

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8608120045 DDC DATE: 86/08/06 NOTARIZED: NO DOCKET #
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 WOODY, C. O. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 RUBENSTEIN, L. S. PWR Project Directorate 2

SUBJECT: Forwards requests for relief for reactor pressure vessel
 safe-end welds for first inservice insp interval which ended
 on 840222 for Unit 3 & 840415 for Unit 4 && for second
 insp interval. Fee paid.

DISTRIBUTION CODE: A047D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 34
 TITLE: OR Submittal: Inservice Inspection/Testing

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL			RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	
	PWR-A ADTS	1	1		PWR-A EB	1	1
	PWR-A PD2 LA	1	0		PWR-A PD2 PD 01	5	5
	McDONALD, D	1	1				
INTERNAL:	ADM/LFMB	1	0		AEOD/PTB	1	1
	ELD/HDS4	1	0		NRR/DSRO/EIB	1	1
	NRR/TAMB	1	1		<u>REG FILE</u> 04	1	1
	RGN2	1	1				
EXTERNAL:	LPDR 03	1	1		NRC PDR 02	1	1
	NSIC 05	1	1				

Rec'd w/out check

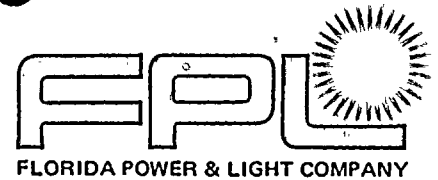
1. The following information was obtained from a confidential source who has provided reliable information in the past.

2. The source has advised that the following information is being provided for your information.

3. The source has advised that the following information is being provided for your information.

4. The source has advised that the following information is being provided for your information.

Item	Description	Quantity	Value
1	1000	1000	1000
2	1000	1000	1000
3	1000	1000	1000
4	1000	1000	1000
5	1000	1000	1000
6	1000	1000	1000
7	1000	1000	1000
8	1000	1000	1000
9	1000	1000	1000
10	1000	1000	1000
11	1000	1000	1000
12	1000	1000	1000
13	1000	1000	1000
14	1000	1000	1000
15	1000	1000	1000
16	1000	1000	1000
17	1000	1000	1000
18	1000	1000	1000
19	1000	1000	1000
20	1000	1000	1000
21	1000	1000	1000
22	1000	1000	1000
23	1000	1000	1000
24	1000	1000	1000
25	1000	1000	1000
26	1000	1000	1000
27	1000	1000	1000
28	1000	1000	1000
29	1000	1000	1000
30	1000	1000	1000
31	1000	1000	1000
32	1000	1000	1000
33	1000	1000	1000
34	1000	1000	1000
35	1000	1000	1000
36	1000	1000	1000
37	1000	1000	1000
38	1000	1000	1000
39	1000	1000	1000
40	1000	1000	1000
41	1000	1000	1000
42	1000	1000	1000
43	1000	1000	1000
44	1000	1000	1000
45	1000	1000	1000
46	1000	1000	1000
47	1000	1000	1000
48	1000	1000	1000
49	1000	1000	1000
50	1000	1000	1000
51	1000	1000	1000
52	1000	1000	1000
53	1000	1000	1000
54	1000	1000	1000
55	1000	1000	1000
56	1000	1000	1000
57	1000	1000	1000
58	1000	1000	1000
59	1000	1000	1000
60	1000	1000	1000
61	1000	1000	1000
62	1000	1000	1000
63	1000	1000	1000
64	1000	1000	1000
65	1000	1000	1000
66	1000	1000	1000
67	1000	1000	1000
68	1000	1000	1000
69	1000	1000	1000
70	1000	1000	1000
71	1000	1000	1000
72	1000	1000	1000
73	1000	1000	1000
74	1000	1000	1000
75	1000	1000	1000
76	1000	1000	1000
77	1000	1000	1000
78	1000	1000	1000
79	1000	1000	1000
80	1000	1000	1000
81	1000	1000	1000
82	1000	1000	1000
83	1000	1000	1000
84	1000	1000	1000
85	1000	1000	1000
86	1000	1000	1000
87	1000	1000	1000
88	1000	1000	1000
89	1000	1000	1000
90	1000	1000	1000
91	1000	1000	1000
92	1000	1000	1000
93	1000	1000	1000
94	1000	1000	1000
95	1000	1000	1000
96	1000	1000	1000
97	1000	1000	1000
98	1000	1000	1000
99	1000	1000	1000
100	1000	1000	1000



AUG 6 1988

L-86-319

Office of Nuclear Reactor Regulation
Attention: Mr. Lester S. Rubenstein, Director
PWR Project Directorate #2
Division of PWR Licensing - A
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Rubenstein:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Request for Relief for the
First and Second Inservice
Inspection Interval

Pursuant to 10 CFR 50.55a(g)(5)(iii), Florida Power & Light Company (FPL) has determined that conformance with certain code requirements is impractical for Turkey Point Unit Nos. 3 and 4.

Attached please find two (2) relief requests for the Turkey Point reactor pressure vessel safe-end welds: Relief Request No. 12 for the first inservice inspection interval which ended on February 22, 1984 for Unit 3 and April 15, 1984 for Unit 4, and Relief Request No. 2 for the second inspection interval.

Both of the above requests for relief were initially submitted with the second inspection interval revised inservice inspection program but were withdrawn due to your staff's request for additional information which could only be gained during access to these areas. Both of these requests are required to close out the first inspection interval and the first period of the second inspection interval.

In accordance with 10 CFR 170.12(c), an application fee (FPL Check No. 2135) for \$150.00 is attached.

8608120045 86806
PDR ADDOCK 05000250
Q PDR

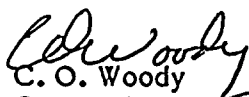
L1:1

Rec'd w/out check

A047
11

Should you or your staff require additional information, please do not hesitate to contact us.

Very truly yours,


C. O. Woody
Group Vice President
Nuclear Energy

COW/PLP:aa

Attachments

cc: Dr. J. Nelson Grace, Region II, USNRC
Harold F. Reis, Esquire

TURKEY POINT UNIT NO. 3 & 4
FIRST INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 12

A. COMPONENT IDENTIFICATION:

- CLASS 1
- CODE CATEGORY B-F
- CODE ITEM NO. B1.6
- PRESSURE RETAINING DISSIMILAR METAL WELDS - RPV SAFE END
- CODE ITEM NO. B4.1
- SAFE-END TO PIPE AND BRANCH CONNECTION WELDS

B. EXAMINATION REQUIREMENTS:

IWB-2500 THE EXAMINATIONS PERFORMED DURING EACH INSPECTION INTERVAL SHALL COVER CIRCUMFERENCE OF 100% OF THE WELDS. NOZZLE SAFE-END WELDS REQUIRE VOLUMETRIC AND SURFACE EXAMINATION METHODS. THE AREA SUBJECT TO EXAMINATION SHALL INCLUDE THE BASE MATERIAL FOR, AT LEAST ONE WALL THICKNESS BEYOND THE EDGE OF THE WELD.

TABLE NO. 1 PROVIDES A LIST OF TURKEY POINT WELDS AFFECTED BY THIS RELIEF.

C. RELIEF REQUESTED:

1. RELIEF IS REQUESTED FROM CODE VOLUME AND SURFACE AREA NOT ACHIEVABLE IN PERFORMANCE OF ULTRASONIC AND SURFACE EXAMINATION.
2. RELIEF IS REQUESTED TO UTILIZE THE LATER EDITION OF SECTION XI ENDORCED BY THE FEDERAL REGULATIONS FOR SURFACE EXAMINATIONS.

D. BASIS FOR RELIEF:

1. PORTIONS OF THE REQUIRED VOLUMETRIC AND SURFACE AREA ARE INACCESSIBLE DUE TO PERMANENT PHYSICAL OBSTRUCTIONS IN THE ANNULUS AREA AROUND THE REACTOR PRESSURE VESSEL. (fig. no. 1) i.e. BIOLOGICAL SHIELD WALL, (fig. no. 2), INSULATION BRACKETS, AND THE STRUCTURAL CONFIGURATION OF THE NOZZLE SUPPORT LUGS. (fig. no. 3)
2. IN ORDER TO PERFORM THE EXAMINATIONS THE SAND BOXES HAVE TO BE REMOVED. SEE FIGURE NO. 4 FOR CONFIGURATION.
3. FPL PERFORMED DETAILED EXAMINATIONS OF ALL THE NOZZLE WELDS FOR TURKEY POINT 3 IN 1975. THESE METHODS INCLUDED VISUAL, PENETRANT(BOTH MANUAL & MECHANIZED) AND ULTRASONIC EXAMINATIONS(MECHANIZED ON THE HOT LEGS) AND(MANUAL ON THE

TURKEY POINT UNIT NO. 3 & 4
FIRST INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 12

COLD LEGS.) FIGURE NO. 6 GIVES THE EXAMINATIONS PERFORMED AND THE EXTENT OF COVERAGE ACHIEVED DURING THIS ACTIVITY.

4. THE LIMITATIONS DENOTED ON UNIT 3 ARE ALSO APPLICABLE TO UNIT 4 AS BOTH UNITS ARE IDENTICAL IN DESIGN.
5. PERFORMANCE OF THESE EXAMINATIONS ON THE NOZZLES INVOLVES EXCESSIVE COST, MANHOURS AND MAN/REM WITH LITTLE OR NO COMPENSATING INCREASE IN THE LEVEL OF QUALITY AND SAFETY.
6. THE LATER EDITION AND ADDENDA OF SECTION XI, HAS REVISED THE EXTENT OF SURFACE TO BE EXAMINED TO INCLUDE THE WELD PLUS 1/2" ON EACH SIDE.
7. FPL IS PURSUING AN ALTERNATE TECHNIQUE UTILIZING THE (ULTRASONIC METHOD) OF EXAMINING THE OUTSIDE SURFACE OF THE WELDS FROM THE INSIDE SURFACE. THIS TECHNIQUE IS TO BE USED IN LIEU OF THE SURFACE EXAMINATION REQUIREMENTS. THIS TECHNIQUE WAS UTILIZED DURING THE LAST REFUELING OUTAGE AND WAS DEMONSTRATED TO THE AUTHORIZED NUCLEAR INSERVICE INSPECTOR (ANII) AND THE REGION II NRC INSPECTOR. FPL WILL BE FORWARDING THIS REQUEST AT A LATER DATE TO BE USED DURING THE SECOND INSPECTION INTERVAL.
8. FPL FEELS THAT THE EXTENT OF EXAMINATIONS CONDUCTED AND THE VOLUME ACHIEVED PROVIDE ASSURANCE OF AN ACCEPTABLE LEVEL OF QUALITY AND SAFETY. (SEE FIG. NO. 5 FOR APPROXIMATE COVERAGE OF EXAMINATION AREAS.

E. ALTERNATIVE EXAMINATIONS:

- 1) CONDUCT EXAMINATIONS TO THE EXTENT POSSIBLE FOR CODE CATEGORY B-F:

FIRST PERIOD - 1970 EDITION THRU WINTER 1970
SECOND & THRID PERIOD - 1974 EDITION THRU SUMMER 1975
LAST OUTAGE OF THRID PERIOD- 1980 EDITION THRU WINTER 1981

- 2) SYSTEM PRESSURE TESTS AS REQUIRED BY SECTION XI 1980 EDITION THRU WINTER 1981 ADDENDA.
- 3) THE EXTENT OF EXAMINATION VOLUME ACHIEVED ULTRASONICALLY, COUPLED WITH THE SURFACE EXAMINATION AND THE SYSTEM PRESSURE TESTS PROVIDE ASSURANCE OF AN ACCEPTABLE LEVEL OF QUALITY AND SAFETY.

TURKEY POINT UNIT NO. 3 & 4
FIRST INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 12

F. IMPLEMENTATION SCHEDULE:

- FIRST INSERVICE INSPECTION INTERVAL

PTP-3 12-14-72 TO 2-24-84

PTP-4 9-7-73 TO 4-15-84

G. ATTACHMENTS:

- FIGURE NO. 1 - TYPICAL CONFIGURATION OF RPV NOZZLES
- FIGURE NO. 2 - EXAMINATIONS AND LIMITATIONS (WELD LENGTH)
- FIGURE NO. 3 - TYPICAL PRIMARY COOLANT NOZZLE SUPPORT
CONFIGURATION
- FIGURE NO. 4 - TYPICAL SAND BOX AREA CONFIGURATION
- FIGURE NO. 5 - AVERAGE SURFACE EXAMINATION COVERAGE
- FIGURE NO. 6 - NOZZLE TO SAFE-END EXAMINATION LIMITATIONS
DENOTED IN 1975

- TABLE NO. 1 - AFFECTED WELDS, EXAM METHODS AND THE YEAR
THE EXAMINATIONS WERE CONDUCTED.

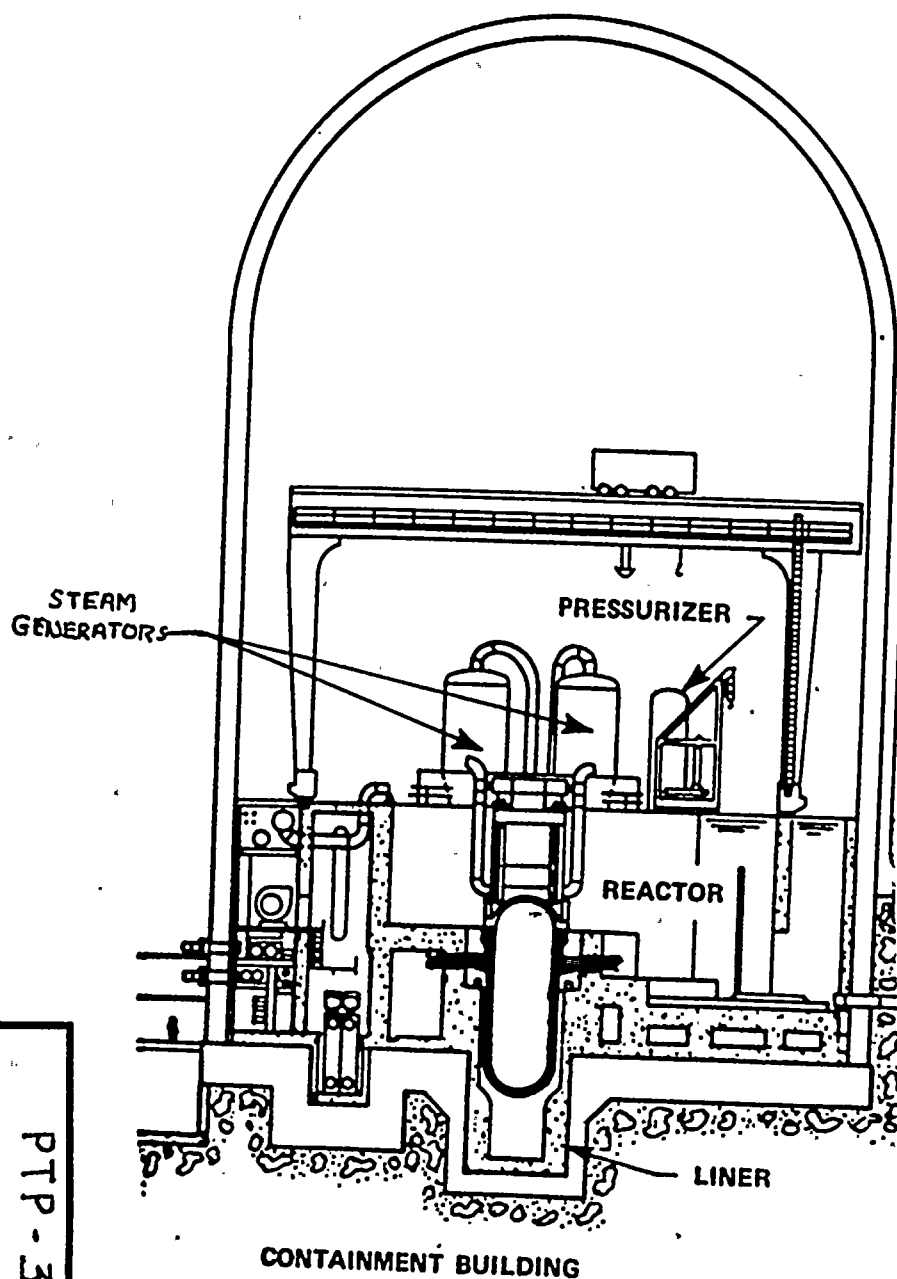
TURKEY POINT UNIT NO. 3 & 4
FIRST INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 12

WELDS AFFECTED BY THIS RELIEF REQUEST

PLANT UNIT NO	WELD IDENTIFICATION	EXAM METHODS	YEAR CONDUCTED
PTP-3	RCC-A-1	VT, PT, UT	1975
	RCC-A-14	VT, PT, UT	1975
	RCC-A-14	VT, UT	1981
	RCC-B-1	VT-PT, UT	1975
	RCC-B-14	VT, PT, UT	1975
	RCC-B-14	VT, UT	1981
	RCC-C-1	VT, PT, UT	1975
	RCC-C-14	VT, PT, UT	1975
	RCC-C-14	VT, UT	1981
PTP-4	RC-1-1	UT	1982
	RC-1-1	PT	1983
	RC-2-1	UT	1982
	RC-2-1	PT	1983
	RC-2-14	VT, PT	1979
	RC-2-14	UT	1982
	RC-2-14	PT	1983
	RC-3-1	UT	1982
	RC-3-1	PT	1983
	RC-1-14	VT, PT	1979
	RC-1-14	UT	1982
	RC-1-14	PT	1983
	RC-3-14	VT, PT	1979
	RC-3-14	UT	1982
	RC-3-4	PT	1983
	RC-3-5	PT	1983

TABLE NO. 1



PTP-384

SCALE

NO. 10

DATE

7-20-86

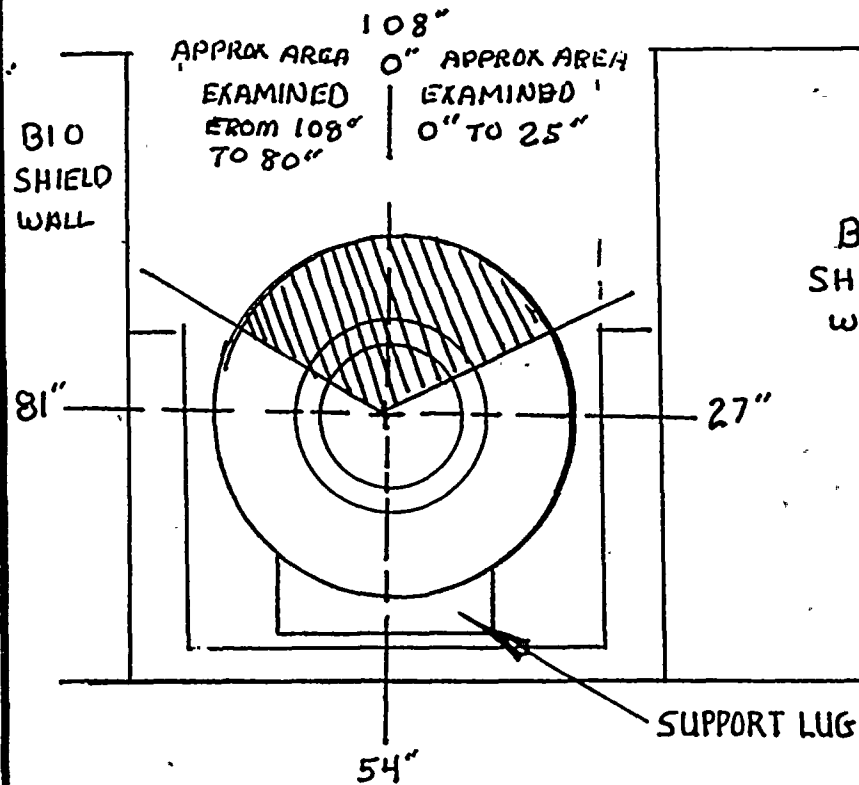
BY

ELA

TYPICAL CONFIGURATION

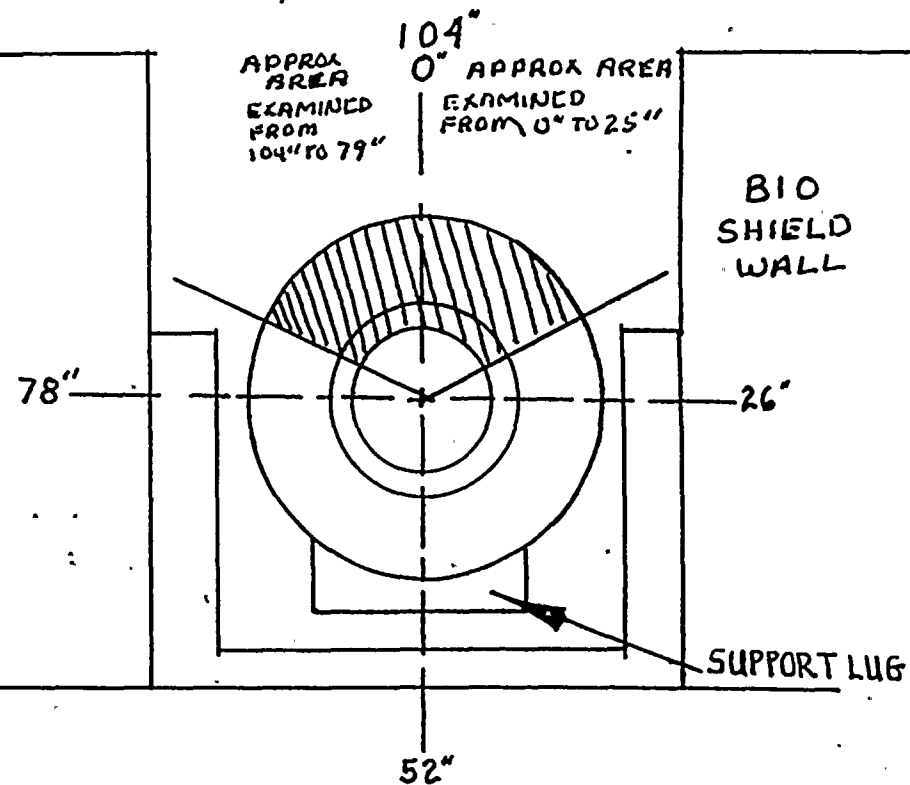
RELIEF REQUEST NO. 12

FIG. NO. 1



RCC-X-1 WELDS
HOT LEGS

"WELD LENGTH LIMITATIONS"



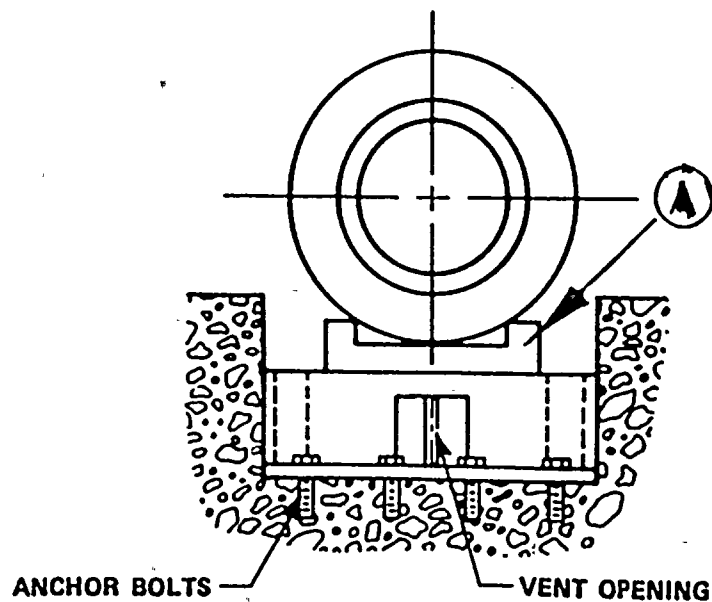
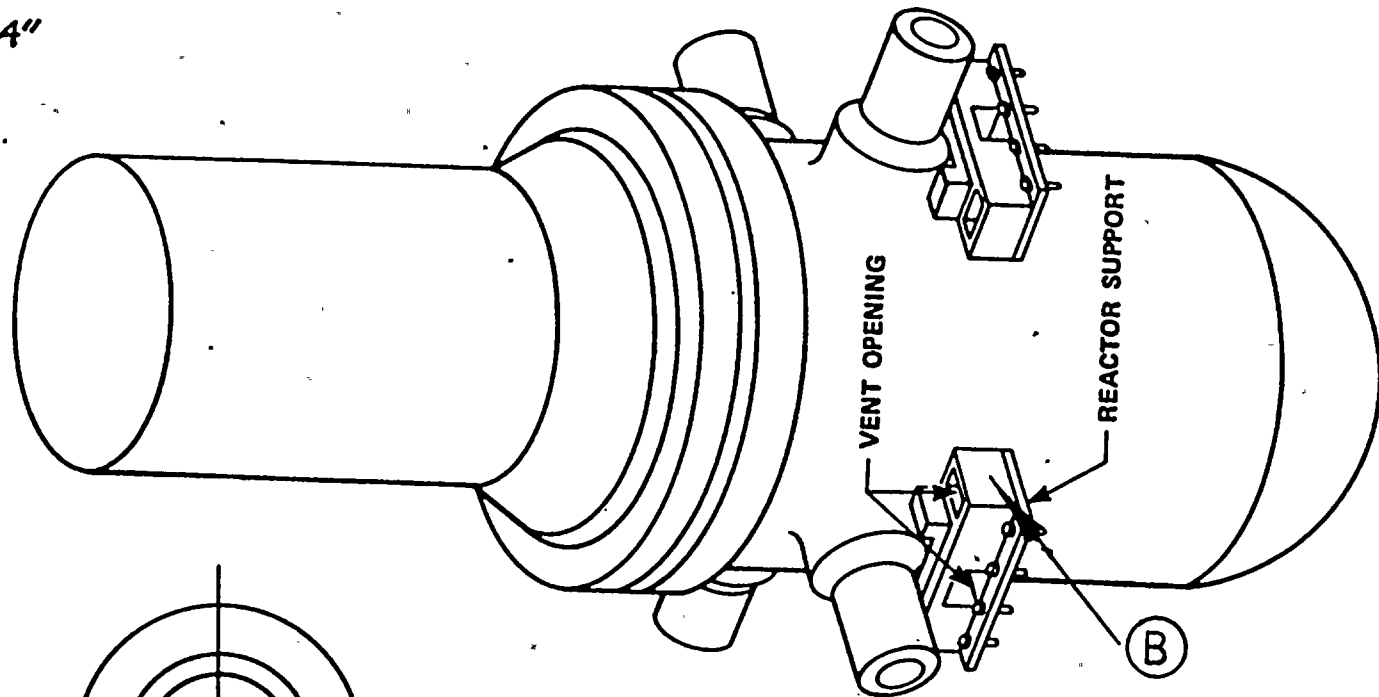
RCC-X-14 WELDS
COLD LEGS

PTP-3&4

SCALE NONE	APPROVED BY	DRAWN BY ELA
DATE 7-25-86		REVIEWED
TYPICAL LIMITATIONS DUE TO NOZZLE SUPPORT LUG < BIO SHIELD WELD.		
RELIEF REQUEST NO. 12		DRAWING NUMBER FIG. NO. 2

Ⓐ SUPPORT LENGTH 3'-4"

Ⓑ SUPPORT WIDTH 9"



PTP-384

SCALE NONE
DATE 7-28-86

APPROVED BY

DRAWN BY EIA
REVIEWED

RPV SUPPORT CONFIGURATION

RELIEF REQUEST NO. 12

DRAWING NUMBER
FIG. NO. 3

SAND BOX

SAND BOX
WIDTH 24"
LENGTH 3"

22"

PIPE SLEEVE

2"

INSULATION

3-1/2"

SAFE-END WELD

"SANDBOX AREA"

REF. 5610-C-560

PTP-3&4

SCALE NONE

APPROVED BY

DRAWN BY EIA

DATE

REVISED

SAFE-END WELD

RELIEF REQUEST NO. 12

FIG. NO. 4

RPV

22"

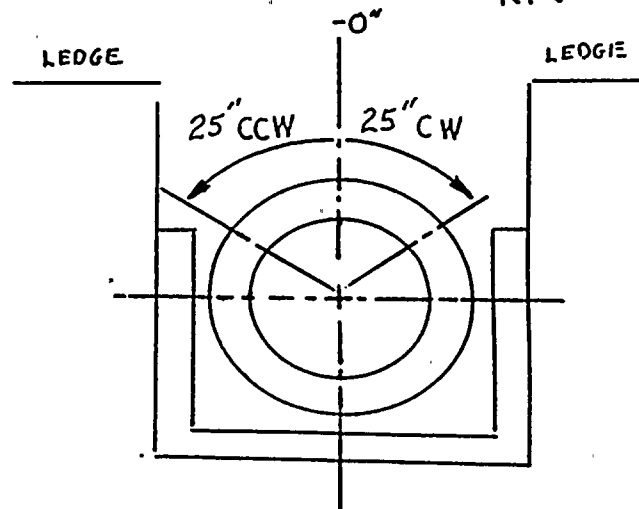
WRV
5"

1" * 2"

	HOT LEG
IDENTIFICATION:	RCC-X-1
SIZE:	29"
WELD LENGTH:	108"
CROWN WIDTH:	* 2.25"

	COLD LEG
IDENTIFICATION:	RCC-X-14
SIZE:	27.5"
WELD LENGTH:	104"
CROWN WIDTH:	* 2.25"

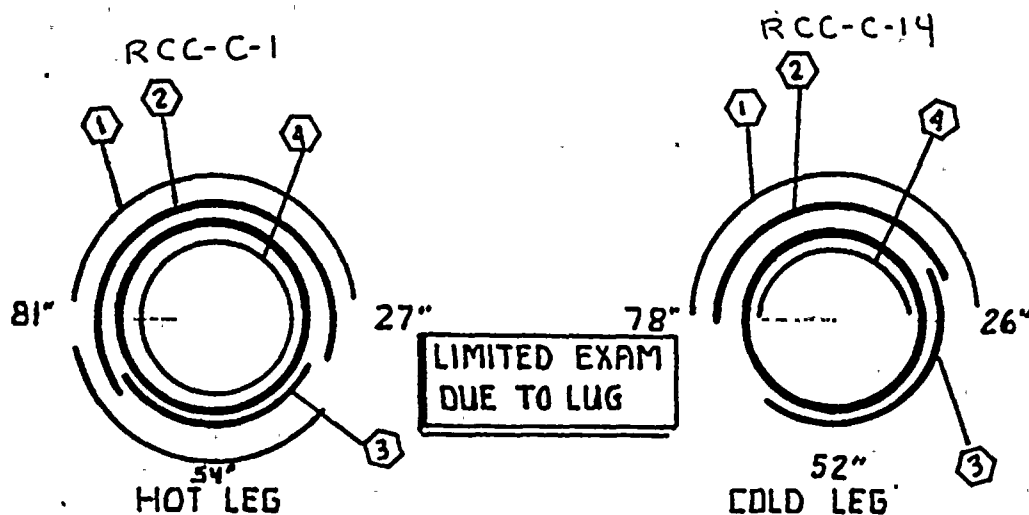
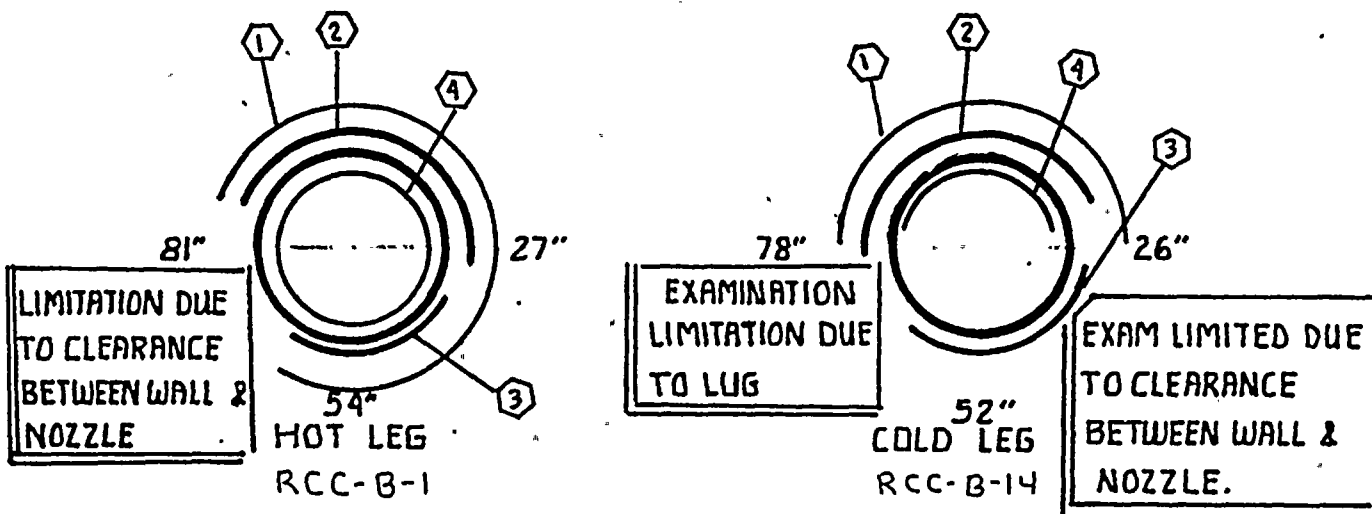
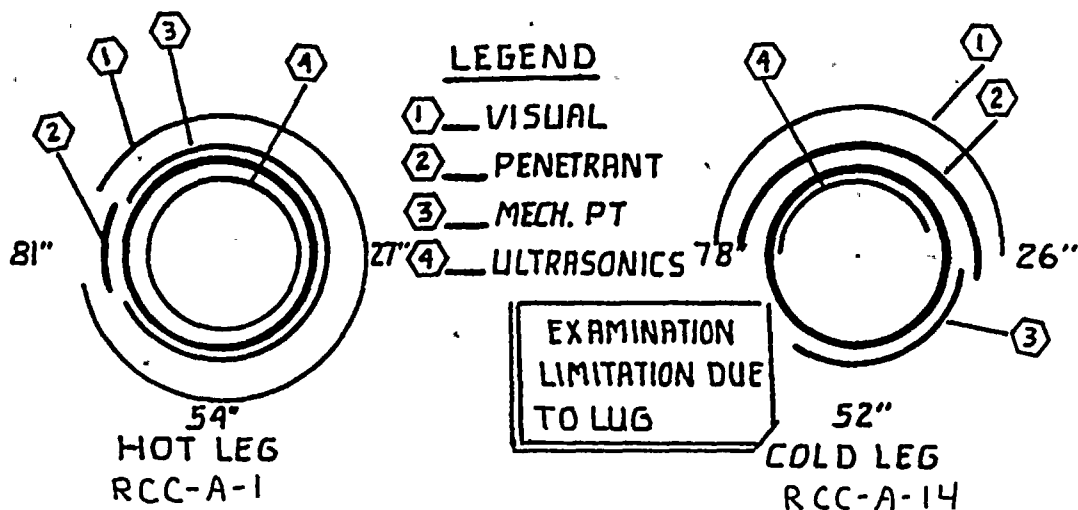
TOP OF NOZZLE
LOOKING TOWARD RPV



TYPICAL WELD LENGTH
LIMITATIONS

PTP-384

SCALE NONE		APPROVED BY	DRAWN BY ELA
DATE 7-28-96		REVISED	
AVERAGE SURFACE EXAMINATION COVERAGE			
RELIEF REQUEST NO. 12			DRAWING NUMBER FIG. NO. 5



REACTOR PRESSURE VESSEL
NOZZLE TO SAFE END EXAMINATIONS
FIGURE NO. 6

TURKEY POINT UNITS 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 2

A. COMPONENT IDENTIFICATION:

- CLASS 1
- CODE CATEGORY B-F
- PRESSURE RETAINING DISSIMILAR METAL WELDS - REACTOR
PRESSURE VESSEL SAFE - ENDS
- CODE ITEM NUMBER: B5.10

B. EXAMINATION REQUIREMENTS:

THE EXAMINATIONS PERFORMED DURING EACH INSPECTION INTERVAL SHALL COVER THE CIRCUMFERENCE OF 100% OF THE WELDS. NOZZLE SAFE-END WELDS REQUIRE VOLUMETRIC AND SURFACE EXAMINATION METHODS. THE AREA SUBJECT TO EXAMINATION IS IDENTIFIED IN IWB-2500-8. SEE FIGURE NO. 1, FOR EXAMINATION REQUIREMENTS.

C. RELIEF REQUESTED:

RELIEF IS REQUESTED FROM THE CODE VOLUME AND SURFACE AREA NOT ACHIEVABLE IN THE PERFORMANCE OF ULTRASONIC AND LIQUID PENETRANT EXAMINATION.

D. BASIS FOR RELIEF:

1. PORTIONS OF THE REQUIRED VOLUMETRIC AND SURFACE AREA ARE INACCESSIBLE DUE TO PERMANENT PHYSICAL OBSTRUCTIONS IN THE ANNULUS AREA AROUND THE REACTOR PRESSURE VESSEL, SEE FIGURE NO. 2 FOR TYPICAL CONTAINMENT BUILDING CONFIGURATION: i.e. BIOLOGICAL SHIELD WALL, FIGURE NO. 3: INSULATION BRACKETS, NOZZLE SUPPORT LUGS, FIGURE NO. 4: SAND BOX AREA, FIGURE NO. 5.
2. IN ORDER TO CONDUCT THESE EXAMINATIONS AT TURKEY POINT ACCESS TO THESE AREAS CAN ONLY BE PERFORMED FROM THE REFUELING POOL WHICH REQUIRES THE SEAL RING AND SAND PLUG REMOVAL. (FIG. NO. 5)
3. NON-REMOVABLE VESSEL INSULATION RESTRICTS ACCESS.
4. LESS THAN 50% OF THE SURFACE AREA CAN BE EFFECTIVELY EXAMINED. (FIG. NO. 3)
5. PERFORMANCE OF THESE EXAMINATIONS ON THE NOZZLES INVOLVES EXCESSIVE COST, MANHOURS AND MAN/REM WITH LITTLE OR NO COMPENSATING INCREASE IN THE LEVEL OF QUALITY AND SAFETY.

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 2 CONTINUED

6. FP&L FEELS THAT THE EXTENT OF EXAMINATIONS CONDUCTED AND THE VOLUME ACHIEVED PROVIDE ASSURANCE OF AN ACCEPTABLE LEVEL OF QUALITY AND SAFETY.

E. ALTERNATIVE EXAMINATIONS:

1. CONDUCT VOLUMETRIC AND SURFACE EXAMINATIONS TO THE EXTENT POSSIBLE FOR CODE CATEGORY B-F, INLET REACTOR PRESSURE VESSEL NOZZLE SAFE-END WELDS.

PTP-3

PTP-4

27.5-RCS-1307-14
27.5-RCS-1306-14
27.5-RCS-1309-14

27.5-RCS-1407-14
27.5-RCS-1406-14
27.5-RCS-1409-14

2. CONDUCT A FULL VOLUME ULTRASONIC EXAMINATION TECHNIQUE TO EFFECTIVELY EXAMINE THE OUTSIDE SURFACES OF THE REACTOR VESSEL NOZZLE SAFE END WELDS (OUTLET NOZZLES) IN LIEU OF THE SURFACE EXAMINATIONS AS DEFINED IN THE PROPOSED ATTACHMENT NO. 2 TO THIS RELIEF REQUEST.

PTP-3

PTP-4

29-RCS-1304-1
29-RCS-1305-1
29-RCS-1308-1

29-RCS-1404-1
29-RCS-1405-1
29-RCS-1408-1

3. CONDUCT SYSTEM PRESSURE TESTS AS REQUIRED BY TURKEY POINT INSERVICE PRESSURE TEST PROGRAM.
4. THE EXTENT OF EXAMINATION VOLUME ACHIEVED ULTRASONICALLY COUPLED WITH THE SURFACE EXAMINATION AND THE SYSTEM PRESSURE TESTS PROVIDE ASSURANCE OF AN ACCEPTABLE LEVEL OF QUALITY AND SAFETY.

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

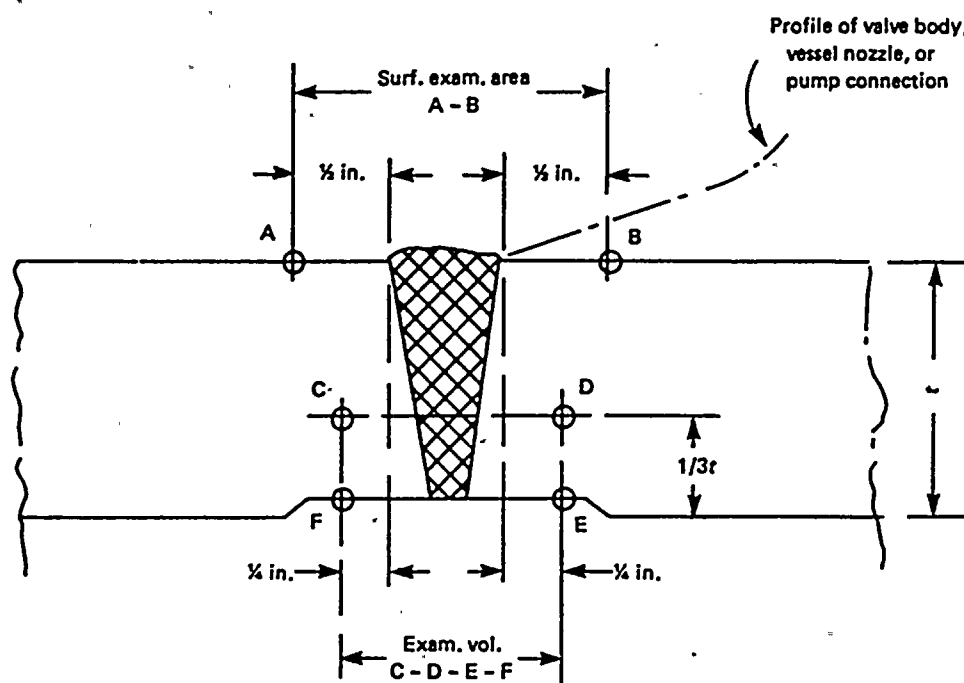
RELIEF REQUEST NO. 2 CONTINUED

IMPLEMENTATION SCHEDULE:

- SECOND INSERVICE INSPECTION INTERVAL
 - PTP-3 2-22-84 TO 2-22-94
 - PTP-4 4-15-84 TO 4-15-94
- OUTLET NOZZLES TO BE EXAMINED BY THE END OF THE FIRST PERIOD
- INLET NOZZLES TO BE EXAMINED IN CONJUNCTION WITH THE MECHANIZED EXAMINATIONS AT OR NEAR THE END OF THE INSPECTION INTERVAL

ATTACHMENTS:

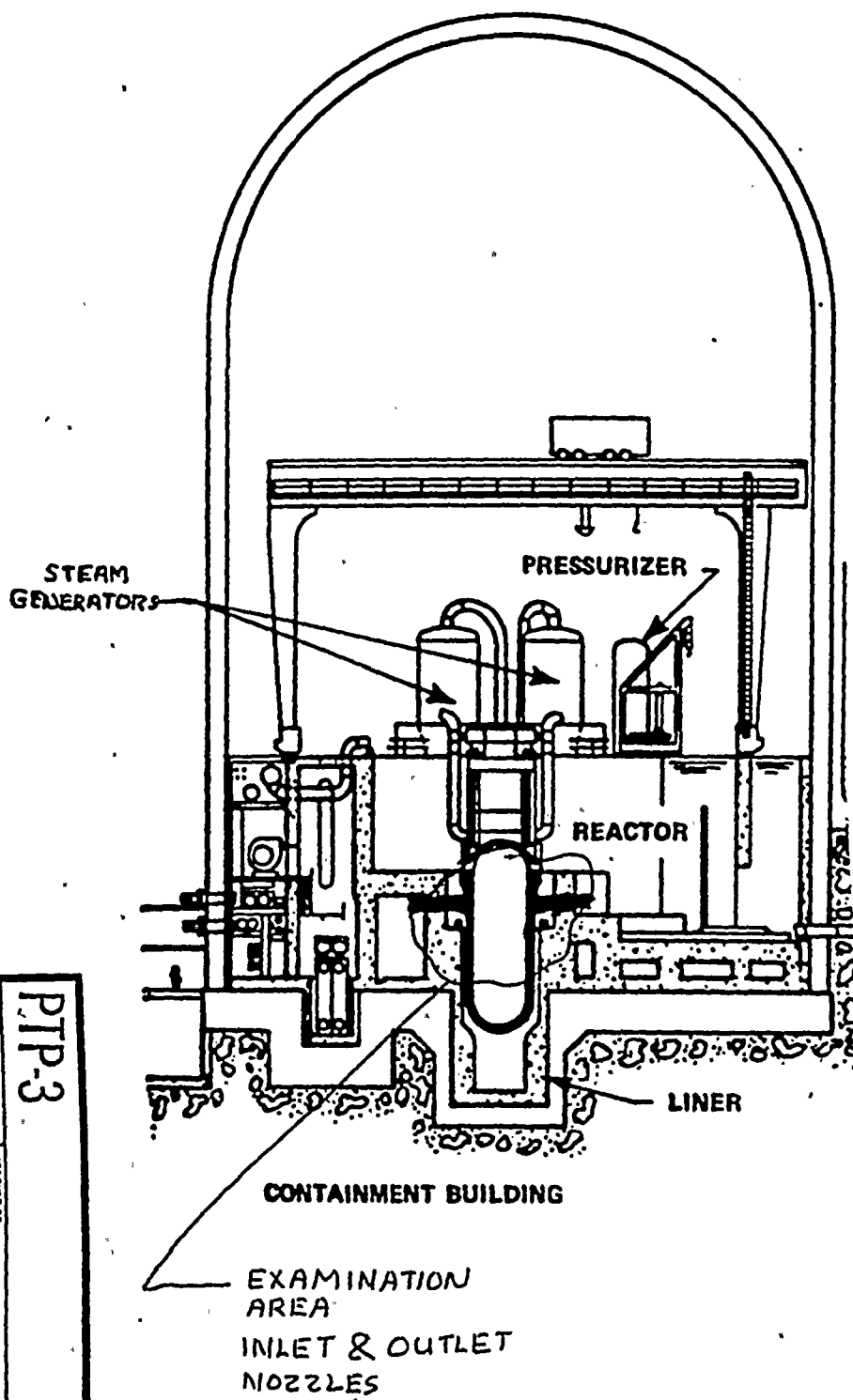
- FIGURE NO. 1 - REQUIREMENTS FOR CLASS 1 COMPONENTS (IWB-2500-8).
- FIGURE NO. 2 - TYPICAL CONTAINMENT BUILDING CONFIGURATION
- FIGURE NO. 3 - EXISTING EXAMINATION COVERAGE
- FIGURE NO. 4 - REACTOR PRESSURE VESSEL NOZZLE SUPPORT CONFIGURATION
- FIGURE NO. 5 - REACTOR VESSEL SAND BOX CONFIGURATION.
- FIGURE NO. 6 - PROPOSED EXAMINATION COVERAGE FOR OUTLET NOZZLE SAFE ENDS
- FIGURE NO. 7 - INLET NOZZLE CONFIGURATION
- FIGURE NO. 8 - OUTLET NOZZLE CONFIGURATION
- ATTACHMENT NO. 1 - TURKEY POINT UNIT 3 & 4 WELDS AFFECTED BY THIS RELIEF REQUEST.
- ATTACHMENT NO. 2 - PROPOSED ALTERNATE ULTRASONIC EXAMINATION TECHNIQUE FOR THE TURKEY POINT UNIT NO. 3 & 4 OUTLET NOZZLE SAFE ENDS



(b) NPS > 4 in.

FIG. IWB-2500-8 SIMILAR AND DISSIMILAR METAL WELDS IN PIPING

SCALE NONE		APPROVED BY	DRAWN BY ELA
DATE 7-29-86			REVISED
REQUIREMENTS FOR CLASS I COMPONENTS			
RELIEF REQUEST NO. 2			DRAWING NUMBER FIG. NO. 1



PTP-3

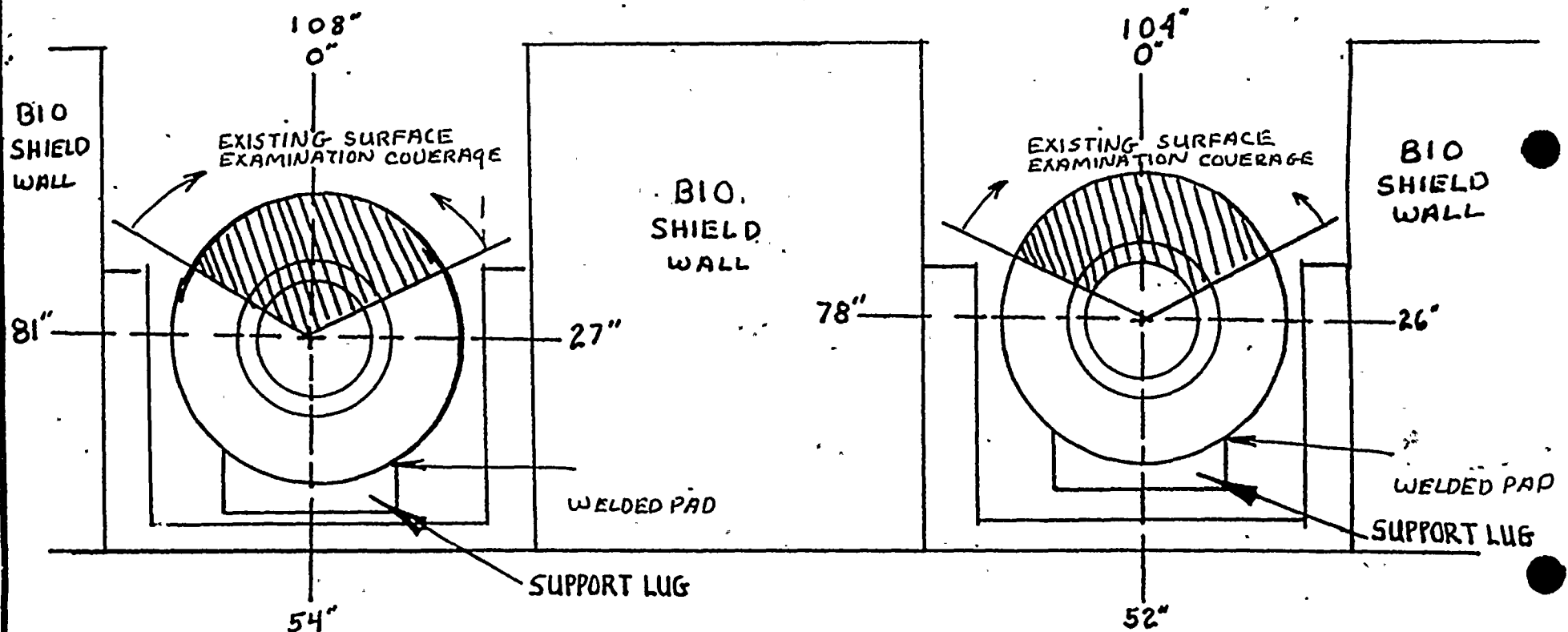
PTP-4

CTMT. BUILDING CONFIGURATION

RELIEF REQUEST NO. 2

FIG. NO. 2

DATE	NOV 8	APPROVED BY	
DATE	7-25-86	DESIGNED BY	ELA
		IN CHARGE	



OUTLET NOZZLES
 29"- RCS-X-1 WELDS
 HOT LEGS
 LINE NUMBERS
 PTP-3 1304, 1305, 1308
 PTP-4 1404, 1405, 1408

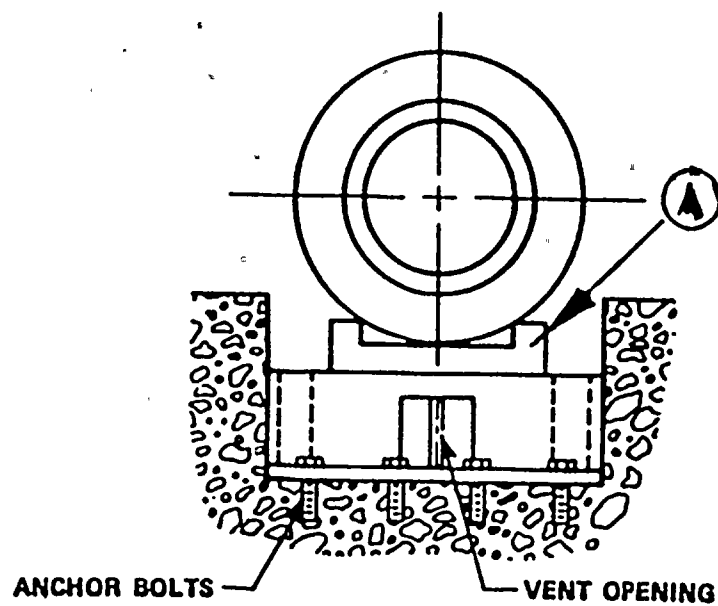
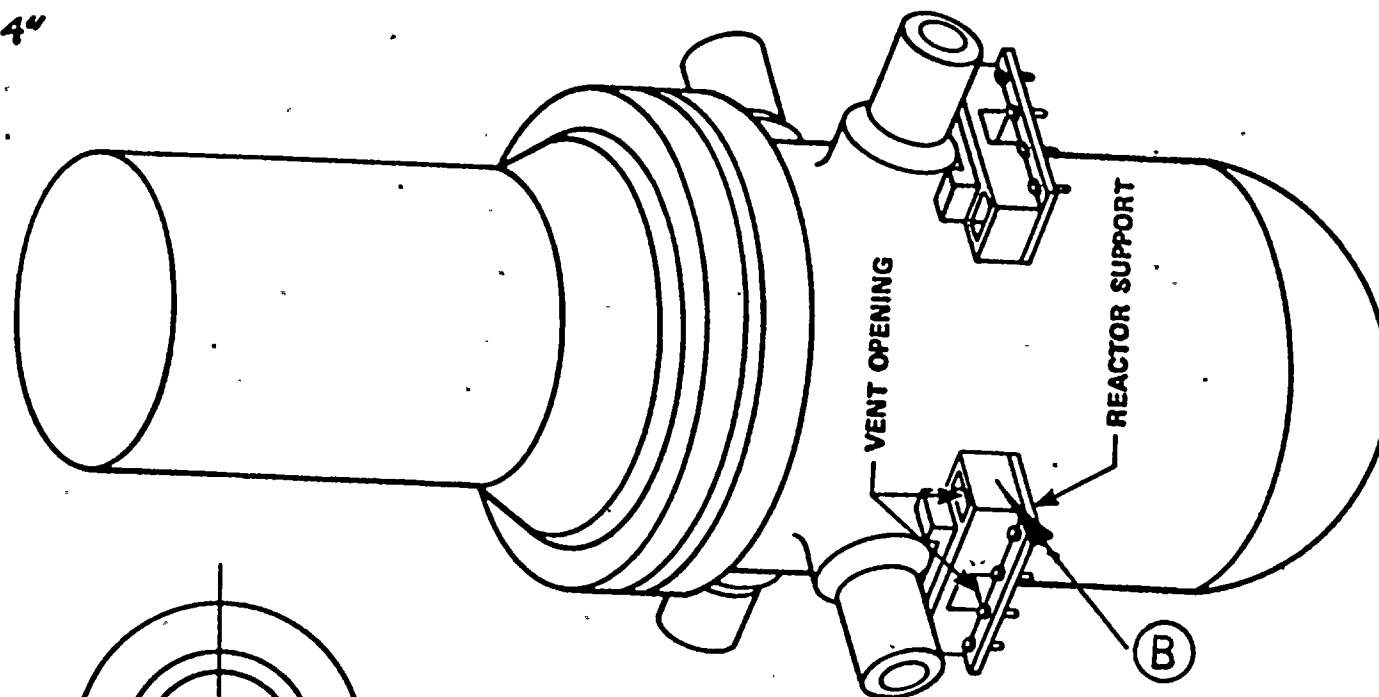
"WELD LENGTH LIMITATIONS"

INLET NOZZLES
 27.5"- RCS-X-14 WELDS
 COLD LEGS
 LINE NUMBERS
 PTP-3 1307, 1306, 1309
 PTP-4 1407, 1406, 1409

PTP-3		PTP-4	
SCALE NONE	APPROVED BY	DRAWN BY ELA	
DATE 7-28-86		REVIEWED	
EXISTING EXAMINATION COVERAGE			
RELIEF REQUEST NO. 2		FIG. NO. 3	

Ⓐ SUPPORT LENGTH 3'-4"

Ⓑ SUPPORT WIDTH 9"



PTP-3.

PTP-4

SCALE NONE

APPROVED BY

DATE 7-28-86

DRAWN BY EIA

REVIEWED

RPV NOZZLE SUPPORT CONFIG.

RELIEF REQUEST NO. 2

DRAWING NUMBER
FIG. NO. 4

RPV

REACTOR PRESSURE
VESSEL
NON-REMOVABLE
INSULATION

22"

SAND BOX

HIGH RADIATION
AREA
5 MAN/REM

2"

PIPE SLEEVE

INSULATION

3-1/2"

SAFE-END WELD

SAND BOX

WIDTH 24"
LENGTH 3"

"SANDBOX AREA"

REF. 5610-C-560

PTP-3

PTP-4

SCALE NONE

APPROVED BY

DRAWN BY EIA

DATE

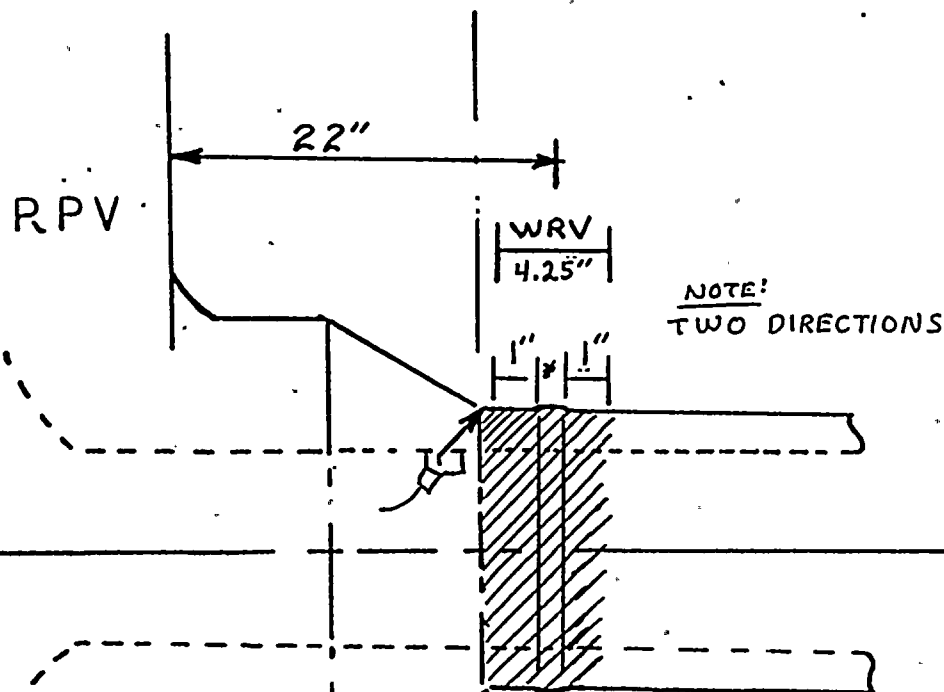
REVIEWED

SAND BOX CONFIGURATION

RELIEF REQUEST NO. 2

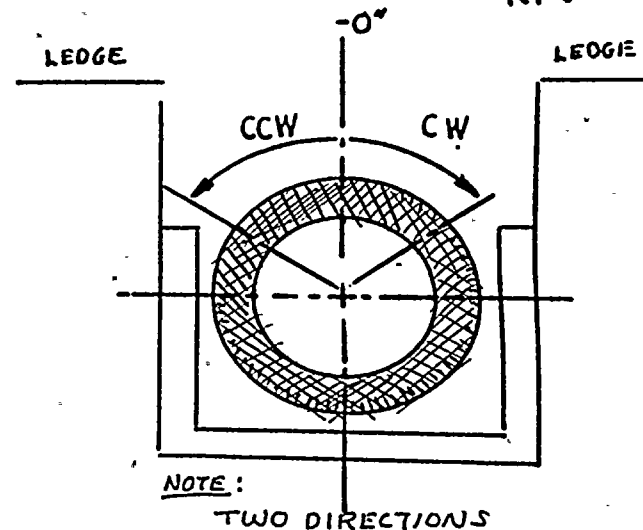
DRAWING NUMBER

FIG. NO. 5



	HOT LEG	COLD LEG
IDENTIFICATION:	RCC-X-1	RCC-X-14
SIZE:	29"	27.5"
WELD LENGTH:	108"	104"
CROWN WIDTH:	* 2.25"	* 2.25"

TOP OF NOZZLE
LOOKING TOWARD RPV



EXAMINATION COVERAGE
UTILIZING ALTERNATE
ULTRASONIC TECHNIQUE FROM
THE INSIDE SURFACE.

PTP-3

PTP-4

SCALE NONE

APPROVED BY

DATE 7-28-86

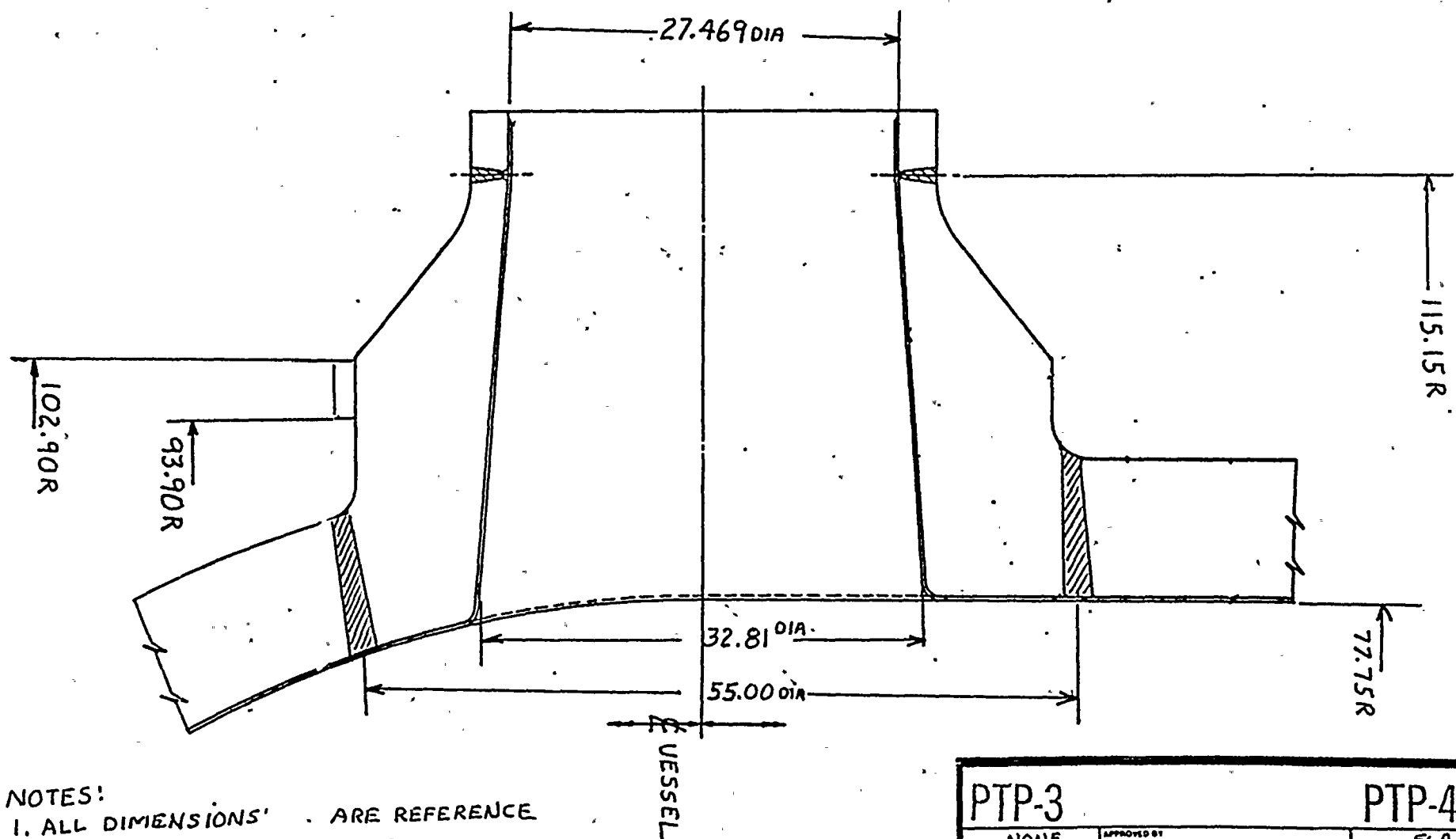
DESIGNED BY ELA

REVIEWED

ALTERNATE U.T. OUTLET NOZZLE
COVERAGE

RELIEF REQUEST NO. 2

FIG. NO. 6



NOTES:

1. ALL DIMENSIONS ARE REFERENCE
2. DIMENSIONS ARE IN INCHES

PTP-3

PTP-4

SCALE NONE

APPROVED BY

DRAWN BY ELA

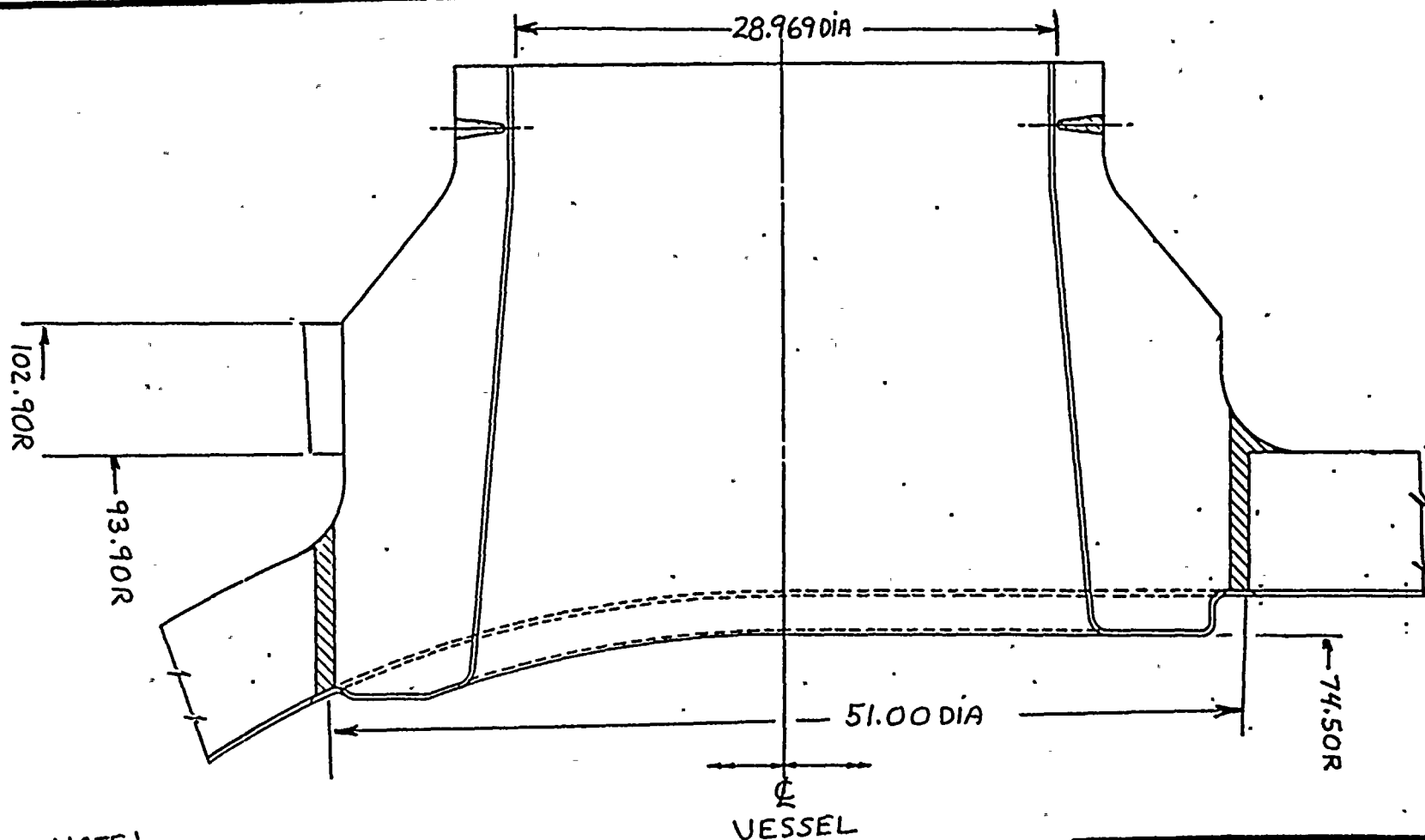
DATE 7-29-86

REVISED

INLET NOZZLE DIMENSIONS

RELIEF REQUEST NO. 2

DRAWING NUMBER
FIG. NO. 7



NOTE:
 1. ALL DIMENSIONS ARE REFERENCE
 2. DIMENSIONS ARE IN INCHES

PTP-3

PTP-4

SCALE NONE

APPROVED BY

DRAWN BY ELA

DATE 7-29-86

REVISED

OUTLET NOZZLE DIMENSIONS

RELIEF REQUEST NO. 2

DRAWING NUMBER
 FIG. NO. 8

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 2

ATTACHMENT NO. 1
WELDS AFFECTED BY THIS RELIEF REQUEST

PLANT/ UNIT NO.		WELD IDENTIFICATION	
PTP-3	OUTLET	29-RCS-1304-1	HOT LEG
	INLET	27.5-RCS-1307-14	COLD LEG
	OUTLET	29-RCS-1305-1	HOT LEG
	INLET	27.5-RCS-1306-14	COLD LEG
	OUTLET	29-RCS-1308-1	HOT LEG
	INLET	27.5-RCS-1309-14	COLD LEG
PTP-4	OUTLET	29-RCS-1404-1	HOT LEG
	INLET	27.5-RCS-1407-14	COLD LEG
	OUTLET	29-RCS-1405-1	HOT LEG
	INLET	27.5-RCS-1406-14	COLD LEG
	OUTLET	29-RCS-1408-1	HOT LEG
	INLET	27.5-RCS-1409-14	COLD LEG

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

RELIEF REQUEST NO. 2

ATTACHMENT NO. 2

ALTERNATE VOLUMETRIC EXAMINATION
OF THE TURKEY POINT UNIT NO. 3 & 4
OUTLET NOZZLE SAFE ENDS
TO BE USED IN LIEU OF
THE SURFACE EXAMINATION REQUIREMENTS

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED

BACKGROUND

TO PERFORM ULTRASONIC WELD EXAMINATIONS, THE ULTRASONIC SEARCH UNIT IS APPLIED TO THE PIPE BASE METAL ADJACENT TO THE WELD. ANGULATION WEDGES CAUSE THE ULTRASONIC BEAM TO REFRACT AT THE PIPE SURFACE AND PROPAGATE INTO THE WELD AT A PREDETERMINED ANGLE. AS THE ULTRASONIC BEAM PASSES THROUGH THE PIPE WALL AND THE VOLUME OF THE WELD METAL, THE ULTRASONIC INSTRUMENT DISPLAYS ECHOS FROM REFLECTING SURFACES. THE DEGREE OF SUCCESS DEPENDS ON THE EXAMINATION MATERIAL, THE STRENGTH OF THE ULTRASONIC BEAM, AND BEAM ANGLE WITH RESPECT TO THE ORIENTATION OF THE REFLECTING SURFACE.

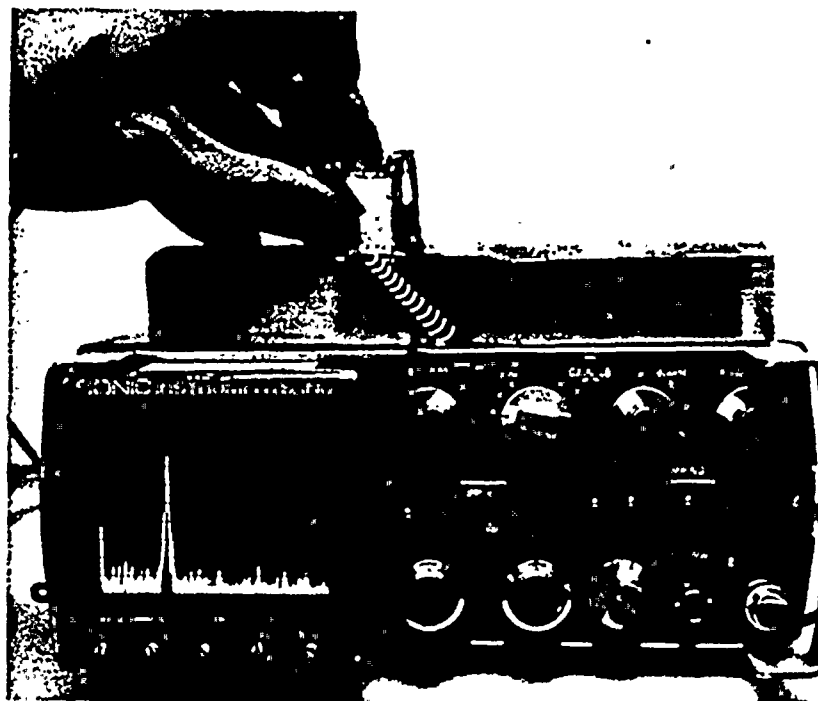


FIGURE NO. 1

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED

FULL VOLUME EXAMINATION

WHEN FULL VOLUME EXAMINATIONS ARE REQUIRED, THE ULTRASONIC BEAM IS MONITORED DURING THE ENTIRE BEAM PATH, i.e. ENTRY TO INSIDE SURFACE IMPINGEMENT. CONDITIONS PERMITTING, THE BEAM IS FURTHER MONITORED AFTER IT REFLECTS AT THE INSIDE SURFACE AND CONTINUES TO PROPAGATE IN A VEE PATH TOWARD THE OUTSIDE SURFACE.

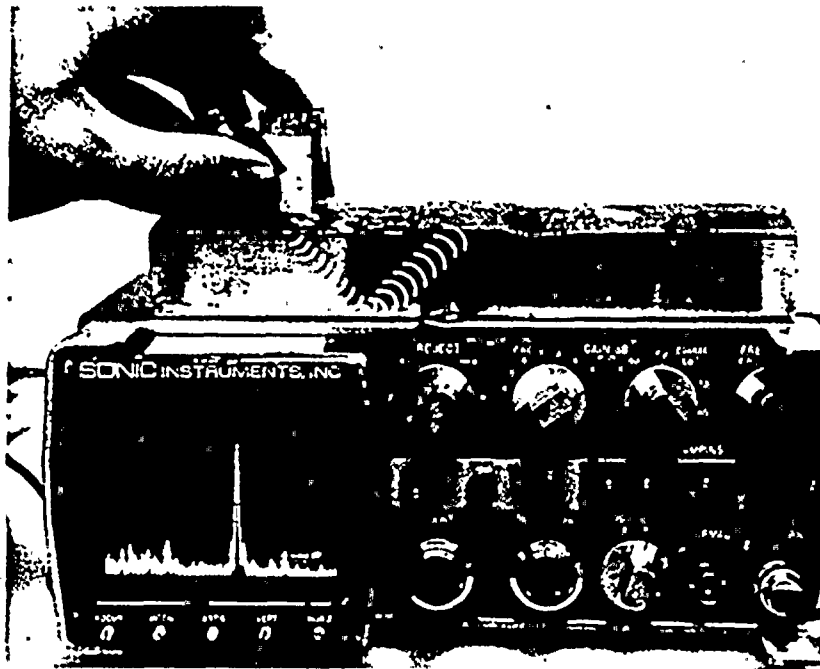


FIGURE NO. 2

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED

ULTRASONIC CHARACTERISTICS

DURING PROPAGATION THE ULTRASONIC BEAM EXHIBITS THREE MAIN CHARACTERISTICS; DIVERGENCE, ATTENUATION, AND SCATTERING. THE ESTABLISHMENT OF A DISTANCE AMPLITUDE-CORRECTION DURING CALIBRATION WILL GENERALLY COMPENSATE FOR THESE BEAM CHARACTERISTICS, TO A DEGREE. A FOURTH, RECENTLY RECOGNIZED CHARACTERISTIC IS THE FACT THAT ENTRY SURFACE "NOISE" CAUSES A "BLIND ZONE" IMMEDIATELY UNDER THE ULTRASONIC SEARCH UNIT. THIS BLIND ZONE CONTAINS A MULTITUDE OF ENTRY SURFACE SIGNALS FROM; THE ANGULATION WEDGE, THE COUPLING MATERIAL, SURFACE IRREGULARITIES, AND FROM THE EXAMINATION MATERIAL GRAIN STRUCTURE. DEPENDING ON THE EXAMINATION PARAMETERS, THIS BLIND ZONE CAN REPRESENT FROM A FEW MILS TO AS MUCH AS AN INCH OF THE ULTRASONIC BEAM PATH WHERE FLAWS COULD EXIST UN-NOTICED.

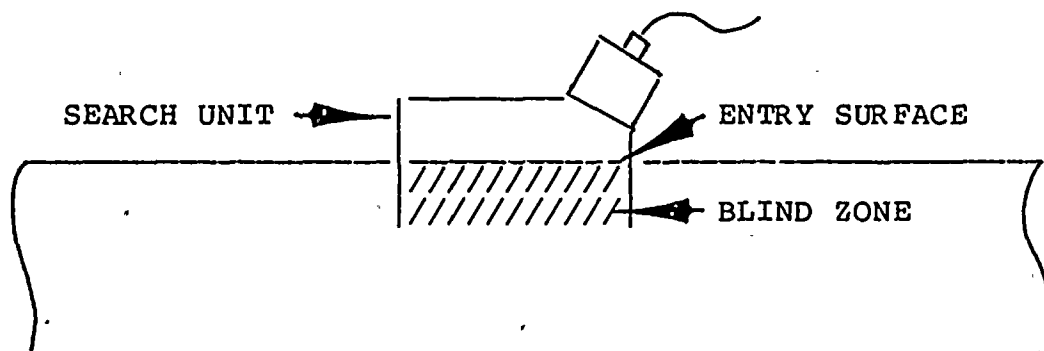


FIGURE NO. 3

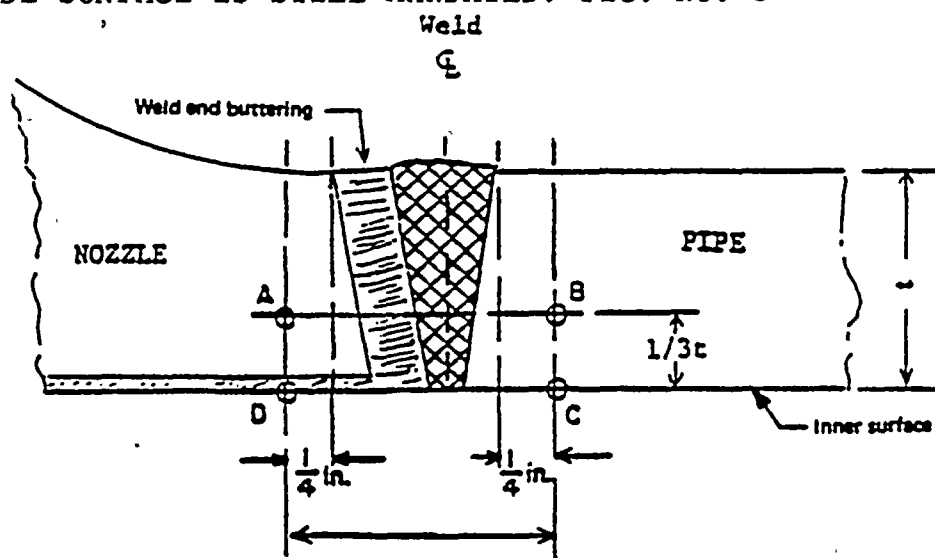
TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED

ENHANCEMENT OF EXAMINATION

THERE ARE TWO WAYS TO ENHANCE THE EXAMINATION OF THE ENTRY SURFACE. THE MOST COMMONLY EMPLOYED TECHNIQUE IS TO EXTEND THE ULTRASONIC CALIBRATION TO A FULL VEE PATH OR BEYOND. THIS ALLOWS THE OBSERVATION OF THE OUTSIDE SURFACE IN A RELATIVELY NOISE-FREE SEGMENT OF THE ULTRASONIC BEAM . FIG. NO. 2

SECOND THE SIMPLEST AND LEAST EXPENSIVE APPROACH WOULD BE TO EXAMINE THE OUTSIDE (ENTRY) SURFACE WITH ANOTHER NDE METHOD. THUS, WE RELY ON THE ULTRASONIC METHOD ONLY FOR THAT PORTION OF THE EXAMINATION VOLUME WHERE IT HAS PROVEN RELIABILITY. THIS IS THE ESSENCE OF THE ASME SECTION XI EXAMINATION REQUIREMENTS. EVEN THOUGH THE ULTRASONIC PORTION OF THE EXAMINATION VOLUME HAS BEEN REDUCED TO THE INNER ONE-THIRD OF THE WALL THICKNESS, FIG. NO. 4 THE SURFACE EXAMINATION OF THE OUTSIDE SURFACE IS STILL MANDATED. FIG. NO. 5



Examination volume A-B-C-D
FIGURE NO. 4

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED

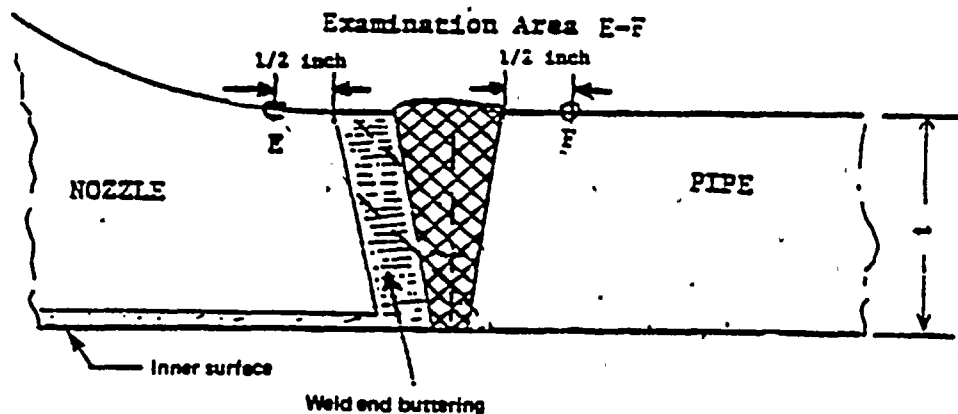


FIGURE NO. 5

FOR MOST PIPING WELDS THIS APPROACH IS THE SIMPLEST AND LEAST EXPENSIVE. BUT THIS IS NOT SO WHEN APPLIED TO THE REACTOR VESSEL NOZZLE SAFE ENDS. BECAUSE OF THEIR LOCATION, THESE WELDS POSE UNUSUAL PROBLEMS.

TURKEY POINT SAFE END PROBLEMS

1. AT TURKEY POINT THE ONLY ACCESS IS FROM THE REFUELING POOL WHICH REQUIRES SEAL RING AND SAND PLUG REMOVAL.
2. NON-REMOVABLE VESSEL INSULATION RESTRICTS ACCESS.
3. SCAFFOLDING IS NOT POSSIBLE, OR OF LIMITED VALUE.
4. VESSEL SUPPORTS ON THE BOTTOM OF THE NOZZLES RESTRICT THE ACCESS.
5. MAN-REM EXPOSURE IS HIGH (5 MAN-REM).
6. IN TOTO, WE HAVE ACCESS TO LESS THAN FIFTY PERCENT OF THE REQUIRED EXAMINATION SURFACE.

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2. CONTINUED

PROPOSED ULTRASONIC TECHNIQUE

WE PROPOSE THE USE OF STATE-OF-THE-ART ULTRASONIC EXAMINATION TECHNIQUES TO EFFECTIVELY EXAMINE THE OUTSIDE SURFACE OF THE REACTOR VESSEL NOZZLE SAFE END WELDS. THIS EXAMINATION WILL ACCOMPLISH MORE THAN THE CURRENT LIMITED LIQUID PENETRANT EXAMINATION BEING PERFORMED AT TURKEY POINT. THE ULTRASONIC EXAMINATION WILL INVESTIGATE THE OUTSIDE SURFACE OF THE SAFE END IN TWO DIRECTIONS CIRCUMFERENTIALLY AND IN TWO DIRECTIONS AXIALLY COVERING 100% OF THE WELDS PLUS ONE INCH ON EACH SIDE.

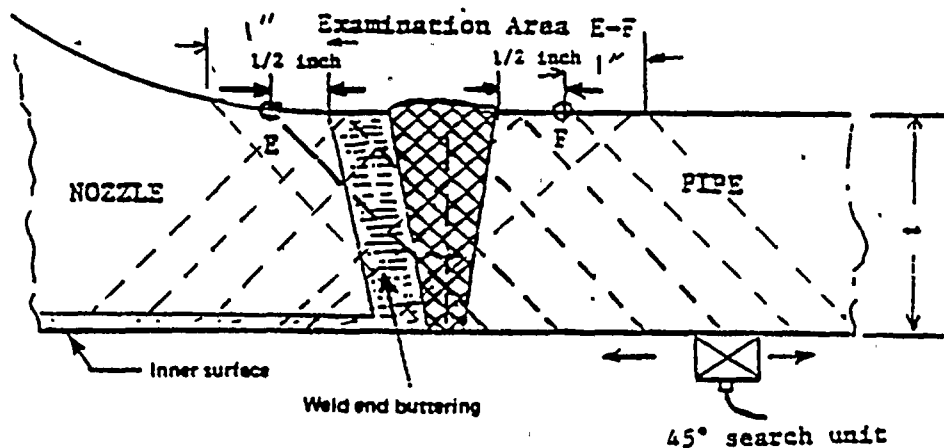
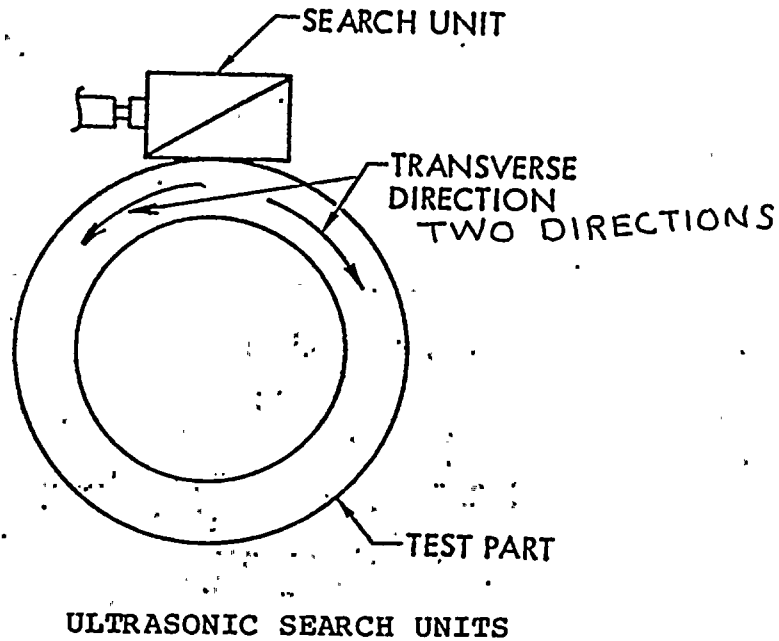


FIGURE NO. 6

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

ATTACHMENT NO. 2 CONTINUED



A HIGH RESOLUTION 45 DEGREE SHEAR WAVE ULTRASONIC EXAMINATION HAS BEEN PERFORMED ON THE UNIT 4 SAFE ENDS. EXAMINATION SENSITIVITY WAS ESTABLISHED USING .10 INCH DEEP NOTCHES (3.6%T).

ULTRASONIC EXAMINATION

THIS EXAMINATION WAS PERFORMED TO DETECT UNACCEPTABLE OUTSIDE SURFACE FLAWS THAT WOULD HAVE BEEN DETECTED USING LIQUID PENETRANT TECHNIQUES ON THE OUTSIDE SURFACE. THIS APPROACH ALLOWED EXAMINATION OF THE ENTIRE CIRCUMFERENCE OF THE WELD WHILE ALSO SAVING A SIGNIFICANT AMOUNT OF RADIATION EXPOSURE BY ALLEVIATING THE NEED FOR MANUAL EXAMINATION OF THE OUTSIDE SURFACE IN THE HIGH RADIATION AREAS OF THE SANDBOXES.

TURKEY POINT UNIT NO. 3 & 4
SECOND INSPECTION INTERVAL
INSERVICE INSPECTION

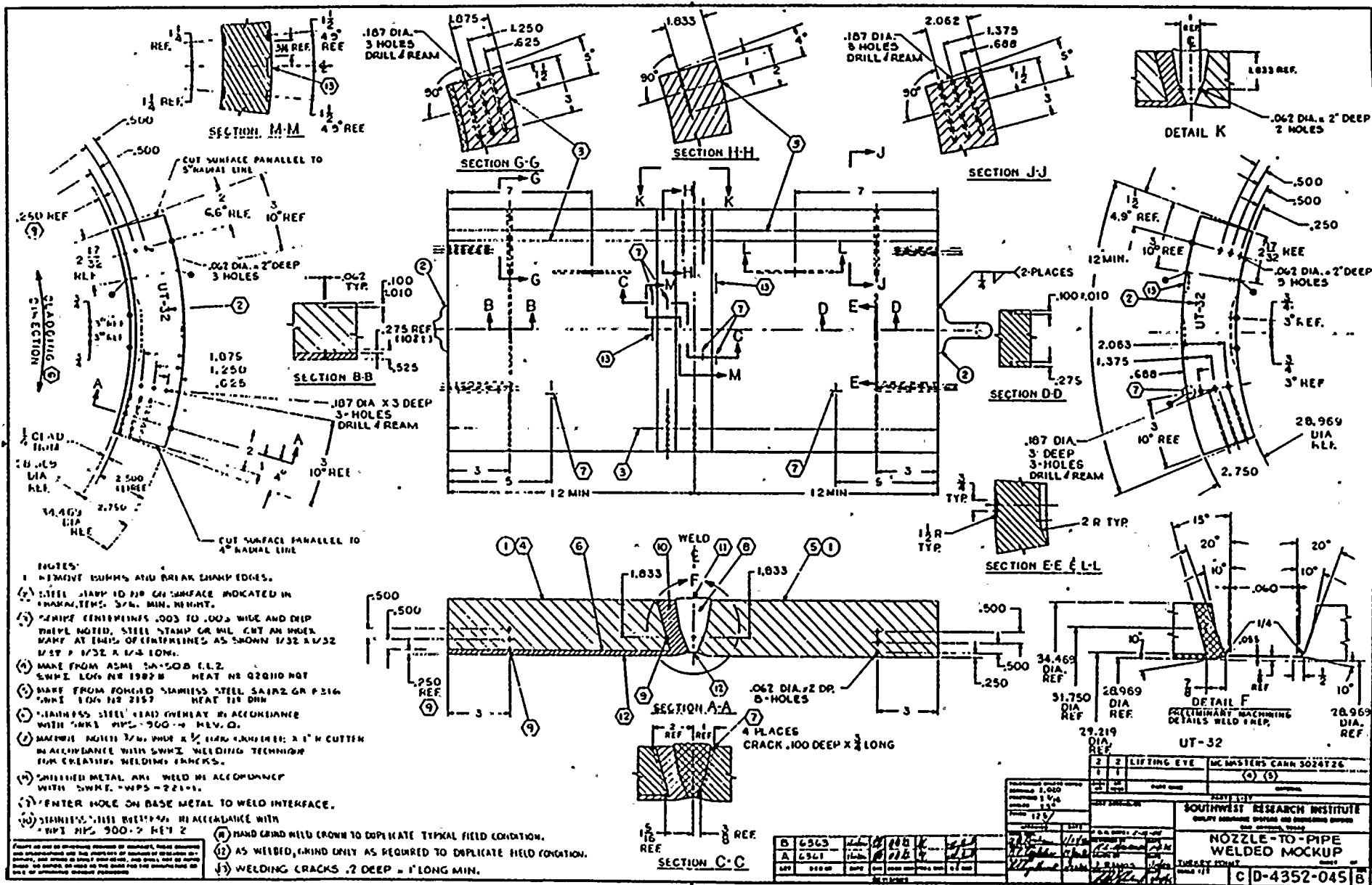
ATTACHMENT NO. 2 CONTINUED

QUALIFICATION OF TECHNIQUE

IN ORDER TO QUALIFY THESE TECHNIQUES, SOUTHWEST RESEARCH INSTITUTE DESIGNED AND FABRICATED A WELD MOCK-UP/CALIBRATION BLOCK FOR FLORIDA POWER & LIGHT THAT DUPLICATED, TO THE EXTENT POSSIBLE, THE AS-BUILT CONFIGURATION OF THE NOZZLE TO PIPE WELDS. (SEE ATTACHED CALIBRATION BLOCK DRAWING) THEN, USING A WELDING PROCESS, CRACKS WERE INITATED IN THE BLOCK AT SPECIFIC LOCATIONS ON THE INSIDE AND OUTSIDE SURFACES. THE LENGTHS AND DEPTHS OF THESE CRACKS WERE TIGHTLY CONTROLLED IN ORDER TO ALLOW THE CRACKS TO BE USED FOR QUALIFICATION PURPOSES. THE CRACK DEPTHS RANGED FROM APPROXIMATELY 0.100 INCH (1/2 THE MAXIMUM ALLOWABLE CODE FLAW DEPTH FOR THE PIPE THICKNESS) TO APPROXIMATELY 0.200 INCH (MAXIMUM ALLOWABLE CODE FLAW DEPTH). THE CRACK LENGTHS WERE CONTROLLED AT .5 INCH WHICH IS WITHIN THE .65 INCH ALLOWED BY CODE FOR LIQUID PENETRANT INDICATIONS. THE CRACKS WERE THEN INVESTIGATED AND DEMONSTRATED TO BE DETECTABLE AND RECORDABLE TO THE SATISFACTION OF THE AUTHORIZED NUCLEAR INSERVICE INSPECTOR (ANII) PRIOR TO PERFORMANCE OF THE ACTUAL EXAMINATIONS.

EXAMINATION RESULTS

NO RECORDABLE INDICATIONS WERE DETECTED DURING THE EXAMINATION OF ALL THREE OUTLET NOZZLE SAFE END AREAS.



DISTRIBUTION
Docket File w/o encl.
PAD#2 Rdg w/o encl.
D. Miller w/encl.
D. McDonald w/encl.

August 5, 1986

DOCKET NO(S). 50-250 and 50-251
Mr. C. O. Woody, Group Vice President
Nuclear Energy Department
Florida Power and Light Company
Post Office Box 14000
Juno Beach, Florida 33408

SUBJECT: TURKEY POINT PLANT UNITS 3 AND 4

The following documents concerning our review of the subject facility are transmitted for your information.

- ☐ Notice of Receipt of Application, dated _____.
- ☐ Draft/Final Environmental Statment, dated _____.
- ☐ Notice of Availability of Draft/Final Environmental Statement, dated _____.
- ☐ Safety Evaluation Report, or Supplement No. _____, dated _____.
- ☐ Notice of Hearing on Application for Construction Permit, dated _____.
- ☐ Notice of Consideration of Issuance of Facility Operating License, dated _____.
- ☐ Monthly Notice; Applications and Amendments to Operating Licenses Involving no Significant Hazards Considerations, dated _____.
- ☐ Application and Safety Analysis Report, Volume _____.
- ☐ Amendment No. _____ to Application/SAR dated _____.
- ☐ Construction Permit No. CPPR- _____, Amendment No. _____ dated _____.
- ☐ Facility Operating License No. _____, Amendment No. _____, dated _____.
- ☐ Order Extending Construction Completion Date, dated _____.
- ☒ Other (Specify) Bi-weekly Notice covering period July 30, 1986. Expiration date
for hearing requests and comments August 29, 1986.

Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: See next page

OFFICE➤	LA/PA/MA						
SURNAME➤	D. Miller:hc						
DATE➤	8/5/86						

[illegible]

1990

[illegible][illegible][illegible]

Journal of Management Education 30(6)

1. 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. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Mr. C. O. Woody
Florida Power and Light Company

cc:
Harold F. Reis, Esquire
Newman and Holtzinger, P.C.
1615 L Street, N.W.
Washington, DC 20036

Mr. Jack Shreve
Office of the Public Counsel
Room 4, Holland Building
Tallahassee, Florida 32304

Norman A. Coll, Esquire
Steel, Hector and Davis
4000 Southeast Financial
Center
Miami, Florida 33131-2398

Mr. C. M. Wethy, Vice President
Turkey Point Nuclear Plant
Florida Power and Light Company
P.O. Box 029100
Miami, Florida 33102

Mr. M. R. Stierheim
County Manager of Metropolitan
Dade County
Miami, Florida 33130

Resident Inspector
U.S. Nuclear Regulatory Commission
Turkey Point Nuclear Generating Station
Post Office Box 57-1185
Miami, Florida 33257-1185

Mr. Allan Schubert, Manager
Office of Radiation Control
Department of Health and
Rehabilitative Services
1317 Winewood Blvd.
Tallahassee, Florida 32301

Intergovernmental Coordination
and Review
Office of Planning & Budget
Executive Office of the Governor
The Capitol Building
Tallahassee, Florida 32301

Turkey Point Plant

Administrator
Department of Environmental
Regulation
Power Plant Siting Section
State of Florida
2600 Blair Stone Road
Tallahassee, Florida 32301

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
Suite 2900
101 Marietta Street
Atlanta, Georgia 30323

Martin H. Hodder, Esquire
1131 NE, 86th Street
Miami, Florida 33138

Joette Lorion
7269 SW, 54 Avenue
Miami, Florida 33143

Mr. Chris J. Baker, Plant Manager
Turkey Point Nuclear Plant
Florida Power and Light Company
P.O. Box 029100
Miami, Florida 33102

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, Florida 32304

