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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: Responds to 790525 request for info re fabrication,insp & operating history of feedwater lines.

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FLORIDA POWER & LIGHT COMPANY

July 31, 1979
L-79-209

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 & 4
Docket Nos. 50-250 & 50-251
Feedwater Nozzles

Our letter of June 19, 1979 (L-79-169) responded in part to your May 25, 1979 request for information concerning PWR feedwater lines. The remaining information on fabrication, inspection, and operating history is attached.

Very truly yours,

J A DeMesty
or

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/paf

Attachment

cc: J. P. O'Reilly, Region II
Harold Reis, Esquire

A001
S 3/3

DESIGN

ITEM 1

REQUEST

Provide as-built piping or isometric drawings of the feedwater line to steam sparger within containment. Show details of the design such as dimensions, pipe schedule, support type and locations, pipe restraints, and valve(s).

RESPONSE (Addendum to L-79-169 dated June 19, 1979)

As a result of Plant Change Modification (PC/M) 74-102, hydraulic snubbers indicated on the support sketches, forwarded with FPL letter L-79-169 have been replaced with mechanical snubbers.

FABRICATION HISTORY

ITEM 2

REQUEST

Provide the details fo the welding process(es) used to make the nozzle-to-pipe to sparger and piping welds. Include details of welding such as preheat, joint configuration (include with or without backing ring), and post weld treatment, if any.

RESPONSE (Addendum to L-79-169 dated June 19, 1979)

The second sentence of the response in L-79-169 should be revised to read:

"The welding was performed with a backing ring and post weld heat treatment was not required, however, the nozzle to reducer weld did receive post weld heat treatment."

ITEM 3

REQUEST

Provide the NDE performed during and after fabrication of the weld joints requested in question 2.

RESPONSE

All feedwater piping welds were 100% radiographed and surface examined as required by Specification 5610-M-50 Sections 6.11.3(a)2 and 6.11.5(a). Nondestructive examination was not performed on the steam generator spargers.

ITEM 4

REQUEST

Provide the Code edition to which the feedwater piping system was fabricated.

RESPONSE

The feedwater piping system was fabricated in accordance with ASME. Section I, 1965 including all Addenda thru the 1966 Winter Addenda, which was the Code in effect at the time of purchase.

ITEM 5

REQUEST

State the fracture toughness requirements, if any, for the feedwater piping system.

RESPONSE

Neither the construction code nor the piping specification required impact testing for the feedwater piping.

PRESERVICE/INSERVICE INSPECTION AND OPERATING HISTORY

ITEM 1

REQUEST

State whether the feedwater system welds received a preservice inspection in accordance with ASME B&PV Code, Section XI.

RESPONSE

The Turkey Point Units 3 & 4 feedwater system welds did not receive a preservice inspection in accordance with the ASME B&PV Code, Section XI.

ITEM 2

REQUEST

Provide the extent of inservice inspection performed on the feedwater pipe to steam generator nozzle welds. Include the results of the examinations, any corrective actions taken and causes of any failures.

RESPONSE

The nozzle welds on both Units 3 & 4 have not been radiographically tested as part of the routine Inservice Inspection Program. In addition, the nozzle welds on Units 3 & 4, have been inspected as described in FPL letter L-79-199 dated July 23, 1979 (supplementary response to IE Bulletin 79-13).

ITEM 3

REQUEST

Provide the schedule and extent of inservice inspection for the feedwater system for the next inspection interval.

RESPONSE

The feedwater system is a Class 2 system, therefore, inservice inspections are spread throughout the entire 40 year life of the plant. In accomplishing the routine Inservice Inspection Program, only a small portion of the feedwater system need be inspected during each period. However, feedwater system welds inside containment, including the connection to the auxiliary feedwater system outside containment, either have been or will be inspected in accordance with IE Bulletin 79-13. (Refer to FPL letter L-79-199 dated July 23, 1979).

ITEM 4

REQUEST

Provide any history of water hammer or vibration in the feedwater system and design changes and/or actions taken to prevent these occurrences.

RESPONSE

The information on water hammer forwarded to Mr. George Lear on July 3, 1975 in FPL letter L-75-246 is still applicable, i.e., there have been no confirmed water hammer occurrences in steam generator feedwater piping since implementation of the modifications described in the letter to Mr. Lear.

[NOTE: With respect to the water hammer issue, an evaluation is being conducted by our Architect-Engineer in conjunction with recent feedwater snubber damage.]

ITEM 5

REQUEST

Provide a description of feedwater chemistry controls and a summary of chemistry data.

RESPONSE

A description of chemistry specifications can be found in Westinghouse proprietary WCAP 73-33, Book 4 entitled "Steam Side Water Chemistry Control Specifications."

A summary of minimum and maximum values of pH, conductivity, Amerzine, and dissolved oxygen is contained in Table 1 (attached). It covers the one-year period from July, 1978 through June, 1979.

TABLE 1

	pH		Conductivity µmhos/cm		Amerzine ppb		Dissolved Oxygen ppb	
	min.	max.	min.	max.	min.	max.	min.	max.
Unit 3								
7/78	8.88	9.16	2.56	5.0	<1	58	<5	<5
8/78	8.68	9.16	2.4	4.0	7	40	<5	<5
9/78	8.85	9.24	3.2	5.5	<1	82	<5	<5
10/78	8.77	9.15	2.5	5.75	4	54	<5	<5
11/78	8.67	9.38	1.6	4.2	<1	191	<5	<5
12/78	8.38	9.27	1.17	4.95	<1	110	<5	5
1/79	COLD SHUTDOWN ----------							
2/79	COLD SHUTDOWN ----------							
3/79	COLD SHUTDOWN ----------							
4/79	8.46	9.32	2.15	8.25	<1	70	<5	<5
5/79	8.80	9.25	2.0	4.3	3	49	<5	10
6/79	8.59	9.16	1.65	4.25	0	44	<5	5
Unit 4								
7/78	8.91	9.16	2.55	4.10	<1	157	<5	<5
8/78	8.89	9.16	2.6	4.55	9	187	<5	<5
9/78	COLD SHUTDOWN ----------							
10/78	8.80	9.09	2	3.55	<1	73	<5	<5
11/78	8.69	9.26	1.5	6.25	13	54	<5	<5
12/78	8.77	9.26	2.3	6.4	5	80	<5	<5
1/79	8.73	9.35	1.8	6.45	<1	56	<5	<5
2/79	8.46	9.32	2.15	8.25	1	70	<5	5
3/79	8.72	9.35	2.05	5.95	<1	50	<5	<5
4/79	8.93	9.21	2.7	3.5	11	28	<5	5
5/79	REFUELING ----------							
6/79	8.82	9.18	2.5	4.3	6	50	<5	5