

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:7906220184 DOC.DATE: 79/06/19 NOTARIZED: NO DOCKET #
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 UHRIG,R.E. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 STELLO,V. Division of Operating Reactors

SUBJECT: Submits info re feedwater line design & fabrication history requested by 790525 ltr.Remaining info will be forwarded by 790730.

DISTRIBUTION CODE: A001S COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 5
 TITLE: GENERAL DISTRIBUTION FOR AFTER ISSUANCE OF OPERATING LIC

NOTES: ENCLS ADVANCED TO GROTENHUIS.

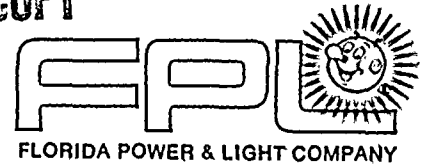
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	17 ENGR BR	1	1	18 REAC SFTY BR	1	1
	19 PLANT SYS BR	1	1	20 EEB	1	1
	21 EFLT TRT SYS	1	1	22 BRINKMAN	1	1
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EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	23 ACRS	16	16			

TTA4
CCP

JUN 25 1979

REGULATORY DOCKET FILE COPY

P. O. Box 529100
Miami, Florida 33152



June 19, 1979
L-79-169

Office of Nuclear Reactor Regulation
Attention: Mr. Victor Stello, Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Stello:

Re: Turkey Point Units 3 and 4
Dockets Nos. 50-250 and 50-251
Feedwater Line Cracking

Your letter of May 25, 1979 requested certain information relative to feedwater line design and fabrication history to be forwarded to you within 20 days of our receipt of the letter. One copy of the requested information is attached. Due to the amount of material involved and the short turnaround time we have not been able to make additional copies.

We have discussed this with Mr. M. Grotenhuis of your staff and he informed us that he would review the attached information and advise us of your needs for additional copies of this material.

In accordance with your May 25, 1979 letter, the remaining information on feedwater lines will be forwarded to you by July 30, 1979.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU:GDW:cf

cc: J. P. O'Reilly, Region II
Robert Lowenstein, Esquire

*Pool
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*Note:
Encls
Advanced To
~~Encls~~
Grotenhuis*

7906220184

PEOPLE...SERVING PEOPLE

INFORMATION REQUESTED ON FEEDWATER PIPING

DESIGN

1. All feedwater piping inside containment is Schedule 60 and there are no valves on this section of piping. One copy of the following physical piping, isometric and support drawings is enclosed and, except as noted, represent the as-built* piping and support configuration:

UNIT 3

Isometric Math Model: SK-P-09903, Rev. A

Physical Piping Arrangement: 5610-M-138, Rev. 11

Feedwater to Steam Generator 3-E210-A

Pipe Support Details:

3-FWH-38	Rev. 2
3-FWH-38A	Rev. 1
3-FWH-38B	Rev. 1
3-FWH-38C	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2386-IC-7 Rev. 1

Feedwater to Steam Generator 3-E210-B

Pipe Support Details:

3-FWH-39	Rev. 1
3-FWH-39A	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2386-IC-6 Rev. 1

Feedwater to Steam Generator 3-E210-C

Pipe Support Details:

3-FWH-40	Rev. 1
3-FWH-41	Rev. 1
3-FWH-41A	Rev. 0
3-FWH-42	Rev. 1
3-FWH-43	Rev. 1
3-FWH-43A	Rev. 0
3-FWH-43B	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2386-IC-5 Rev. 3

UNIT 4

Isometric Math Model: SK-P-09904, Rev. A

Physical Piping Arrangement: 5610-M138, Rev. 11

Feedwater to Steam Generator 4-E210-A

Pipe Support Details:

4-FWH-15	Rev. 0
4-FWH-16	Rev. 0
4-FWH-17	Rev. 0
4-FWH-18	Rev. 1
4-FWH-19	Rev. 1
4-FWH-19A	Rev. 1
4-FWH-19B	Rev. 1
4-FWH-19C	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2388-IC-5 Rev. 2

Feedwater to Steam Generator 4-E210-B

Pipe Support Details:

4-FWH-14	Rev. 0
4-FWH-14A	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2388-IC-6 Rev. 0

Feedwater to Steam Generator 4-E210-C

Pipe Support Details:

4-FWH-13	Rev. 0
4-FWH-13A	Rev. 0
4-FWH-13B	Rev. 0
4-FWH-13C	Rev. 0
C-170, detail 3 (penetration anchor)	Rev. 7

Shop Fabrication Isometric: (Does not reflect field changes)
E-2388-IC-7 Rev. 0

*NOTE: Unit 4 has been walked down to confirm as-built condition.
Unit 3 was inaccessible.

2. Thermal, weight and seismic analyses were performed by Bechtel and EDS as indicated. Fatigue analyses were not required by the ASME, Section I Code. One copy each of the following analyses is enclosed:

UNIT 3

Feedwater to Steam Generator 3-E210-A

Thermal 6/9/79
Weight 6/9/79
Seismic 6/9/79

Feedwater to Steam Generator 3-E210-B

Thermal 6/9/79
Weight 6/9/79
Seismic 6/9/79

Feedwater to Steam Generator 3-E210-C

Thermal 6/8/79
Weight 6/8/79
Seismic 6/8/79

UNIT 4

Feedwater to Steam Generator 4-E210-A

Thermal 5/25/79
Weight 5/25/79
Seismic (EDS) 5/25/79

Feedwater to Steam Generator 4-E210-B

Thermal 1/18/74
Weight 1/18/74
Seismic (EDS) 7/27/78

Feedwater to Steam Generator 4-E210-C

Thermal 6/23/72
Weight 6/23/72
Seismic (EDS) 7/27/78

FABRICATION HISTORY

1. The feedwater piping within the primary containment is ASTM A-106 Gr. B as specified on the enclosed shop fabrication isometrics and piping specification class Sheet C. Documentation for the piping has been supplied in accordance with ASME Section I. (Refer to attached letter from Dravo dated 12/29/67.) The steam generator nozzles and spargers were provided by Westinghouse. The nozzles are SA336 Class 2 material and the spargers are SA106 Gr. B.

2. The feedwater piping and piping to nozzle welds were performed by a shielded arc process. The welding was performed with a backing ring and post weld heat treatment was not required. The welding schedule, 5610-M313, the welding procedure for the pipe to nozzle weld, Pl-A-Lh, Rev. 16, and Piping Specification 5610-M-50, Sections 6.3.2, 6.4.4 and 6.4.5 are enclosed for information. The piping weld end preparation of the pipe to nozzle weld is shown on enclosed Drawing M-303, Rev. 4 and the fabrication isometrics. There is no weld between the sparger and the nozzle. Refer to Westinghouse drawings 629C241, 389A237, and 4417D71 for details of the nozzle and sparger.

JUN 19 1979

Dr. Robert E. Uhrig
VP for Nuclear Affairs and
General Engineering
Florida Power and Light Company.
P. O. Box 529100
Miami, FL 33152

Dear Dr. Uhrig:

The Nuclear Safety Division (ASK, the central licensing organization) of the Swiss Federal Office of Energy, has requested a visit to FP&L's Turkey Point nuclear station during the replacement of the facility's steam generator. The Swiss are preparing for a similar steam generator replacement at their Beznau-1 power plant, a 350 MWe PWR, and would value the opportunity to send a representative of the ASK Radiation Section to Turkey Point Units 3 and 4 for a one-day visit, during the replacement, to discuss the following topics:

- steam generator removal and replacement procedure
- exposure rates inside containment
- exposure by work function
- surface contamination of the steam generator, other loop components, and surface contamination within the containment
- surface decontamination
- airborne contamination
- temporary shielding
- additional protective measures for personnel
- transport and storage of replaced steam generator
- other health physics problems

The Swiss may be able to provide some information on their expectations in these areas.

I understand that FP&L has a model of the Turkey Point facility, outside the security area, at which simulations of the steam generator replacement are conducted. With your concurrence, I could suggest to the Swiss that their representative visit the model, at your convenience, to hold initial discussions on the identified topics. He may, however, wish to return to Turkey Point during the actual replacement activity, perhaps as it nears completion, but again this would be at your convenience.

THAY
CCP

OFFICE >						
SURNAME >						
DATE >						

Dr. Robert E. Uhrig

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JUN 19 1979

Anything you can do to accommodate the ASK would be greatly appreciated. As always, though, acceptance of this request is purely optional, subject only to the decision of Florida Power and Light, and has no bearing on any regulatory activities. The Florida Power and Light Company would still be expected to comply with all of the conditions of its NRC license, including the applicable safety and safeguards regulations. Please call me (301/492-7788) or Bob Senseney of this office if you have any questions or suggestions regarding this request. We look forward to your response.

Sincerely,


Joseph D. Lafleur, Jr.
Deputy Director
Office of International Programs

bcc: JRS
JDL
JMiller, DOR
DMC
RSS/V
GGower, IE
RBrady, SEC
JBecker, SEC
File

OFFICE	IP	IP	IP	DOR		
SURNAME	RSenseney:edb	DMChenier	JDLafleur	JMiller		
DATE	6/18/79	6/19/79	6/19/79	6/19/79		