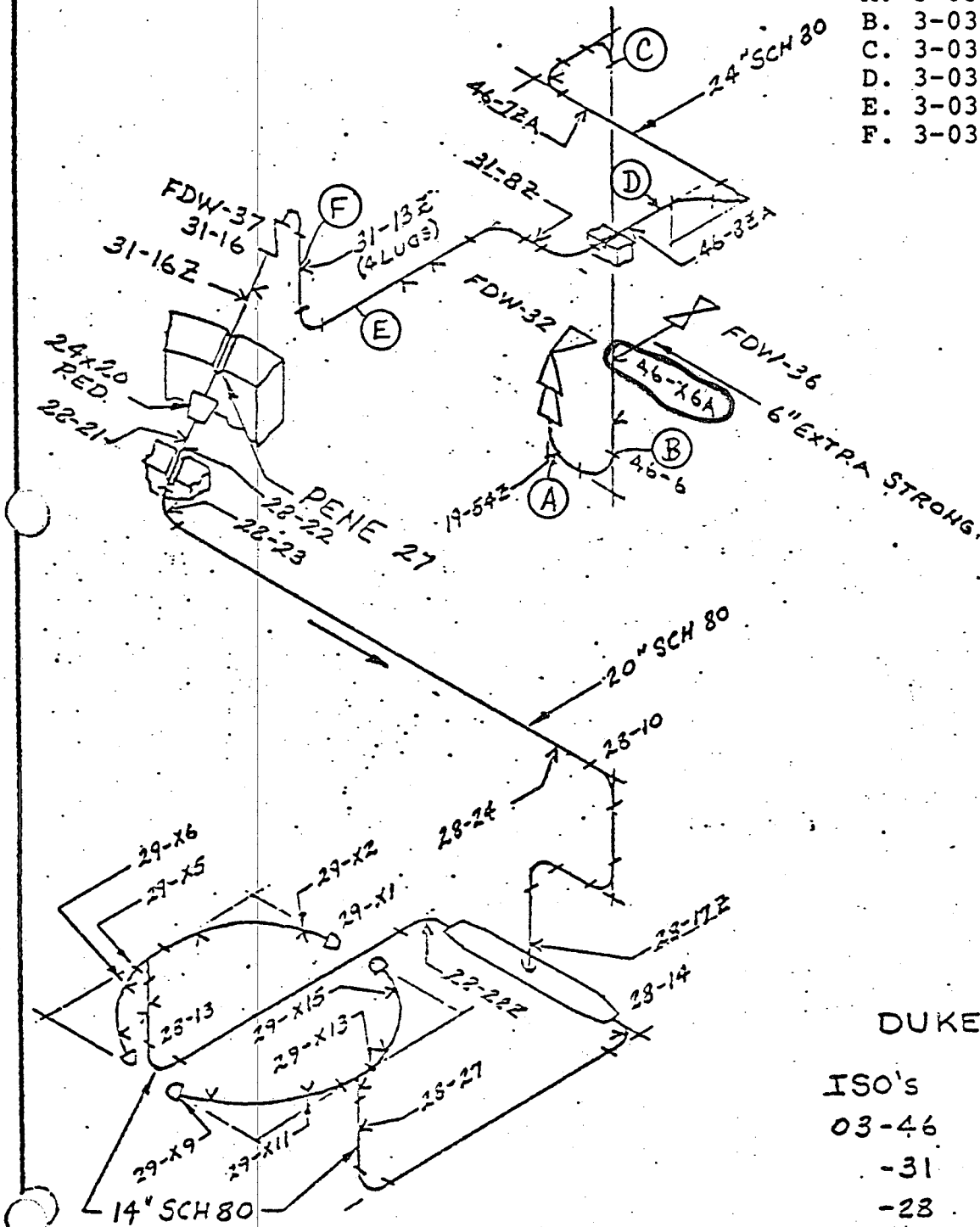
DATE 8/82  
DRAWN Pa  
CHECKED

MAIN STEAM S-TURBINE  
BLDG. TO STOP VALVES

SCALE NONE DATE 6/5/78  
DRAW NO. 151-212-1

192-044-011

REVISIONS		
BACK NO.	DATE	DESCRIPTION
1	3/29/52	WALL - EXTERIOR TO



- A. 3-03-0-2401A-H48  
B. 3-03-0-2401A-SR10  
C. 3-03-0-2401A-SR11  
D. 3-03-0-2401A-H51  
E. 3-03-0-2439A-H53  
F. 3-03-0-2439B-H54

DUKE REE.

ISO's	DWG's
03-46	2401 A, C
-31	2439 A, B
-28	2479 A, E
-29	2480 A, E

OWN. BY <i>J.E.F.</i>	DATE <i>7/2</i>
	TIME <i>11/11</i>

24" FEEDWATER A

SCALE	NONE	DATE	1/5/78
DEWG.			
NO.	ISI-213-1		



# THE BABCOCK & WILCOX COMPANY

POWER GENERATION GROUP  
ATTACHMENT B-13

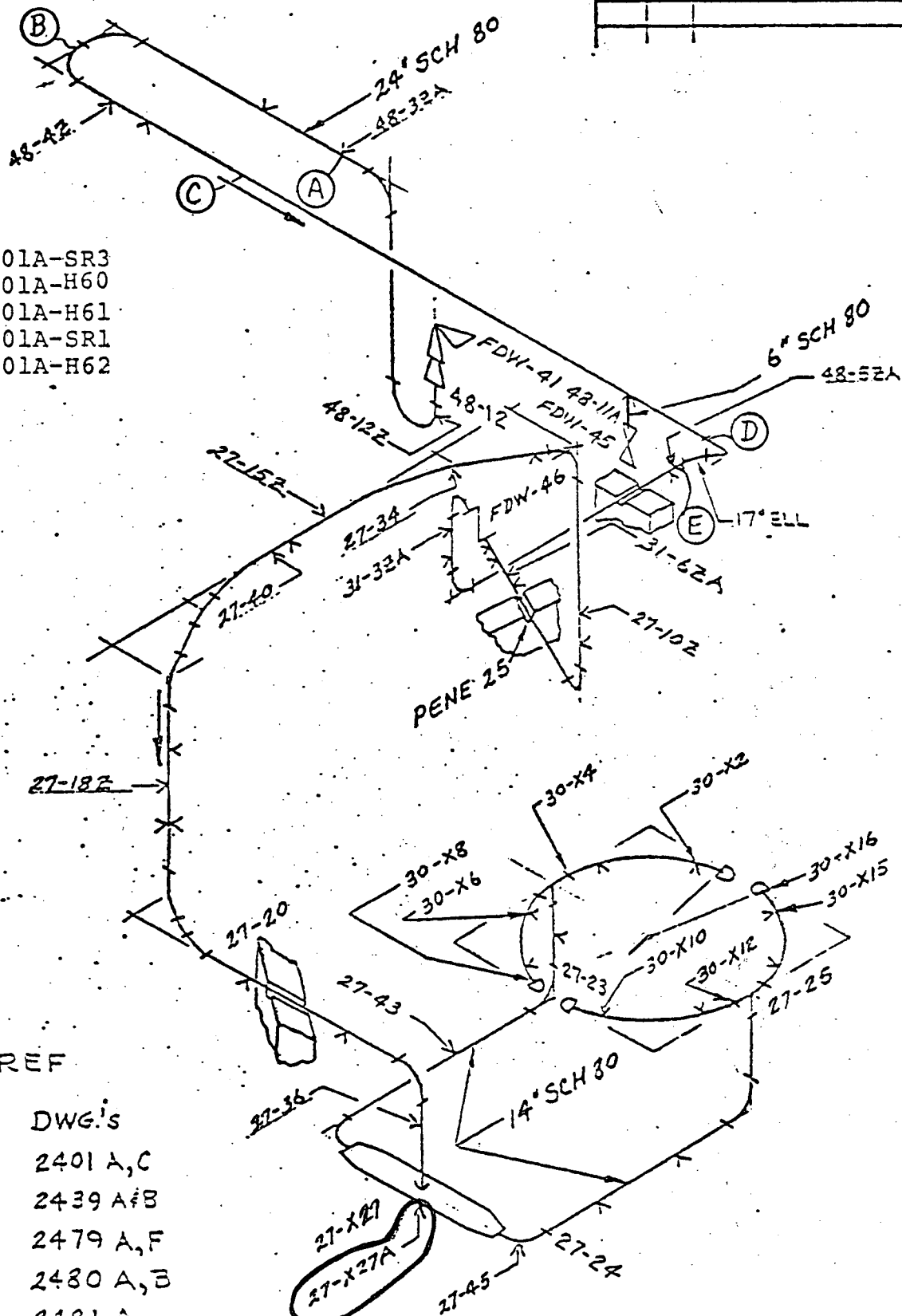
OCONEE 3

192-044-011

## REVISIONS

DRAWING NO.	DATE	DESCRIPTION
1	8/1/72	REVISIONS

- A. 3-03-0-2401A-SR3
- B. 3-03-0-2401A-H60
- C. 3-03-0-2401A-H61
- D. 3-03-0-2401A-SR1
- E. 3-03-0-2401A-H62



'DUKE REF

ISO's	DWG's
03-48	2401 A,C
-31	2439 A,B
-27	2479 A,F
-30	2480 A,B
	2491 A

24" FEEDWATER B

SCALE NONE DATE 6/5/72  
DWG. NO. 131-214-1

C.1. Component for Which Relief is Requested:

(a) Name and Number

Decay Heat Removal to Emergency Dump

weld numbers:	Unit 1	33-1
	Unit 2	35-1
	Unit 3	37-1

(b) Function

Decay heat removal to drain for post-LOCA boron dilution-branch connection welds.

(c) ASME Section III Code Class

Class 1

(d) Valve Category

N/A

2. ASME Code Section XI Requirement Determined to be Impractical:

ASME Boiler & Pressure Vessel Code Section XI, 1974 Edition through Summer 1975 Addenda, Table IWB-2600, Items B4.6, Volumetric Examinations.

3. Basis for Requesting Relief:

Welds 33-1, 35-1, and 37-1 are inaccessible due to the location of reinforcing collars. The reinforcing collar welds (welds 33-1Z, 35-1Z, and 37-1Z) were examined in accordance with the reference code.

4. Alternate Examination:

Since welds 33-1, 35-1, and 37-1 are completely covered by the reinforcing collar, no alternate examination is possible.

5. Implementation Schedule:

N/A

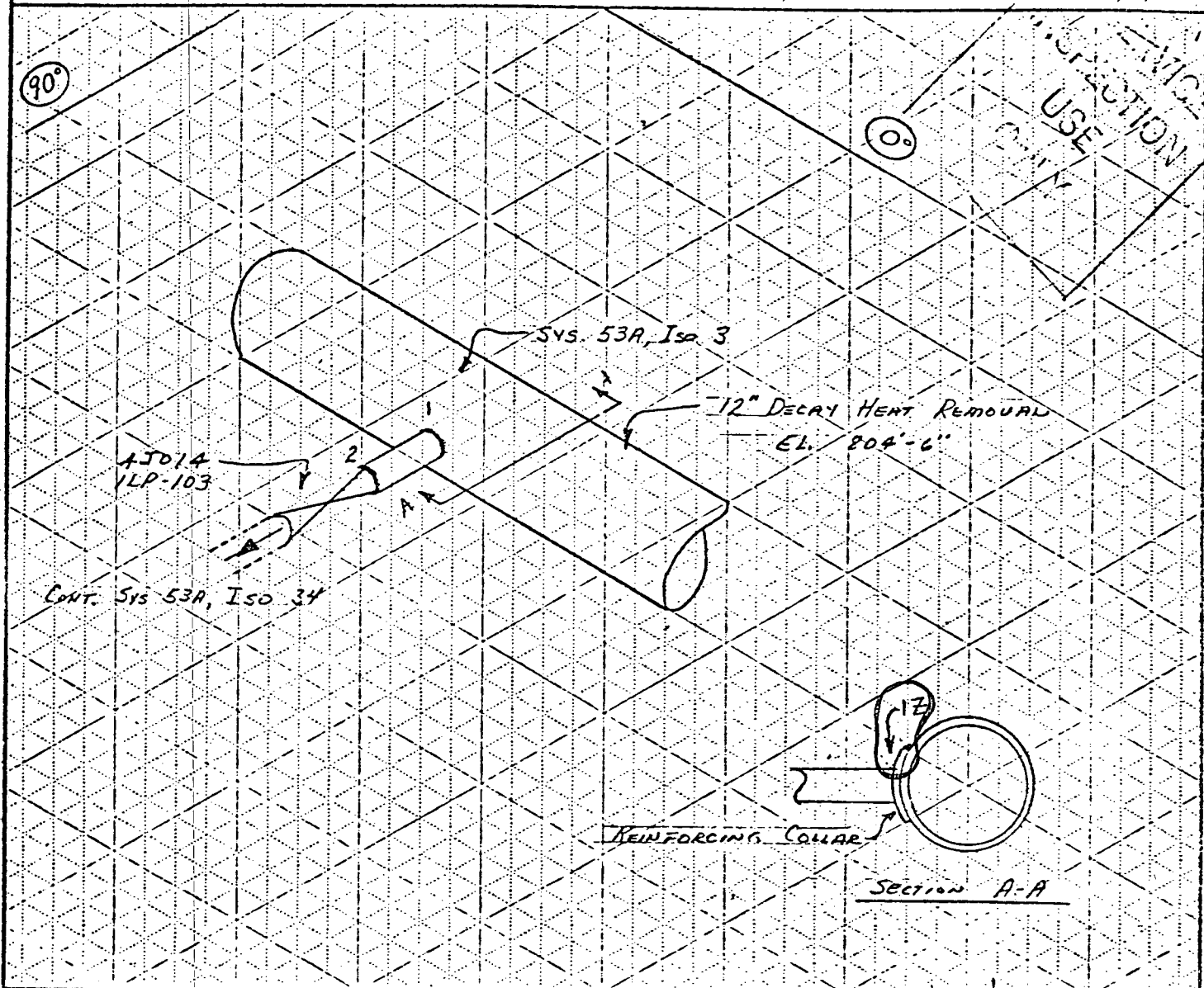
LANNY WILKIE  
Ed Lee

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

3" DRAIN FROM DECAY  
HEAT REMOVAL

## ISOMETRIC SKETCH

PROJECT OLONEE SYSTEM 53A SUB SYSTEMS (2) UNIT 1A ISO. NO. 33 REV. NO. 1  
CLASS A MATERIAL CPES/316 WELDING PROCEDURE L-206/287 LAST WELD NO. 2 DATE 2/4/76



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.
D-477D	N/A	3" $\phi$ x 0.433"	1	2	1	CORRECT NDT CODE		
PO-102A-1		3" $\phi$ x 0.433"	2	1				
SMP-507	Y	ATTACH. WELDS 1Z		2				

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

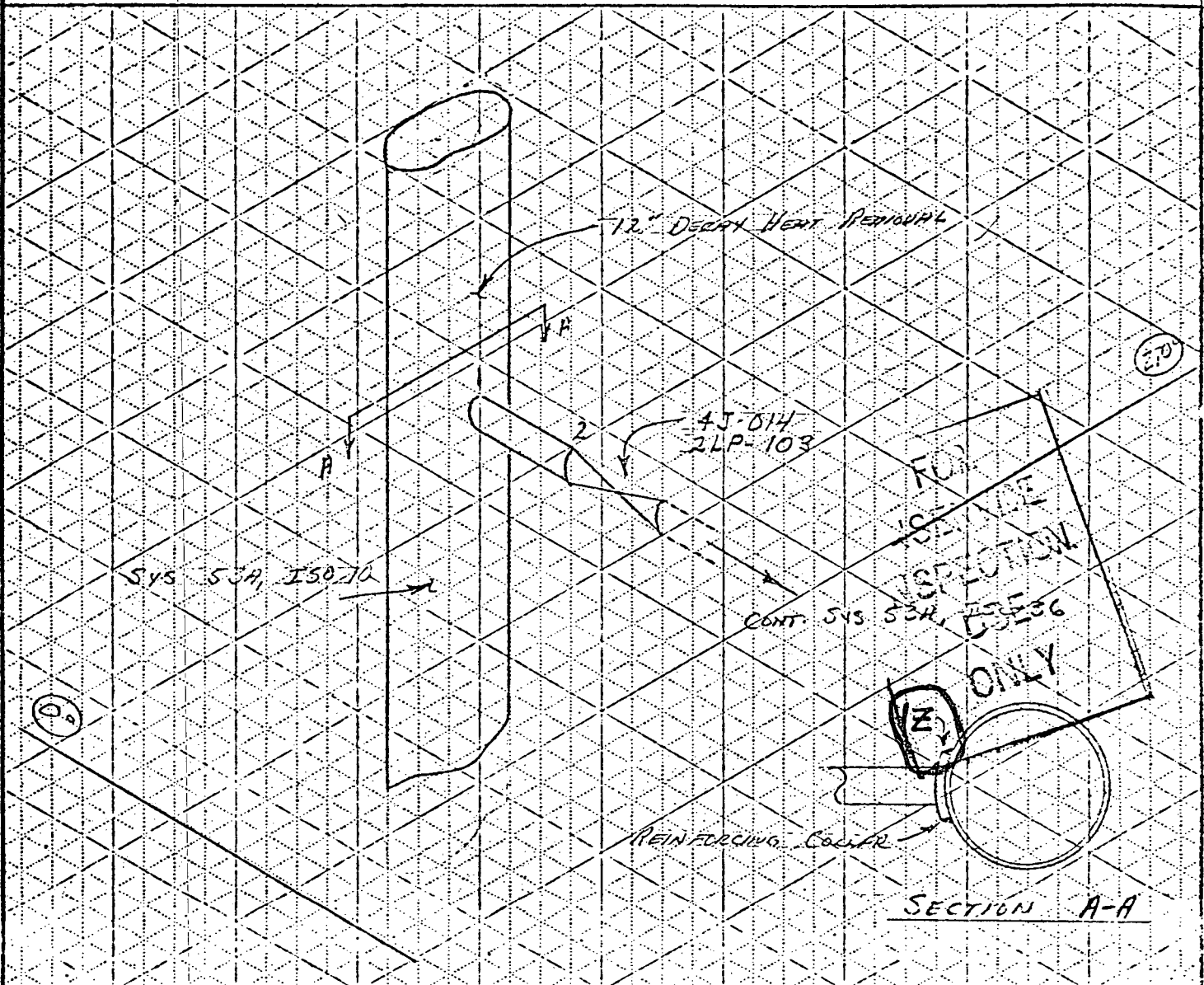
OK / 2-20 / 1-22-76

LANNY WILKIE

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT3" DRAIN FROM  
DECAY HEAT REMOVAL

## ISOMETRIC SKETCH

PROJECT OCWEE SYSTEM 53A SUB SYSTEMS (2) UNIT 2LP ISO. NO. \* 35 REV. NO. 0  
 CLASS A MATERIAL CW-1216 WELDING PROCEDURE L-205, L-207 LAST WELD NO. \* 2 DATE 11-27-76



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.
C-1478D	1/2	3" x 0.438"	1	2						
PO-1321-2		3" x 0.438"	2	1						

OK gmc

3" DRAIN FROM ECHY  
HEAT REMOVAL

ISOTHERMAL SKIN

OCONEE

53A

(2)

3RB

37

0

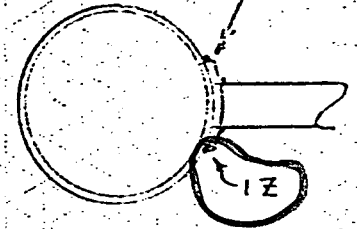
A

AMERICAN CR2/316

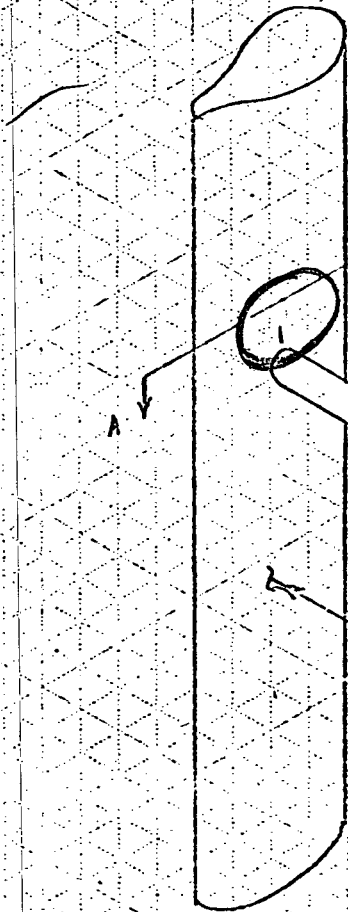
HEATING PUMP HOUSE L-206, 707

8-16-76

REINFORCED COLLAR



SECTION A-A



1

2

4J-014

3LP-103

Cont Sys

53A, 150-32

12" DUCTILE HEAT REMOVAL  
SYS 53A, 150-1B

0-24-21 N/A 1 2  
0-21-20 1 2  
10-1021-3 1 2

FOR  
INSERVICE  
INSPECTION  
USE  
ONLY

SUB C-37 ATTACHMENT 173 2

OK: AMAN/12-8-11-76

D.1. Component for Which Relief is Requested:

(a) Name and Number

Reactor Coolant Drain Attachment - Duke System No. 51A, welds 7Z and 33Z (Unit 3).

(b) Function

Provides support for reactor coolant drain piping.

(c) ASME Section III Code Class

Class 1

(d) Valve Category

N/A

2. ASME Code Section XI Requirement Determined to be Impractical:

ASME Boiler & Pressure Vessel Code Section XI, 1974 Edition through Summer 1975 Addenda, Table IWB-2600, Item B4.9, Volumetric Examination.

3. Basis for Requesting Relief:

The geometry of welds 7Z and 33Z is such that a meaningful volumetric examination cannot be performed. Examination of the base metal is limited due to the restraining box that surrounds the attachment. Removal of the restraining box could result in damage to the pipe. Since the failure mode of this weld would be a surface phenomenon, the performance of a volumetric examination of the base metal would not result in increased assurance of safety. Attachment D provides sketches of the welds.

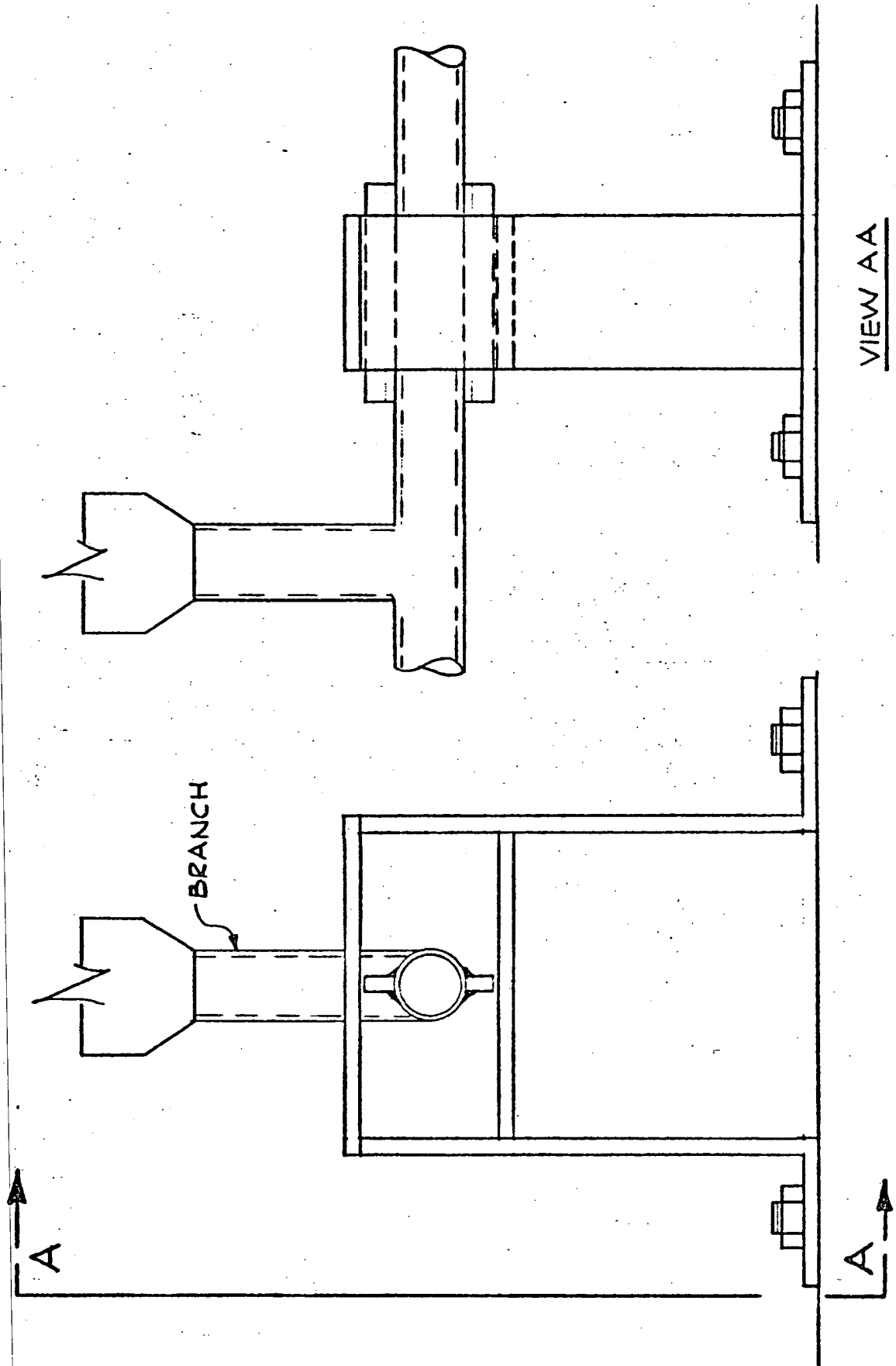
4. Alternate Examination:

Surface examinations were performed in lieu of volumetric examinations.

5. Implementation Schedule:

Examinations were performed in accordance with the applicable code tables and schedules during the Oconee 3 1979 refueling outage.

ATTACHMENT D-1



SUPPORT IS TYPICAL FOR WELDS 7 Z AND 33 Z

ELLENBURG

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

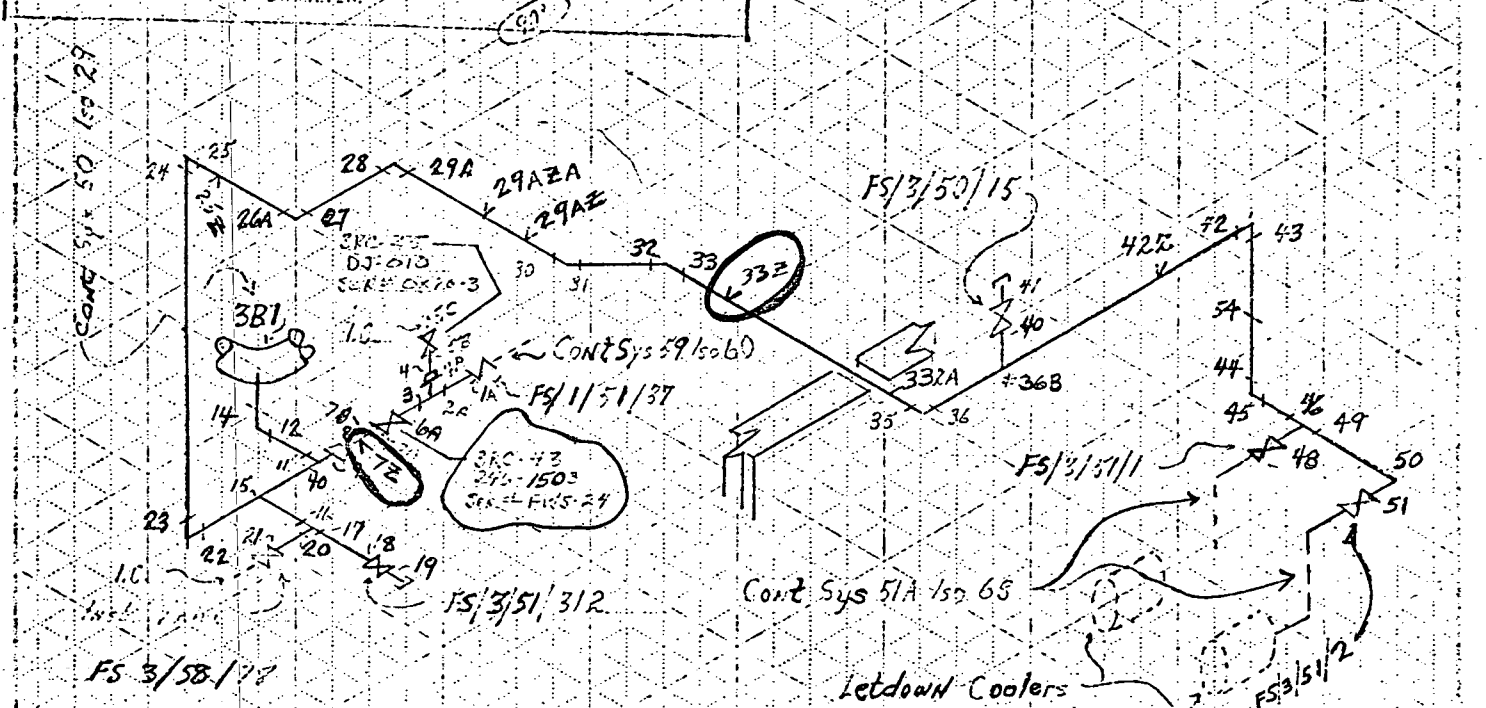
## ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 51A SUB SYSTEMS (3) UNIT 3 R.B. ISO. NO. 69 REV. NO. 22  
 CLASS A.C. MATERIAL CR-5%Ni WELDING PROCEDURE 1-201, 1-204 LAST WELD NO. 5 DATE 11-16-71

H.P. to Letdown Coolers

CLASS A - RT AND 100% MPI  
 ALL BUTT WELDS 100% RT & 100% MPI  
 ALL BRANCH CONNECTIONS OVER 4" DIAMETER  
 100% MPI ALL FILLET, SOCKET, SEAL  
 ATTACHMENT, AND BRANCH CONNECTION WELDS.

CLASS C & E - RT 1 WELD FOR EVERY 10 BUTT WELDS A WELDER MAKES  
 OVER 4" DIAMETER  
 1 WELD FOR EVERY 10 FILLET, SOCKET, OR BRANCH WELDS  
 A WELDER MAKES OVER 4" DIAMETER.



NDT ATTACH. WELDS 72  
 BUTT WELDS: 332, 332A, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51

REF. DWG. NOS.	SIZE & WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES	ISO. REV. NO.	CHANGES
DWG.	SPR.				WELD NOS.		WELD NOS.
24-100	11/4"	1/2" x 2 1/2" ISO 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51	A	1	53T		
10-100-3	11/4"	1/2" x 2 1/2" ISO 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51	B	2	25, 50, 51		
		1/2" x 2 1/2" ISO 15, 21	C	0	20, 50, 51, 44		
		1/2" x 2 1/2" ISO 7-12, 13-25	C	1	24, 28		
		5/8" x 3 1/2" ISO 7-12, 13-25	A	1	LISTED CRACK		
		5/8" x 3 1/2" ISO 7-12, 13-25	A	1	REPAIR FOR "11"		
10-100-2	11/4"	1/2" x 2 1/2" ISO 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51	A	1			
10-100-1	11/4"	1/2" x 2 1/2" ISO 40, 41	C	1			
10-100-4	11/4"	1/2" x 2 1/2" ISO 15, 21	C	0			
10-100-5	11/4"	1/2" x 2 1/2" ISO 15, 21	C	0			

FOR  
IN SERVICE  
INSPECTION  
USE  
ONLY



DUKE POWER COMPANY  
REQUESTS FOR RELIEF FROM ASME CODE SECTION XI  
INSERVICE INSPECTION REQUIREMENTS

A.1. Component for Which Relief is Requested:

(a) Name and Number

Reactor Vessel Support Skirt Weld (see drawings provided as Attachment A).

(b) Function

Provide support for the Reactor Vessel.

(c) ASME Section III Code Class

Class 1

(d) Valve Category

N/A

2. ASME Code Section XI Requirement Determined to be Impractical:

ASME Boiler & Pressure Vessel Code Section XI, 1974 Edition through Summer 1975 Addenda, Table IWB-2600, Item 1.12, Volumetric Examination.

3. Basis for Requesting Relief:

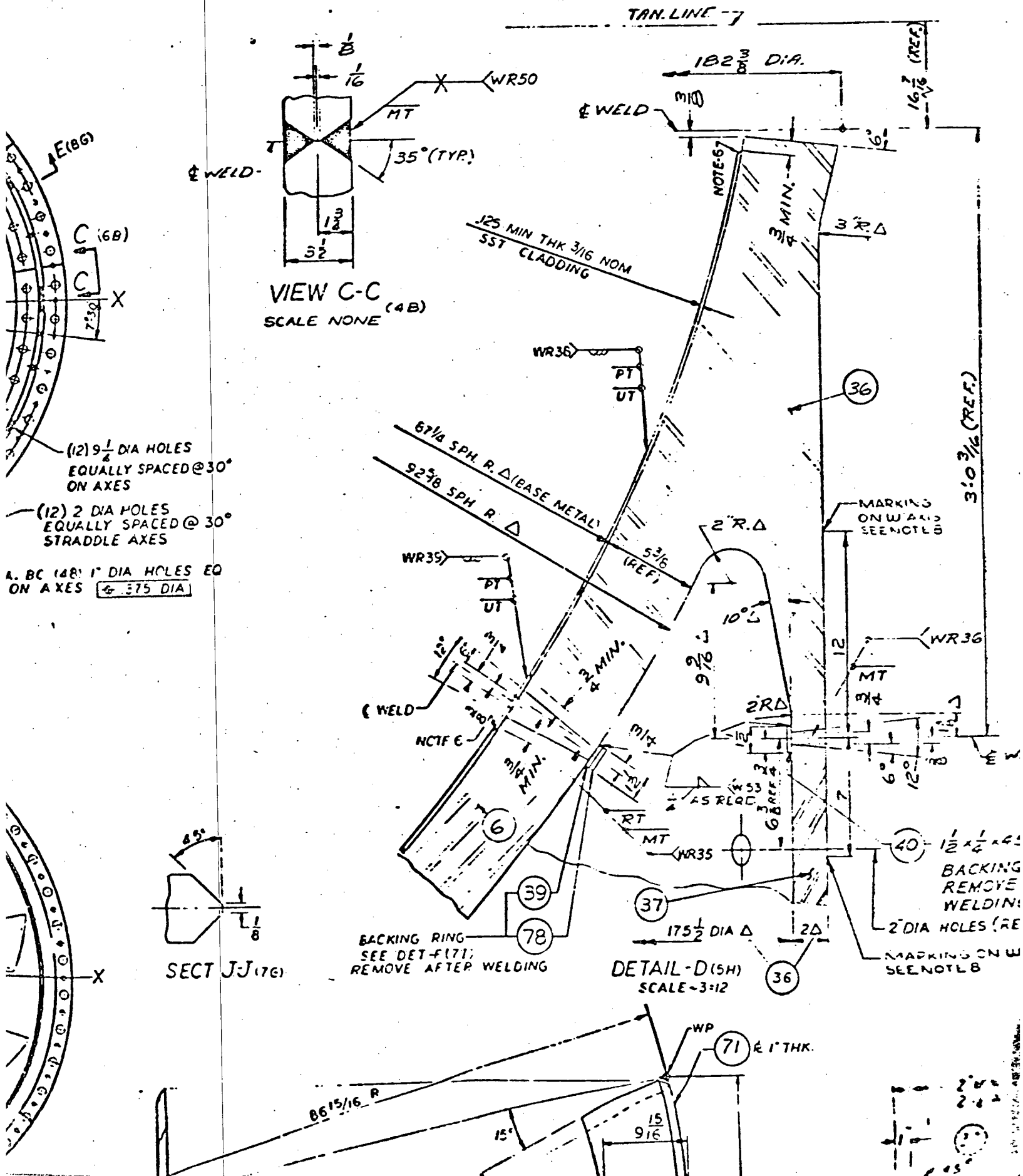
A volumetric examination cannot be performed due to dose rate considerations. The radiation level is 12 R/hr on the surface of the insulation in the vicinity of the weld, and it is estimated that the contact level at the weld is 20 to 25 R/hr.

4. Alternate Examination:

Remote visual examination of the weld will be performed.

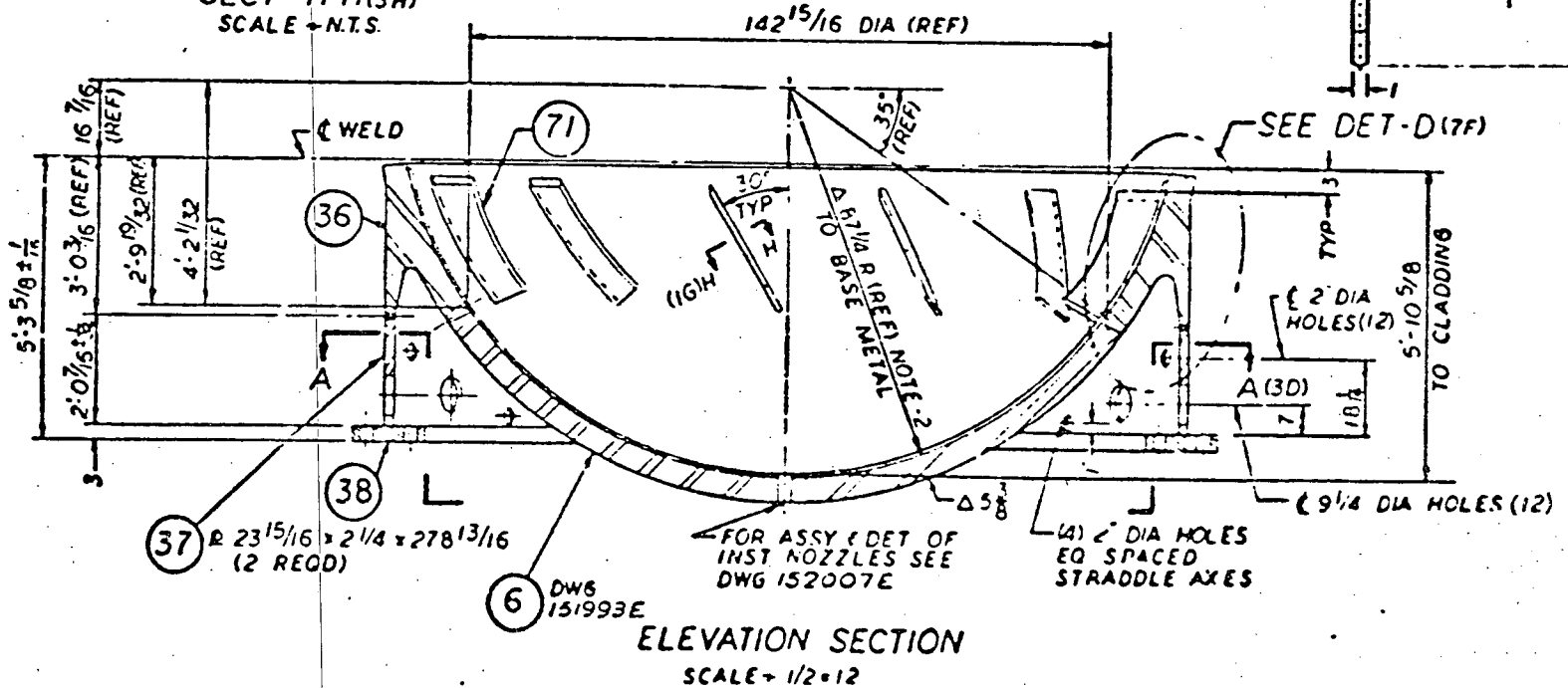
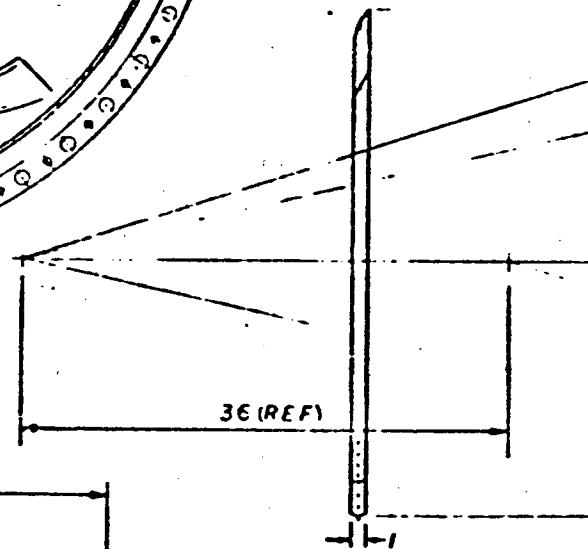
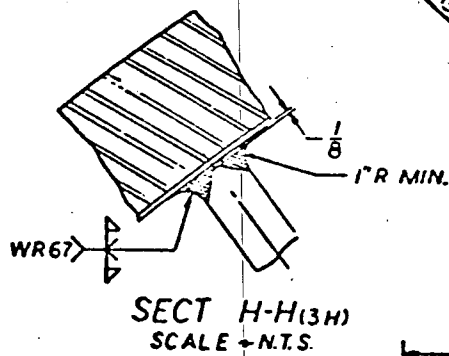
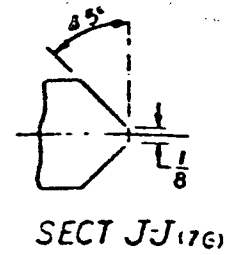
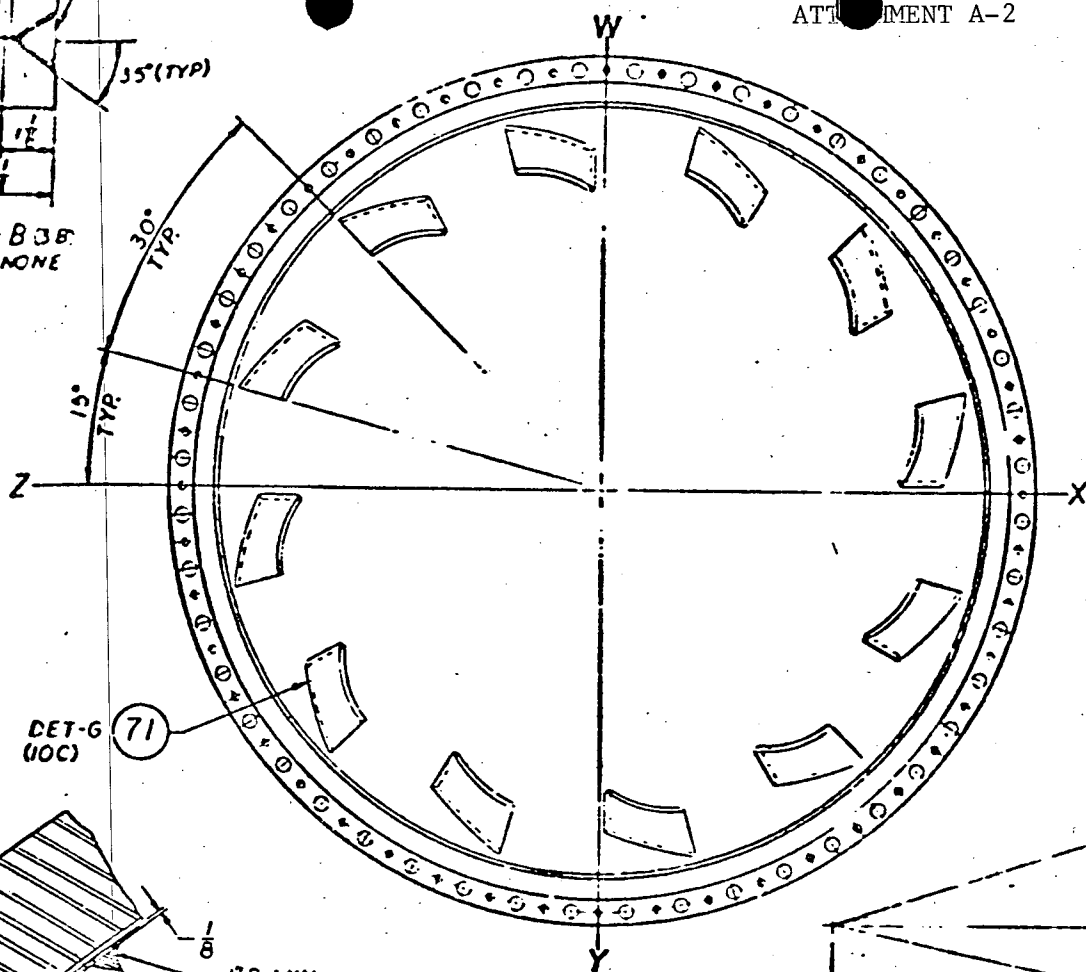
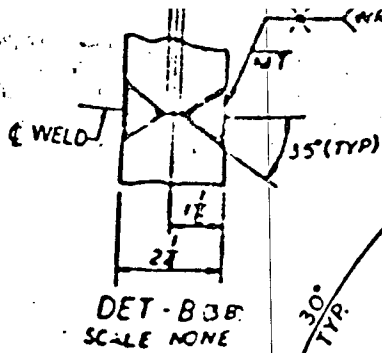
5. Implementation Schedule :

The examination will be performed at or near the end of the inspection interval.



SECTION A-A (1/2)  
SCALE = 1/2 = 12

ATTACHMENT A-2



1577

B.1. Component for Which Relief is Requested:

(a) Name and Number

Main Feedwater and Main Steam Line (see table of weld identification numbers, Attachment B-2).

(b) Function

Provide feedwater for steam generator and steam for main turbine.

(c) ASME Section III Code Class

Class 2

(d) Valve Category

N/A

2. ASME Code Section XI Requirement Determined to be Impractical:

ASME Boiler & Pressure Vessel Code Section XI, 1974 Edition through Summer 1975 Addenda, Table IWC-2600, Item C2.3, Volumetric Examination.

3. Basis for Requesting Relief:

The welds listed are not accessible for volumetric examination due to the location of reinforcing collars (refer to the sketch in Attachment B).

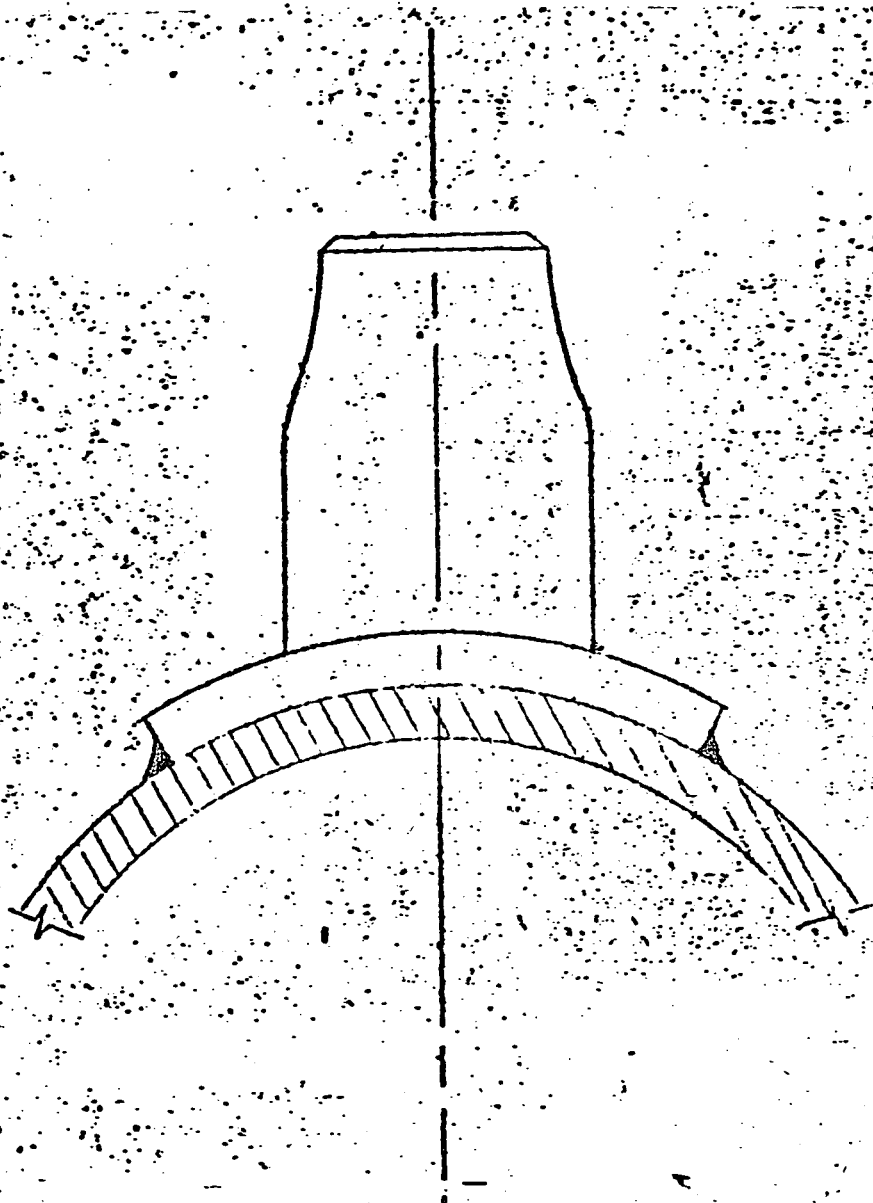
4. Alternate Examination:

A surface examination is performed in lieu of the volumetric examination.

5. Implementation Schedule:

Examinations have been and will continue to be performed in accordance with applicable code tables and schedules.

ATTACHMENT B-1



TYPICAL COLLAR  
CONDITION

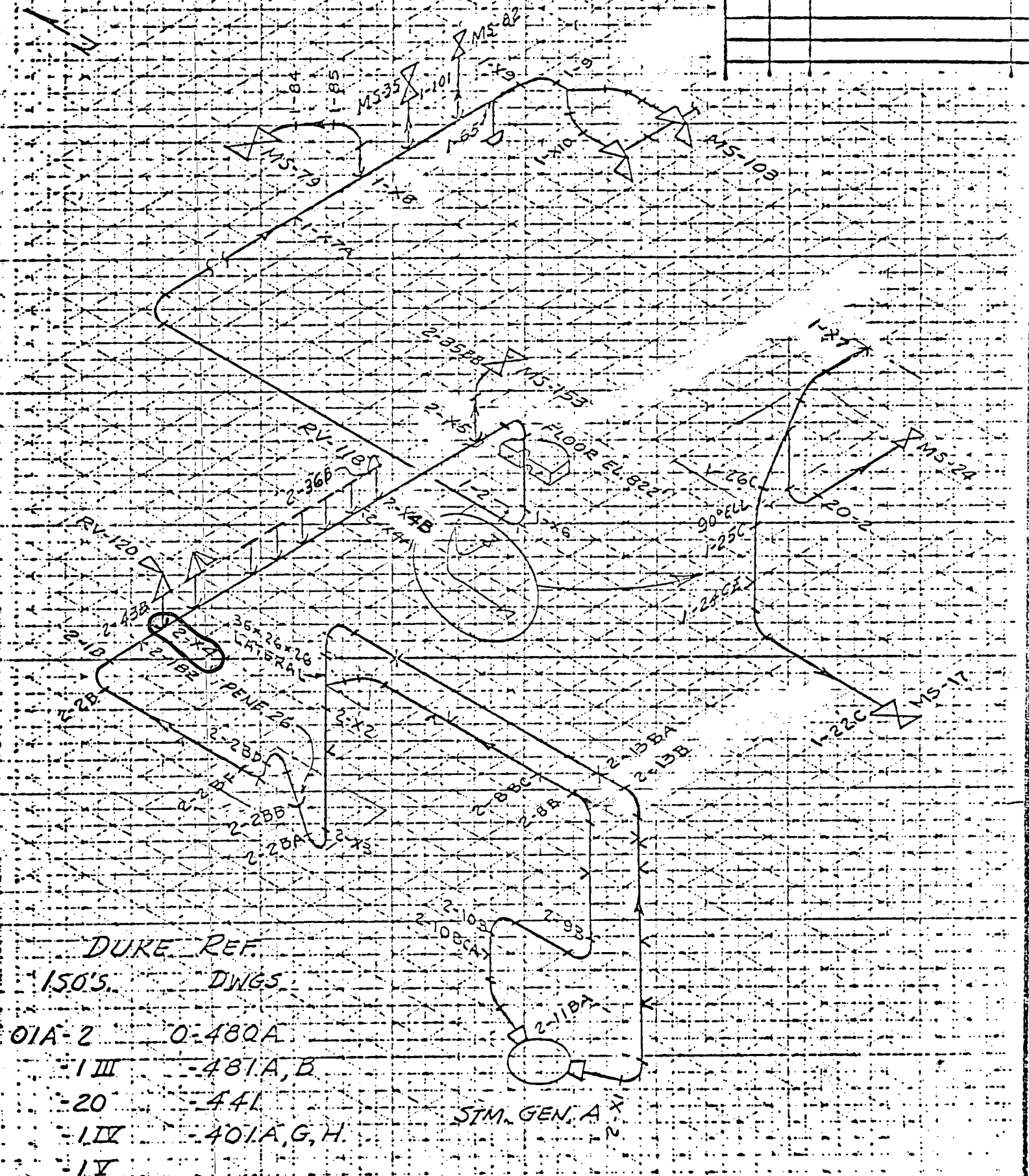
UNITS 1, 2 & 3

SYSTEM	ISOMETRIC	WELD NUMBER	COMMENT
Main Steam "A"	ISI-11	2- x 4	Unit #1 Re-inforcing Collar
Main Steam "A"	ISI-209-1	13- x 4A	Unit #3 Re-inforcing Collar
Main Steam "A"	ISI-209-1	13- x 4B	Unit #3 Re-inforcing Collar
Main Steam "A"	ISI-210-1	13- x 29	Unit #3 Re-inforcing Collar
Main Steam "A"	ISI-210-1	17- x 8	Unit #3 Re-inforcing Collar
Main Steam "B"	ISI-12	2- x 15	Unit #1 Re-inforcing Collar
Main Steam "B"	ISI-113	5- x 41	Unit #2 Re-inforcing Collar
Main Steam "B"	ISI-211-1	9- x 14	Unit #3 Re-inforcing Collar
Main Steam "B"	ISI-212-1	10- x 6	Unit #3 Re-inforcing Collar
Main Steam "B"	ISI-13	2-79B	Unit #1 Re-inforcing Collar
Feedwater "A"	ISI-213	46- x 6A	Unit #3 Re-inforcing Collar
Feedwater "A"	ISI-13	3- x 7	Unit #1 Re-inforcing Collar
Feedwater "B"	ISI-214	27- x 27	Unit #3 Re-inforcing Collar
Feedwater "B"	ISI-116	18- x 28	Unit #2 Re-inforcing Collar

UCONEE 1

192-044-009

REVISIONS			MICRO-FILM
DASH NO.	DATE	DESCRIPTION	ORIG.



DUKE REF.  
ISO'S. DWGS.

OIA-2	O-480A
I III	-481A, B
-20	-441
I IV	-401A, G, H
I V	

SIM. GEN. A

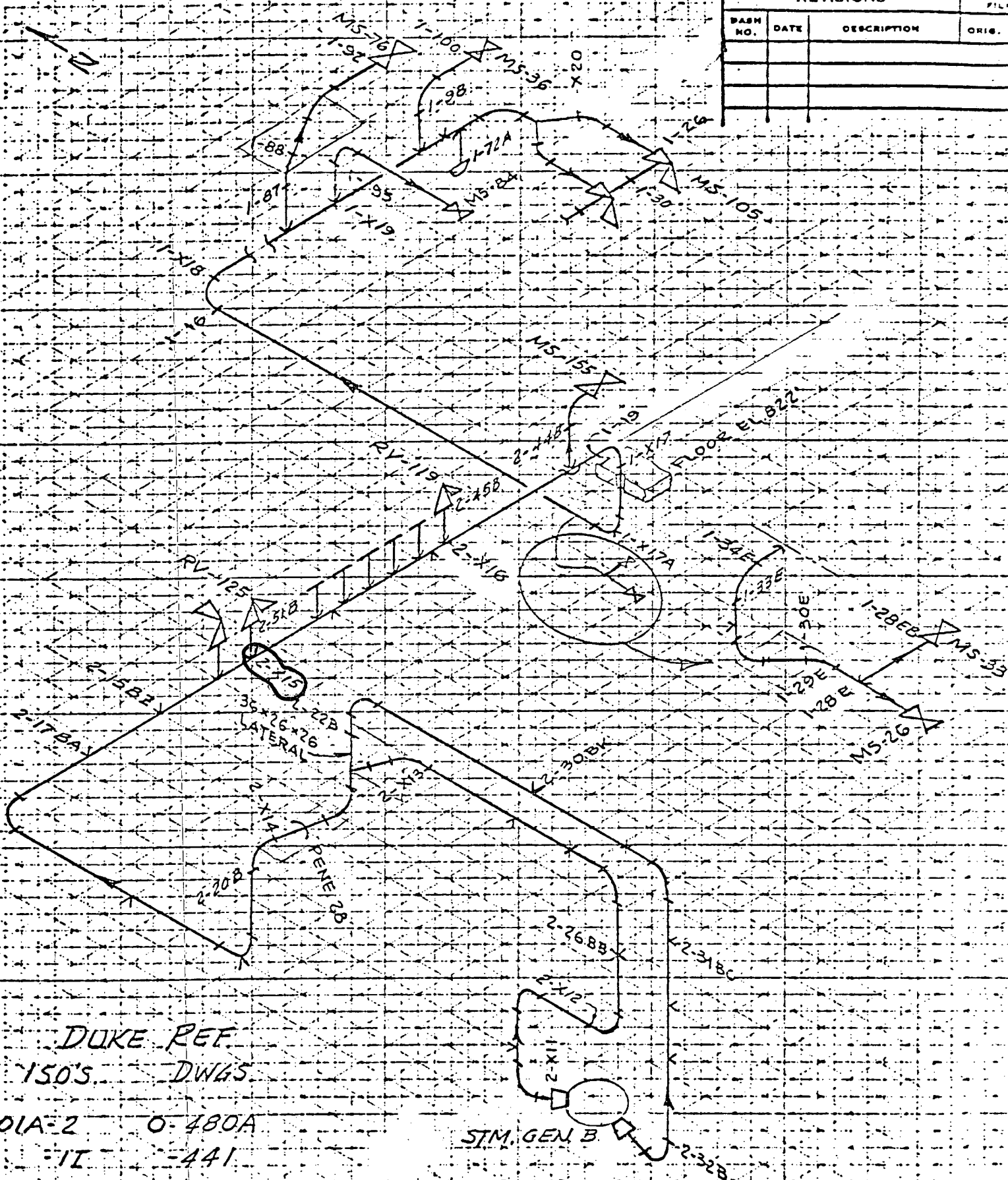
DWN. BY *W. H. H.* CHK'D  
PASSED BY APP'D

MAIN STEAM A

SCALE DATE 2-77  
DWS. NO. 151-11 REV. 0

REVISIONS

DASH NO.	DATE	DESCRIPTION	ORIG.



DUKE REF  
150'S DWGS  
OIA-2 O-480A  
II -441  
II -401A  
IV -401G

STM. GEN. B

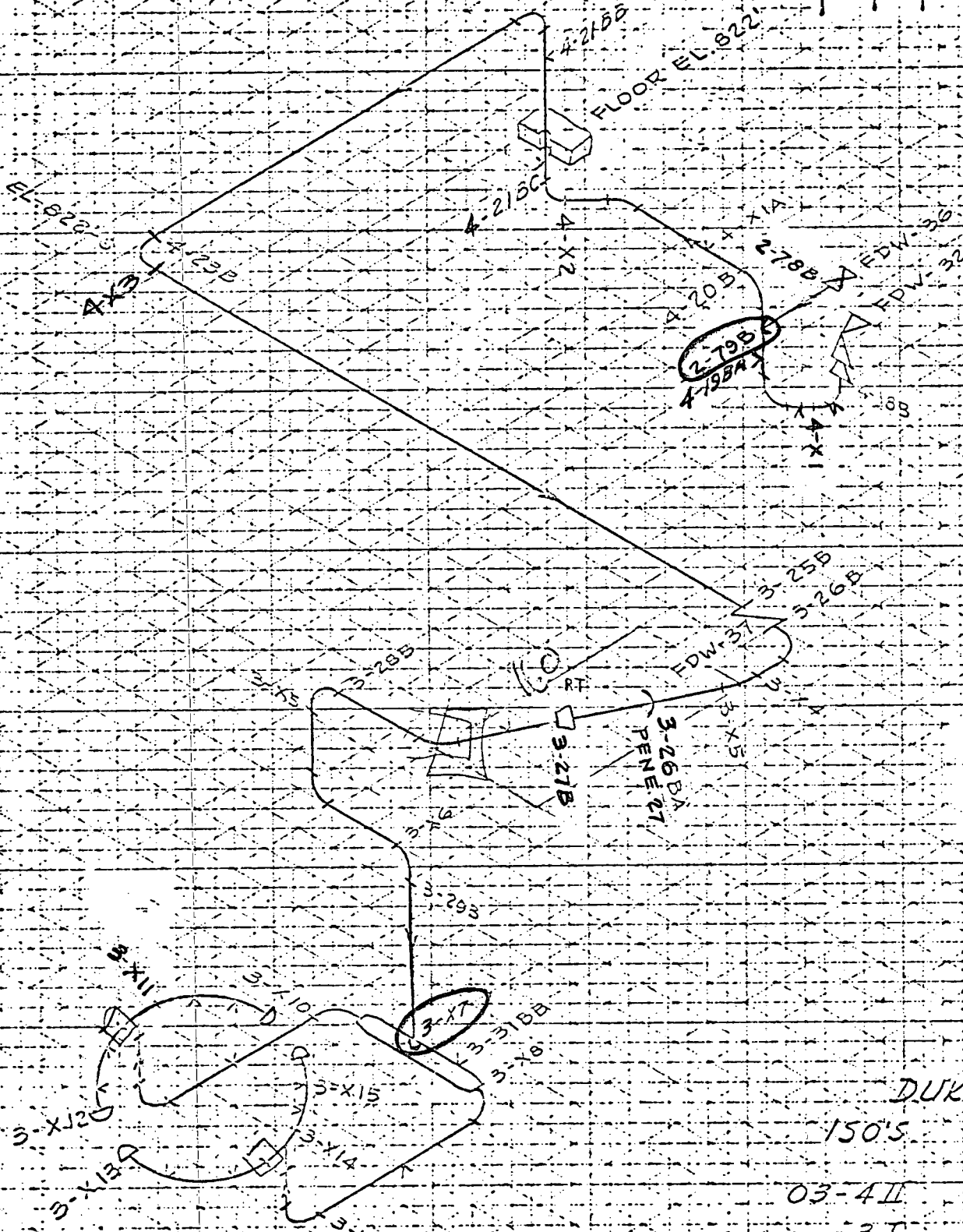
MAIN STEAM B

SCALE DATE 4-77  
DRWG. NO. 151-12 REV. 0

OWN. BY *[Signature]* CHK'D  
PREP'D BY *[Signature]* APP'D



REVISIONS				MICROFILM
DASH NO.	DATE	DESCRIPTION	ORIG.	



DUKE REF.  
150'S

03-4II 0-4013, A, G  
-3I -4395  
-9 -4605, A  
03A-2 -4795

OWN. <i>Libbe</i>	CHK'D	24" FEEDWATER A	SCALE	DATE 4-77
PASSED BY	APP'D		DRWG. NO. 151-13	251, 0

ATTACHMENT B-6

REVISIONS

DASH NO.	DATE	DESCRIPTION

DUKE REF DWG

ISO's

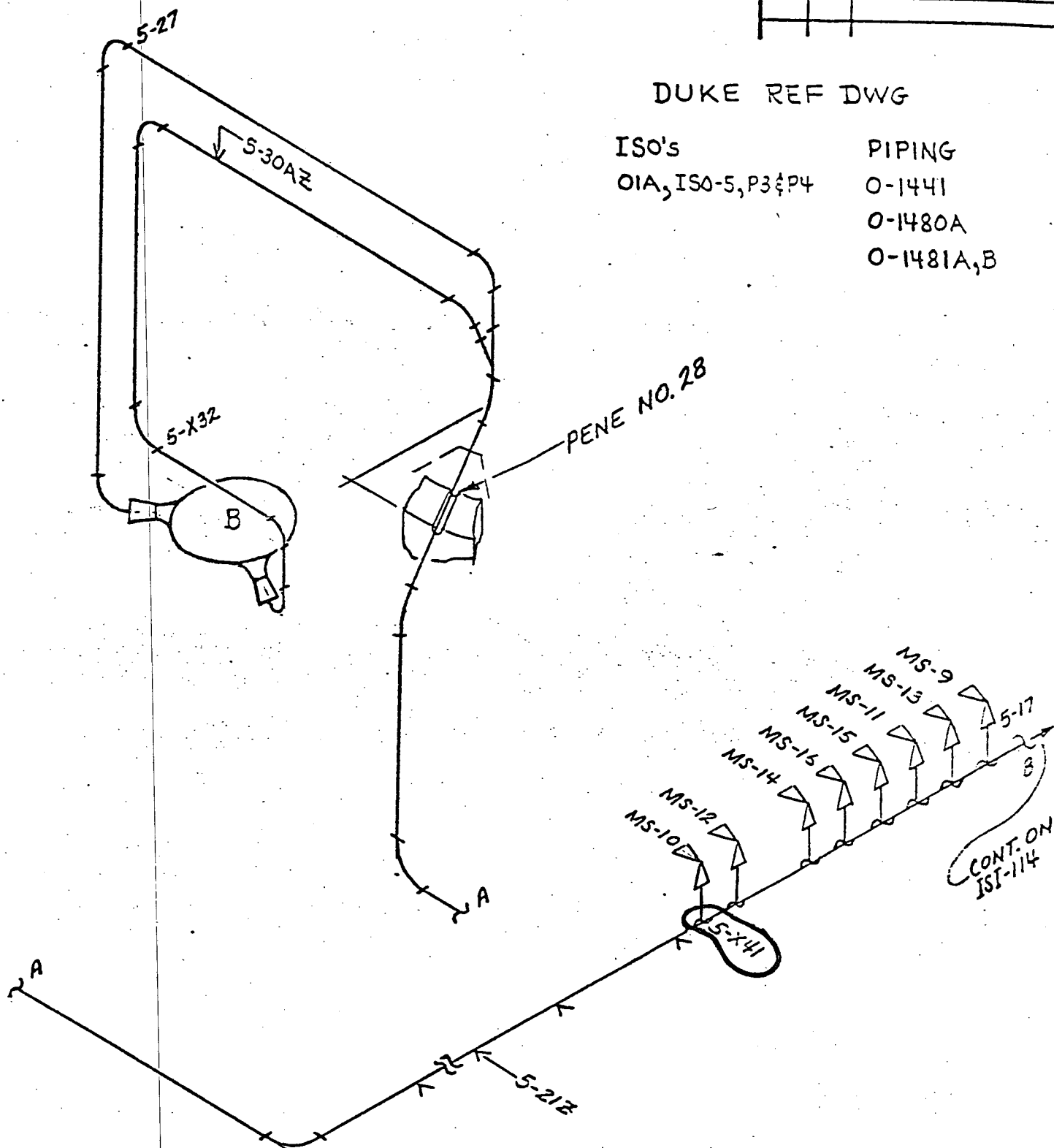
OIA, ISO-5, P3 & P4

PIPING

O-1441

O-1480A

O-1481A,B



OWN. BY: <i>YLL</i>	CHK'D: <i>GAZ</i>	MAIN STEAM B - GEN. TO TURBINE BUILDING	SCALE: <i>N/A</i>	DATE: <i>10/24/77</i>
PASSED BY:	APPROVED:		DRWG. NO.: <i>ISI-113</i>	

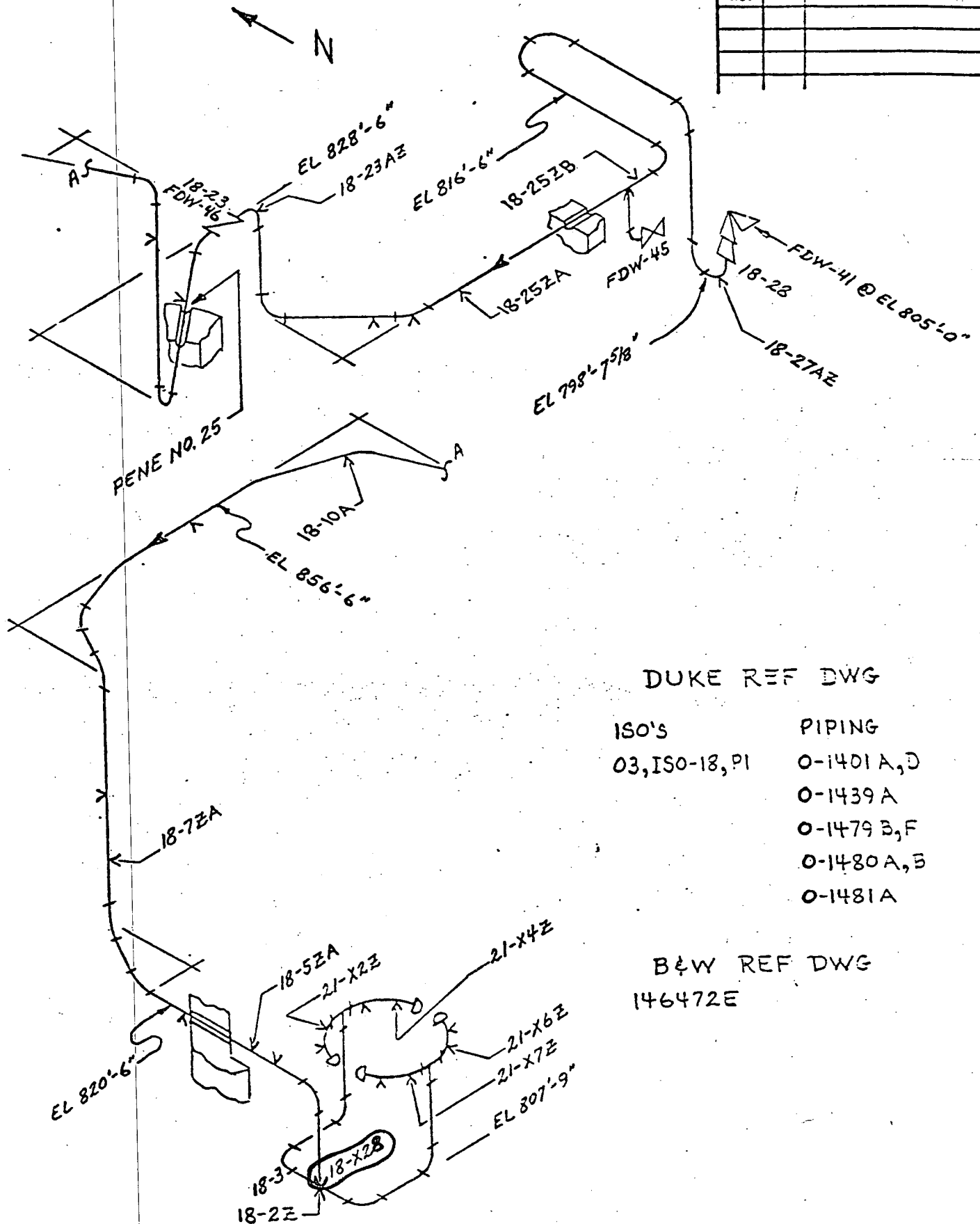
# THE BABCOCK & WILCOX COMPANY

OCONEE UNIT #2

POWER GENERATION GROUP  
ATTACHMENT B-7

192-044-010

REVISIONS		
DASH NO.	DATE	DESCRIPTION



## DUKE REF DWG

ISO's	PIPING
03, ISO-18, PI	0-1401A, D
	0-1439A
	0-1479B, F
	0-1480A, S
	0-1481A

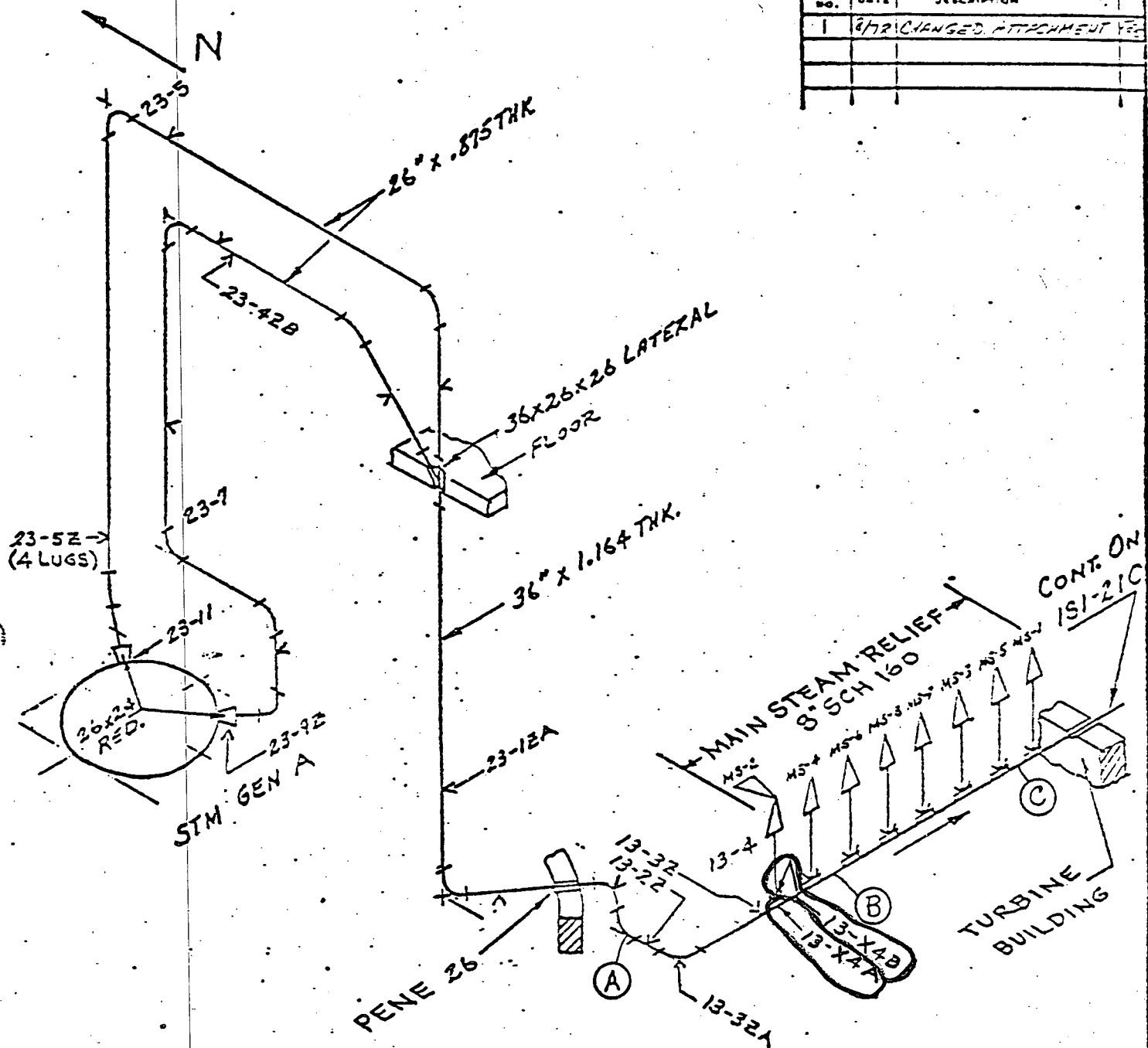
B&W REF DWG  
146472E

DWN. BY <i>JEL</i>	CHK'D <i>PAZ</i>
PASSED BY	APP'D

24" FEEDWATER B

SCALE <i>N/A</i>	DATE <i>10/24/72</i>
DRWG. NO.	<i>ISI-116</i>

REVISIONS		
BARK NO.	DATE	DESCRIPTION
1	6/12	CHANGED ATTACHMENT Pgs



DUKE REF.

ISO's	DWG's
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

01A-23 2439B  
-13 2441  
2430A,2  
2481A,B

- A. 3-01A-0-2441-H1  
B. 3-01A-0-2441-H3  
C. 3-01A-0-2441-R2

OWN. BY <i>WJL</i>	DATE <i>PAS</i>
	<i>ST</i>

MAIN STEAM A- GEN.TO  
TURBINE BUILDING

SCALE 1:50000 DATE 4/5/78  
JAWB. 151-209-1  
NO.