

1985 INSERVICE INSPECTION SUMMARY REPORT

PREPARED BY

FLORIDA POWER & LIGHT COMPANY  
9250 WEST FLAGLER STREET  
MIAMI, FLORIDA 33174

FOR

TURKEY POINT NUCLEAR POWER PLANT  
UNIT NO. 3

COMMERCIAL SERVICE DATE: 14 DECEMBER 1972

DOCUMENT NUMBER: MCI-PTP-85-300-1

8510210058 851016  
PDR ADCK 05000250  
Q PDR



# CONSUMABLE MATERIAL LISTING

BATCH NO

TYPE

MANUFACTURER

## LIQUID PENETRANT MATERIALS

84G008	SKL-HF/S	PENETRANT	MAGNAFLUX
82F082	SKL-HF/S	PENETRANT	MAGNAFLUX
83C020	SKD-NF/ZP-9B	DEVELOPER	MAGNAFLUX
83M013	SKD-NF/ZP-9B	DEVELOPER	MAGNAFLUX
82F034	SKD-NF/ZP-9B	DEVELOPER	MAGNAFLUX
81M033	SKC-NF/ZC-7B	CLEANER	MAGNAFLUX
840044	SKC-NF/ZC-7B	CLEANER	MAGNAFLUX
83D010	SKC-NF/ZC-7B	CLEANER	MAGNAFLUX
82H001	SKC-NF/ZC-7B	CLEANER	MAGNAFLUX
85B077	SKC-NF/ZC-7B	CLEANER	MAGNAFLUX

## MAGNETIC PARTICLE MATERIALS

8A	RED POWDER	MAGNAFLUX
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## ULTRASONIC MATERIALS

8330	ULTRAGEL II	COUPLANT	ECHO LABS
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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

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1. Owner Florida Power and Light Co. 9250 W. Flagler, Miami, Fla.  
(Name and address of Owner)
2. Plant TURKEY POINT NUCLEAR POWER PLANT P.O.BOX 029100, MIAMI, FLA  
(Name and address of Plant)
3. Plant Unit 3
4. Owner Certificate of Authorization (if required) N/A
5. Commercial service date 12-14-1972
6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province Number	National Board Number
REACTOR VESSEL	WESTINGHOUSE	3PSRV1	N/A	N/A
STEAM GENERATOR	WESTINGHOUSE	3E210B	N/A	N/A
REACTOR COOLANT	BECHTEL	N/A	N/A	N/A
RESIDUAL HEAT REMOVAL	BECHTEL	N/A	N/A	N/A
SAFETY INJECTION	BECHTEL	N/A	N/A	N/A
MAIN STEAM	BECHTEL	N/A	N/A	N/A
FEEDWATER	BECHTEL	N/A	N/A	N/A
BLOWDOWN	BECHTEL	N/A	N/A	N/A
CVCS	BECHTEL	N/A	N/A	N/A

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## NIS-1 REPORT CONTINUED

8. Examination Dates 3-29-1985 to 7-16-1985

9. Inspection Interval from 2-22-1984 to 2-22-1994  
SECOND INSPECTION INTERVAL

10. Abstract of Examination. Include a list of examinations and a statement concerning status of work required for current interval.

The Inservice Examinations (ISI) of selected Class I and II components of Florida Power and Light Company's (FPL) TURKEY POINT PLANT (PTP), UNIT NO. 3, was performed during the refueling outage which began on 29 MARCH 1985. These examinations constitute the FIRST OUTAGE of the FIRST 40 MONTH PERIOD OF SECOND INSPECTION INTERVAL OF COMMERCIAL OPERATION.

The components were selected in accordance with Turkey Point LONG-TERM INSPECTION PLAN which was prepared to meet the requirements of SECTION XI of the AMERICAN SOCIETY OF MECHANICAL ENGINEERS BOILER and PRESSURE VESSEL CODE, "RULES FOR INSERVICE INSPECTION OF NUCLEAR POWER PLANT COMPONENTS," 1980 EDITION with ADDENDA through WINTER 1981.

Manual Ultrasonic, Liquid Penetrant, Magnetic Particle and Visual techniques were used in the performance of the Inservice Inspection Examinations.

In cases where PTP current Technical Specifications were more restrictive than the ISI program, The additional requirements of the Technical specifications were complied with. All class I areas requiring visual examination in accordance with current technical specifications were given a visual (VT-1) examination.

Eddy Current examination techniques were used in the inspection of Steam Generator tubes on generators 3E210A, 3E210B and 3E210C.

The examinations conducted during the refueling outage of snubbers consisted of 100% Visual (VT-3), 100% limited Visual (VT-4) and 100% functional testing of mechanical snubbers.

Representative samples of the following components and areas were examined with nondestructive examination (NDE) techniques.

## CLASS I

REACTOR PRESSURE VESSEL	3PSRV1	RESIDUAL HEAT REMOVAL
CLOSURE HEAD	3PSRV1	
STEAM GENERATORS	3E210A	14"-RHR-1301
	3E210B	
	3E210C	





# NIS-1 REPORT CONTINUED

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## REACTOR COOLANT

31"-RCS-1302  
29"-RCS-1305  
27.5"-RCS-1306  
14"-RCS-1301  
12"-RC-1301

## SAFETY INJECTION

10"-SI-1301  
2"-SI-1301  
2"-SI-1305

## CHEMICAL & VOLUME

2"-CH-1301  
2"-CH-1303  
2"-CH-1304  
2"-CH-1305

## REACTOR COOLANT

10"-RCS-1306  
4"-RC-1301  
4"-RC-1302  
4"-RC-1303

## REACTOR COOLANT

4"-RC-1304  
4"-RC-1305  
4"-RC-1306  
3"-RC-1301

## REACTOR COOLANT

3"-RC-1302      2"-RC-1304  
3"-RC-1303      2"-RC-1305  
2"-RC-1301      2"-RC-1307  
2"-RC-1302

## CLASS II

### MAIN STEAM

26"-MSB-2302  
26"-MSB-2305  
6"-MSB-2302

### FEEDWATER

18"-FWA-2301  
18"-FWB-2302  
18"-FWC-2303  
14"-FWA-2301  
14"-FWB-2302  
14"-FWC-2303

### SAFETY INJECTION

16"-SI-2301  
10"-SI-2306  
8"-SI-2302  
8"-SI-2309  
6"-SI-2303

### CONTAINMENT SPRAY

6"-CS-2301

### BLOWDOWN

6"-BDA-2301  
6"-BDA-2304

### RESIDUAL HEAT REMOVAL

14"-RHR-2301  
12"-RHR-2301  
12"-RHR-2302  
10"-RHR-2303

### AUXILIARY FEEDWATER

6"-AFW-2301

## 11. Abstract of Conditions Noted.

## CLASS 1

## ZONE 1 REACTOR VESSEL

Westinghouse performed remote visual examinations (B-N-1), interior of the reactor vessel. These examinations included those areas made accessible for examination by the removal of components during the normal refueling outage. During the upper internals examination a recordable condition was noted. A split pin was detected penetrating a flow hole at approx. 85 degrees on the upper core plate. The bolt head was removed .

The closure head mating surface was also examined by direct visual. Conditions noted were galling, light pitting and scratches. In addition a recordable indication was noted between stud hole 38 and stud hole 41 on the mating surface between the o-ring channel. This condition was repaired by grinding of the outside edge. Evaluation of this condition concluded that the presence of the indentation will not affect the function of the o-ring, and the repair meets the manufacturer's acceptance standards.

## ZONE 4 STEAM GENERATOR 3E210B

The tube sheet to channel head weld was examined ultrasonically and geometric indications were noted due to the tube sheet radius.

On the secondary side of the generator five welds were examined and the main steam and feedwater nozzle to shell weld and inner radius sections. Geometric reflector were noted during the ultrasonic examination caused by beam redirection, tubesheet configuration and insulation support lugs.

## ZONE 7 REACTOR COOLANT LOOP A

One 2" branch connection weld was examined by visual and liquid penetrant methods. Grinding marks were noted on the visual examination.

## ZONE 10 REACTOR COOLANT LOOP B

Two welds were examined by visual, liquid penetrant and ultrasonic examination methods. One round indication was noted by liquid penetrant method and determined to be acceptable.

**ZONE 11 REACTOR COOLANT LOOP B**

Two welds were examined by visual, liquid penetrant and ultrasonic method. One geometric reflector was noted by UT.

**ZONE 12 REACTOR COOLANT LOOP B**

Three welds were examined by visual, liquid penetrant and ultrasonic methods. The liquid penetrant method noted grinding marks and one round indication determined to be acceptable. The visual examination denoted grinding marks. One geometric reflector caused by the weld root was noted.

**ZONE 16 PRESSURIZER SURGE LINE**

Two welds were examined by visual, liquid penetrant and ultrasonic examination methods. One geometric reflector was denoted during the ultrasonic examination caused by the root. Conditions were noted during the visual examinations on supports that required corrective action. NCR 85-020 was generated to address this condition.

**ZONE 17 PRESSURIZER SAFETY LOOP A**

One weld was examined by visual, liquid penetrant and ultrasonic examination method. Grinding marks were denoted during the visual examination.

**ZONE 18 PRESSURIZER SAFETY LOOP B**

One weld was examined by the visual, liquid penetrant and ultrasonic examination method. Grinding marks were denoted by the visual method.

**ZONE 19 PRESSURIZER SAFETY LOOP C**

One weld was examined by visual, liquid penetrant and ultrasonic examination methods. Grinding marks was noted during the visual exam and one geometric reflector was noted by the UT exam caused by the ID.

**ZONE 20 PRESSURIZER SPRAY**

Seven welds were examined by visual, liquid penetrant and ultrasonic examination methods. The visual examination denoted grinding marks. The liquid penetrant examination denoted ten indications, all determined to be acceptable. PC/M 81-146, (Prz. Spray Line Modification) was worked during this outage. This change required the relocation of valves and the addition of new welds. All new welds were given a baseline examination consisting of liquid penetrant and ultrasonic examinations.

**ZONE 21 PRESSURIZER SPRAY LINE**

Eight welds were examined by visual, liquid penetrant and ultrasonic examination methods. The visual examinations denoted grinding marks, heavy rust on bolting, corrosion and missing bolts. Four indications were noted by liquid penetrant method all determined to be acceptable. See comments on PC/M 81-146, this zone part of plant change/modification.

**ZONE 22 PRESSURIZER RELIEF LINE**

One weld was examined by visual, liquid penetrant and ultrasonic examination methods. The visual examination denoted grinding marks.

**ZONE 23 RTD RETURN LINE LOOP A**

Five welds were examined by visual and liquid penetrant examination methods. The visual examinations denoted grinding marks and the liquid penetrant examinations denoted non revelant indications determined to be caused by the grinding marks. In addition (2) two arc strikes were noted and (1) one linear indication, which was rejected. NCR 85-019 was issued.

**ZONE 24 RTD LINE LOOP B**

Three welds were examined by visual and liquid penetrant methods. Conditions noted during the visual examination were grinding marks, weld spatter and boric acid residue. (1) one liquid penetrant exam revealed non-revelant indications. NCR -85-024 was issued.

**ZONE 25 RTD LINE LOOP C**

Four welds were examined by visual and liquid penetrant examination methods. The visual examinations denoted grinding marks.

**ZONE 26 RC DRAIN LINE LOOP A**

One weld was examined by visual and liquid penetrant examination method. The liquid penetrant examination method denoted one round indication determined to be acceptable.

**ZONE 29 RTD LINE LOOP A**

Four welds were examined by visual and liquid penetrant examination methods. One arc strike was denoted during the visual examination.

**ZONE 36 RESIDUAL HEAT REMOVAL LINE LOOP C**

One weld and two valves were examined. The ultrasonic examination denoted three geometric indications caused by the weld root and counterbore. During the liquid penetrant examination eight indications were noted and rejected. NCR-85-021 was issued.

**ZONE 37 RESIDUAL HEAT REMOVAL LINE LOOP A.**

Four welds and two valves were examined. The visual exams denoted grinding marks. The ultrasonic exams denoted geometric indication caused by the root. Twelve indications were noted during the penetrant exams. Six rounded indication were accepted and five linear were rejected. NCR 329-85 was issued.

**ZONE 38 SI/RHR LOOP B**

Three valves were examined by the visual method. NCR-85-018 was issued against valve 3-876-D. In addition NCR-284-85 and NCR-331-85 was issued by the plant.

**ZONE 39 SI/RHR LOOP C**

One valve was examined by the visual method. Conditions noted were boric acid residue and inadequate thread engagement. NCR-331-85 was issued by the plant.

**ZONE 40 BORON INJECTION LINE LOOP A**

Four welds were examined by the visual and liquid penetrant examination method. NO REPORTABLE INDICATIONS WERE NOTED.

**ZONE 43 HIGH HEAD SAFETY INJECTION LINE**

Fourteen welds were examined by visual and liquid penetrant examination method. One gouge was noted during the visual examination. The penetrant examination denoted several non-revelant conditions and one (1) weld was rejected. NCR-85-009 was issued.

**ZONE 48 LETDOWN LINE**

Five welds were examined by visual and liquid penetrant examination methods. Several non-revelant conditions were noted and one (1) arc strike was noted.



**ZONE 50 CVCS LOOP A**

Three welds were examined by visual and liquid penetrant examination methods. no reportable indications were noted.

**ZONE 51 CVCS LOOP C**

Four welds were examined by visual and liquid penetrant examination method. Two visual examinations denoted weld spatter, and one (1) penetrant examination revealed a linear indication which was rejected. NCR-85-007 was issued.

**ZONE 52 CVCS LOOP B**

Four welds were examined by visual and liquid penetrant examination methods. Two (2) welds were rejected due to a linear indication. NCR 85-004 and 85-005 was issued.

**CLASS II****ZONE 63 RESIDUAL HEAT REMOVAL LOOP A**

Nineteen welds were examined by liquid penetrant method. Twenty-nine indications were noted. Two linear indications were rejected.

**ZONE 68 RESIDUAL HEAT REMOVAL**

Four welds and two valves were examined by visual and liquid penetrant method. Six linear indication were noted and three were rejected. NCR 85-003 was issued.

**ZONE 69 RESIDUAL HEAT REMOVAL**

Ten welds were examined by liquid penetrant method. One rounded and three linear indications were noted. Two was rejected. NCR-85-006 was issued.

**ZONE 72 RESIDUAL HEAT REMOVAL LOOP A DISCHARGE**

Two welds were examined by liquid penetrant method. Weld 1 was rejected. NCR-85-008 was issued.





**ZONE 77 SAFETY INJECTION FROM RWST**

Seven welds were examined by the liquid penetrant method. no reportable indications were noted.

**ZONE 82 SAFETY INJECTION**

One weld was liquid penetrant examined. One linear indication was noted and determined to be acceptable.

**ZONE 84 SAFETY INJECTION SYSTEM**

Two welds were examined by ultrasonic and liquid penetrant methods. One geometric reflector was noted due to configuration.

**ZONE 88 SAFETY INJECTION TO PUMPS A&B**

Four welds were examined by liquid penetrant method. No Reportable Indications Were Noted.

**ZONE 89 LOW HEAD SAFETY INJECTION**

Five welds were examined by ultrasonic and liquid penetrant method. Two rounded and three linear indication were noted, all determined to be acceptable.

**ZONE 93 CONTAINMENT SPRAY**

One weld was examined by liquid penetrant method. No Reportable Indications Were Noted.

**ZONE 98 MAIN STEAM LOOP B**

Twelve welds were examined by magnetic particle and ultrasonic methods. Three indication were denoted by ut caused by beam redirection. NCR-85-022 and NCR-328-85 was issued.

**ZONE 103 STAEM GENERATOR BLOWDOWN LOOP A**

Fifteen welds were examined by magnetic particle and ultrasonic methods. Three linear indications (MT) were noted, all acceptable. Three geometric indications (UT) caused by root geometry.

**ZONE 109 MAIN FEEDWATER LOOP A**

Nine welds were examined by ultrasonic examination method. No Reportable Indication Noted.

**ZONE 112 AUXILIARY FEEDWATER LOOP A**

Six welds were examined by magnetic particle method. No Reportable Indication Noted.

**SNUBBER EXAMINATIONS AND TESTS**

The visual examinations and functional testing during the 1985 PTP refueling outage was conducted by Paul Monroe. All conditions noted that exceeded the examination or test criteria were submitted to FPL engineering for evaluation and disposition. Those areas that were considered to be unacceptable for continued service and requiring corrective action were corrected in accordance with approved plant procedures prior to the plants return to service. The results of these examinations and tests are included in the Paul Monroe final report which is on file in PTP plant document control.

**CLASS I SYSTEM LEAKAGE TESTS**

The system leakage tests and visual (VT-2) examinations of all class I systems prior to plant startup was performed by the FPL backfit during reactor coolant overpressure. The results of these examinations are on file at the site.

**12. Abstract of Corrective Measures Recommended and Taken**

The results of manual UT examinations were recorded on the applicable indication report sheets as specified in the appropriate NDE procedure. The information documented on these forms describes the parameters associated with those indications which were greater than the recording levels specified in the applicable NDE procedures.

When required, the location and nature of reflectors were determined by analyzing the indications parameters recorded on the forms described above. The analysis is documented on a resolution sheet, which are included as part of the data package.

Visual examinations, Magnetic Particle and Liquid Penetrant examination record sheets were used to record the results of those examinations. The equipment and/or materials used in VT, MT and PT examinations are also identified on the data sheets.

The summary table, which are included from page 1 through 54 of the report, provides information and results for the nondestructive examinations which were performed.

In the performance of the UT examinations, the data recording level was established by the applicable NDE procedure.

- a.) All indications exceeding the acceptance criteria in the applicable nondestructive examination procedure was evaluated in accordance with the acceptance criteria of Section XI.
- b.) Geometric indications were verified against the PSI records, and required no further action.
- c. Those indications exceeding the acceptance criteria of Section XI, were documented on a NCR and submitted to the plant for disposition in accordance with plant procedures.
- d.) All defective snubbers were either repaired or replaced.
- e.) All leaks identified during the system leakage test were corrected.



We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date: 10/14/85 Signed FLORIDA POWER & LIGHT CO. By [Signature]  
Owner

Certificate of Authorization no. (if applicable) N/A  
Expiration date N/A

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OHIO and employed by \_\_\_\_\_\* of NORWOOD, MASS have inspected the components described in this Owners' Data Report during the period 3-29-1985 to 7-16-1985, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 10/14/85

FACTORY MUTUAL SYSTEM

[Signature] Commissions NO. 4956 (N) (I)  
Inspector's Signature National Board, state, Province and No.

\* ARKWRIGHT BOSTON MFG'S MUTUAL INSURANCE COMPANY

## NIS-1 REPORT CONTINUED

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## SUPPLEMENTAL SHEET NIS-1

1. Owner: Florida Power & Light Co.  
9250 West Flagler  
Miami, Florida 33152
2. Plant: Turkey Point Nuclear Power Plant  
P.O. Box 029100  
Miami, Florida
3. Plant Unit : 3
4. Owner Certificate of Authorization : N/A
5. Commercial Service Date: 14 December 1972
6. National Board Number for Unit: N/A

10. REPORT NUMBER	ORGANIZATION	DESCRIPTION OF SERVICE
CIS-PTP-85-300-1	FPL	INSERVICE INSPECTION VOLUME I THROUGH VOLUME III
PNS-ET-FR-85-002	FPL	EDDY CURRENT EXAMINATION OF STEAM GENERATORS
	WESTINGHOUSE	REACTOR VESSEL VISUAL INTERNAL AND INTERIOR EXAMINATION REPORT
	PAUL MONROE	SNUBBER VISUAL EXAMINATION AND FUNCTIONAL TESTING FINAL REPORT

FORM NIS-BB OWNERS' DATA REPORT FOR EDDY CURRENT EXAMINATION RESULTS  
As required by the provisions of the ASME CODE RULES

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EDDY CURRENT EXAMINATION RESULTS

PLANT: TURKEY POINT UNIT NO. 3

EXAMINATION DATES: 28 MAY 1985 THRU 1 JUNE 1985

STEAM GENERATOR NUMBER	TOTAL TUBES INSPECTED	TOTAL INDICATIONS > OR = TO 20% TO 39%	TOTAL INDICATION > OR = TO 40% TO 100%	TOTAL TUBE PLUGGED AS PREVENTIVE MAINT	TOTAL TUBES PLUGGED
3E210A	276	NONE	NONE	NONE	NONE
3E210B	420	9	1	3	4
3E210C	199	4	NONE	NONE	NONE

LOCATION OF INDICATIONS

STEAM GENERATOR	AVB BARS	DRILLED SUPPORT 1 THROUGH 6		TOP OF TUBE SHEET TO 1 DRILLED SUPPORT	
		HOT LEG	COLD LEG	HOT LEG	COLD LEG
3E210A	NONE	NONE	NONE	NONE	NONE
3E210B	NONE	4	NONE	4	1
3E210C	1	2	1	NONE	NONE

CERTIFICATION OF RECORD

We certify that the statements in this record are correct and the tubes inspected were tested in accordance with the requirements of Section XI of the ASME Code.

FLORIDA POWER & LIGHT COMPANY  
( Organization )

DATE 10/14/85

BY JEM





**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

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2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PC/M 80-119  
 (Repair Organization PO.No,Job No,etc)

3. Work performed by Bechtel Power Corp.  
 15740 Shady Grove Road  
 Gathersburg, Ma 20760

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Charging Pump System

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Recirc line Pump A	NA	NA	NA	NA	1985	Replace- ment	NO
Pump B	NA	NA	NA	NA	1985	"	NO
Pump C	NA	NA	NA	NA	1985	"	NO

7. Description of Work: Installed 2" recirculation line with valves on  
 charging pumps A,B & C discharge lines

8. Test Conducted: Hydrostatic|X| Pneumatic| | Normal Operating Pressure| |

Other | | Pressure: 3008 psig Test Temp: 75 deg. F

## FORM NIS-2

9. Remarks: Inprocess NDE and VT-2 performed by Construction Quality Control

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. E. Moulton Sec. Sup. NRC Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Dade County, FL and employed by \*\* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. E. Boyer Commission Number: 4956 (N) (I)  
Inspector's Signature (National Board, State, Province and Endorsements)  
Date 10/14 19 85

\*\*Arkwright Boston Mfg's Mutual Insurance Company



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

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Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985  
 Sheet 17 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3  
 NCR-584-84  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Bechtel Power Corp.  
 15740 Shady Grove Road  
 Gathersburg, Ma 20760

Type Code Symbol Stamp: NA  
 Authorization No.: NA  
 Expiration Date: NA

4. Identification of System: Steam Generator 'A', 'B' & 'C' Blowdown Line

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Support	NA	NA	NA	H-320-08	NA	Repaired	NA
Support	NA	NA	NA	H-320-09	NA	Repaired	NA
Support	NA	NA	NA	H-321-01	NA	Repaired	NA
Support	NA	NA	NA	H-322-02	NA	Repaired	NA
Support	NA	NA	NA	H-322-05	NA	Repaired	NA
Support	NA	NA	NA	H-322-09	NA	Repaired	NA

7. Description of Work: Reseating and retorquing of existing concrete  
 expansion anchors that failed on the support

8. Test Conducted: Hydrostatic | | Pneumatic | | Normal Operating Pressure | |

Other |X| Pressure:            psig Test Temp:            F



## FORM NIS-2

9. Remarks: As left final VT-3 performed by Construction Quality Control  
(Stone & Webster)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed AE Monahan, Sec Sup - MCI Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Dade County, FL and employed by \*\* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

DE Boyer Commission Number: 4956 (N) (I)  
Inspector's Signature (National Board, State, Province and Endorsements)

Date 10/14 19 85

\*\*Arkwright Boston Mfg's Mutual Insurance Company

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

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2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Component Cooling Water (CCW)

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	11993	NA	3-1096	1983	Replace- ment	NA
Mechanical Snubber	PSCo.	18067	NA	3-1097	1983	Replace- ment	NA
Mechanical Snubber	PSCo.	33628	NA	3-1098	1983	Replace- ment	NA

7. Description of Work: Replaced snubbers that failed functional test  
 criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F

## FORM NIS-2

Remarks: Snubbers were functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J E Moulton, Sec. Insp - MC Date 10/14, 19 85  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE CTY. and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/14/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D E Boyer  
Inspector's Signature

Commissions: 4956 (N) (I)

National Board, State, Province and  
Endorsements

Date 10/14 19 85





**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

Sheet 21 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3  
 PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: RTD Crossover Loop 'A' Hot Leg

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case  
 (b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	29180	NA	3-1088	1983	Replacement	NA

7. Description of Work: Replaced snubbers that failed functional test criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F



## FORM NIS-2

9. Remarks: Snubber was functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. M. Moran Sec. Insp. - MCI Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. E. Boyer Commissions 4956 (N) (T)  
Inspector's Signature National Board, State, Province and Endorsements  
Date 10/14 1985



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

Sheet 23 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Main Steam Line, Steam Generator 'C'

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	3164	NA	3-1084	1978	Replace- ment	NA

7. Description of Work: Replaced snubbers that failed functional test  
 criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F



## FORM NIS-2

Remarks: Snubber was functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI. (repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. Moulton, Inc. Sup. MCI Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. Boyer Commissions 4956 (N) (I)  
Inspector's Signature National Board, State, Province and Endorsements

Date 10/14 19 85





**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

Sheet 25 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Chemical and Volume Control (CVCS)

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case  
 (b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	18074	NA	3-1075	1983	Replacement	NA
Mechanical Snubber	PSCo.	19725	NA	3-1076	1981	Replacement	NA
Mechanical Snubber	PSCo.	18326	NA	3-1122	1983	Replacement	NA

7. Description of Work: Replaced snubbers that failed functional test criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F



## FORM NIS-2.

9. Remarks: Snubbers were functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed DE Morla, Sec. Sup - MCI Date 10/11, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

DE Boyer Commissions 4956 (N) (I)  
Inspector's Signature National Board, State, Province and Endorsements

Date 10/14 19 85



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

Sheet 27 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Pressurizer Relief Line

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case  
 (b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	116	NA	3-1047	NA	Replace- ment	NA
Mechanical Snubber	PSCo.	111	NA	3-1049	NA	Replace- ment	NA

7. Description of Work: Replaced snubbers that failed functional test criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐  
 Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F

## FORM NIS-2

9. Remarks: Snubbers were functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed E. Morlon, Sec. Insp - MC1 Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. P. Roger Commissions 4956 (N) (I)  
Inspector's Signature National Board, State, Province and Endorsements

Date 10/14 19 85

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

Owner: Florida Power & Light  
Address: P.O. Box 529100  
Miami, Florida 33152

Date: 5 September 1985

Sheet 29 of 36

2. Plant: Turkey Point  
Address: P.O. Box 3088  
Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
(Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
1701 West Sequoia Ave.  
Orange, Ca. 92668

Type Code Symbol Stamp: NA  
Authorization No.: NA

Expiration Date: NA

4. Identification of System: Feedwater Steam Generator 'C'

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	12365	NA	3-1042	1982	Replace- ment	NA

7. Description of Work: Replaced snubbers that failed functional test  
criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F



## FORM NIS-2

Remarks: Snubber was functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI. (repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. E. Moulton Sec. Insp. - MC 1 Date 10/14, 19 85  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. E. Boyer  
Inspector's Signature

Commissions 1956 (N) (I)  
National Board, State, Province and  
Endorsements

Date 10/14 19 85

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985  
 Sheet 31 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PO No. B-60714-37021P  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Paul-Munroe Hydraulics  
 1701 West Sequoia Ave.  
 Orange, Ca. 92668

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Residual Heat Removal / Safety Injection

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Snubber	PSCo.	2889	NA	3-1019	1977	Replacement	NA
Mechanical Snubber	PSCo.	23273	NA	3-1023	1983	Replacement	NA
Mechanical Snubber	PSCo.	3935	NA	3-1027	1978	Replacement	NA
Mechanical Snubber	PSCo.	2785	NA	3-1111	1977	Replacement	NA

7. Description of Work: Replaced snubbers that failed functional test criteria

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ F

## FORM NIS-2

Remarks: Snubbers were functionally tested in April 1984. Prior to installation a limited operability test (VT-4) was performed. After installation, an as left visual examination (VT-3) was performed.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed DE Monba, Sec. Insp - MC1 Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of DADE COUNTY and employed by \*\* of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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DE Boyer Commissions 4956 (N) (I)  
Inspector's Signature National Board, State, Province and Endorsements

Date 10/14 19 85

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

Owner: Florida Power & Light  
 Address: P.O. Box 529100  
 Miami, Florida 33152

Date: 5 September 1985

Sheet 33 of 36

2. Plant: Turkey Point  
 Address: P.O. Box 3088  
 Florida City, 33034

Unit: 3

PC/M 81-146  
 (Repair Organization PO.No, Job No, etc)

3. Work performed by Bechtel Power Corp.  
 15740 Shady Grove Road  
 Gathersburg, Ma 20760

Type Code Symbol Stamp: NA  
 Authorization No.: NA

Expiration Date: NA

4. Identification of System: Pressurizer Spray Line

5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
 NA Code Case

(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
 1980 Edition, Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement  
 Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re-placement	ASME Code Stamped (Yes or No)
Gate Valve	Anchor/Darling	E1599-1-1	NA	3-572	NA	Replacement	No
Gate Valve	Anchor/Darling	E1599-1-2	NA	3-573	NA	Replacement	No
Valve Body	Copes Vulcan	22159	NA	PCV-3-455A	1984	Replacement	No
Valve Body	Copes Vulcan	22160	NA	PCV-3-455B	1984	Replacement	No

7. Description of Work: Relocated valves PCV-3-455A and PCV-3-455B to the 14' elevation, added new valves 3-572 and 3-573

8. Test Conducted: Hydrostatic|X| Pneumatic| | Normal Operating Pressure| |

Other | | Pressure: 2335 psig Test Temp: 547 deg. F

ZONE 029  
SYSTEM RTD LOOP A  
ISO NO. CIS-A-25

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23, 1985  
PAGE 17

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	OTHER	
000410	2"-RC-1304-40	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000430	2"-RC-1304-42	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000421	2"-RC-1304-41	PIPE TO ELBOW	PT	3.3	N/A	X		NONE	100% OF THE WELD
000411	2"-RC-1304-40	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000431	2"-RC-1304-42	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000441	2"-RC-1304-43	PIPE TO REDUCER	PT	3.3	N/A	X		NONE	100% OF WELD
000440	2"-RC-1304-43	PIPE TO REDUCER	VT-1	4.1	N/A			NONE	100% OF WELD
000420	2"-RC-1304-41	PIPE TO ELBOW	VT-1	4.1	N/A	X		4.1-57	ARC STRIKE
								NONE	PER TECH SPECS

ZONE 036  
SYSTEM RHR LOOP C  
ISO NO. CIS-A-35

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 18

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000070	MOV-3-750	VALVE INTERNAL SURFACE	VT-3	4.3	N/A	X			NONE GATE VALVE
000041	14"-RHR-1301-4	PIPE TO ELBOW	PT	3.3	N/A			X	3.3-44 5 LINEAR, 3 ROUNDED
000042	14"-RHR-1301-4	PIPE TO ELBOW	UT	5.4	UT-30			X	5.4-4 EXAMINE 1t EACH SID
000040	14"-RHR-1301-4	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000080	VALVE MOV-3-750	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-13 RUST, FLATENED HEAD
000150	VALVE MOV-3-751	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-13 RUST, FLATTENED HEA



ZONE 037  
SYSTEM RHR LOOP A  
ISO NO. CIS-A-36

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 19

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000250	10"-SI-1301-20	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000041	10"-SI-1301-2	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-70 NON REVELANT
000040	10"-SI-1301-2	PIPE TO ELBOW	VT-1	4.1	N/A			X	4.1-22 GRIND MKS, ARC STRI
000180	VALVE 3-875A	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-21 RUST, INADEQUATE T.E
000262	10"-SI-1301-21	PIPE TO NOZZLE	UT	5.4	UT-27		X		5.4-7
000252	10"-SI-1301-20	ELBOW TO PIPE	UT	5.4	UT-27		X		5.4-7
000251	10"-SI-1301-20	ELBOW TO PIPE	PT	3.3	N/A			X	3.3-93 1 ROUND ACCEPTABLE
000261	10"-SI-1301-21	PIPE TO NOZZLE	PT	3.3	N/A			X	3.3-94 5 ROUND, 6 LINEAR
000151	10"-SI-1301-22	2" BRANCH CONN	PT	3.3	N/A	X			NONE 100% OF WELD
000260	10"-SI-1301-21	PIPE TO NOZZLE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000150	10"-SI-1301-22	2" BRANCH CONN	VT-1	4.1	N/A		X		4.1-20 GRINDING MARKS
000180	3-875A	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-21 INPLACE EXAMINATION
000042	10"-SI-1301-2	PIPE TO ELBOW	UT	5.4	UT-27		X		5.4-7
000030	3-875D	VALVE BOLTING (INPLACE)	VT-1	4.1	N/A			X	4.1-21 RUST, INADEQ. THREAD





ZONE 038  
SYSTEM SI/RHR LOOP B  
ISO NO. CIS-A-37

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000230	VALVE 3-876B	VALVE BOLTING	VT-1	4.1	N/A	X		NONE	
000210	VALVE 3-875E	VALVE BOLTING	VT-1	4.1	N/A		X	4.1-44 BORIC ACID,ITE	
000290	3-876-D	VALVE BOLTING	VT-1	4.1	N/A		X	4.1-25 NCR-284-85	

ZONE C-5  
SYSTEM CCW  
ISO NO. CIS-C-5

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000451	3-SR-342-A & B	DOUBLE SPRING CAN	VT-3/4	4.3	N/A		X		4.3-17
000448	3-ARH-108	RIGID PIPE HANGER	VT-3	4.3	N/A		X		4.3-4



ZONE C27  
SYSTEM CCW  
ISO NO. CIS-C-27

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000439	3-ARH-111 (SR-307)	DOUBLE SPRING CAN HANGER	VT-3/4	4.3	N/A	X 4.3-10	3-ARH 10A/10B

ZONE 039  
SYSTEM SI/RHR LOOP C  
ISO NO. CIS-A-38

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000180	3-875F	VALVE BOLTING	VT-1	4.1	N/A	X	4.1-42 BORIC ACID,ITE

ZONE 040  
SYSTEM BORON INJ LOOP A  
ISO NO. CIS-A-39

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000030	2"-SI-1301-3	PIPE TO ELBOW	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000021	2"-SI-1301-2	PIPE TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000020	2"-SI-1301-2	PIPE TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000041	2"-SI-1301-4	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000031	2"-SI-1301-3	PIPE TO ELBOW	PT	3.3	N/A	X		NONE	100% OF WELD
000011	2"-SI-1301-1	NOZZLE TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000010	2"-SI-1301-1	NOZZLE TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000040	2"-SI-1301-4	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS





ZONE 043  
SYSTEM HHSI  
ISO NO. CIS-A-42

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000341	2"-SI-1305-27	PIPE TO VALVE 3-874A	PT	3.3	N/A		X		3.3-42 NON REVELANT
000311	2"-SI-1305-24	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000350	2"-SI-1305-28	VALVE 3-874A TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000321	2"-SI-1305-25	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-41 NON REVELANT
000131	2"-SI-1305-6	PIPE TO ELBOW	PT	3.3	N/A		X		3-132 NON REVELANT ACCEPT
000310	2"-SI-1305-24	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000281	2"-SI-1305-21	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000320	2"-SI-1305-25	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000291	2"-SI-1305-22	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000300	2"-SI-1305-23	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000280	2"-SI-1305-21	PIPE TO ELBOW	VT-1	4.1	N/A			X	4.1-60 GOUGE
000161	2"-SI-1305-9	ELBOW TO PIPE	PT	3.3	N/A		X		33-121 NON REVELANT ACCEPT
000110	2"-SI-1305-4	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000120	2"-SI-1305-5	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000121	2"-SI-1305-5	ELBOW TO PIPE	PT	3.3	N/A		X		33-122 NON REVELANT ACCEPT
000130	2"-SI-1305-6	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000301	2"-SI-1305-23	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000340	2"-SI-1305-27	PIPE TO VALVE 3-874A	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000141	2"-SI-1305-7	ELBOW TO PIPE	PT	3.3	N/A		X		3-133 NON REVELANT ACCEPT
000290	2"-SI-1305-22	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000361	2"-SI-1305-29	PIPE TO BRANCH CONN	PT	3.3	N/A	X			3.3-43 NON REVELANT
000151	2"-SI-1305-8	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000160	2"-SI-1305-9	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000140	2"-SI-1305-7	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000360	2"-SI-1305-29	PIPE TO BRANCH CONN	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000150	2"-SI-1305-8	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000351	2"-SI-1305-28	VALVE 3-874A TO PIPE	PT	3.3	N/A			X	3.3-38 NON REVELANT REJECT

ZONE 048  
SYSTEM LEADOWN LINE  
ISO NO. CIS-A-47

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	OTHER	
000041	2"-CH-1301-4	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-51 NON REVELANT
000060	2"-CH-1301-6	PIPE TO VALVE 3-309D	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000070	2"-CH-1301-7	VALVE 3-309D TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000050	2"-CH-1301-5	ELBOW TO PIPE	VT-1	4.1	N/A			X	4.1-18 ARC STRIKE
000051	2"-CH-1301-5	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-52 NON REVELANT
000031	2"-CH-1301-3	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-50 NON REVELANT
000040	2"-CH-1301-4	PIPE TO ELBOW	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000030	2"-CH-1301-3	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000061	2"-CH-1301-6	PIPE TO VALVE 3-309D	PT	3.3	N/A		X		3.3-53 NON REVELANT
000071	2"-CH-1301-7	VALVE 3-309D TO PIPE	PT	3.3	N/A		X		3.3-54 NON REVELANT



ZONE 050  
SYSTEM CVCS LOOP A  
ISO NO. CIS-A-49

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000050	2"-CH-1303-3.	PIPE TO FLANGE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000051	2"-CH-1303-3	PIPE TO FLANGE	PT	3.3	N/A	X		NONE	100% OF WELD
000031	2"-CH-1303-1	REDUCER TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000040	2"-CH-1303-2	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000030	2"-CH-1303-1	REDUCER TO ELBOW	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000041	2"-CH-1303-2	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD

ZONE 001  
SYSTEM CVCS LOOP C  
ISO NO. CIS-A-50

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000041	2"-CH-1304-2	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000040	2"-CH-1304-2	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000061	2"-CH-1304-4	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000060	2"-CH-1304-4	ELBOW TO PIPE	VT-1	4.1	N/A	X			NONE PER TECH SPECS
000051	2"-CH-1304-3	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-31 1 LINEAR IND. REJ.
000050	2"-CH-1304-3	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-10 WELD SPATTER
000071	2"-CH-1304-5	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000070	2"-CH-1304-5	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-4 WELD SPATTER

ZONE 052  
SYSTEM CVCS LOOP B  
ISO NO. CIS-A-51

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000040	2"-CH-1305-2	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000050	2"-CH-1305-3	PIPE TO ELBOW	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000061	2"-CH-1305-4	ELBOW TO PIPE	PT	3.3	N/A			X 3.3-16	1 LINEAR IND REJ.
000051	2"-CH-1305-3	PIPE TO ELBOW	PT	3.3	N/A			X 3.3-15	1 LINEAR REJECT
000041	2"-CH-1305-2	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF WELD
000031	2"-CH-1305-1	REDUCER TO ELBOW	PT	3.3	N/A	X		NONE	100% OF WELD
000030	2"-CH-1305-1	REDUCER TO ELBOW	VT-1	4.1	N/A	X		NONE	PER TECH SPECS
000060	2"-CH-1305-4	ELBOW TO PIPE	VT-1	4.1	N/A	X		NONE	PER TECH SPECS

ZONE 061  
SYSTEM SIM. GEN. B  
ISO NO. CIS-V-9

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CLASS 2

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN GEO	OTHER	
000070	3-SGB-P	UPPER SHELL TO HEAD	UT	5.1	UT-7	X			NONE
000050	3-SGB-FW	FW NOZZLE TO SHELL	MT	2.2	N/A	X			NONE LIM- SUPPORT RING
000051	3-SGB-FW	FW NOZZLE TO SHELL	UT	5.1	UT-7	X			NONE
000081	3-SGB-ST	SIM. NOZZLE TO HEAD	UT	5.1	UT-7	X			NONE
000080	3-SGB-ST	SIM. NOZZLE TO HEAD	MT	2.2	N/A	X			NONE LIM- SUPPORT RING
000090	3-SGB-MS-IRS	SIM. NOZZLE INNER RADIUS	UT	5.13	UT-6	X			
000060	3-SGB-FW-IRS	FW NOZZLE INNER RADIUS	UT	5.13	UT-6	X			
000030	3-SGB-G	LOWER SHELL TO TRANSITION	UT	5.1	UT-13		X		5.1-17
000040	3-SGB-CL	TRAN TO UPPER SHELL WELD	UT	5.1	UT-7	X			NONE
000020	3-SGB-N	RING TO LOWER SHELL	UT	5.1	UT-13		X		5.1-8
000010	3-SGB-Y	TUBE SHEET TO RING WELD	UT	5.1	UT-13		X		5.1-8

ZONE 063  
SYSTEM RHR LOOP A  
ISO NO. CIS-B-1

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000060	14"-RHR-2301-6	ELBOW TO PIPE	PT	3.3	N/A			X	3.3-71 8 LINEAR ACCEPTABLE
000022	14"-RHR-2301-2B	ELBOW-LONG SEAM INSIDE RADIUS	PT	3.3	N/A	X			3.3-75 100% IAW SRP 6.6
000030	14"-RHR-2301-3	PIPE TO ELBOW	PT	3.3	N/A	X			3.3-64 NON REVELANT LINEAR
000032	14"-RHR-2301-3B	ELBOW-LONG SEAM INSIDE RADIUS	PT	3.3	N/A	X			3.3-77 100% IAW SRP 6.6
000050	14"-RHR-2301-5	PIPE TO ELBOW	PT	3.3	N/A	X			3.3-86 NON REVELANT LINEAR
000021	14"-RHR-2301-2A	ELBOW-LONG SEAM OUTSIDE RADIUS	PT	3.3	N/A		X		3.3-76 1 ROUND ACCEPT
000031	14"-RHR-2301-3A	ELBOW-LONG SEAM OUTSIDE RADIUS	PT	3.3	N/A	X			3.3-78 100% IAW SRP 6.6
000044	14"-RHR-2301-4B-us	ELBOW - LONG SEAM INSIDE	PT	3.3	N/A			X	3.3-80 1 ROUND ACCEPT
000012	14"-RHR-2301-1B	ELBOW -LONG SEAM INSIDE RADIUS	PT	3.3	N/A	X			3.3-73 100% IAW SRP 6.6
000020	14"-RHR-2301-2	ELBOW TO PIPE	PT	3.3	N/A	X			3.3-65 NON REVELANT
000043	14"-RHR-2301-4A-us	ELBOW - LONG SEAM OUTSIDE	PT	3.3	N/A	X			3.3-79 100% OF LONG SEAM
000011	14"-RHR-2301-1A	ELBOW-LONG SEAM OUTSIDE RADIUS	PT	3.3	N/A		X		3.3-74 1 ROUND ACCEPT
000041	14"-RHR-2301-4A-ds	ELBOW - LONG SEAM OUTSIDE	PT	3.3	N/A		X		3.3-82 1 ROUND ACCEPT
000042	14"-RHR-2301-4B-ds	ELBOW - LONG SEAM INSIDE	PT	3.3	N/A	X			3.3-81 100% OF LONG SEAM
000040	14"-RHR-2301-4	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-63 3 ROUND ACCEPT
000080	14"-RHR-2301-8	ELBOW TO PENETRATION #1	PT	3.3	N/A	X			3.3-67 NON REVELANT
000010	14"-RHR-2301-1	VALVE 3-751 TO ELBOW	PT	3.3	N/A		X		3.3-72 6 LINEAR, 1 ROUND
000070	14"-RHR-2301-7	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-66 3 ROUND, 2 LINEAR
000052	14"-RHR-2301-5B	ELBOW - LONG SEAM INSIDE	PT	3.3	N/A	X			3.3-85 100% OF LONG SEAM



ZON 008  
SYSTEM RHR  
ISO NO. CIS-B-3

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH.	PROC NO	CAL BLK	INDICATIONS		REMARKS
						NRI	IN GEO OTHER	
000101	RCV-3-605	VALVE	VT-1	4.1	N/A	X		NONE AUGMENTED EXAM
000160	HVC-3-750	VALVE BOLTING	VT-1	4.1	N/A		X	4.1-16 AUGMENTED EXAM
000110	12"-RHR-2301-11	FLANGE TO PIPE	PT	3.3	N/A	X		NONE
000010	12"-RHR-2301-1	REDUCER TO TEE	PT	3.3	N/A		X	3.3-12 2 LINEAR ACCEPTED
000020	12"-RHR-2301-2	TEE TO REDUCER	PT	3.3	N/A		X	3.3-11 1 LINEAR ACCEPTED
000100	12"-RHR-2301-10	ELBOW TO FLANGE RCV-3-605	PT	3.3	N/A		X	3.3-10 3 LINEAR REJECTED.



20 89  
SYSTEM RHR  
ISO NO. CIS-B-4

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000120	12"-RHR-2302-22	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-48 NON REVELANT
000040	12"-RHR-2302-4	TEE TO PIPE	PT	3.3	N/A	X			NONE
000010	12"-RHR-2302-1	REDUCER TO PIPE	PT	3.3	N/A		X		33-116 NON REVELANT
000260	12"-RHR-2302-26	PIPE TO TEE	PT	3.3	N/A			X	33-100 1 ROUND, 1 LINEAR
000080	12"-RHR-2302-8	FLANGE TO PIPE	PT	3.3	N/A	X			NONE
000235	12"-RHR-2302-23A	PIPE - LONG SEAM	PT	3.3	N/A		X		33-101 100% OF LONG SEAM
000210	12"-RHR-2302-21	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-47 NON REVELANT
000240	12"-RHR-2302-24	PIPE TO ELBOW	PT	3.3	N/A	X			NONE
000230	12"-RHR-2302-23	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-49 NON REVELANT
000250	12"-RHR-2302-25	ELBOW TO PIPE	PT	3.3	N/A			X	3.3-30 2 LINEAR IND. REJ.



ZON 071  
SYSTEM RIR LOOP B  
ISO NO. CIS-B-6

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000240	3E206B	RESIDUAL HEAT EXCHANGER	VT-1	4.1	N/A	X	4.1-14 BOLTING

ZONE 072  
SYSTEM RHR LOOP A DISCHARGE  
ISO NO. CIS-B-7

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000010	10"-RHR-2303-1	NOZZLE TO PIPE	PT	3.3	N/A			X	3.3-35 3 LINEAR, 1 ROUND
000090	3E206A	RESIDUAL HEAT EXCHANGER	VT-1	4.1	N/A			X	4.1-15 BOLTING
000100	3-759A	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-17 BORIC ACID RESIDUE
000080	10"-RHR-2303-8	VALVE 3-759A TO REDUCER	PT	3.3	N/A	X			3.3-36 NON REVELANT

ZONE  
SYSTEM SIS FROM RWST  
ISO NO. CIS-B-12

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000011	16"-SI-2301-1-ds-1	ELBOW - LONG SEAM @90 degrees	PT	3.3	N/A	X		NONE	2.5t OF LONG SEAM
000021	16"-SI-2301-2-us-1	ELBOW - LONG SEAM @ 90 degrees	PT	3.3	N/A	X		NONE	2.5t OF LONG SEAM
000012	16"-SI-2301-1-ds-2	ELBOW - LONG SEAM @ 270 degree	PT	3.3	N/A	X		NONE	2.5t OF LONG SEAM
000023	16"-SI-2301-2-ds	PIPE - LONG SEAM @ 180 degrees	PT	3.3	N/A	X		NONE	2.5t OF LONG SEAM
000010	16"-SI-2301-1	FLANGE TO ELBOW	PT	3.3	N/A	X		NONE	100% OF WELD
000020	16"-SI-2301-2	ELBOW TO PIPE	PT	3.3	N/A	X		NONE	100% OF LONG SEAM
000022	16"-SI-2301-2-us-2	ELBOW - LONG SEAM @ 270 degree	PT	3.3	N/A	X		NONE	2.5t OF LONG SEAM

ZONE 2  
SYSTEM SIS  
ISO NO. CIS-B-20

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN GEO	OTHER	
000010	10"-SI-2306-1	REDUCER TO PIPE	PT	3.3	N/A	X	3.3-9	1	LINEAR ACCEPTED





ZONE  
SYSTEM SIS LOOP C  
ISO NO. CIS-B-22

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS				REMARKS
						NRI	IN	GEO	OTHER	
000011	8"-SI-2302-1	REDUCER TO PIPE	UT	5.4	UT-41				X	5.4-5
000060	8"-SI-2302-6	PIPE TO VALVE 3-876A	PT	3.3	N/A		X			3.3-46 NON REVELANT
000010	8"-SI-2302-1	REDUCER TO PIPE	PT	3.3	N/A		X			3.3-45 NON REVELANT
000061	8"-SI-2302-6	PIPE TO VALVE 3-876A	UT	5.4	UT-41	X				

ZON  
SYSTEM SIS TO PUMPS A & B  
ISO NO. CIS-B-26

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000260	6"-SI-2303-2	VALVE 3-870A TO PIPE	PT	3.3	N/A	X			NONE LIMITED 1/2" US & D
000270	6"-SI-2303-3	PIPE TO VALVE 3-870B	PT	3.3	N/A	X			NONE LIMITED 1/2" US
000433	3-SR-245	SWAY STRUT	VT-3	4.3	N/A		X		RUST HEAVY RUST
000250	6"-SI-2303-1	REDUCER TO VALVE 3-870A	PT	3.3	N/A	X			NONE LIMITED .5"DS VALVE
000280	6"-SI-2303-4	VALVE 3-870B TO REDUCER	PT	3.3	N/A	X			NONE 100% OF WELD
000432	3-PRWH-4	PIPE SUPPORT U-BOLT	VT-3	4.3	N/A		X		RUST RUST
000434	3-PRWH-3	BOXED RESTRAINT	VT-3	4.3	N/A		X		RUST RUST
000435	3-BS-1	BOXED SUPPORT	VT-3	4.3	N/A		X		RUST RUST

ZONE 39  
SYSTEM LHSI TO PEN. # 11  
ISO NO. CIS-B-27

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN GEO	OTHER	
000031	8"-SI-2309-22	PIPE TO TEE	UT	5.4	UT-41	X			
000041	8"-SI-2309-23	TEE TO ELBOW	UT	5.4	UT-41	X			
000030	8"-SI-2309-22	PIPE TO TEE	PT	3.3	N/A			X	33-123 2 ROUND, 1 ROUND
000020	8"-SI-2309-21	ELBOW TO PIPE	PT	3.3	N/A		X		33-125 NON REVELANT
000040	8"-SI-2309-23	TEE TO ELBOW	PT	3.3	N/A		X		33-124 1 LINEAR ACCEPTED
000050	8"-SI-2309-24	ELBOW TO VALVE 3-876E	PT	3.3	N/A	X			3-137 SRP 6.6 100%
000010	8"-SI-2309-20	PEN. #11 TO ELBOW	PT	3.3	N/A		X		3-138 SRP 6.6 100% WELD
000021	8"-SI-2309-21	ELBOW TO PIPE	UT	5.4	UT-41	X			



ZONE 093  
SYSTEM CMT. SPRAY "A"  
ISO NO. CIS-B-78

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000010	6"-CS-2301-1	FLANGE TO REDUCER	PT	3.3	N/A	X		NONE	



ZONE 098  
SYSTEM MAIN STEAM LOOP B  
ISO NO. CIS-B-59

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000020	26"-MSB-2302-1	REDUCER TO ELBOW	MT	2.2	N/A			X	2.2-13 5 LINEAR, 2 REJECTE
000010	26"-MSB-2302-1A	NOZZLE TO REDUCER	MT	2.2	N/A	X			NONE
000112	26"-MSB-2302-10A	PIPE - LONG SEAM OUTSIDE	MT	2.2	N/A	X			NONE 100% OF LONG SEAM
000021	26"-MSB-2302-1	REDUCER TO ELBOW	UT	5.2	UT-17	X			WRONG CAL BLOCK USE
000102	26"-MSB-2302-9A	ELBOW - LONG SEAM OUTSIDE	MT	2.2	N/A	X			NONE LIM- PIPE SUPPORT
000022	26"-MSB-2301-1-LD	ELBOW - LONG SEAM UP STREAM	UT	5.2	UT-17	X			WRONG CAL BLOCK USE
000024	26"-MSB-2301-2-LJ	ELBOW - LONG SEAM UP STREAM	UT	5.2	UT-17	X			WRONG CAL BLOCK USE
000032	26"-MSB-2302-2A	ELBOW - LONG SEAM OUTSIDE	MT	2.2	N/A	X			NONE 100% OF LONG SEAM
000120	26"-MSB-2302-11	PIPE TO PEN. 26B	MT	2.2	N/A	X			NONE





ZONE 101  
SYSTEM MAIN STEAM LOOP B  
ISO NO. CIS-B-60

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000050	26"-MSB-2305-15	PIPE TO VALVE V-2605	MT	2.2	N/A	X		NONE	SRP 6.6 100% OF WEL
000040	26"-MSB-2305-14	PIPE TO WELD-O-LET	MT	2.2	N/A	X		NONE	SRP 6.6 100% OF WEL
000051	26"-MSB-2305-15	PIPE TO VALVE V-2605	UT	5.2	UT-21	X			SRP 6.6 100% OF WEL
000200	26"-MSB-2305-15-A	PIPE-LONG SEAM @ 10 O'CLOCK	UT	5.2	UT-21		X	YES	EXAMINE 100% OF WEL
000200	26"-MSB-2305-15LU	LONG SEAM	MT	2.2	N/A	X		NONE	LIM- PIPE SUPPORT
000030	26"-MSB-2305-13	PIPE TO WELD-O-LET	MT	2.2	N/A	X		NONE	SRP 6.6 100% OF WEL
000020	26"-MSB-2305-12	PIPE TO WELD-O-LET	MT	2.2	N/A	X		NONE	SRP 6.6 100% OF WEL
000010	26"-MSB-2305-11A	PENETRATION TO PIPE	MT	2.2	N/A	X		NONE	

ZONE 103  
SYSTEM S/G BLOWDOWN LOOP A  
ISO NO. CIS-B-72

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000061	6"-BDA-2301-18	ELBOW TO PIPE	UT	5.2	UT-22	X	
000020	6"-BDA-2301-22	REDUCER TO PIPE	MT	2.2	N/A	X	NONE
000051	6"-BDA-2301-19	PIPE TO ELBOW	UT	5.2	UT-22	X	
000070	6"-BDB-2301-8	PIPE TO PIPE	MT	2.2	N/A	X	NONE
000110	6"-BDA-2301-5	VALVE SGB-3-002 TO REDUCER	MT	2.2	N/A	X	NONE
000060	6"-BDA-2301-18	ELBOW TO PIPE	MT	2.2	N/A	X	NONE
000071	6"-BDA-2301-8	TEE TO PIPE	UT	5.2	UT-22	X	
000100	6"-BDA-2301-6	ELBOW TO VALVE SGB-3-002	MT	2.2	N/A	X	NONE
000101	6"-BDA-2301-6	ELBOW TO VALVE SGB-3-002	UT	5.2	UT-22	X	5.2-5
000161	6"-BDA-2301-1	VALVE SGB-3-001 TO REDUCER	UT	5.2	UT-22	X	5.2-5
000031	6"-BDA-2301-21	PIPE TO ELBOW	UT	5.2	UT-22	X	5.2-1
000150	6"-BDA-2301-2	PIPE TO VALVE SGB-3-001	MT	2.2	N/A	X	NONE
000151	6"-BDA-2301-2	PIPE TO VALVE SGB-3-001	UT	5.2	UT-22	X	
000160	6"-BDA-2301-1	VALVE SGB-3-001 TO REDUCER	MT	2.2	N/A	X	NONE
000030	6"-BDA-2301-21	PIPE TO ELBOW	MT	2.2	N/A	X	NONE
000041	6"-BDA-2301-20	ELBOW TO PIPE	UT	5.2	N/A	X	
000040	6"-BDA-2301-20	ELBOW TO PIPE	MT	2.2	N/A	X	2.2-9 3 LINEAR ACCEPTED
000050	6"-BDA-2301-19	PIPE TO ELBOW	MT	2.2	N/A	X	NONE
000021	6"-BDA-2301-22	REDUCER TO PIPE	UT	5.2	UT-22	X	
000110	6"-BDA-2301-5	VALVE SGB-3-002 TO REDUCER	UT	5.2	UT-22	X	5.2-5



FORM NIS-2

9. Remarks: Inprocess NDE and VT-2 performed by Construction Quality Control (Stone & Webster)

Preservice NDE performed by FPL

# CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.  
(repair/replacement)

Type	Code	Symbol	Stamp	NA

Certificate of Authorization No. NA Expiration Date NA

Signed E. Morán, Sec. Sup - MCI Date 10/14, 1985  
Owner or Owner's Designee, Title

# CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Dade County, FL and employed by \*\* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/29/85 to 7/16/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

De Boyer Commission Number: 4956 (N) (I)  
Inspector's Signature (National Board, State, Province and  
Endorsements)

Date 10/14 19 85

**\*\*Arkwright Boston Mfg's Mutual Insurance Company**



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

=====

- Owner: Florida Power & Light      Date: 5 September 1985  
Address: P.O. Box 529100      Sheet 35 of 36  
Miami, Florida 33152
2. Plant: Turkey Point      Unit: 3  
Address: P.O. Box 3088  
Florida City, 33034      NCR 251-84 AND NCR 252-84  
(Repair Organization PO.No, Job No, etc)
3. Work performed by Bechtel Power Corp.  
15740 Shady Grove Road      Type Code Symbol Stamp: NA  
Gathersburg, Ma 20760      Authorization No.: NA  
Expiration Date: NA
4. Identification of System: Steam Generator Feedwater
5. (a) Applicable Construction Code: B31.1, 1967 Edition, NA Addenda,  
NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repair or Replacement  
1980 Edition, Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement  
Components

Name of Component	Name of Mfg.	Mfg. Searial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Re- placement	ASME Code Stamped (Yes or No)
Feedwater Systems							
S/G 'B'	NA	NA	NA	NA	NA	Repair	NO
S/G 'C'	NA	NA	NA	NA	NA	Repair	NO

7. Description of Work: Pad welding performed on specified areas of the  
18" X 14" reducers to achieve minimum wall thickness requirements

8. Test Conducted: Hydrostatic | | Pneumatic | | Normal Operating Pressure | |

Other | | Pressure:      psig      Test Temp:      F





## FORM NIS-2

9. Remarks: Approximately 1/8" of weld metal was deposited uniformly around the reducer's OD surface for about 4" of its length beginning at the 18" weld.

Completed weld was ground smooth and was examined by liquid penetrant and ultrasonic methods. Pressure test exempted by IWA 4400 (3)

Examinations performed by FPL

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI. (repair/replacement)

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. M. Ba, Sec. Sup - MCI Date 10/14, 1985  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Dade County, FL and employed by \*\* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 3/6/84 to 6/1/84, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

D. P. Boyer Commission Number: 4956 (N) (I)  
Inspector's Signature (National Board, State, Province and Endorsements)

Date 10/14 1985

\*\*Arkwright Boston Mfg's Mutual Insurance Company



ZONE 4  
SYSTEM SIM. GEN. B  
ISO NO. CIS-V-9

TURKEY POINT PLANT UNIT 3  
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						NRI	IN	GEO OTHER	
000010	3-SGB-Z	HEAD TO TUBESHEET WELD	UT	NDE 5.1	UT-8		X	5.1-9	100% OF WELD

ZONE  
SYSTEM S LOOP-A  
ISO NO. CIS-A-1

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000050	2"-RC-1301-EC-1	BRANCH CONN-2" DRAIN	VT-1	4.1	N/A	X	4.1-11 GRINDING MARKS
000051	2"-RC-1301-EC-1	BRANCH CONN - 2" DRAIN	PT	3.3	N/A	X	3.3-37 GRINDING MARKS



ZONE  
SYSTEM RCS. LOOP B  
ISO NO. CIS-A-4

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000040	31"-RCS-1302-8	ELBOW TO PIPE	VT-1	4.1	N/A			X	4.1-32 GOUGE
000041	31"-RCS-1302-8	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000042	31"-RCS-1302-8	ELBOW TO PIPE	UT	5.5	UT-12	X			5.5-1 UT-12,46,26
000051	2"-RCS-1302-BC-1	BRANCH CON. 2" DRAIN	PT	3.3	N/A			X	3.3-87 1 RD. IND ACCEPTED
000050	2"-RCS-1302-BC-1	BRANCH CONN - 2" DRAIN	VT-1	4.1	N/A	X			NONE VT PER TECH SPECS

ZONE  
SYSTEM RCS. LOOP B  
ISO NO. CIS-A-5

TURKEY POINT PLANT UNIT  
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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000060	29"-RCS-1305-3	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-51 GRINDING MARKS
000070	29"-RCS-1305-4	ELBOW TO NOZZLE	VT-1	4.1	N/A	X	.		NONE PER TECH SPECS
000071	29"-RCS-1305-4	ELBOW TO NOZZLE	PT	3.3	N/A		X		3-129 100% OF WELD
000072	29"-RCS-1305-4	ELBOW TO NOZZLE	UT	5.5	UT-26	X			NONE UT-12,46
000061	29"-RCS-1305-3	PIPE TO ELBOW	PT	3.3	N/A		X		3-128 GRINDING MARKS
000062	29"-RCS-1305-3	PIPE TO ELBOW	UT	5.5	UT-46			X	PIPE SIDE ONLY





ZONE  
SYSTEM RCS. LOOP B  
ISO NO. CIS-A-6

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000050	27.5"-RCS-1306-12	PIPE TO PIPE	VT-1	4.1	N/A	X			4.1-43 GRINDING MARKS
000051	27.5"-RCS-1306-12	PIPE TO PIPE	PT	3.3	N/A	X			33-112 GRINDING MARKS
000052	27.5"-RCS-1306-12	PIPE TO PIPE	UT	5.5	UT-12*		X		*UT-46
000060	10"-RCS-1306-BC-4	BRANCH CONN - 10" SIS	VT-1	4.1	N/A	X			4.1-43 GRIND MKS, 4.1-59
000061	10"-RCS-1306-BC-4	BRANCH CONN - 10" SIS	PT	3.3	N/A	X			3-115 GRIND MARKS ACCEPT
000040	2"-RCS-1306-BC-3	BRANCH CONN 2" LETDOWN	VT-1	4.1	N/A		X		NONE PER TECH SPECS
000041	2"-RCS-1306-BC-3	BRANCH CONN 2" LETDOWN	PT	3.3	N/A			X	3.3-68 1 ROUND ACCEPT



ZONE  
SYSTEM PR2. SURGE LINE  
ISO NO. CIS-A-10

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000082	12"-RC-1306-8	ELBOW TO REDUCER	UT	5.4	UT-34	X			
000090	14"-RC-1301-8A	REDUCER TO SURGE NOZZLE	VT-1	4.1	N/A	X			N/A PER TECH SPECS
000091	14"-RC-1301-8A	REDUCER TO SURGE NOZZLE	PT	3.3	N/A		X		33-104 GRINDING MARKS
000080	12"-RC-1301-8	ELBOW TO REDUCER	VT-1	4.1	N/A	X			N/A PER TECH SPECS
000081	12"-RC-1301-8	ELBOW TO REDUCER	PT	3.3	N/A		X		33-105 100% OF WELD
000436	3-SR-400-A	SPRING CAN HANGER	VT-3/4	4.3	N/A		X		INSUL 1379 lbs, 0"
000437	3-RC-F-12	WHIP RESTRAINT	VT-3	4.3	N/A	X			NONE
000092	14"-RC-1301-8A	REDUCER TO SURGE NOZZLE	UT	5.4	UT-30			X	5.4-10
000447	3-SR-400-B	SPRING CAN HANGER	VT-3/4	4.3	N/A			X	4.3-24 BASEPLATE REPAIRED

ZONE 017

SYSTEM PR2. SAFETY A  
ISO NO. CIS-A-11

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000021	4"-RC-1301-1	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000022	4"-RC-1301-1	PIPE TO ELBOW	UT	5.4	UT-45	X			
000020	4"-RC-1301-1	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-33 GRINDING MARKS



ZONE 018  
SYSTEM PRZ. SAFETY B  
ISO NO. CIS-A-12

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000021	4"-RC-1302-1	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000020	4"-RC-1302-1	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-34 GRINDING MARKS
000022	4"-RC-1302-1	PIPE TO ELBOW	UT	5.4	UT-45	X	:		



ZONE 019  
SYSTEM PRZ. SAFETY C  
ISO NO. CIS-A-13

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000021	4"-RC-1303-1	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD
000022	4"-RC-1303-1	PIPE TO ELBOW	UT	5.4	UT-45			X	5.4-23 ID GEOMETRY
000020	4"-RC-1303-1	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-35 GRINDING MARKS





ZONE 020  
SYSTEM PRZ. SPRAY LINE  
ISO NO. CIS-A-14

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000010	4"-RC-1304-1	NOZZLE TO PIPE	VT-1	4.1	N/A		X		4.1-19 GRINDING MARKS
000280	4"-RC-1304-1-A	SAFE END TO NOZZLE	VT-1	4.1	N/A		X		4.1-41 GRINDING MARKS
000281	4"-RC-1304-1-A	SAFE END TO NOZZLE	PT	3.3	N/A			X	3.3-96 3 ROUND ACCEPT
000020	4"-RC-1304-2	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-19 GRINDING MARKS
000021	4"-RC-1304-2	PIPE TO ELBOW	PT	3.3	N/A		X		3.3-56 GRINDING MARKS
000022	4"-RC-1304-2	PIPE TO ELBOW	UT	5.4	UT-45	X			
000300	4"-RC-1304-FW-2	VALVE 3-573 TO PIPE	VT-1	4.1	N/A		X		4.1-1 GRIND MKS, BASELINE
000301	4"-RC-1304-FW-2	VALVE 3-573 TO PIPE	PT	3.3	N/A		X		3.3-1 GRIND MARKS ACCEPT
000302	4"-RC-1304-FW-2	VALVE 3-573 TO PIPE	UT	5.4	UT-45	X			BASELINE
000310	4"-RC-1304-FW-4	PIPE TO VALVE 3-455B	VT-1	4.1	N/A		X		4.1-1 GRIND MKS, BASELINE
000311	4"-RC-1304-FW-4	PIPE TO VALVE 3-455B	PT	3.3	N/A		X		3.3-1 GRIND MARKS ACCEPT
000312	4"-RC-1304-FW-4	PIPE TO VALVE 3-455B	UT	5.4	UT-45	X			BASELINE
000320	4"-RC-1304-FW-5	VALVE 3-455B TO PIPE	VT-1	4.1	N/A		X		4.1-1 GRIND MKS, BASELINE
000321	4"-RC-1304-FW-5	VALVE 3-455B TO PIPE	PT	3.3	N/A		X		3.3-1 GRIND MARKS ACCEPT
000322	4"-RC-1304-FW-5	VALVE 3-455B TO PIPE	UT	5.4	UT-45	X			BASELINE
000291	4"-RC-1304-FW-1	PIPE TO VALVE 3-573	PT	3.3	N/A		X		3.3-58 BASELINE
000292	4"-RC-1304-FW-1	PIPE TO VALVE 3-573	UT	5.4	UT-45	X			BASELINE
000332	4"-RC-1304-FW-7	PIPE TO PIPE	UT	5.4	UT-45	X			BASELINE
000011	4"-RC-1304-1	NOZZLE TO PIPE	PT	3.3	N/A		X		3.3-57 GRINDING MARKS
000012	4"-RC-1304-1	NOZZLE TO PIPE	UT	5.4	UT-45	X			
000340	3-573	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-48 RUST, IN PLACE
000290	4"-RC-1304-FW-1	PIPE TO VALVE 3-573	VT-1	4.1	N/A		X		4.1-19 GRIND MKS, BASELINE
000331	4"-RC-1304-FW-7	PIPE TO PIPE	PT	3.3	N/A			X	3.3-69 3 LINEAR ACCEPT
000350	RCV-3-455B	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-48 RUST, IN PLACE
000330	4"-RC-1304-FW-7	PIPE TO PIPE	VT-1	4.1	N/A			X	4.1-23 GOUGE, BASELINE



ZONE 021  
SYSTEM PRZ. SPRAY LINE  
ISO NO. CIS-A-15

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 11

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000212	4"-RC-1305-FW-19	PIPE TO VALVE 3-455A	UT	5.4	UT-45	X			BASLINE
000230	4"-RC-1305-FW-22	PIPE TO VALVE 3-572	VT-1	4.1	N/A		X	4.1-2	GRIND MKS, BASELINE
000231	4"-RC-1305-FW-22	PIPE TO VALVE 3-572	PT	3.3	N/A		X	3.3-2	GRIND MARKS ACCEPT
000220	4"-RC-1305-FW-20	VALVE 3-455A TO PIPE	VT-1	4.1	N/A		X	4.1-2	GRIND MKS, BASELINE
000242	4"-RC-1305-FW-23	VALVE 3-572 TO PIPE	UT	5.4	UT-45	X			BASLINE
000210	4"-RC-1305-FW-19	PIPE TO VALVE 3-455A	VT-1	4.1	N/A		X	4.1-2	GRIND MKS, BASELINE
000211	4"-RC-1305-FW-19	PIPE TO VALVE 3-455A	PT	3.3	N/A		X	3.3-2	GRIND MARKS ACCEPT
000221	4"-RC-1305-FW-20	VALVE 3-455A TO PIPE	PT	3.3	N/A		X	3.3-2	GRIND MARKS ACCEPT
000222	4"-RC-1305-FW-20	VALVE 3-455A TO PIPE	UT	5.4	UT-45	X			BASLINE
000240	4"-RC-1305-FW-23	VALVE 3-572 TO PIPE	VT-1	4.1	N/A	X		4.1-49	BASLINE
000241	4"-RC-1305-FW-23	VALVE 3-572 TO PIPE	PT	3.3	N/A		X	3-110	BASLINE
000260	3-572	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-39 RUST, INADEQUATE T.
000030	PCV-3-455A	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-39 MISSING BOLTS, RUST
000250	4"-RC-1305-FW-45	PIPE TO PIPE	VT-1	4.1	N/A	X		N/A	BASLINE
000250	4"-RC-1305-FW-45	BASLINE	UT	5.4	UT-45	X			BASLINE
000232	4"-RC-1305-FW-22	PIPE TO VALVE 3-572	UT	5.4	UT-45	X			BASLINE

ZON 12  
SYSTEM PRZ. RELIEF LINE  
ISO NO. CIS-A-16

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 1

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PAGE 12

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000020	4"-RC-1306-1	SAFE END TO PIPE	VT-1	4.1	N/A			X	4.1-40 GRINDING MARKS
000021	4"-RC-1306-1	SAFE END TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000022	4"-RC-1306-1	SAFE END TO PIPE	UT	5.4	UT-45	X			

ZONE 023  
SYSTEM RTD RETURN LOOP A  
ISO NO. CIS-A-17

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 1

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PAGE 13

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000111	3"-RC-1301-10	PIPE TO ELBOW	PT	3.3	N/A	X			3.3-89 100% OF WELD
000130	3"-RC-1301-12	PIPE TO NOZZLE	VT-1	4.1	N/A	X			4.1-36 GRINDING MARKS
000110	3"-RC-1301-10	PIPE TO ELBOW	VT-1	4.1	N/A	X			4.1-36 GRINDING MARKS
000011	3"-RC-1301-1	REDUCER TO TEE	PT	3.3	N/A	X			NONE
000010	3"-RC-1301-1	REDUCER TO TEE	VT-1	4.1	N/A		X		4.1-50 ARC STRIKE
000101	3"-RC-1301-9	ELBOW TO PIPE	PT	3.3	N/A	X			3.3-88 NON REVELANT LINEAR
000120	3"-RC-1301-11	ELBOW TO PIPE	VT-1	4.1	N/A		X		4.1-28 ARC STRIKE
000131	3"-RC-1301-12	PIPE TO NOZZLE	PT	3.3	N/A	X			3.3-91 NON REVELANT LINEAR
000100	3"-RC-1301-9	ELBOW TO PIPE	VT-1	4.1	N/A	X			4.1-36 GRINDING MARKS
000121	3"-RC-1301-11	ELBOW TO PIPE	PT	3.3	N/A		X		3.3-90 1 LINEAR REJECTED

ZON 14  
SYSTEM RTD LOOP B  
ISO NO. CIS-A-18

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 14

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000071	3"-RC-1302-6	VALVE 3-560B TO PIPE	PT	3.3	N/A		X		33-117 NON REVELANT ACCEPT
000100	3"-RC-1302-9	PIPE TO NOZZLE	VT-1	4.1	N/A	X	.		N/A PER TECH. SPECS
000070	3"-RC-1302-6	VALVE 3-560B TO PIPE	VT-1	4.1	N/A		X		4.1-46 GRINDING MARKS
000101	3"-RC-1302-9	PIPE TO NOZZLE	PT	3.3	N/A	X			NONE 100% OF THE WELD
000091	3"-RC-1302-8	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000090	3"-RC-1302-8	ELBOW TO PIPE	VT-1	4.1	N/A			X	4.1-46 GRIND MKS, WELD SPA
000110	3-560	VALVE BOLTING	VT-1	4.1	N/A			X	4.1-46 BORIC ACID RESIDUE





ZONE 025  
SYSTEM RTD LOOP C  
ISO NO. CIS-A-19

TURKEY POINT PLANT UNIT 5  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 15.

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000120	3"-RC-1303-11	PIPE TO ELBOW	VT-1	4.1	N/A		X		4.1-45 GRINDING MARKS
000140	3"-RC-1303-13	PIPE TO NOZ. BRANCH CONN	VT-1	4.1	N/A		X		4.1-45 GRINDING MARKS
000131	3"-RC-1303-12	ELBOW TO PIPE	PT	3.3	N/A	X			NONE 100% OF WELD
000130	3"-RC-1303-12	ELBOW TO PIPE	VT-1	4.1	N/A		X		4.1-45 GRINDING MARKS
000121	3"-RC-1303-11	PIPE TO ELBOW	PT	3.3	N/A	X			NONE 100% OF WELD



ZONE  
SYSTEM DRAIN LINE LOOP A  
ISO NO. CIS-A-22

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 1

Mon Sep 23 1985  
PAGE 16

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000010	2"-RC-1301-1	NOZZLE TO PIPE	VT-1	4.1	N/A	X	N/A PER TECH SPECS
000011	2"-RC-1301-1	NOZZLE TO PIPE	PT	3.3	N/A	X	3.3-25 1 ROUND ACCEPT

20 5  
SYSTEM S/G BLOWDOWN LOOP A  
ISO NO. CIS-B-73

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 2

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PAGE 43

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000021	6"-BDA-2304-FW-23	REDUCER TO PIPE	UT	5.2	UT-22	X			
000020	6"-BDA-2304-FW-23	REDUCER TO PIPE	MT	2.2	N/A	X			
000010	4"-BDA-2304-FW-22	PEN. # 28A TO REDUCER	MT	2.2	N/A	X			NONE NOT REQUIRED
000040	6"-BDA-2304-FW-25	VALVE SGB-3-007 TO PIPE	MT	2.2	N/A	X			NONE
000030	6"-BDA-2304-FW-24	PIPE TO VALVE SGB-3-007	MT	2.2	N/A		X		2.2-19 NON-REVELANT SURFAC
000031	6"-BDS-2304-FW-24	PIPE TO VALVE SGB-3-007	UT	5.2	UT-22	X			
000050	6"-BDA-2304-FW-26	PIPE TO VALVE SGB-3-010	MT	2.2	N/A	X			NONE LIMITATION (FLOOR)
000051	6"-BDA-2304-FW-26	PIPE TO VALVE SGB-3-010	UT	5.2	UT-22	X			NONE
000041	6"-BDA-2304-FW-25	VALVE SGB-3-007 TO PIPE	UT	5.2	UT-22	X			



ZC 9  
 SYS. MAIN FEEDWATER LOOPA  
 ISO NO. CIS-8-66

TURKEY POINT PLANT UNIT  
 1985 SUMMARY REPORT TABLES  
 CLASS 2

Mon Sep 23 1985  
 PAGE 44

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
AUG-01	BASE MATERIAL	100% SCAN FROM RAMP TO ELBOW	UT	5.16	UT-20	X			AUGMENTED EXAM
000060	14"-FWA-2302-2	ELBOW TO PIPE	UT	5.2	UT-20	X		NONE	
000250	14"-FWA-2301-21	ELBOW TO PIPE	UT	5.16	UT-20	X			
000270	18"-FWA-2301-FW-1	RED TO RED EXTENSION	UT	5.16	UT-29		X	5.16-2	
000061	14"-FWA-2302-2	ELBOW TO PIPE	MT	2.2	N/A	X		NONE	
000051	14"-FWA-2302-1	PIPE TO ELBOW	UT	5.2	UT-20	X		NONE	
000050	14"-FWA-2302-1	PIPE TO ELBOW	MT	2.2	N/A	X		NONE	
000240	14"-FWA-2301-20	PIPE TO ELBOW	UT	5.16	UT-20	X			
000290	18"-FWA-2301-FW-2	NOZ EXT TO NOZZLE	UT	5.16	UT-29		X	5.16-2	
AUG-02	14"-FWA-2301-21-BM	ELBOW - BASE MATERIAL	UT	5.16	UT-20	X			1 PIPE DIA.
000280	18"-FWA-2301-21B	RED EXT TO NOZ EXT	UT	5.16	UT-29		X	5.16-2	

ZONE 112  
SYSTEM AUX. FEED LOOP A  
ISO NO. CIS-B-69

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 2

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PAGE 45

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000060	6"-AFW-2301-6	ELBOW TO PIPE	MT	2.2	N/A	X			NONE
000050	6"-AFW-2301-5	VALVE 3-20-132 TO ELBOW	MT	2.2	N/A	X			NONE
000040	6"-AFW-2301-4	PIPE TO VALVE 3-20-132	MT	2.2	N/A	X			NONE
000030	6"-AFW-2301-3	VALVE 3-20-131 TO PIPE	MT	2.2	N/A	X			NONE
000020	6"-AFW-2301-2	REDUCER TO VALVE 3-20-131	MT	2.2	N/A	X			NONE
000010	6"-AFW-2301-1	VALVE 3-479 TO REDUCER	MT	2.2	N/A	X			NONE

ZONA  
SYSTEM COW  
ISO NO. CIS-C-3

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 46

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS NRI IN GEO OTHER	REMARKS
000430	3-ARH-91	PIPE HANGER	VT-3	4.3	N/A	X NONE	BOLTED U- BOLT





ZONE 4  
SYSTEM COW  
ISO NO. CIS-C-4

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 47

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000449	3-SR-343-A & B	PIPE HANGER & SPRING CAN	VT-3/4	4.3	N/A	X		4.3-2	



ZONE 40  
SYSTEM OCW  
ISO NO. CIS-C-40

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 50

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000442	3-ARH-93	RIDID PIPE HANGER	VT-3	4.3	N/A		X	4.3-6	SEE DATA SHEET

ZON 41  
SYSTEM OCW  
ISO NO. CIS-C-41

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 51

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000446	3-SR-147	WELDED SADDLE & BOXED SUPPORT	VT-3	4.3	N/A	X			4.3-16 ACCEPTABLE CONDITIO
000445	3-ARH-82	RIGID HANGER	VT-3	4.3	N/A	X			4.3-15 ACCEPTABLE CONDITIO
000444	3-ARH-79	WELDED PIPE SUPPORT	VT-3	4.3	N/A	X			4.3-14 ACCEPTABLE CONDITIO

ZONE C43  
SYSTEM OCW  
ISO NO. CIS-C-43

TURKEY POINT PLANT UNIT 3  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 52

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000443	3-ARH-78	RIGID HANGER	VT-3	4.3	N/A			4.3-5	

ZONING  
SYSTEM CIRC. WATER SYS.  
ISO NO. CIS-C-54

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 3

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PAGE 53

ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000441	3-G	BOLTED PIPE CLAMP	VT-3	4.3	N/A			X GROUT	GROUTING MISSING
000440	3-A	BOLTED PIPE CLAMP	VT-3	4.3	N/A			X	RUSTED PLATE & NUTS





ZONE  
SYSTEM CIRC. WATER SYS.  
ISO NO. CIS-C-55

TURKEY POINT PLANT UNIT  
1985 SUMMARY REPORT TABLES  
CLASS 3

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ITEM NO.	IDENTIFICATION NUMBER	ITEM DESCRIPTION	EXAM METH	PROC NO	CAL BLK	INDICATIONS			REMARKS
						NRI	IN	GEO OTHER	
000450	3.5 & 3.4	PIPE SUPPORT	4.3	4.3	N/A				4.3-12 RETORQUED BOLTS
000431	3-1	WELDED BOXED SUPPORT	VT-3	4.3	N/A	X	.		NONE

## APPENDIX A

### CLASS 1 ISOMETRIC DRAWINGS

DRAWING NUMBER	TITLE
CIS-V-5	PRESSURIZER
CIS-V-6	PRESSURIZER
CIS-V-7	PRESSURIZER
CIS-V-9	STEAM GENERATOR A PRIMARY SIDE
CIS-V-10	STEAM GENERATOR PRIMARY HEAD
CIS-V-11	REGENERATIVE HEAT EXCHANGER
CIS-A-1	REACTOR COOLANT, LOOP A
CIS-A-2	REACTOR COOLANT, LOOP A
CIS-A-3	REACTOR COOLANT, LOOP A
CIS-A-10	PRESSURIZER SURGE LINE
CIS-A-11	PRESSURIZER SAFETY LINE TO 3-RV-551A
CIS-A-12	PRESSURIZER SAFETY LINE TO 3-RV-551B
CIS-A-13	PRESSURIZER SAFETY LINE TO 3-RV-551C
CIS-A-14	PRESSURIZER SPRAY LINE
CIS-A-15	PRESSURIZER SPRAY LINE
CIS-A-16	PRESSURIZER RELIEF LINE
CIS-A-17	RTD RETURN LINE LOOP A
CIS-A-18	RTD RETURN LINE LOOP B
CIS-A-19	RTD RETURN LINE LOOP C
CIS-A-22	DRAIN LINE, COLD LEG LOOP A
CIS-A-25	RTD HOT LEG, LOOP A
CIS-A-28	RTD LINE COLD LEG, LOOP A
CIS-A-31	AUXILIARY SPRAY LINE LOOP B



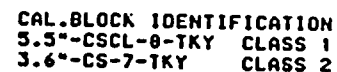
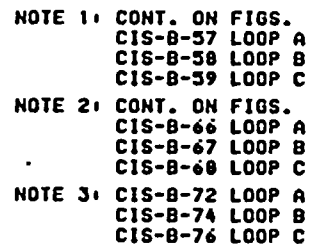
APPENDIX A  
CLASS 1 ISOMETRIC DRAWINGS

DRAWING NUMBER

TITLE

CIS-A-35.	RHR HOT LEG LOOP C
CIS-A-36	RHR LOOP A
CIS-A-37	SI/RHR LOOP B
CIS-A-38	SI/RHR LOOP C
CIS-A-39	BORON INJECTION LOOP A
CIS-A-42	HIGH HEAD SAFETY INJECTION
CIS-A-44.	CHARGING LINE LOOP B
CIS-A-45	CHARGING LINE LOOP A
CIS-A-47	LETDOWN LINE
CIS-A-49	CVCS LOOP A
CIS-A-50	CVCS LOOP C
CIS-A-51	CVCS LOOP B





SIZE	SCH	MATERIAL	SPECS	TYPE

REV

**WESTINGHOUSE**

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE

APPROVED BY: *J. P. Anderson*

**DRAWN BY VTD**

DATE: 3-7-85

REVISÉ

STEAM GENERATOR GENERAL ARRANGEMENT  
CIRCUMFERENTIAL & LONGITUDINAL WELDS

FPL

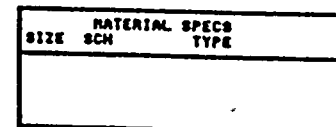
CAD

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CIS-V-09



DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	05
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REV

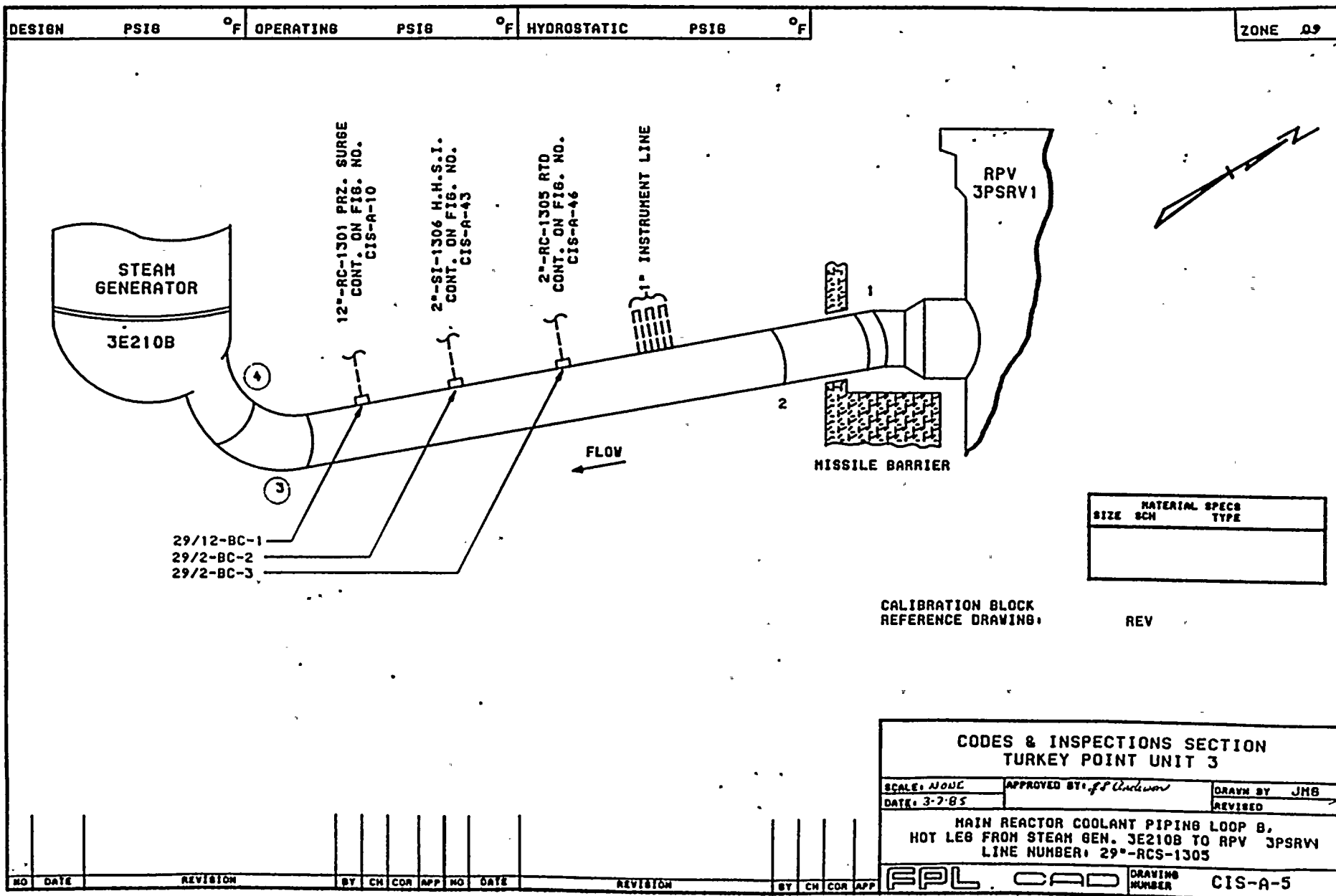
SCALE: NONE	APPROVED BY: J. F. Anderson	DRAWN BY: JHG
DATE: 3-7-85		REVISED:
MAIN REACTOR COOLANT PIPING LOOP 1A, COLD LEG FROM STEAM GEN. 3E210A TO 3P200A LINE NUMBER: 31"-RCS-1301		
FPL CAD		DRAWING NUMBER CIS-A-1





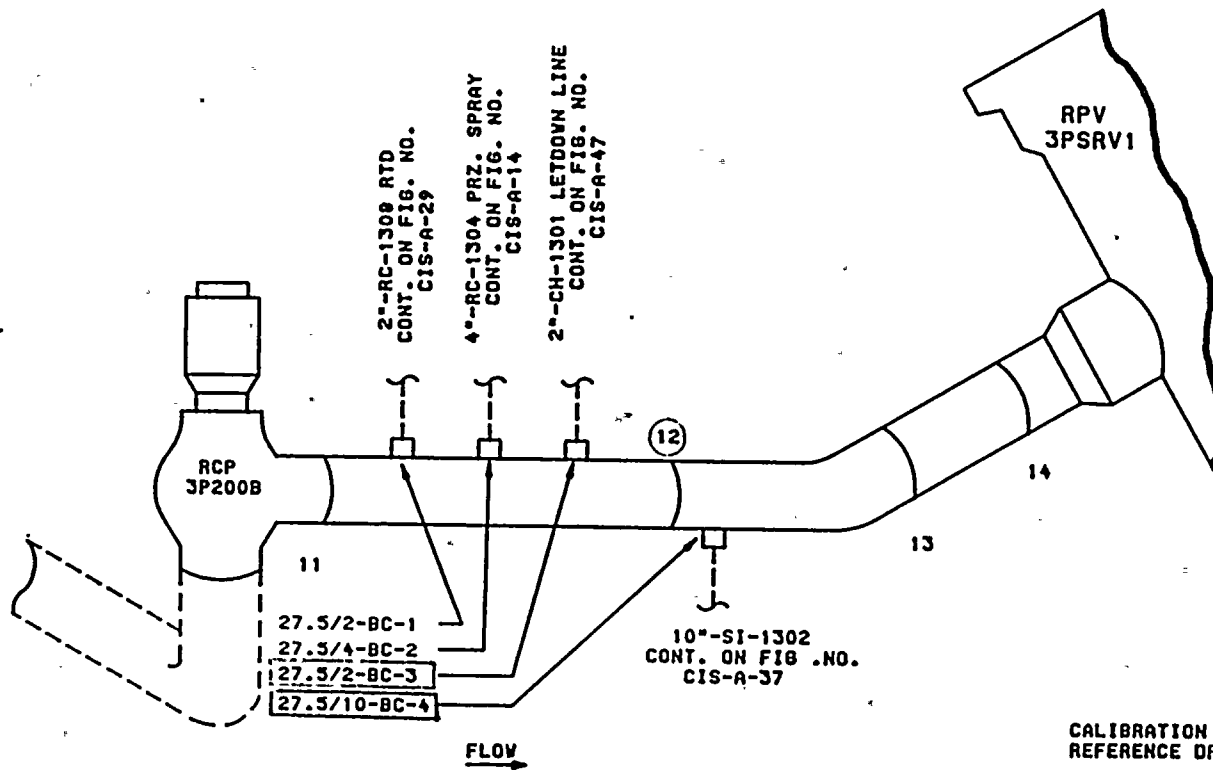
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57-1000-1-12

DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	030
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MATERIAL SPEC	
SIZE SCH	TYPE

CALIBRATION BLOCK  
REFERENCE DRAWING

REV

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP

CODES & INSPECTIONS SECTION TURKEY POINT UNIT 3	
SCALE: NONE	APPROVED BY: <i>J. Anderson</i>
DATE: 3-7-85	DRAWN BY: JMS
REVISOR	
MAIN REACTOR COOLANT PIPING LOOP 28, COLD LEG FROM STEAM GEN. 3E2108 TO RPV 3PSRV1 LINE NUMBER: 27.5\"-RCS-1306	
FPL CAD	DRAWING NUMBER: CIS-A-6



DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F		ZONE 014
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PRESSURIZER JT200  
CONT. ON FIG. NO. CIS-V-05

14"-RC-1301

14"X 12" CONC. RED.

EL. 32'-3"

DISSIMILAR METAL WELD

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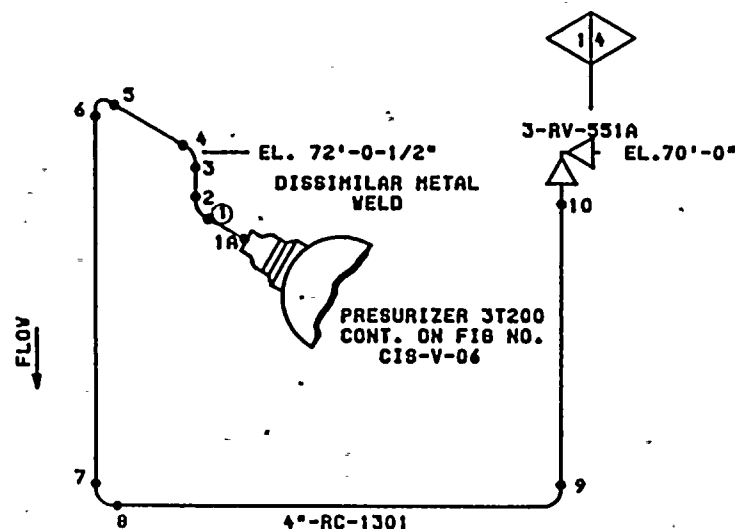
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129



MATERIAL SPEC		
SIZE	SCH	TYPE
4"	120	A376, TP316, SMLS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
BECHTEL 5177-102-SK-P-690  
E2386-WIC-2 & 3  
5610-H-410-202**

REV.  
B

SH. 2 OF 2

**CODES & INSPECTIONS SECTIONS  
TURKEY POINT UNIT 3**

SCALE: 1/4"=1'	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY: SBD/JHB
DATE: 3-7-85		REVISED

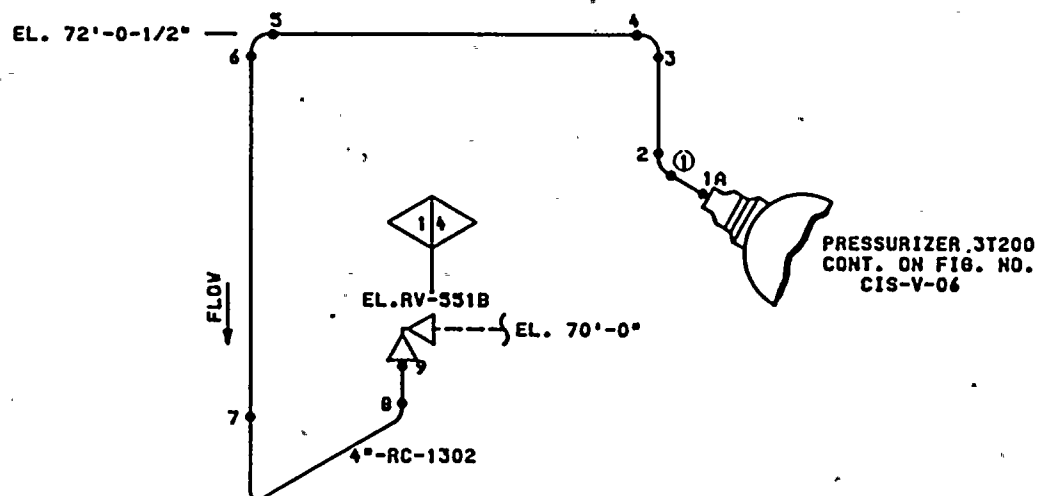
4" REACTOR COOLANT LINE FROM PRESSURIZER  
SAFETY NOZZLE TO VALVE 3-RV-551A  
LINE NUMBER: 4"-RC-1301

FPL. CAD	DRAWING NUMBER	CIS-A-11
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[illegible]



DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	016
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SIZE	MATERIAL	SPECS
SIZE	SCH	TYPE
4"	120	A376, TP316, SMLS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
BECHTEL 5177-102-SK-P-680  
5610-M-410-202**

REV.  
B  
SH. 2 OF 2

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: AS SHOWN	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY: JMB
DATE: 3-7-85		REVISED:

4" REACTOR COOLANT LINE FROM PRESSURIZER  
SAFETY NOZZLE TO VALVE 3-RV-551B  
LINE NUMBER: 4"-RC-1302

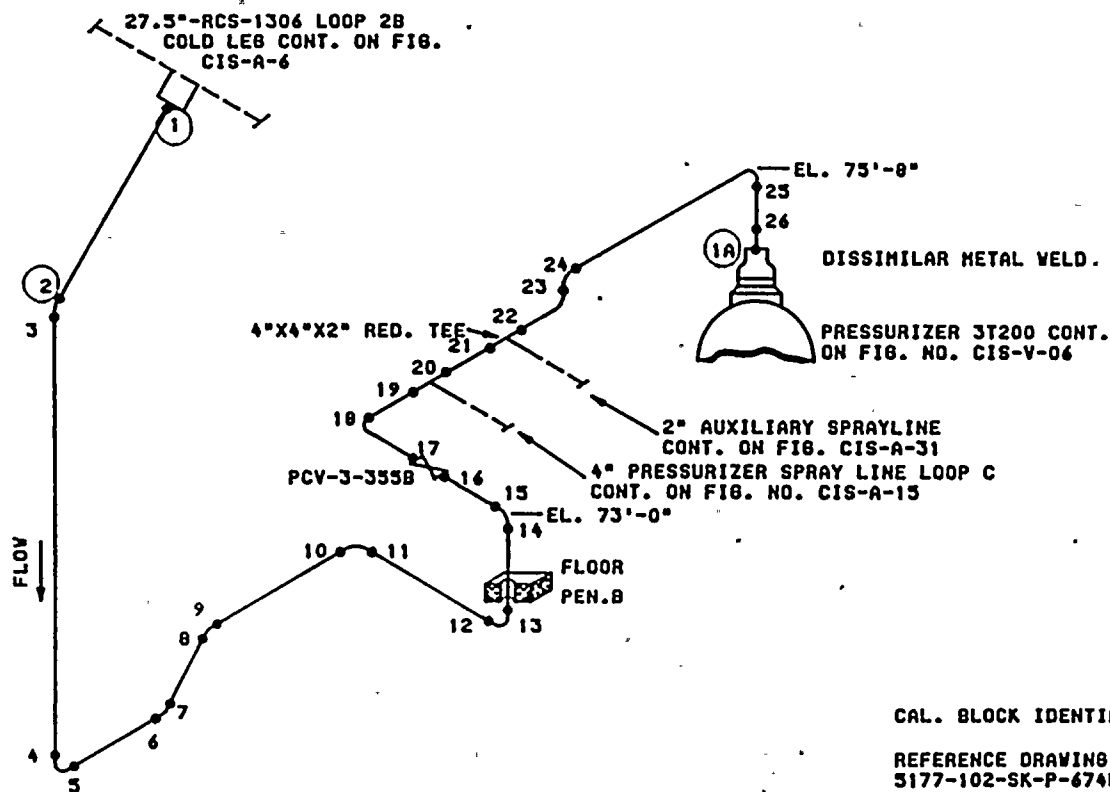
FPL CAD DRAWING NUMBER CIS-A-12

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE 018
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SIZE	SCH	MATERIAL	SPECS	TYPE
4"	120	A376	TP316	SHLGL

CAL. BLOCK IDENTIFICATION

REFERENCE DRAWING: REV.  
 5177-102-SK-P-6740  
 VESTINGHOUSE 710J531  
 E2386-VIC-7 & 10  
 5610-M-410-202

SHT 2 OF 2

# CODES & INSPECTIONS SECTION TURKEY POINT UNIT 3

SCALE: NONE	APPROVED BY: J. Anderson	DRAWN BY
DATE: 3-7-85		REVISED
4" PRESSURIZER SPRAY LINE FROM PRESSURIZER 3T200 TO 27.5" RCS-1306 LOOP 2B COLD LEG LINE NUMBER: 4"-RC-1304		
FPL CAD	DRAWING NUMBER	CIS-A-14

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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MATERIAL SPECS		
SIZE	SCH	TYPE
4"	120	A376, TP316 SMLS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-SK-P-674D  
E2386-VIC-7 & 10  
5177-102-SK-P-675C  
5610-M-410-202**

REV

SH. 2 OF 2

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. J. Williams</i>	DRAWN BY JMB
DATE: 3-7-85		REVISED

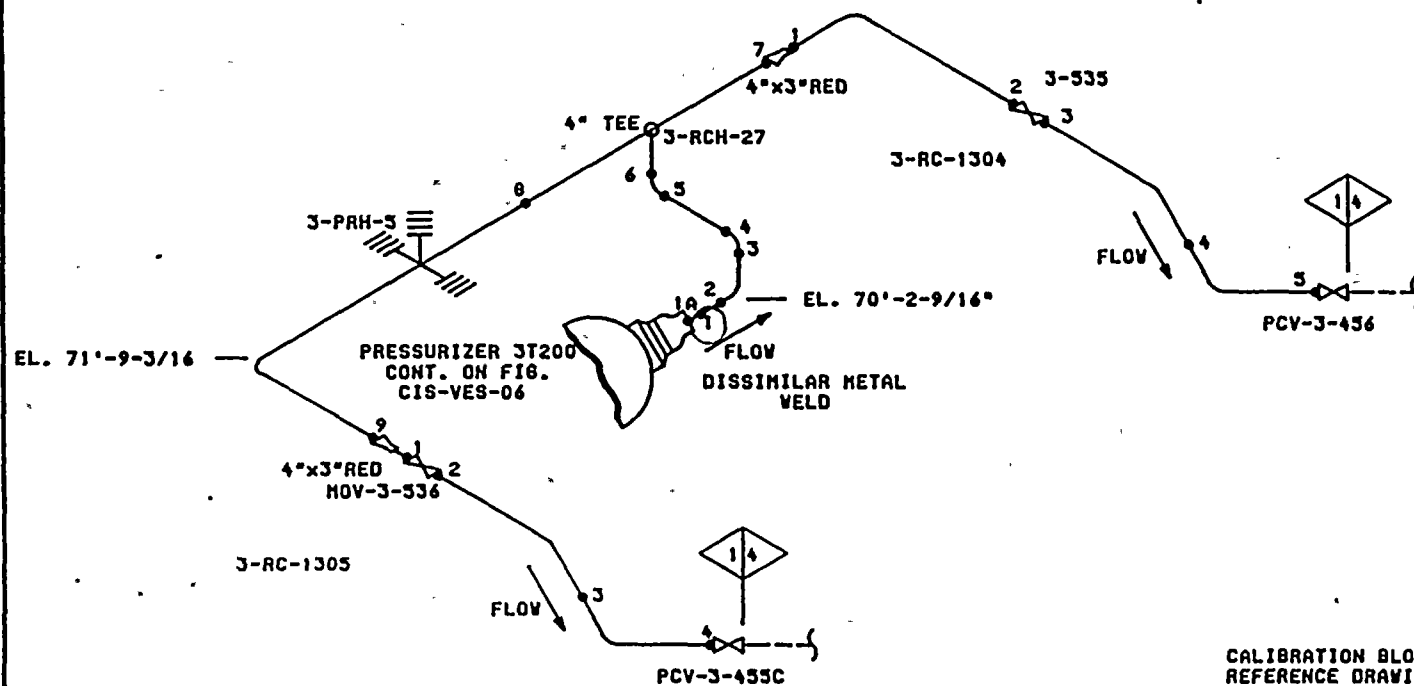
4" PRESSURIZER SPRAY LINE FROM PRESSURIZER SPRAY  
LINE LOOP B TO 27.5"-RCS-1309 COLD LEG, LOOP 2C  
LINE NUMBER: 4"-RC-1305

FPL	CAD	DRAWING NUMBER	CIS-A-15
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NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE 020
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SIZE	MATERIAL	SPECS	TYPE
4"	120	A374, TP316	SNLS
3"	120	A374, TP316	SNLS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
3177-102-SK-P-681B  
5610-M-410-202  
E2386-VIC-3 & 8**

REV

SH. 1 &amp; 2

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

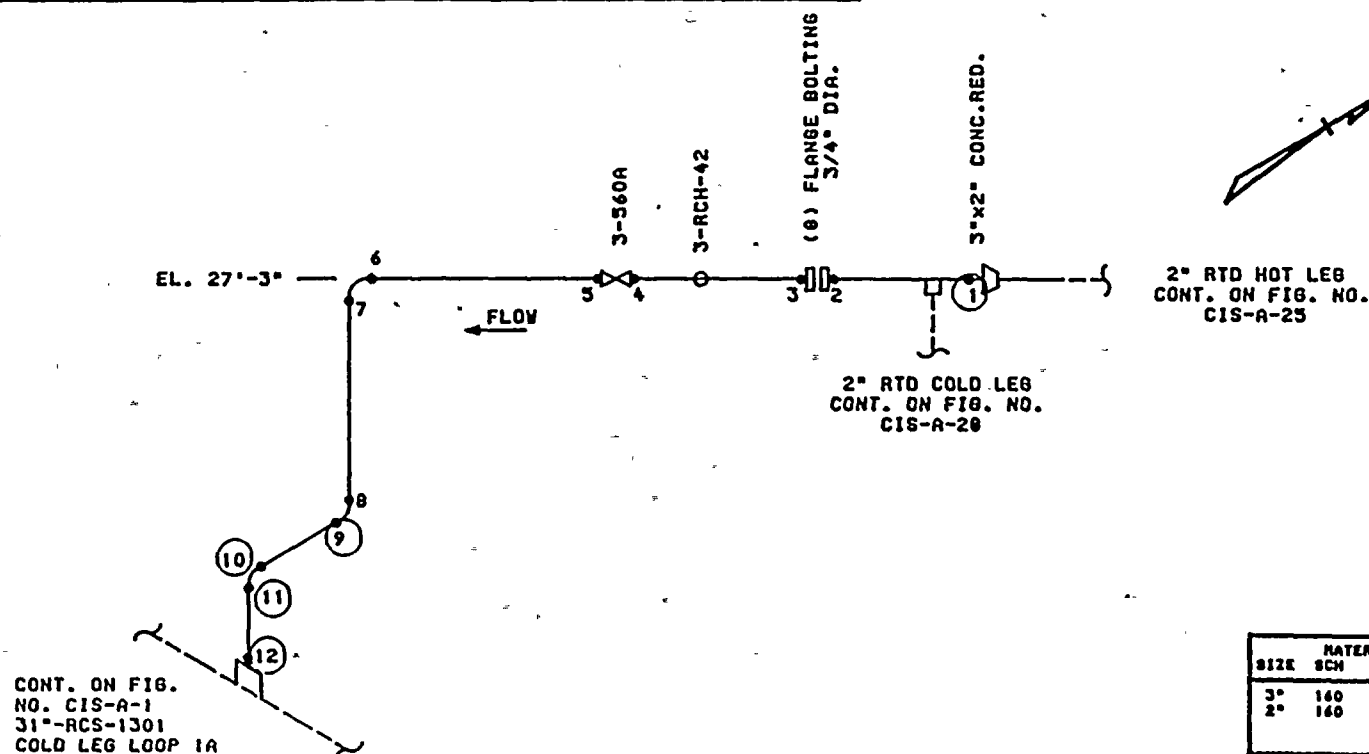
SCALE: <i>NONE</i>	APPROVED BY: <i>[Signature]</i>	DRAWN BY: JMB
DATE: 3-7-85		REVISED
PRESSURIZER RELIEF LINE FROM PRESSURIZER 3T200		
LINE NUMBER: 4"-RC-1306, 3"-RC-1304, 3"-RC-1305		
FPL	CAD	DRAWING NUMBER CIS-A-16

[illegible]





DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE 021
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SIZE	MATERIAL	SPECS	
	SCM	TYPE	
3"	160	A376, TP316	SHLS
2"	160	A376, TP316	SHLS

CALIBRATION BLOCK  
REFERENCE DRAWING: REV  
BECHTEL 3177-102-SK-P-611C  
3610-FSK-M-420A  
3610-M-410-202  
E2386-WIC-11A  
13610-FSK-M-419A

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY JMG
DATE: 3-7-85		REVISED

3° RTD RETURN, LOOP A FROM 31°-RCS-1301  
COLD LEG 1A TO 29°-RCS-1304 HOT LEG  
LINE NUMBER: 3°-RC-1301

FPL	CAD	DRAWING NUMBER	CIS-A-17
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[illegible]



DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	022
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2° RTD HOT LEB  
CONT. ON FIG. NO.  
CIS-A-26

3"x2" CONC.RED.

2" RTD COLD LEG  
CONT. ON FIG. NO.  
CIS-A-29

~~3-VIC-12-1~~

(8) FLANGE BOLTING  
3/4" DIA.

[illegible]

**FLOW**

**-EL. 27'-2-3/4"**

CONT. ON FIG. NO. CIA-A-4  
31--RCS-1302 COLD LEG 1B

SIZE	MATERIAL	SPEC TYPE
3"	160	A376, TP316 SMLS
2"	160	A376, TP316 SMLS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
BECHTEL 3177-102-SK-P-601  
3610-FSK-M-416A  
3610-M-410-202  
E2386-VIC-12**

REV  
D

SH. 1 OF 2

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

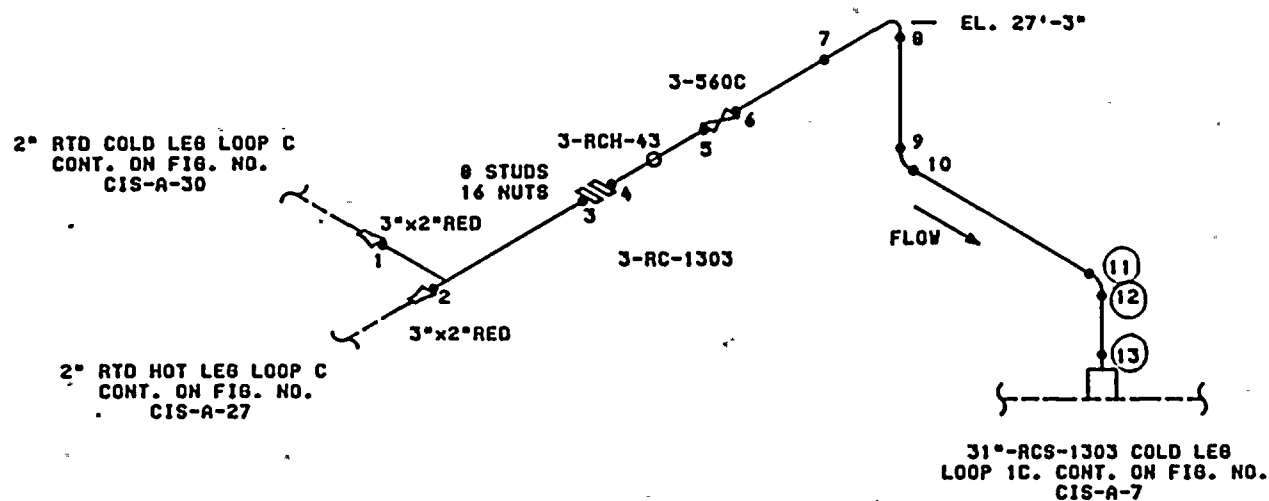
SCALE: NONE	APPROVED BY: <i>J. Anderson</i>	DRAWN BY JHE
DATE: 3-7-85		REVISED

3" RTD FROM 31"-RCS-1302 CROSSOVER  
COLD LEG 18 TO 29"-RCS-1303 HOT LEG  
LINE NUMBER: 3"-RC-1302

FPL CAD DRAWING NUMBER CIS-A-18

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE 023
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SIZE	MATERIAL SCH	SPECS TYPE
3"	160	A376, TP316 SMLS
2"	160	A376, TP316 SMLS

CALIBRATION BLOCK  
REFERENCE DRAWING:  
3177-102-SK-P-617C  
3610-FSK-M-421A  
3610-M-410-202 SH.2 OF 2  
E2J86-VIC-11

REV

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: <i>NONE</i>	APPROVED BY: <i>J. Anderson</i>	DRAWN BY <i>JHG</i>
DATE: <i>3-7-85</i>		REVISED

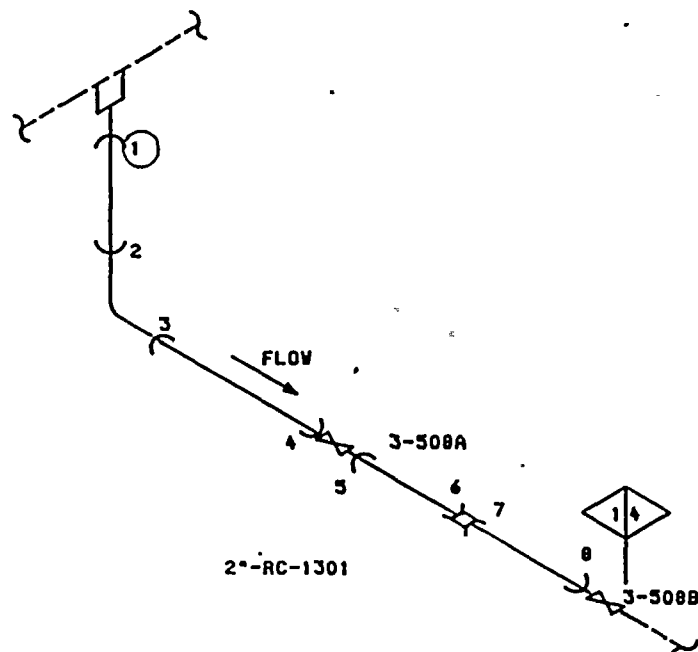
3" RTD RETURN LOOP C FROM  
31"-RCS-1303 COLD LEG  
LINE NUMBER: 3"-RC-1303

FPL	CAD	DRAWING NUMBER	CIS-A-19
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[illegible]

DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	024
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31\*-RCS-1301 COLD LEB LOOP 1A.  
CONT. ON FIG. NO. CIS-A-1



SIZE	MATERIAL	SCH	SPECS	TYPE
2"				

**CALIBRATION BLOCK  
REFERENCE DRAWING:**

REV

5610-M-410-202 SH.2 OF 2

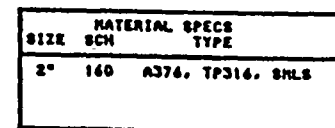
**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Ambrose</i>	DRAWN BY JMG
DATE: 3-7-85		REVISED

2" DRAIN LINE FROM COLD LEG  
LOOP 1A  
LINE NUMBER: 2"-RC-1301

FPL	CAD	DRAWING NUMBER	CIS-A-22
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[illegible]



**CALIBRATION BLOCK  
REFERENCE DRAWING:  
BECHTEL 3177-102-SK-  
3177-102-SK-P-610  
CL386-UHC-11A  
3610-FSK-M-419A, 400A  
3610-M-410-202**

REV  
C  
H

SH. 2 OF 2

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: N/A	APPROVED BY: <i>J. P. Anderson</i>	DRAWN BY: JMB
DATE: 3-7-85		REVISED:

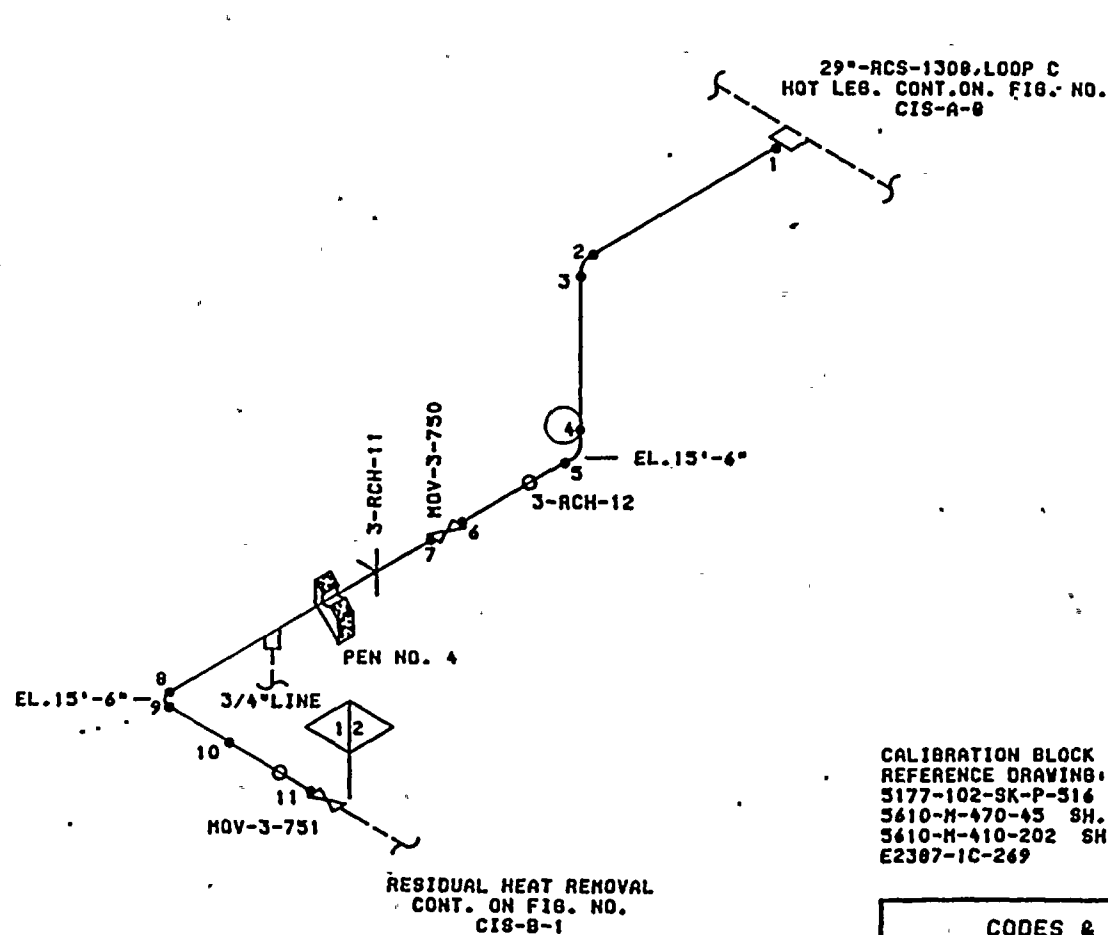
2" RTD LOOP A HOT LEG FROM  
29"-RCS-1304  
LINE NUMBER: 2"-RC-1304

FPL CAD DRAWING NUMBER CIS-A-25

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	034
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SIZE	MATERIAL SCH	SPECS TYPE
14"	140	A376, TP316

CALIBRATION BLOCK  
REFERENCE DRAWING:  
3177-102-SK-P-316  
5610-M-470-45 SH.4 OF 4  
5610-M-410-202 SH.2 OF 2  
E2387-1C-269

REV  
A

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE  
DATE: 3-7-85

APPROVED BY: *J. P. Carlson*

DRAWN BY JHG REVISED
-------------------------

RESIDUAL HEAT REMOVAL FROM  
29"-RCS-1108, HOT LEG LOOP C  
LINE NUMBER: 2"-RC-1303

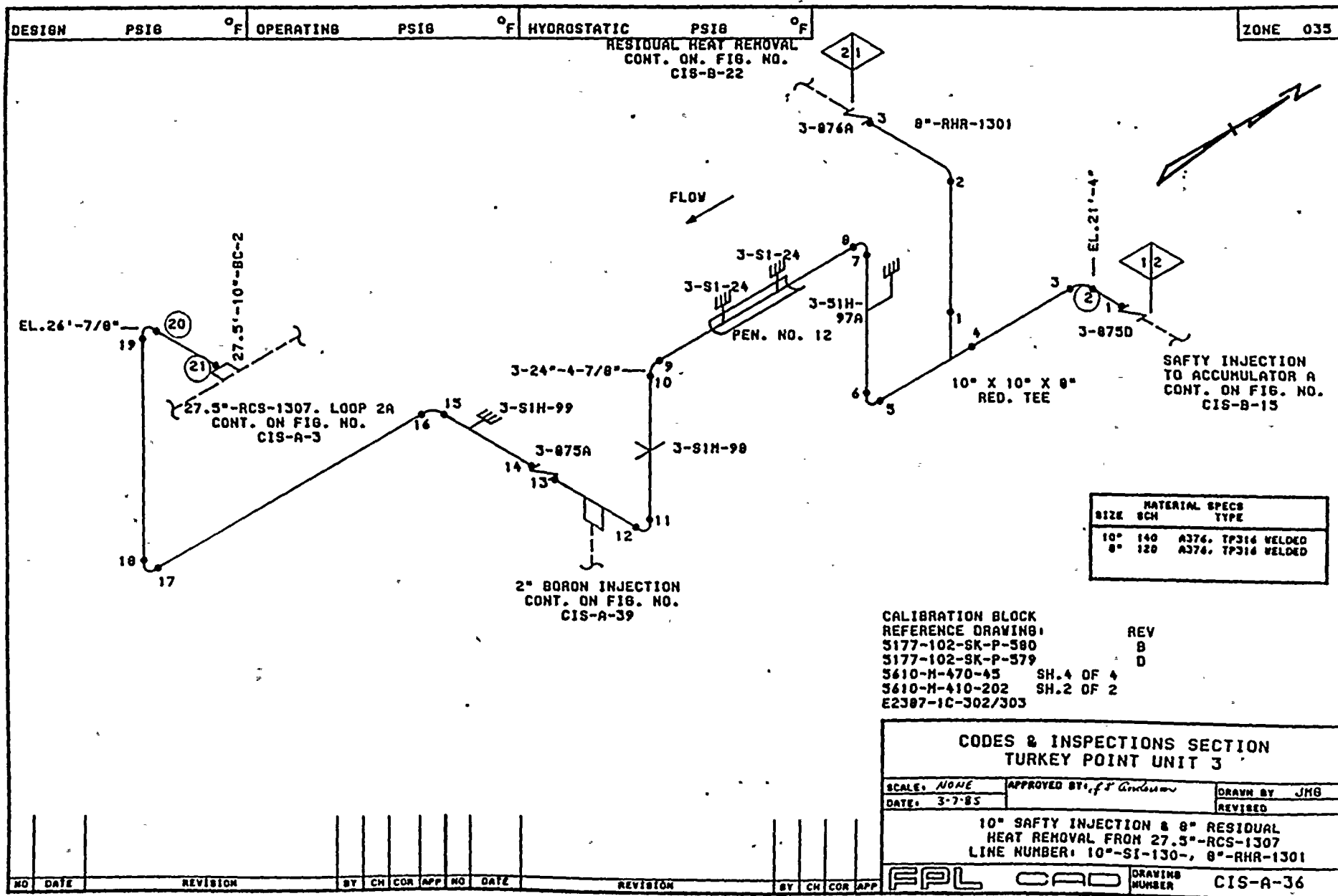
FPL CAD

DRAWING NUMBER	CIS-A-35
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[illegible]











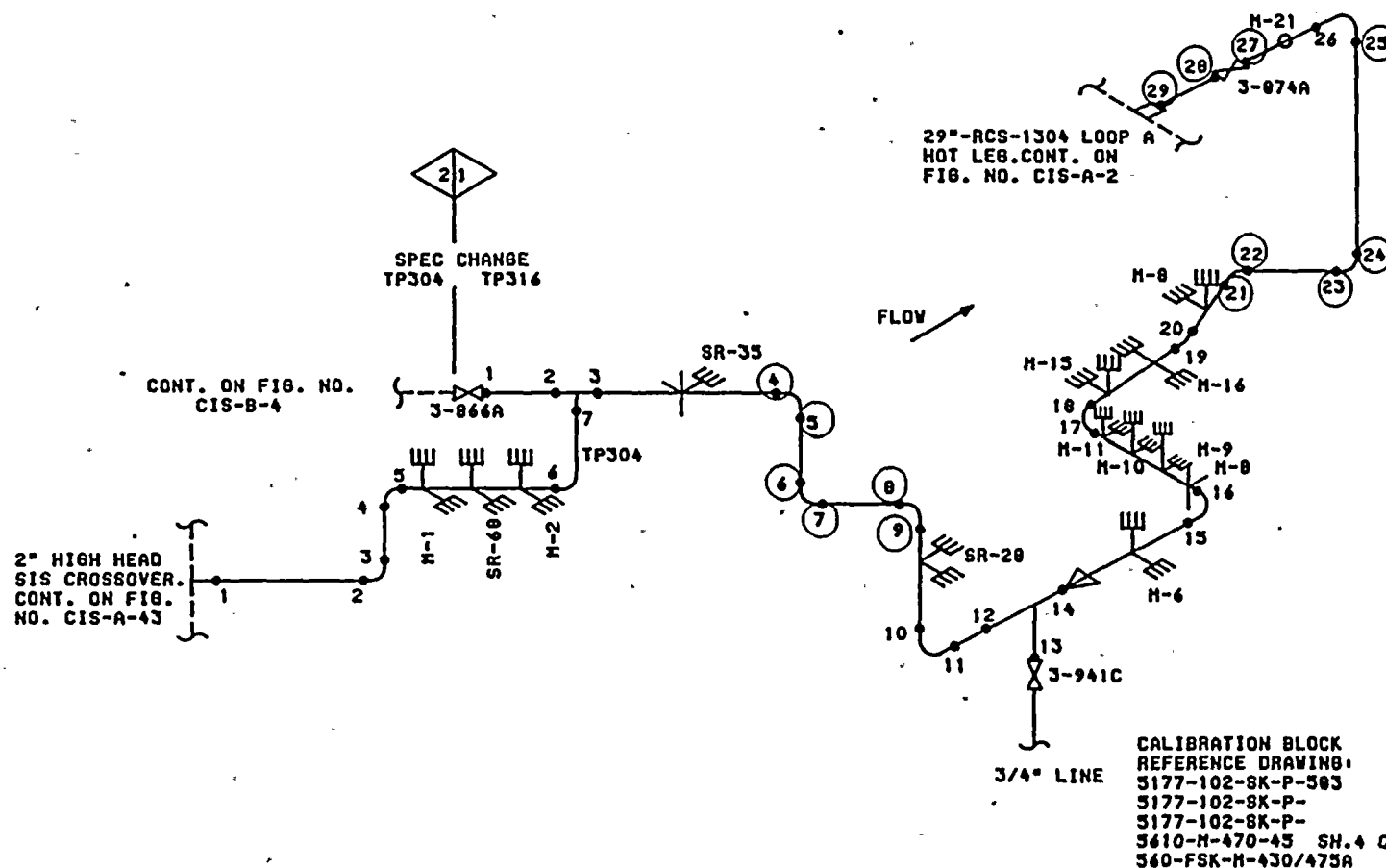












SIZE	MATERIAL SCH	SPEC TYPE
2"	160	A376, TP316 SMLS
3"	808	A312, TP316 SMLS
2"	160	A312, TP304 SMLS

CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-8K-P-503  
5177-102-8K-P-  
5177-102-8K-P-  
5610-M-470-45 SH.4 OF 4  
560-FSK-M-430/475A

REV  
D

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE  
DATE: 3-7-85

APPROVED BY: *J. S. Anderson*

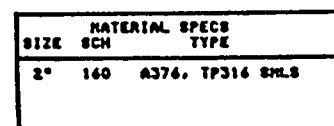
DRAWN BY JMB REVISED
-------------------------

2" HIGH HEAD SAFETY INJECTION  
LOOP A, FROM 29"-ACS-1304  
LINE NUMBER: 2"-SI-1304, 2"-SI-1305

FPL	CAD	DRAWING NUMBER	CIS-A-42
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[illegible]





**CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-8K-P-513  
5177-102-8K-P-  
5177-102-8K-P-  
5610-FSK-M-438A  
5610-M-410-202 SHT.1 OF 2  
5610-M-420-214 SHT.3 OF 3**

REV  
C

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

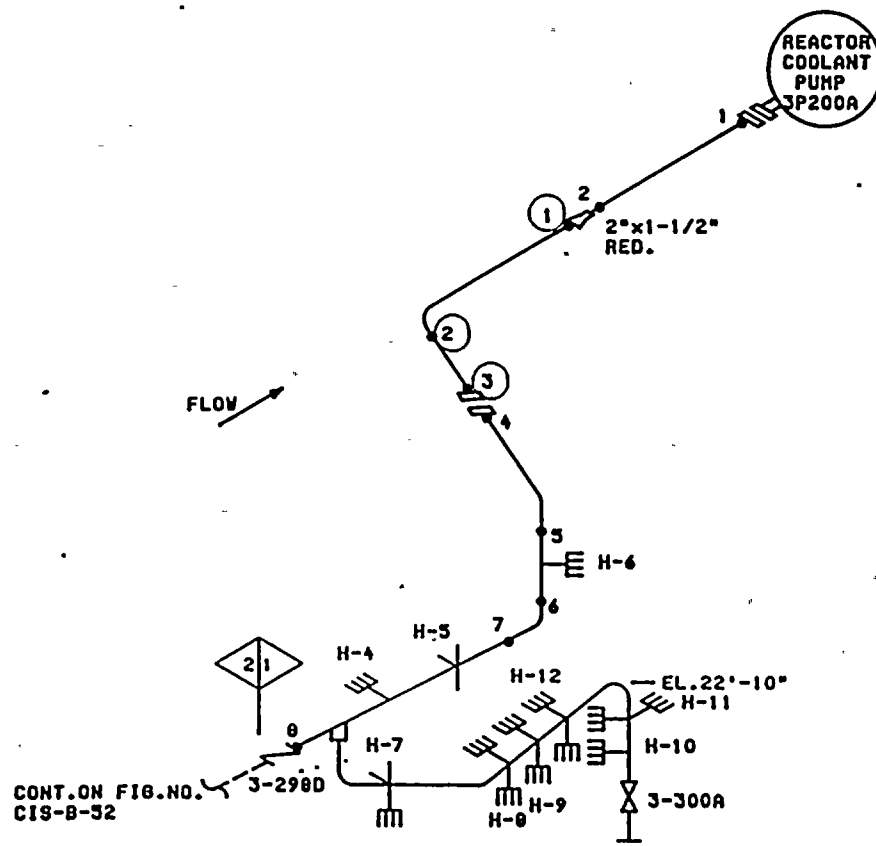
SCALE: NONE	APPROVED BY: <i>J.S. (signature)</i>	DRAWN BY: JMS
DATE: 3-7-85		REVISED

2" LETDOWN LINE FROM 27.5"-RCS-1306 COLD LEG,  
 LOOP 2B TO REGENERATIVE HEAT EXCHANGER 3E200  
 LINE NUMBER: 2"-CH-1301

EPL	CAD	DRAWING NUMBER	CIS-A-47
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NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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SIZE	MATERIAL	SPEC	TYPE
2"	160	A376,	TP316 SMLS
1.5"	160	A376,	TP316 SMLS

CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-SK-P-651  
5177-102-SK-P-650  
5177-102-SK-P-  
5610-M-420-214 SHT.3 OF 3

REV  
C  
B

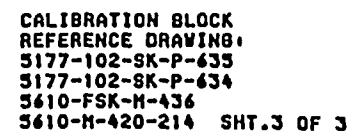
**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY JMB
DATE: 3-7-85		REVISED

CHEMICAL & VOLUME CONTROL 2" SEAL INJECTION  
LOOP A, FROM RCP 3P200A LINE  
LINE NUMBER: 2"-CH-1303, 1.5"-CH-1302

FPL CAD DRAWING NUMBER CIS-A-49

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR
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**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY JMG
DATE: 3-7-85		REVISED

CHEMICAL & VOLUME CONTROL 2" SEAL INJECTION  
LOOP C, FROM RCP 3P200C  
LINE NUMBER: 2"-CH-1304, 1.5"-CH-1302

FPL CAD DRAWING NUMBER CIS-A-50

[illegible]





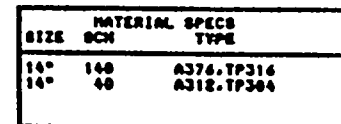




## APPENDIX B

### CLASS 2 ISOMETRIC DRAWINGS

DRAWING NUMBER	TITLE
CIS-B-1	RHR LOOP A
CIS-B-3	RHR
CIS-B-4	RHR
CIS-B-5	RHR
CIS-B-7	RHR LOOP A DISCHARGE
CIS-B-12	SAFETY INJECTION FROM RWST
CIS-B-14	RHR
CIS-B-20	SAFETY INJECTION
CIS-B-22	SAFETY INJECTION LOOP C
CIS-B-23	SAFETY INJECTION LOOP B
CIS-B-26	SAFETY INJECTION TO PUMPS A & B
CIS-B-27	LOW HEAD SAFETY INJECTION
CIS-B-57	MAIN STEAM LOOP A
CIS-B-58	MAIN STEAM LOOP A
CIS-B-61	MAIN STEAM LOOP C
CIS-B-66	MAIN FEEDWATER LOOP A
CIS-B-67	MAIN FEEDWATER LOOP B
CIS-B-69	AUXILIARY FEEDWATER
CIS-B-72	BLOWDOWN LOOP A
CIS-B-73	BLOWDOWN LOOP A
CIS-B-78	CONTAINMENT SPRAY FROM PUMP A



SCHEDULE CHANGE  
CLASS 1 140  
CLASS 2 40

**CALIBRATION BLOCK  
REFERENCE DRAWINGS:  
5610-M-470-45  
5177-102-SK-P-516  
5177-102-SK-P-365  
E2307-1C-269**

REV: SH.4 OF 4

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT #3**

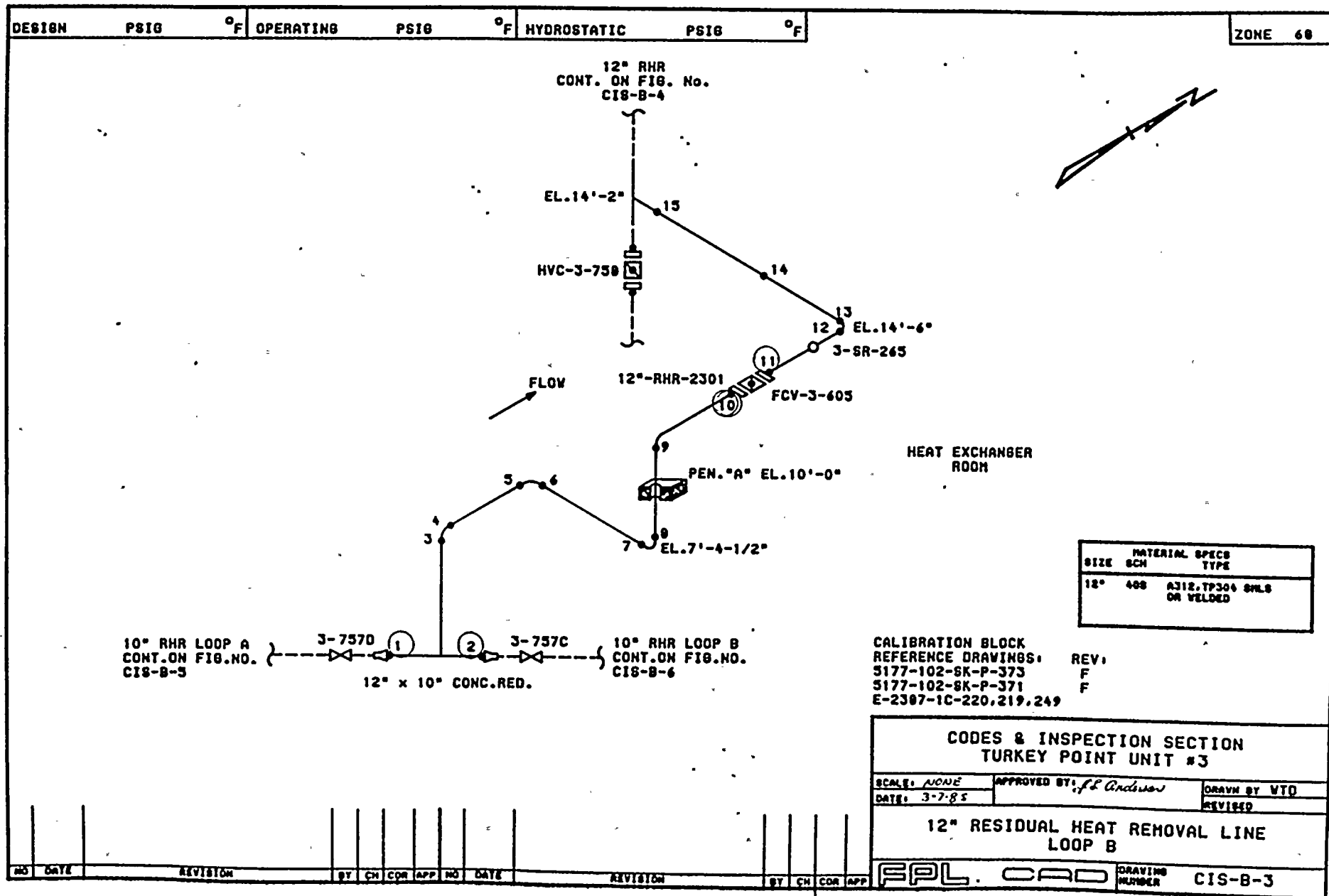
SCALE: 1/4" = 1'	APPROVED BY: <i>[Signature]</i>	DRAWN BY: WTD
DATE: 3-7-85		REVISED

14 RESIDUAL HEAT REMOVAL TO RHR  
PUMP 3P210A LOOP A

FPL CAD DRAWING NUMBER CIS-B-1

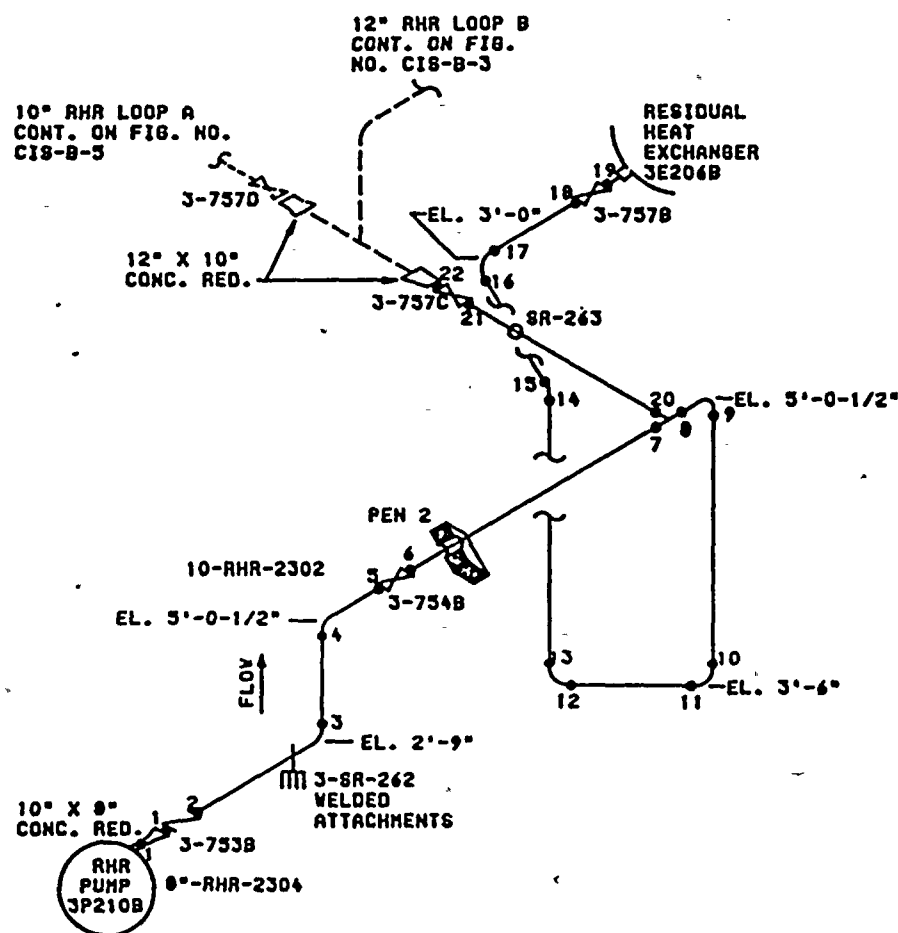
[illegible]











SIZE	MATERIAL SPEC	TYPE
10" 0"	406	A-312, 304 S.S.

**CALIBRATION  
REFERENCE DRAWING:  
5177-102-8K-P-371  
5177-102-8K-P-372  
E2307-1C-220**

REV  
F  
C

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE

DATE: 3-7-85

APPROVED BY: *J.P. GARDNER*

**DRAWN BY J.A.F.**

REVISED

8" & 10" RESIDUAL HEAT REMOVAL  
FROM RHR PUMP 3P210B TO RESIDUAL  
HEAT CHANGER 3E206B LOOP B

FPL . CAD

DRAWING NUMBER	
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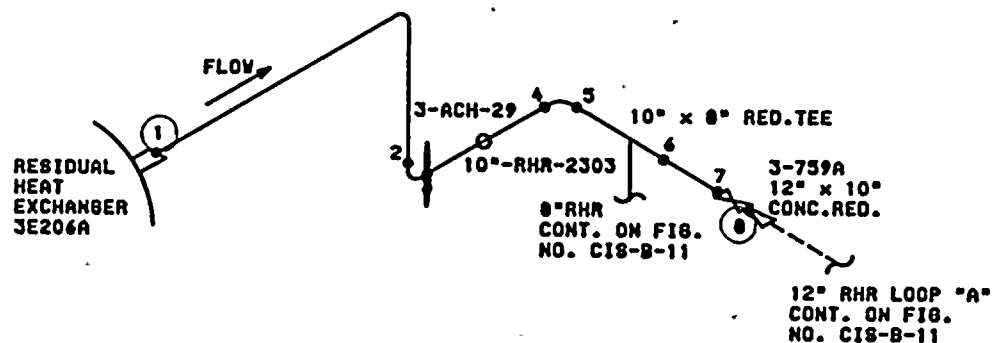
**CIS-B-6**

[illegible]



DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F
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**ZONE 72**



SIZE	MATERIAL	BRACE TYPE
10"	400	A312, TP304

CALIBRATION BLOCK  
REFERENCE DRAWINGS: REF:  
3177-102-SK-P-374 F  
E-2307-1C-221

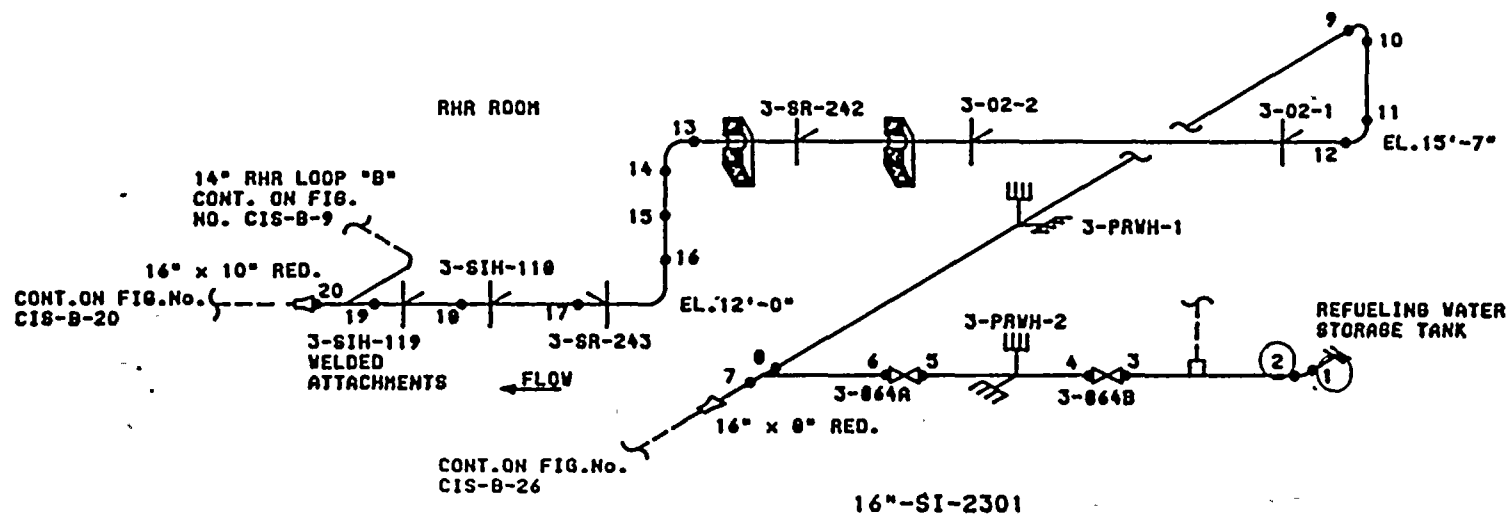
**CODES & INSPECTION SECTION,  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. P. Anderson</i>	DRAWN BY: WTD
DATE: 3-7-85		

10" RESIDUAL HEAT REMOVAL RHR H7  
EXCHANGER JE206A DISCHARGE  
LINE LOOP "A"

FPL	CAD	DRAWING NUMBER	CIS-B-7
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NO	DATE	REVISION	BY	CH	CON	APP	NO	DATE	REVISION	BY	CH	CON	APP
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SIZE	MATERIAL	SSACS TYPE
16"	408	A-312, TP304

CALIBRATION BLOCK REF:  
REFERENCE DRAWINGS: E  
5177-102-8K-P-350 A  
E-2307-1C-340

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. L. Arduan</i>	DRAWN BY: WTD
DATE: 3-7-85		REVISED:

16" SAFETY INJECTION FROM THE  
REFUELING WATER STORAGE TANK  
LOOP "B"

FPL. CAD DRAWING NUMBER CIS-8-12

[illegible]



CIS-B-20

DESIGN	P816	°F	OPERATING	P816	°F	HYDROSTATIC	P816	°F	ZONE 02
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10" x 8" RED.

3-H8R-210-3

3-8R-240

WELDED ATTACHMENTS 3-SIH-17

WELDED ATTACHMENTS 3-SIH-16

16" x 10" RED.

16" x 14" TEE

10"-SI-2306

14" RHR LOOP "B" CONT. ON FIG. NO. CIS-B-9

3-HOV-062A

16" SI LOOP "B" CONT. ON FIG. NO. CIS-B-12

MATERIAL SPECS	
SIZE	QCN
10"	106

CALIBRATION BLOCK  
REFERENCE DRAWINGS:  
5177-102-8K-P-539  
E-2387-1C-210  
FPL TKY-3.4-P-P-SI-0003

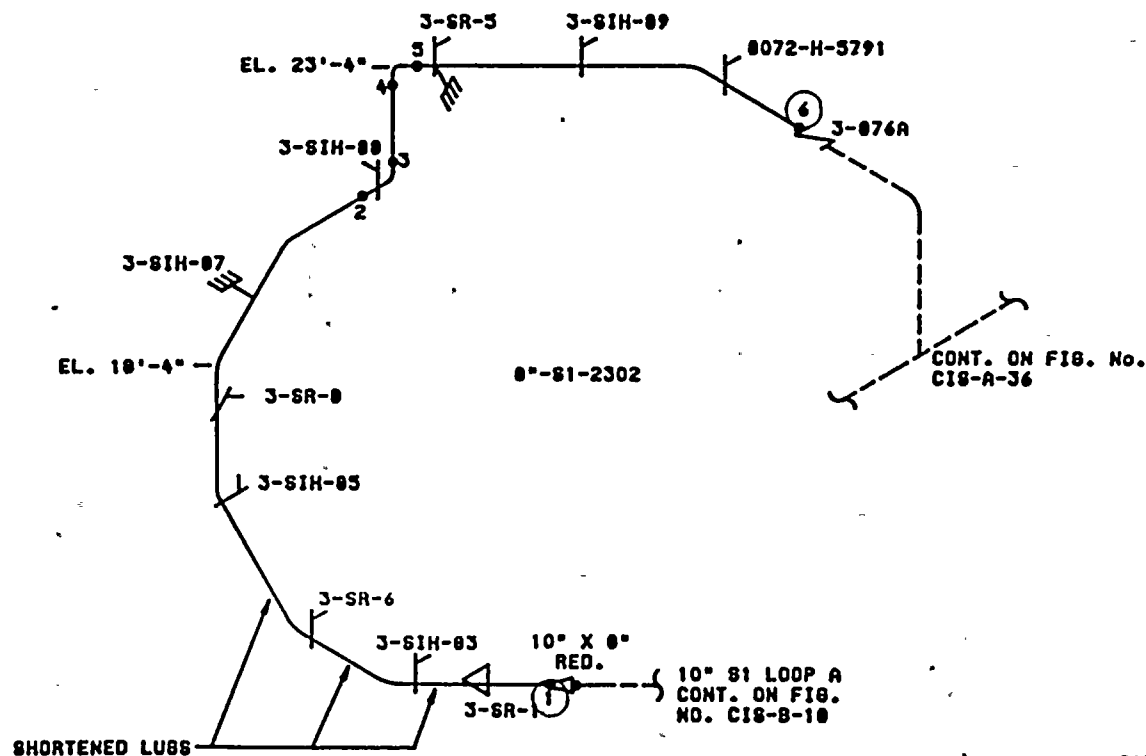
REF:

CODES & INSPECTION SECTION TURKEY POINT UNIT 3			
SCALE: NONE	APPROVED BY: <i>J.L. Carbone</i>	DRAWN BY: VTD	
DATE: 3-7-85		REVISED	
10" SAFETY INJECTION			
FPL CAD		DRAWING NUMBER	CIS-B-20

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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SIZE	MATERIAL	SPECS	TYPE
8"	120	A376	316SS SEAMLESS

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-8K-P-579  
E-2307-1C-302,303  
5171-102-8K-P-544**

REV:  
D

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE  
DATE: 3-7-85

APPROVED BY: *J. S. Anderson*

DRAWN BY J.A.F.  
REVISED

### 8" SAFETY INJECTION LOOP "A"

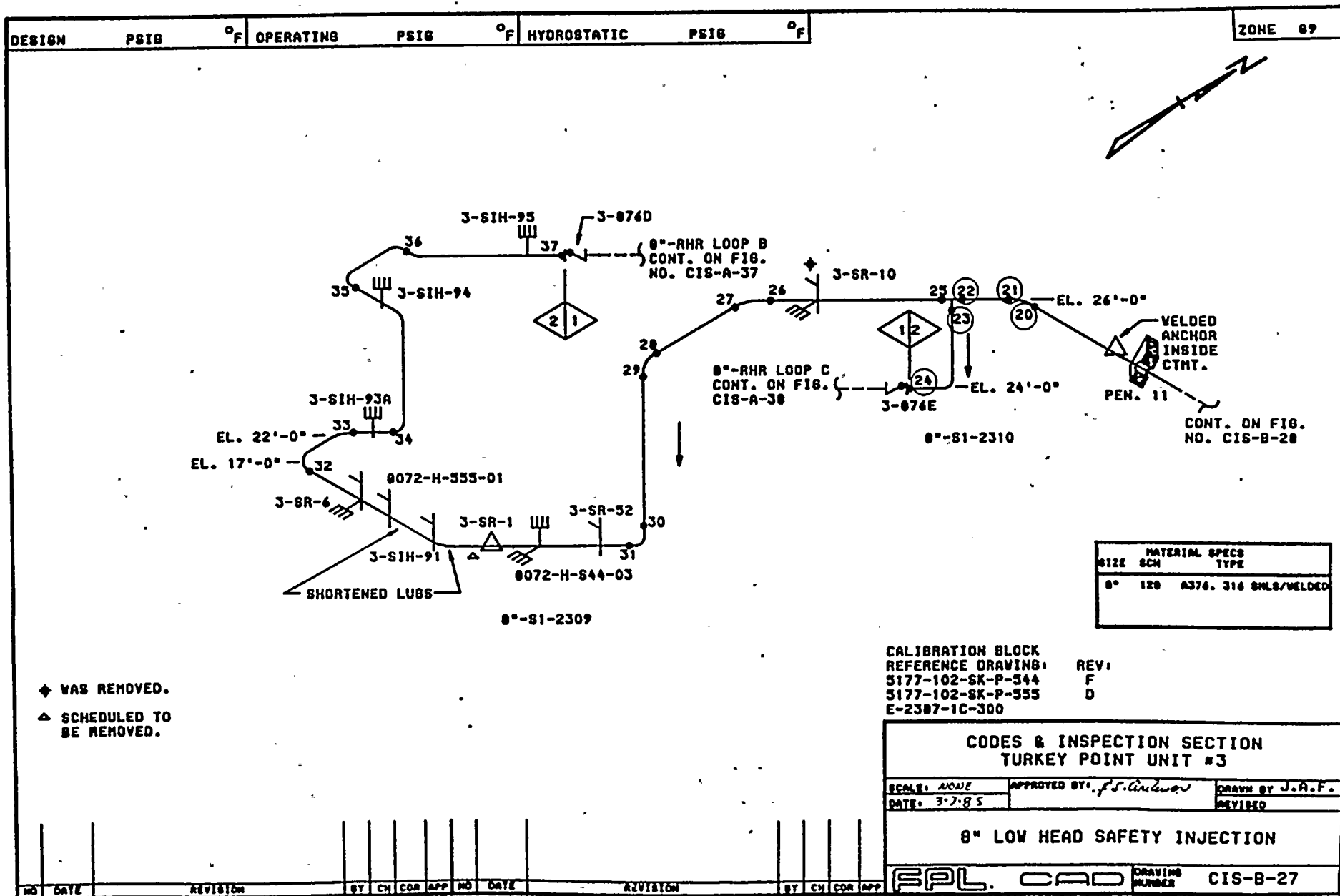
FPL. CAD

DRAWING NUMBER	CIS-B-22
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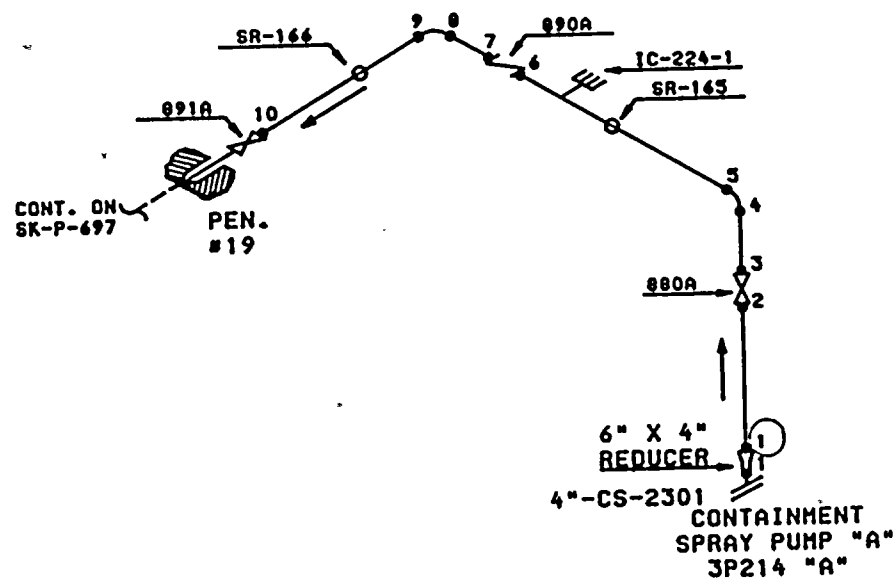
[illegible]











6"-CS-2301

SIZE	MATERIAL	SPECS
	SCH	TYPE
6"	408	A312. 304
4"	408	A312. 304

**CALIBRATION BLOCK  
REFERENCE DRAWING:  
5177-102-SK-P-323**

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: 40X  
DATE: 3-7-85

APPROVED BY: *J. S. Carlson*

DRAWN BY J.A.F.

REVIEWED

CONTAINMENT SPRAY PUMP 3P214A  
TO PENETRATION 19

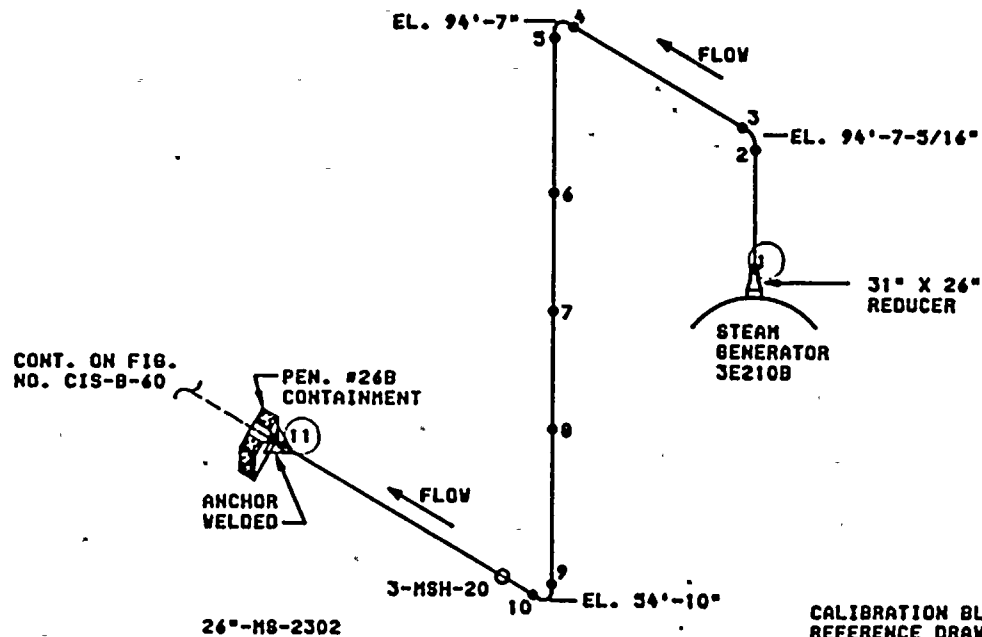
FPL CAD

DRAWING NUMBER	CIS-8-78
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NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE	99
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SIZE	MATERIAL	SPECS
	SCH	TYPE
31°		
24°		A155CL1

**CALIBRATION BLOCK  
REFERENCE DRAWING: 3177-8K-P-503**

CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3

SCALE: NONE  
DATE: 3-7-85

APPROVED BY: *J. Anderson*

Drawn by J. A. F.

REVIEWED

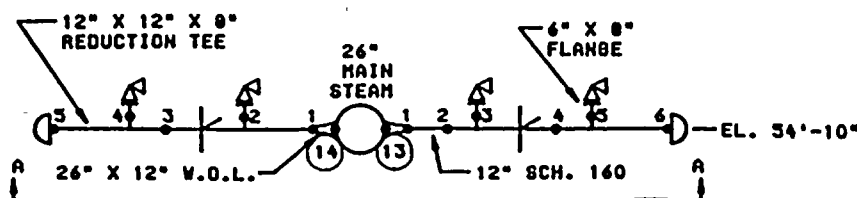
26" MAIN STEAM LOOP "B"  
INSIDE CONTAINMENT

FPL · CAD

DRAWING NUMBER	CIS-B-59
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NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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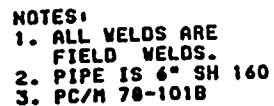




FPL. CAD	DRAWING NUMBER	CIS-8-60
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[illegible]





SIZE	MATERIAL SPEC	TYPE
6"	160	
21/2"	00	

REV  
5 1-11-84

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Galloway</i>	DRAWN BY: DAH
DATE: 3-7-85		REVISED

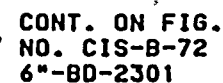
LOOP A-STEAM GENERATOR 3E210A  
BLOWDOWN(INSIDE CONTAINMENT)

EPL	CAD	DRAWING NUMBER	CIS-B-72
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NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR
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MATERIAL SPECS	
SIZE	TYPE
6"	160

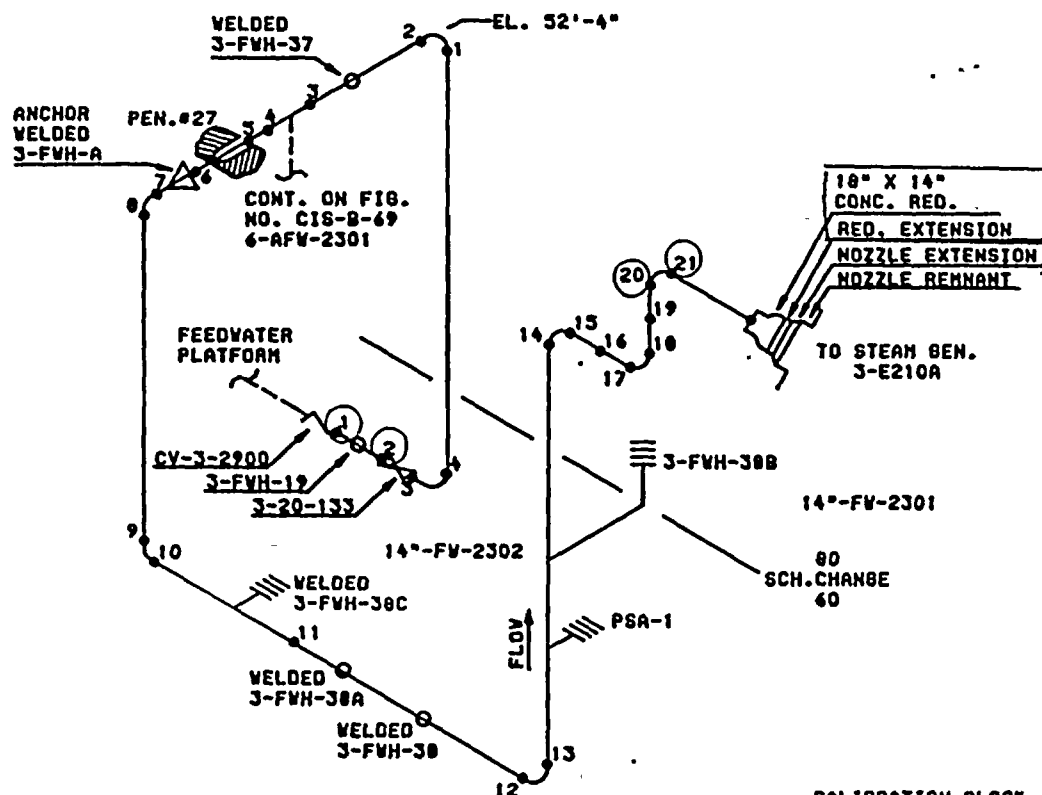
**6"-BD-2304**

FPL · C-27 DRAWING NUMBER CIS-8-73

[illegible]

CIS-B-66

DESIGN	PS18	°F	OPERATING	PS18	°F	HYDROSTATIC	PS18	°F	ZONE 109
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SIZE	SCH	MATERIAL SPEC	TYPE
14"	80	A-104C	
14"	40	A-104C	
18"			

CALIBRATION BLOCK  
REFERENCE DRAWING:  
S177-102-SK-P-110  
E-2387-1C-7

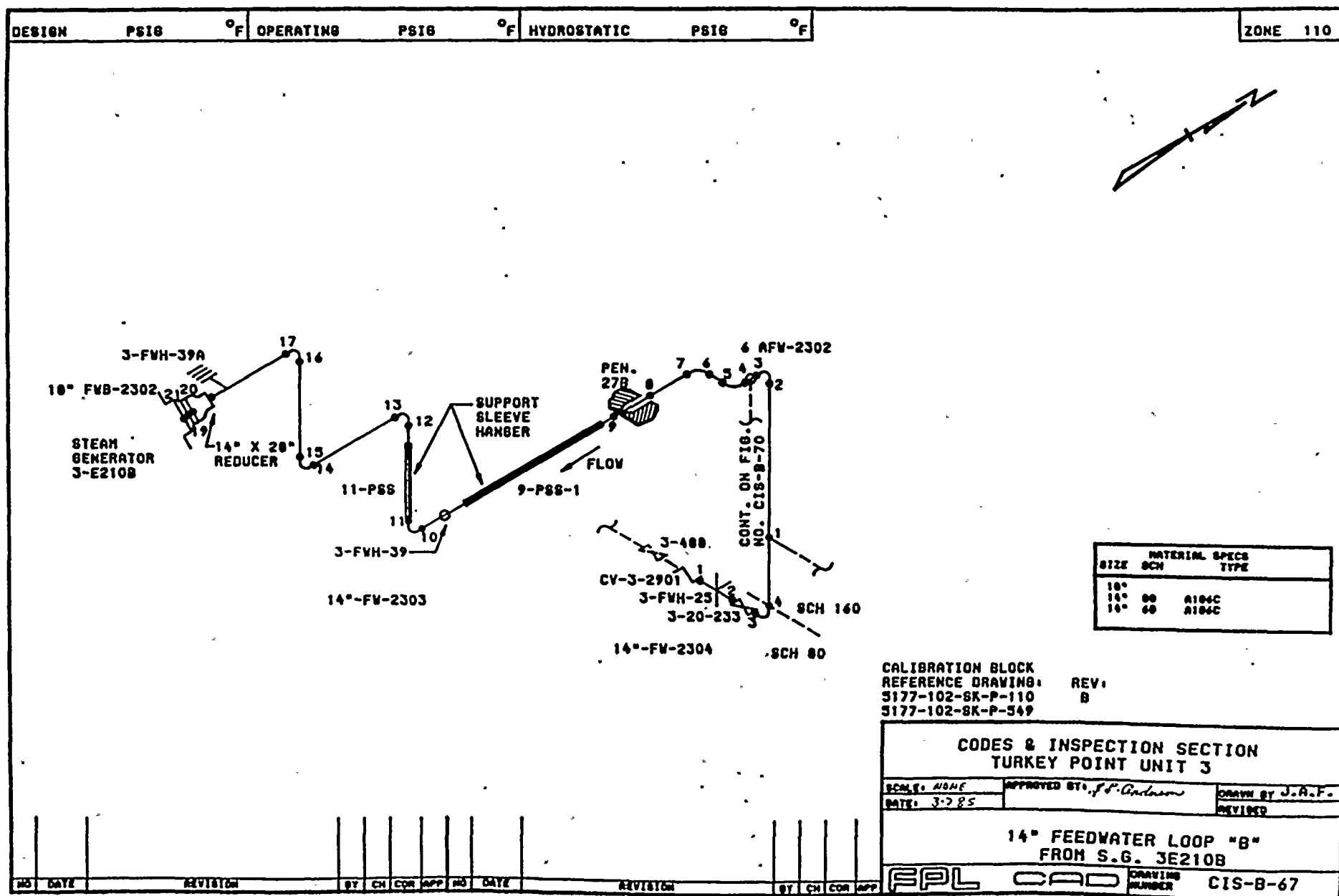
REV  
B

CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3

SCALE: NONE	APPROVED BY: <i>J. J. Anderson</i>	DRAWN BY: WTD
DATE: 3-7-85		REVISED

14" FEEDWATER LOOP "A"

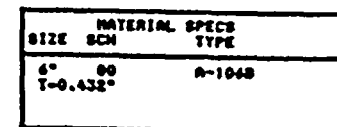
NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP	FPL	CAD	DRAWING NUMBER	CIS-B-66
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[illegible]





**CALIBRATION BLOCK  
REFERENCE DRAWING:  
3177-102-SKP-110  
E-2306-IC-14  
FPL-TKY-J-P-P-FW-0015**

REV  
RB

**CODES & INSPECTIONS SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE  
DATE: 3-7-85

APPROVED BY: *J. S. Anderson*

DRAWN BY DAH  
 REVISED

6" AUX. FEEDWATER  
LOOP "A"

FPL

CASE

5	DRAWING NUMBER
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**CIS-B-69**

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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## APPENDIX C

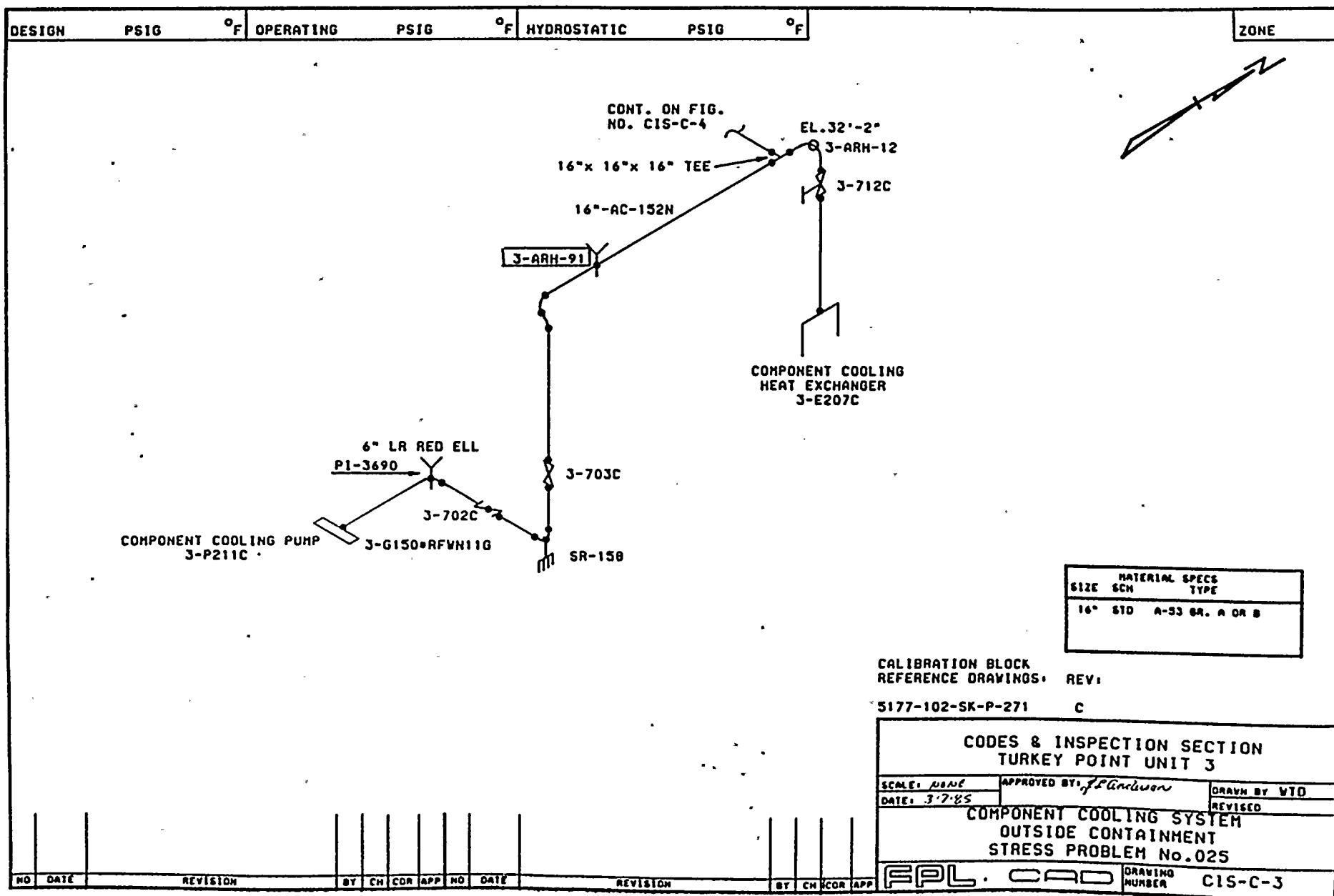
### CLASS 3 ISOMETRIC DRAWINGS

DRAWING NUMBER	TITLE
CIS-C-10	COMPONENT COOLING LOOP A
CIS-C-12	COMPONENT COOLING
CIS-C-18	AUXILIARY COOLANT
CIS-C-19	COMPONENT COOLING
CIS-C-20	COMPONENT COOLING
CIS-C-24	COMPONENT COOLING
CIS-C-27	COMPONENT COOLING





CIS-PAPER 6/85



MATERIAL SPEC		
SIZE	SCH	TYPE
16"	STD	A-33 GR. A OR B

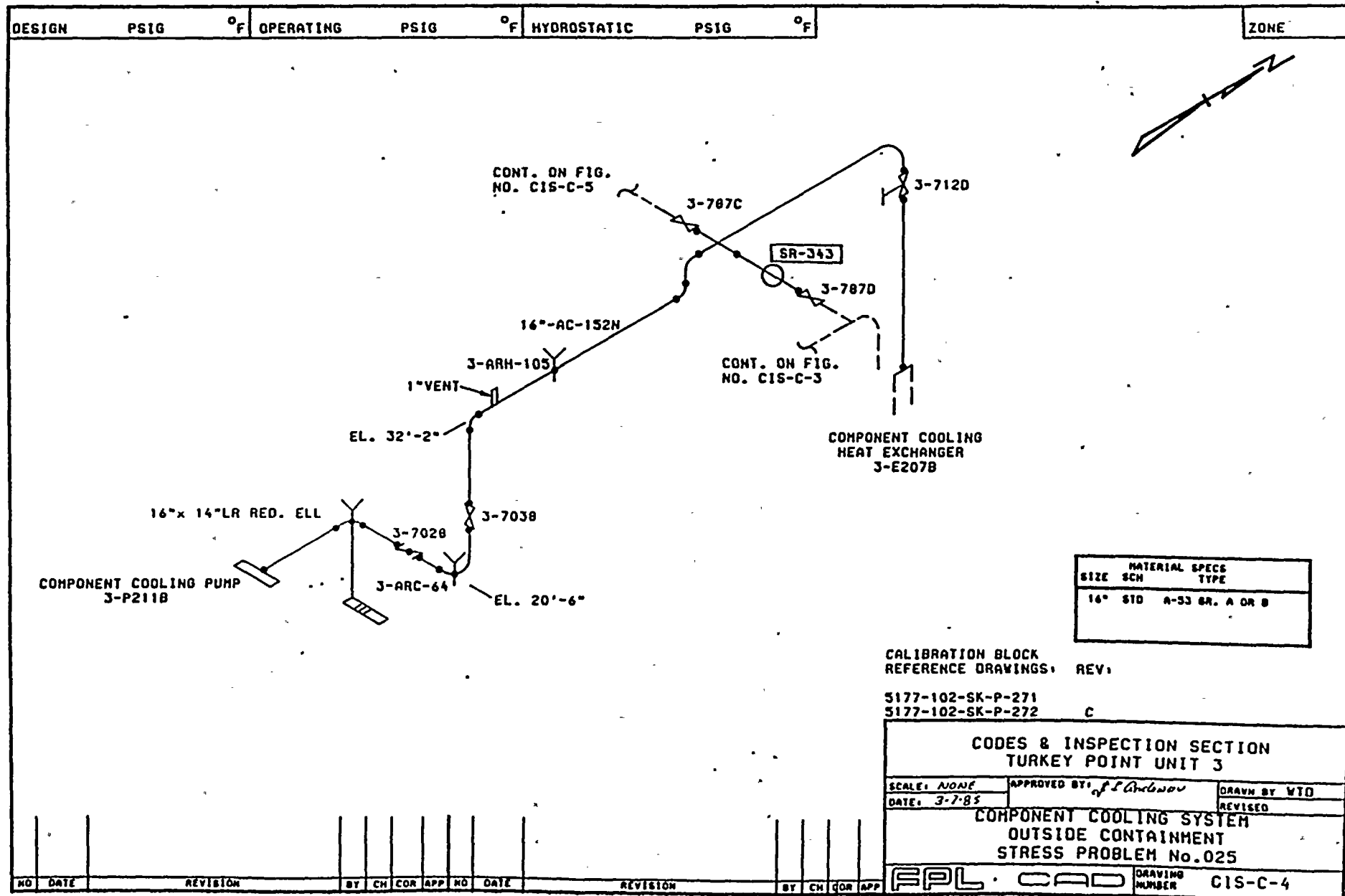
CALIBRATION BLOCK  
 REFERENCE DRAWINGS: REV:  
 5177-102-SK-P-271 C

CODES & INSPECTION SECTION TURKEY POINT UNIT 3			
SCALE: NONE	APPROVED BY: <i>J. Anderson</i>		DRAWN BY: WTD
DATE: 3-7-85			REVISED
COMPONENT COOLING SYSTEM OUTSIDE CONTAINMENT STRESS PROBLEM No.025			
FPL CAD		DRAWING NUMBER	CIS-C-3

DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F
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ZONE

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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MATERIAL SPECS	
SIZE	SCH TYPE
16"	STD A-33 GR. A OR B

**CALIBRATION BLOCK  
REFERENCE DRAWINGS: REV:**

**5177-102-SK-P-272**

**5177-102-SK-P-273**

C

CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3

SCALE: NONE

APPROVED BY: E. W. GARDNER

DATE: 3-7-91

**DRAWN BY WTD**

**REVISED**

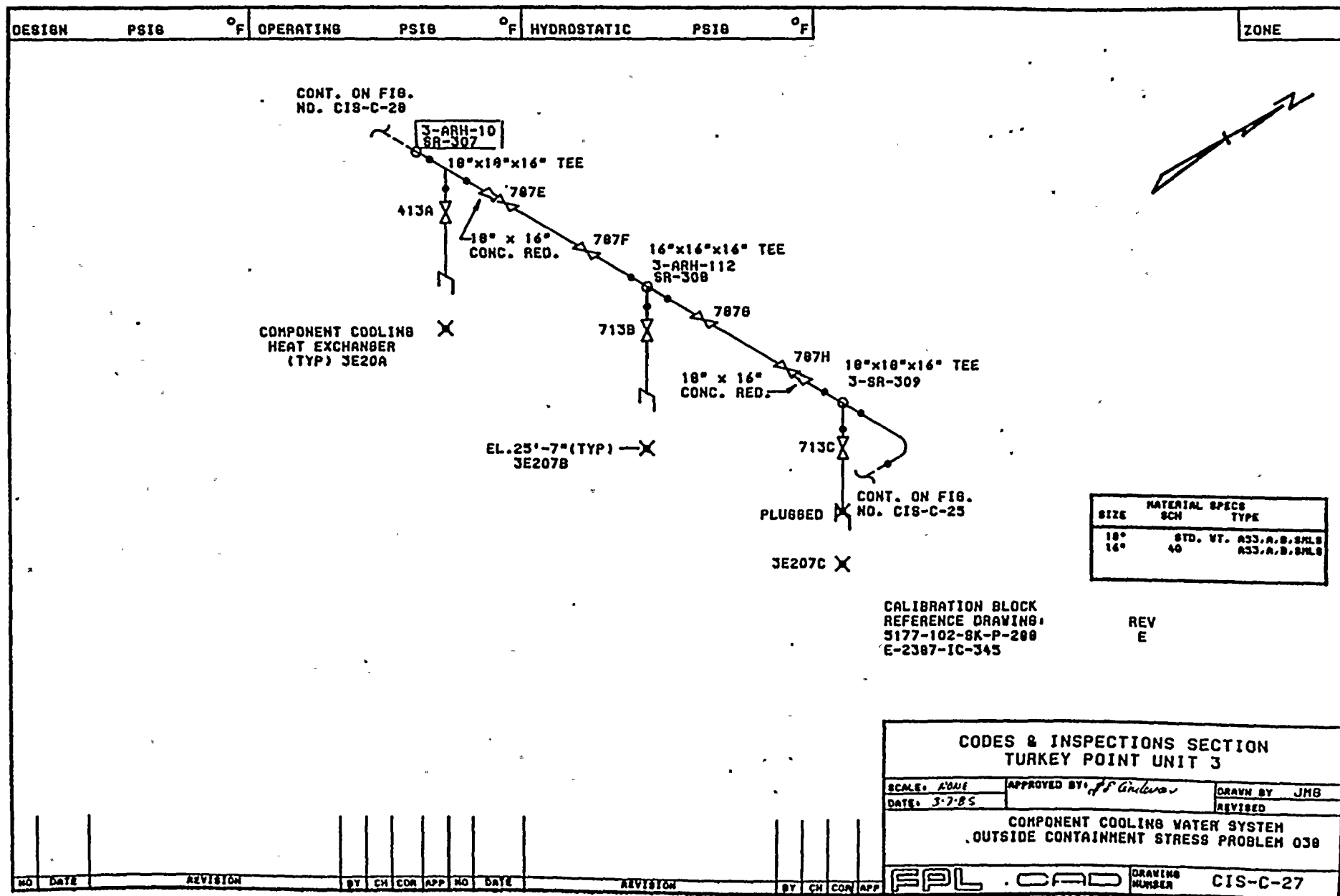
COMPONENT COOLING SYSTEM  
OUTSIDE CONTAINMENT  
STRESS PROBLEM No.025

FPL

CAD

0	DRAWING NUMBER
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C1S-C-5





**CALIBRATION BLOCK  
REFERENCE DRAWINGS: REV.**

5177-102-8K-P-323  
5177-102-8K-P-324  
5177-102-8K-P-325  
5177-102-8K-P-340  
5177-102-8K-P-369  
E-2387-1C-340

SIZE	MATERIAL	DRUGS	TYPE
12"	STD	A-33 A OR B ONLY	OR VELOD

**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

SCALE: NONE	APPROVED BY: <i>J. S. Anderson</i>	DRAWN BY: WTD
DATE: 3-7-85		CHECKED:

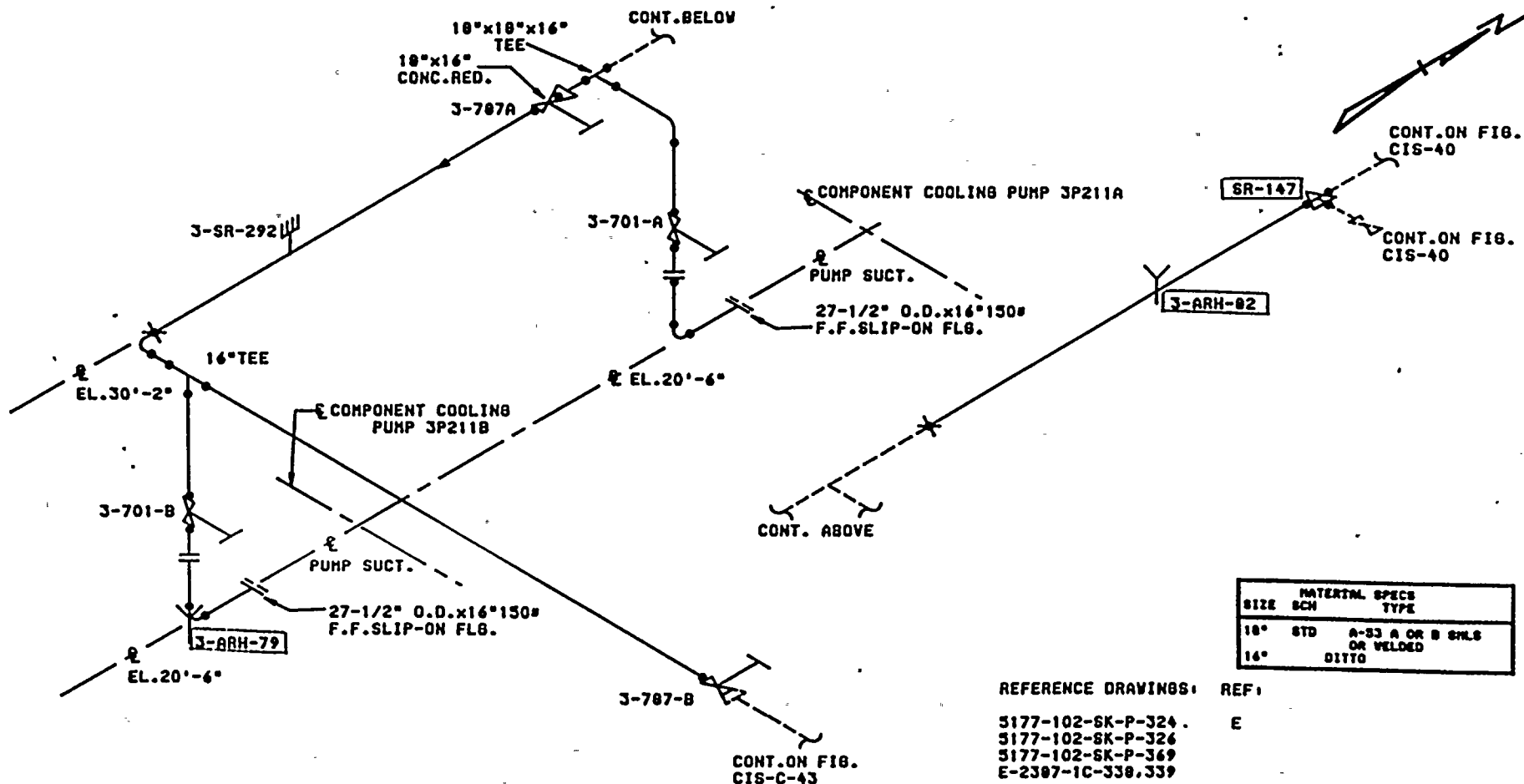
REVISION  
COMPONENT COOLING WATER SYSTEM  
OUTSIDE CONTAINMENT  
STRESS PROBLEM CCW-27

FPL CAD DRAWING NUMBER CIS-C-40





DESIGN	PSIG	°F	OPERATING	PSIG	°F	HYDROSTATIC	PSIG	°F	ZONE
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SIZE	MATERIAL	SPEC TYPE
18"	STD	A-33 A OR B SMLS OR WELDED
16"	DITTO	

REFERENCE DRAWINGS: REF:

5177-102-SK-P-324 . E  
5177-102-SK-P-326  
5177-102-SK-P-369  
E-2307-1C-330,339

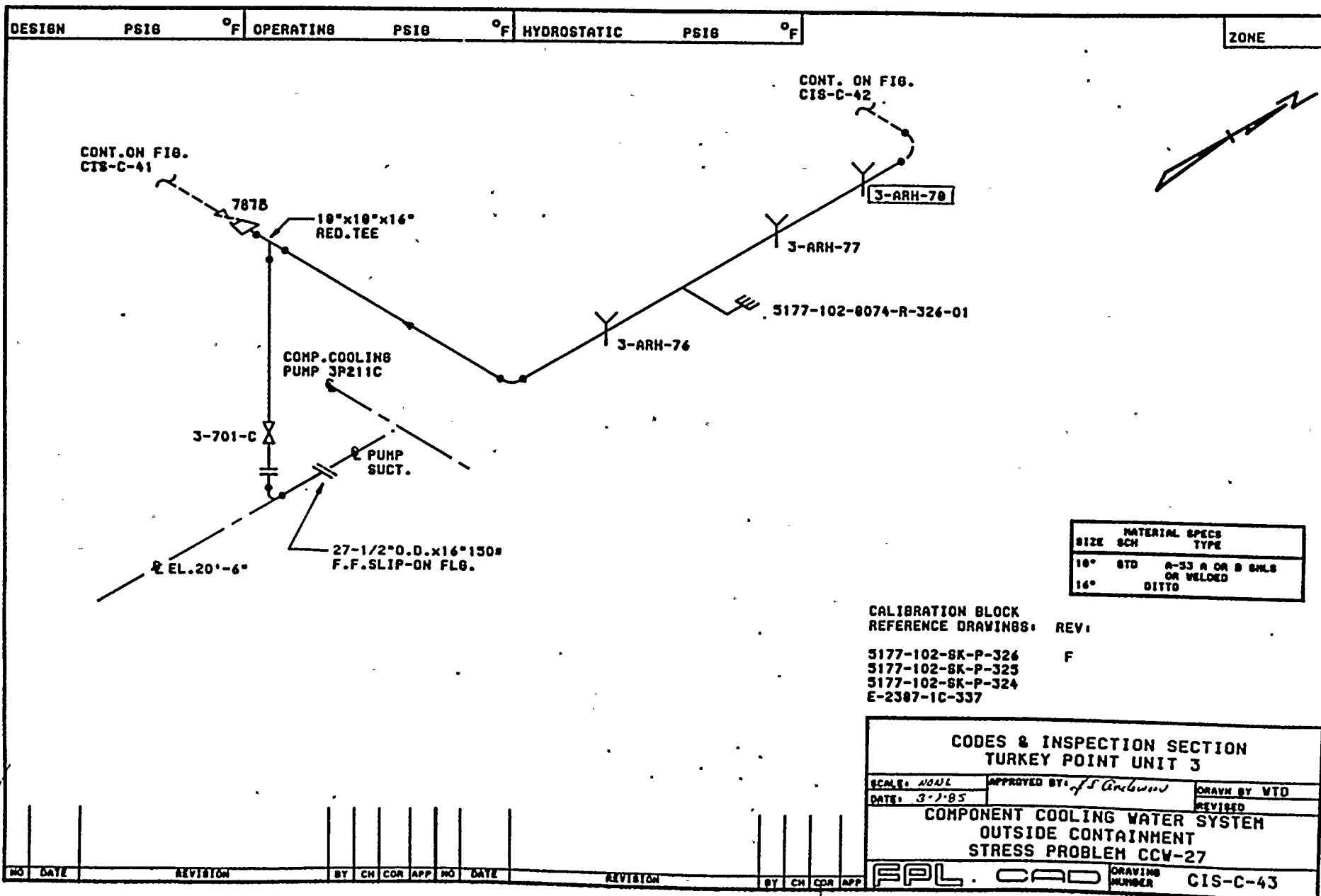
**CODES & INSPECTION SECTION  
TURKEY POINT UNIT 3**

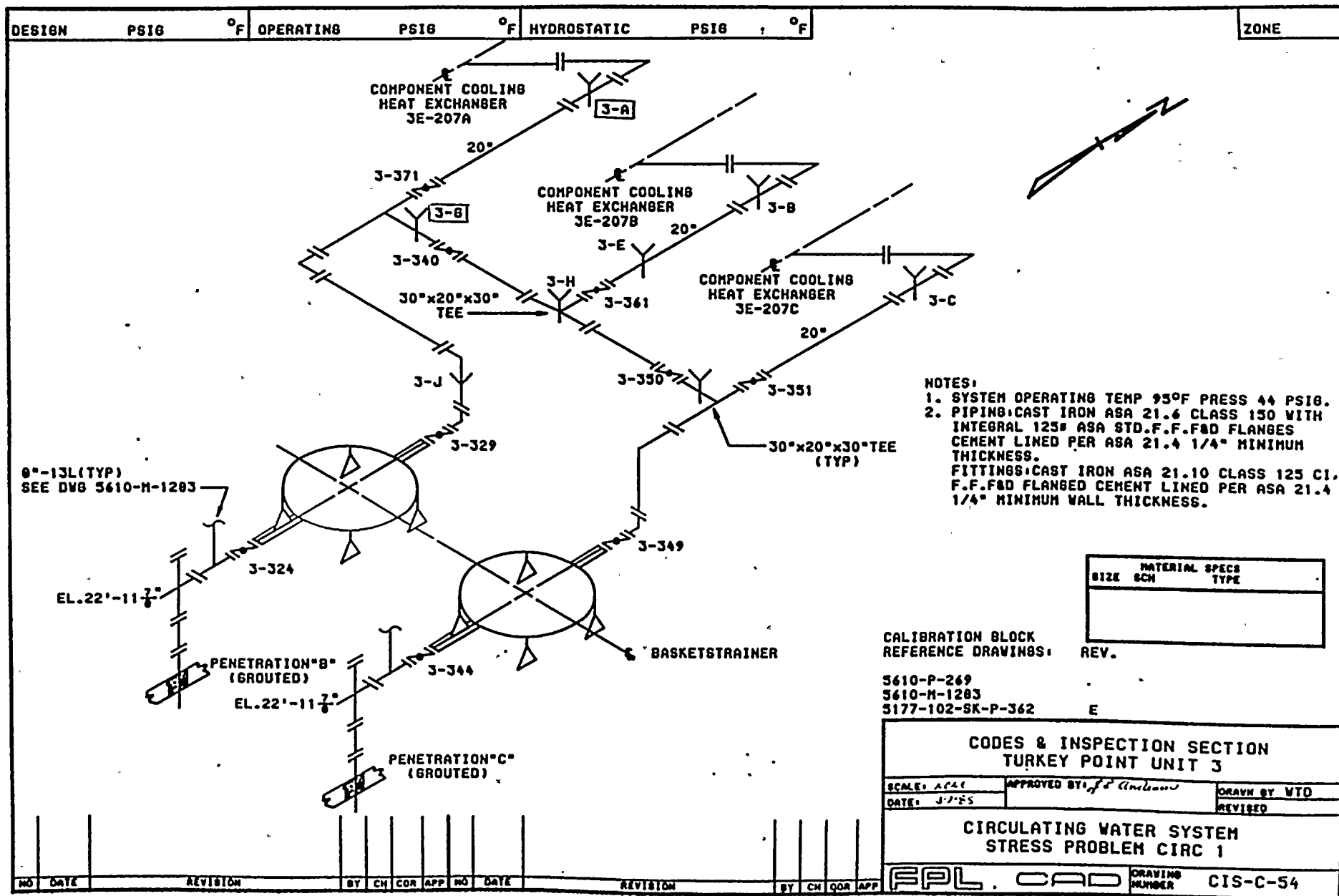
SCALE: NONE	APPROVED BY: <i>J. L. Anderson</i>	DRAWN BY: WTD
DATE: 3-7-85		REVISED:

REVISION  
COMPONENT COOLING WATER SYSTEM  
OUTSIDE CONTAINMENT  
STRESS PROBLEM CCW-27

FPL CAD DRAWING NUMBER CIS-C-41

NO	DATE	REVISION	BY	CH	COR	APP	NO	DATE	REVISION	BY	CH	COR	APP
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# APPENDIX F

## EXAMINATION PROCEDURES

PROCEDURE NUMBER	TITLE
NDE 2.2      REV. 0    FC-B	MAGNETIC PARTICLE EXAMINATION
NDE 3.3      REV. 0	LIQUID PENETRANT EXAMINATION SOLVENT REMOVABLE VISIBLE DYE TECHNIQUE
NDE 4.1      REV. 1    FC-A	VISUAL EXAMINATION ( VT-1 )
NDE 4.2      REV. 0	VISUAL EXAMINATION ( VT-2 )
NDE 4.3      REV. 0	VISUAL EXAMINATION ( VT-3/VT-4 )
NDE 5.0      REV. 2    FC-A	ULTRASONIC EXAMINATION GENERAL REQUIREMENTS
NDE 5.1      REV. 3    FC-A	UT PRESSURE VESSELS WELDS, EXCEPT RPV
NDE 5.2      REV. 2	UT FERRITIC PIPING WELDS
NDE 5.4      REV. 4	UT AUSTENITIC PIPING WELDS
NDE 5.5      REV. 1    FC-A	UT PRIMARY COOLANT PIPING WELDS
NDE 5.11     REV. 1	UT DISSIMILAR METAL WELDS
NDE 5.13     REV. 2	UT NOZZLE INNER RADIUS AREAS
NDE 5.16     REV. 1    FC-A	UT EVALUATION OF CRACKING IN STEAM GENERATOR FEEDWATER PIPING

# PTP-3 NDE EXAMINERS

NAME	UT	PT	MT	ET	VT-1	VT-2	VT-3	VT-4	EYE EXAM
FPL EXAMINERS									
ANDERSON, EDWARD L	III	N/A	III	N/A	III	III	III	III	10-15-84
CARR, FRANK T	III	III	III	N/A	N/A	N/A	N/A	N/A	3-18-85
LAKE, EDEWARD L	II	II	N/A	N/A	II	II	II	II	3-4-85
SILVERMAN, HECTOR J	II	II	N/A	N/A	II	II	II	II	4-19-85
NES EXAMINERS									
MURDOCK, DALE	III	N/A	N/A	N/A	II	II	II	II	1-3-85
ANDERSON, CLIFFORD A	I	II	II	N/A	N/A	N/A	N/A	N/A	8-7-84
DIETRICH, STEVEN R	II	II	N/A	N/A	II	II	II	II	11-9-84
FORSTER, GORDON	II	II	II	N/A	II	II	II	II	4-3-85
HACK, PAUL	I	II	II	N/A	II	II	II	II	1-24-85
RELLI, JOHN S	II	II	N/A	N/A	II	II	II	II	12-4-84
SAULTER, OWEN G	I	II	II	N/A	N/A	N/A	N/A	N/A	6-13-84

## NOTES:

I = LEVEL I EXAMINER

II = LEVEL II EXAMINER

III = LEVEL III EXAMINER

N/A = NOT REQUIRED OR DOES NOT HAVE A CERTIFICATION



# CALIBRATION BLOCKS

CALIBRATION BLOCK NO.

DESCRIPTION

UT - 7	STEAM GENERATOR
UT - 8	STEAM GENERATOR
UT - 12	MAIN REACTOR COOLANT LOOPS
UT - 13	STEAM GENERATOR
UT - 20	MAIN FEEDWATER
UT - 21	MAIN STEAM
UT - 22	S.G. BLOWDOWN
UT - 26	MAIN REACTOR COOLANT LOOPS
UT - 27	10" SAFETY INJECTION
UT - 29	18" MAIN FEEDWATER
UT - 30	14" RESIDUAL HEAT REMOVAL
UT - 34	12" REACTOR COOLANT
UT - 41	8" SAFETY INJECTION
UT - 45	4" REACTOR COOLANT
UT - 46	MAIN REACTOR COOLANT LOOPS
TP4-120-438-SS-4	4" REACTOR COOLANT



NONCONFORMANCE REPORTS  
TURKEY POINT UNIT NO. 3

NCR NO.	DATE ISSUED	DESCRIPTION OF NONCONFORMING CONDITION	DATE SHEET AFFECTED	PLANT ISSUED NCR NO.	REMARKS
85-003	4-22-85	WELD 12"-RHR-2301-10 LINEAR INDICATION	3.3-10	NCR 213-85	CLOSED 6-25-85
85-004	4-22-85	WELD 2"-CH-1305-4 LINEAR INDICATIONS	3.3-16,	NCR 214-85	CLOSED 6-25-85
85-005	4-22-85	WELD 2"-CH-1305-3 LINEAR INDICATIONS	3.3-15	NCR 215-85	CLOSED 6-25-85
85-006	4-23-85	WELD 12"-RHR-2302-25 LINEAR INDICATION	3.3-30	NCR 212-85	CLOSED 6-25-85
85-007	4-23-85	WELD 2"-CH-1304-3 LINEAR INDICATION	3.3-31	NCR 210-85	CLOSED 6-25-85
85-008	4-23-85	WELD 10"-RHR-2303-1 LINEAR & ROUNDED IND.	3.3-35	NCR 211-85	CLOSED 5-8-85
85-009	4-24-85	WELD 2"-SI-1305-28 NON-REVELANT INDICATIONS	3.3-38	NCR 222-85	CLOSED 7-3-85
85-010	4-26-85	SUPPORT 3-ARH-10A & B DEBRIS & VERIFY SETTINGS	4.3-10 4.3-9	NCR 223-85	CLOSED 7-3-85
85-011	4-26-85	SUPPORT 3-A & 3-B ERODED PLATE, MISSING ITEMS	4.3-7 4.3-8	NCR 224-85	CLOSED 7-3-85
85-012	4-26-85	SUPPORT 3-ARH-93 BENT SHAFT, BROKEN TAC WELDS	4.3-6	NCR 225-85	CLOSED 7-3-85
85-013	4-26-85	SUPPORT 3-ARH-78 MISSING BOLT, LOOSE PARTS	4.3-5	NCR 226-85	CLOSED 7-3-85
85-014	4-29-85	SUPPORT 3-ARH-79 .1" GAP BETWEEN NUT AND TOP OF PLATE, CHIPPED CONCRETE	4.3-14	NCR 227-85	CLOSED 7-18-85
85-015	4-29-85	SUPPORT 3-ARH-82 LOOSE BOLTS, GAP BETWEEN PIPE AND CLAMP	4.3-15	NCR 226-85	CLOSED 7-18-85
85-016	4-29-85	SUPPORT 3-SR-147 MISSING PARTS, INADEQUATE THREAD ENGAGEMENT	4.3-16	NCR 226-85	CLOSED 7-18-85
85-017	THIS NUMBER WAS NOT USED DURING THE OUTAGE				
85-018	5-1-85	VALVE 3-876 BORIC ACID, INADEQUATE THREAD ENGAGEMENT	4.1-25	NCR 284-85	CLOSED 7-18-85
85-019	5-12-85	WELD 3"-RC-1301-11 2 LINEAR INDICATIONS	4.1-28 3.3-90	NCR 281-85	CLOSED 7-18-85
85-020	5-20-85	SUPPORT 3-SR-400B ATTACHMENT PULLED AWAY FROM CEILING	4.3-23	NCR 283-85	CLOSED 7-18-85
85-021	5-20-85	WELD 14"-RHR-1301-4 5 LINEAR INDICATIONS	4.1-12 3.3-44	NCR 282-85	CLOSED 7-18-85



**TURKEY POINT UNIT NO. 3  
EXAMINATION LIMITATIONS**

ZONE/ITEM NUMBER	IDENTIFICATION NUMBER	DESCRIPTION	ITEM	CODE CATEGORY	EXAM METH	ISO NO.	LIMITATION
61/80	3-SGB-ST	NOZZLE TO HEAD	C2.21	C-B	MT	V-9	INSULATION RING FEET, LOCATED APPROX EVERY 20" ( 2"x2" PAD)
61/50	3-SGB-FE	NOZZLE TO SHELL	C2.21	C-B	MT	V-9	INSULATION SUPPORT RING, LOCATED AT 180 DEGREES
98/102	26"-MSB-2302-9A	ELBOW-LONG SEAM	C5.22	C-F	MT	B-59	PIPE SUPPORT COVERS LONG SEAM, 6" AREA 5" DOWNSTREAM FROM WELD # 10
106/50	6"BDB-2304-26	PIPE TO VALVE	C5.21	C-F	MT	B-73	5.5" OBSTRUCTED AT 180 DEGREES DUE TO CLOSE PROXIMITY OF FLOOR
101/50	26"-MSB-2305-15	PIPE TO VALVE	C5.21	C-F	MT	B-60	BOTTOM 12" OBSTRUCTED DUE TO FLOOR
101-200	26"-MSB-2305-15LU	LONG SEAM	C5.22	C-F	MT	B-60	6" OF WELD OBSTRUCTED BY DOUBLE U-BOLT HANGER - REMOVABLE
88/250	6"-SI-2303-1	REDUCER TO VALVE	C5.11	C-F	PT	B-26	EXAM LIMITED TO 1/2" OF WELD DOWNSTREAM DUE TO VALVE BODY CONFIG.
88/260	6"-SI-2303-2	VALVE TO PIPE	C5.11	C-F	PT	B-26	EXAM LIMITED 1/2" UPSTREAM DUE TO VALVE BODY CONFIG AND DOWNSTREAM DUE TO WELDED WRAP AROUND HANGER
88/270	6"-SI-2303-3	PIPE TO VALVE	C5.11	C-F	PT	B-26	1/2" UPSTREAM DUE TO WELDED WRAP AROUND HANGER
89/50	8"-SI-2309-24	ELBOW TO VALVE	C5.21	C-F	PT	B-27	EXAM LIMITED AT 6.5" CW AND 6.6" CCW FOR A LENGTH OF 1.5". LOCATED .25" FROM TOE OF WELD AT 90 & 270 DEGREES DUE TO WELDED LUGS
61/40	3-SGB-CL	TRANSITION TO UPPER SHELL	C1.10	C-A	UT	V-9	INSTRUMENT LINES & WELDED PLATE & CLOSE PROXIMITY OF ADJACENT WELD
4/10	3-SGB-Z	CHANNEL HEAD TO TUBE SHEET	B2.40	B-B	UT	V-9	INSULATION SUPPORT RING LUGS
61/20	3-SGB-N	RING TO LOWER HEAD	C1.10	C-A	UT	V-9	
61/10	3-SGB-Y	TUBE SHEET TO RING	C1.30	C-A	UT	V-9	
61/70	3-SGB-P	WELD UPPER SHELL TO HEAD	C1.20	C-A	UT	V-9	INSULATION RING, 1/2" AREA NOT SCANNED
61/30	3-SGB-G	LOWER SHELL TO TRANSITION	C1.10	C-F	UT	V-9	INSULATION RING, LIFTING LUGS
84/60	8"-SI-2302-6	VALVE TO PIPE	C5.21	C-F	UT	B-22	HANGER OBSTRUCTION
37/260	10"-SI-1301-21	NOZZLE TO ELBOW	B9.11	B-J	UT	A-36	ELBOW SIDE LIMITED, ID PLATE 1/2"x1"

TURKEY POINT UNIT NO. 3  
EXAMINATION LIMITATIONS

ZONE/ITEM NUMBER	IDENTIFICATION NUMBER	DESCRIPTION	ITEM	CODE CATEGORY	EXAM METH	ISO NO.	LIMITATION
10/40	31"-RCS-1302-8	ELBOW TO PIPE	B9.11	B-J	UT	A-4	LIMITED SCAN ON ELBOW DUE TO TRANSITION
11/60	29"-RCS-1305-3	PIPE TO ELBOW	B9.11	B-J	UT	A-5	LIMITED BY SI NOZZLE LOCATED 2 1/8" FROM EDGE OF WELD NO. 16
11/70	29"-RCS-1305-4	ELBOW TO NOZZLE	B5.30	B-F	UT	A-5	NO SCAN ON NOZZLE DUE TO CONFIGURATION

# ULTRASONIC TRANSDUCERS

SERIAL NO.	MANUFACTURER	SIZE	TYPE	FREQUENCY
A20143	AEROTECH	.375	ROUND	5.0 MHZ
B07041	AEROTECH	.375	ROUND	5.0 MHZ
B16301	AEROTECH	.50	ROUND	2.25 MHZ
C09113	AEROTECH	.50 X 1	RECT	2.25 MHZ
C12110	AEROTECH	.25	ROUND	5.0 MHZ
C26314	AEROTECH	.50	ROUND	2.25 MHZ
C26498	AEROTECH	.50 X 1	RECT	1.0 MHZ
C29329	AEROTECH	.75	ROUND	2.25 MHZ
C30358	AEROTECH	.25	ROUND	5.0 MHZ
D28104	AEROTECH	.375	ROUND	5.0 MHZ
E17225	AEROTECH	.50 X 1	RECT	2.25 MHZ
F18219	AEROTECH	.50 X 1	RECT	1.0 MHZ
F20320	AEROTECH	.50	ROUND	2.25 MHZ
F26123	AEROTECH	.50	ROUND	2.25 MHZ
F27751	AEROTECH	.50	ROUND	2.25 MHZ
K17962	AEROTECH	.25	ROUND	2.25 MHZ
KB2230	AEROTECH	.50	ROUND	2.25 MHZ
KBA40056	AEROTECH	.50	ROUND	2.25 MHZ
M11435	AEROTECH	.25	ROUND	5.0 MHZ
M20227	AEROTECH	.50 X 1	RECT	2.25 MHZ
003135	AEROTECH	.75	ROUND	2.25 MHZ
15012	AEROTECH	.375	ROUND	1.5 MHZ
2012	SWRI	.50 X 1	RECT	1.0 MHZ
2017	SWRI	.50 X 1	RECT	1.0 MHZ
20063	AEROTECH	.25	ROUND	2.25 MHZ
20671	AEROTECH	.25	ROUND	2.25 MHZ





# SURFACE TEMPERATURE GAGES

SERIAL NO:

CERTIFICATION DATE

EXPIRATION DATE

ISI-11

4-1-85

7-1-85

ISI-12

4-1-85

7-1-85

ISI-13

4-1-85

7-1-85

ISI-14

4-1-85

7-1-85

ISI-16

4-8-85

7-8-85

ISI-17

4-8-85

7-8-85

ISI-18

4-8-85

7-8-85

ISI-19

4-8-85

7-8-85

ISI-20

4-8-85

7-8-85



# ULTRASONIC INSTRUMENT LISTING

SERIAL NO.	MANUFACTURER	CERTIFICATION DATE
911372	KBI USL 31	4-26-85
03177E	SONIC MK I	4-26-85
06422E	SONIC MK I	4-2-85
06421E	SONIC MK I	4-2-85
06445E	SONIC MK I	7-8-85
784519	SONIC MK I	4-1-85
06444E	SONIC MK I	7-8-85
06446E	SONIC MK I	7-8-85

