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December 16, 1994

Re: Indian Point Unit No. 2
Docket No. 50-247

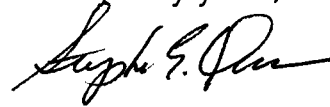
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SUBJECT: Proposed Steam Generator Tube Examination Program -
1995 Refueling Outage

Pursuant to the requirements of Technical Specification 4.13.C.1,
enclosed is the subject program for your review and concurrence.

Should there be any questions regarding this matter, please contact Mr.
Charles W. Jackson, Manager, Nuclear Safety & Licensing.

Very truly yours,



cc: Mr. Thomas T. Martin
Regional Administrator - Region I
US Nuclear Regulatory Commission
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ATTACHMENT A

**PROPOSED STEAM GENERATOR TUBE
EXAMINATION PROGRAM
1995 REFUELING OUTAGE**

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NO. 2
DOCKET NO. 50-247
DECEMBER, 1994**

Indian Point 2
Proposed Steam Generator Tube Examination Program
1995 Refueling Outage

1. Bobbin Coil Probe

A standard 700 or 720 mil bobbin coil eddy current probe will be used to perform the initial eddy current testing. If any tube does not permit passage of the standard 700 mil probe, the tube will be tested with progressively smaller probes.

Tubes that do not pass the 610 mil probe will be plugged. Furthermore, the tubes immediately adjacent to any tube that does not pass the 610 mil probe will also be subjected to a bobbin coil eddy current examination.

The examination will be conducted from either the hot or cold leg side of the channel head. All tubes requiring full length inspection will be examined from the mouth of the tube through the tubesheet, around the U-bend, to the mouth of the tube on the opposite side.

One hundred percent [100%] of the tubes [both hot and cold legs] will be examined from the bottom of the tubesheet through the first support plate. The hot and cold legs of Steam Generators 21, 22, and 23 will be examined with the bobbin probe. The cold leg of Steam Generator 24 will be examined with the bobbin probe. The hot leg of Steam Generator 24 will be examined as described in Section 2.

Selected tubes in Steam Generators 21, 22, 23, and 24 will be eddy current examined for both dents and defects over their full length. The examination will be performed at 10, 100, 400 and 600 KHz.

The tubes selected for full length examination are given in Tables 1, 2, 3 and 4. In Steam Generator 21, 684 tubes, or 22.9% of all active tubes will be examined. In Steam Generator 22, 627 tubes, or 21.5% of all active tubes will be examined. In Steam Generator 23, 628 tubes, or 20.8% of all active tubes will be examined. In Steam Generator 24, 680 tubes, or 22.7% of all active tubes will be examined. Any locations with distorted bobbin coil signals will be examined with the Rotating Pancake Coil [RPC] probe to resolve the bobbin coil signal. The selection of tubes for examination over their entire length is based upon tubes that were not examined in the 1989, 1991 or 1993 refueling outages and a re-examination of some tubes in the periphery hard spot areas of the tube bundle.

The 1995 full length examination program presented will complete the full length tube examination cycle in a four examination period. The 1989 examination was the first examination of the cycle.

An Anti-Vibration Bar [AVB] baseline for the steam generators will be completed in the 1995 outage. During the 1993 examination, AVB wear was noted in a few tubes. The

unit was operated at full stretch during the 1991-1993 cycle. One tube in Steam Generator 24 exhibited 48% wall loss due to wear. As a result, Con Edison decided to conduct an augmented examination of additional U-bends. All U-bends in Rows 16 and higher in Steam Generator 24 and half of the U-bends in Rows 16 and higher in Steam Generator 22 were examined by the bobbin probe to determine AVB wear and also to develop a data baseline. No tubes with greater than 40% wall loss were detected in the augmented program. The one tube with greater than 40% wall loss was plugged; additionally, three tubes were plugged as a preventive measure. The present AVB program will complete the partial AVB baseline in Steam Generator 22 and the entire AVB baseline for Steam Generators 21 and 23.

2. Augmented Examination Program

In Steam Generator 21, 204 tubes will be examined with the RPC or CECCO 5 probe on an exploratory basis to detect defects including axial and circumferential intergranular corrosion and/or cracking in the tubesheet, tube support plate and U-bend regions. A minimum of two locations within each tube will be examined. The tubes to be examined in Steam Generator 21 are listed in Table 5. One hundred and one [101] of the tubes in the Steam Generator 21 sample have been examined by the RPC probe during the 1991 and 1993 outages. In addition, all active tubes [2992], from the hot leg tube end through the lowest support plate on the hot leg in Steam Generator 24, will be examined with the CECCO 5 probe.

TABLE 1

TUBES TO BE EDDY CURRENT EXAMINED OVER THEIR FULL LENGTH

STEAM GENERATOR 21

<u>Column</u>	<u>Row</u>	<u># of Tubes</u>
1	3 5 7 8	4
4	2 4 5 6 10 11 12 13 17	9
5	3 5 9 11 12 15 16 18	8
6	9 11 13 15 17 19 21	7
7	3 5 8 9 14 15 16 18	8
9	7 8 9 11 15 17 19 20 21 22 23	11
11	6 8 12 14 15 16 17 18 19 21 22 23 24 26	14
13	4 5 8 13 14 15 16 17 22 23 25 27	12
15	4 6 7 9 10 12 14 15 16 19 20 22 23 26	14
17	4 7 10 12 13 14 15 19 20 21 22 24 25	13
18	2 4 6 7	4
19	7 9 11 12 13 14 18 20 21 22 24 26 27 31	14
21	5 12 15 17 19 20 22 23 24 26 27 28 32 34	14
23	4 10 11 12 13 14 16 18 22 25 26 27 29 30 32	15
24	2 4 6 16	4
25	4 5 7 9 10 11 12 13 17 18 19 20 21 22 23 24 27 31 33 34 35 36 37 38	24
27	8 9 12 13 19 20 23 25 27 28 29 31 32 33 35 39	16
29	5 6 10 11 14 15 16 25 29 30 33 34 38 39 40	15
31	8 11 12 13 14 18 21 22 23 24 25 27 28 29 31 33 39 40	18
33	6 7 8 11 15 16 17 18 19 20 21 22 23 24 28 29 31 32 33 35 40 41	22
35	4 5 6 11 14 15 19 20 23 24 28 31 33 35 39 41	16
37	6 8 9 11 12 17 18 19 21 22 23 24 25 27 28 34 35 39 40	19
39	6 7 8 14 16 17 25 26 27 28 29	11
40	2 4 6 30 45	5
41	5 12 17 18 19 20 21 22 24 25 31 34 39 40	14
42	40	1
43	4 7 11 12 14 15 16 19 20 21 22 23 24 27 28 29 30 31 34 35 36 37 38	23
45	6 12 13 15 16 17 18 20 21 24 26 28 29 30 31 39 40	17
47	5 6 8 9 10 11 12 13 15 17 18 19 20 21 23 24 25 30 34 40	20
49	5 6 7 8 10 13 14 15 16 17 19 20 21 22 24 25 26 27 28 29 34 38	22
50	16	1
51	8 10 12 18 19 21 22 23 24 28 34 35 36 39 41	15

Table 1/Steam Generator 21 (continued)

53	6 7 11 14 22 23 25 27 28	9
55	7 10 11 12 13 16 18 21 23 24 25 29 30 31 32 35 38 39	18
57	5 7 9 10 15 20 21 22 23 24 25 26 27 28 29 30 31 32 34 36	20
59	2 4 5 10 12 16 17 19 22 23 28 29 30 31 32 35 38 39 41	19
60	2 4 6 12	4
61	12 13 24 25 29 31 32 35 38 40	10
63	5 9 12 15 16 17 20 21 24 27 29 31 32 33 34 35 37	17
65	2 9 10 12 13 15 16 17 18 23 24 30 31 34 35 38	16
67	4 5 9 11 13 14 15 16 17 18 19 20 22 23 25 26 28 33 36 37 38	21
69	10 11 13 19 23 25 26 27 29 32 34 35 36	13
71	4 6 8 11 13 15 18 19 24 27 29 31 32 33	14
73	4 5 6 7 8 9 11 12 14 16 20 21 22 23 25 27 28 31 33 34 35	21
74	23	1
75	4 8 9 11 12 13 20 21 22 23 24 29 30 31 32	15
77	5 7 11 12 14 15 17 19 21 22 23 24 27	13
79	4 7 9 10 11 12 16 20 21 22 23 24 25 26 27	15
81	4 8 9 12 13 14 15 19 23 24 25 26	12
83	5 6 10 12 13 16 20 21 24	9
84	4 5 6	3
85	5 6 8 9 11 12 13 15 16 17 18 19 21	13
87	5 6 7	3
89	6 7 10 11 13 15	6
90	10 11 13 14	4
92	2 4 6	3
	Total	684

TABLE 2

TUBES TO BE EDDY CURRENT EXAMINED OVER THEIR FULL LENGTH

STEAM GENERATOR 22

<u>Column</u>	<u>Row</u>	<u># of Tubes</u>
1	2 5 8	3
3	3 6	2
5	3 5 8 10	4
6	2 4 6 10 16	5
7	10 11 12 16	4
8	2 5 9 19 20	5
9	3 5 8 10 11 13 14 16 19 20 21 23	12
10	5 6 8 13 16 18 23 24	8
11	2 4 6 8 11 13 17 18 20 23 24 26	12
12	2 4 6 10	4
13	1 5 8 9 11 13 14 15 16 19 20 22 23 24	14
14	3 5 7 20	4
15	4 6 7 8 9 12 13 14 16 17 18 21 22 23 27	15
16	4 6 8 10 20	5
17	5 6 7 8 10 11 12 13 14 16 19 20 21 22 27	15
18	20	1
19	5 7 8 10 11 12 14 15 20 21 23 24 25 26	14
21	2 4 7 9 10 15 16 17 21 22 23 24 26	13
23	4 6 14 17 20 24 25 27	8
25	3 6 9 11 19 23 24 28 29 33 37	11
27	8 9 11 12 13 15 16 18 20 21 22 27 28 29 30	
	31 32 34 35 36 37	21
28	2 4 6 8 39	5
29	16 22 28 31 32 34 35 36 40	9
30	3 5 7 11 38	5
31	7 20 22 24 25 31 32 34 35 37 39	11
32	39	1
33	8 11 13 20 29 32 34 35 40	9
34	2 4 6 35	4
35	12 13 14 15 21 22 24 25 26 29 30 33 36 37 38 39	16
36	2 4 6 40	4
37	10 13 14 22 24 25 28 29 30 35 36 38 39 40 42	15
38	40	1
39	10 11 16 17 18 19 20 21 22 25 26 27	12
41	2 4 6 11 12 22 23 26 28 30 31 37 38 40	14
43	6 7 10 13 15 20 22 23 28 29 30 37 38 39 41 42	16
44	38	1
45	4 6 8 10 16 17 19 20 22 24 25 36 37 39 40 41 42	17

Table 2/Steam Generator 22 (continued)

46	41	1
47	9 13 14 15 16 19 20 22 23 27 35 36 37 38 39	15
48	2 4 6 8 38 39	6
49	11 12 15 19 20 22 23 27 31 34 38 39	12
50	29 37	2
51	3 6 7 9 10 12 13 14 16 19 20 22 24 25 28 29 30 31 33 34 36 37 38 39	24
53	9 10 13 22 23 30 31	7
55	9 10 11 12 13 17 22 28 34 35 37 38 39 40	14
57	2 4 6 8 10 12 13 20 21 22 23 24 25 29 31 35 36	17
58	27	1
59	9 11 12 13 14 16 17 20 22 23 24 25 29 30 32 33	16
60	36 38	2
61	8 10 12 16 18 19 21 23 25 28 35 40	12
62	2 4 6 9 40	5
63	6 9 11 12 14 15 18 19 21 22 23 26 28 29 31 34 36	17
65	5 11 12 15 16 17 18 19 21 23 27 28 30 32 35 36	16
67	9 10 11 12 16 17 21 22 23 25 27 29 34 35 37	15
69	9 12 15 16 17 20 21 22 23 25 26 27 31 33 35 36 37	17
70	3	1
71	8 10 12 14 17 18 20 22 26 27 28 29 30 31 33 36	16
73	4 5 13 15 17 18 19 21 25	9
75	4 5 6 7 11 12 16 19 21 23 25 26 27 28	14
77	5 6 7 8 9 12 14 15 16 19 22 23	12
79	4 5 9 10 12 13 14 16 17 18 19 25 26	13
81	5 6 8 9 10 11 13 14 15 19 20 21 23 24 25	15
83	4 10 11 17 18 19 20 21 22 23	10
85	6 7 8 9 11 20	6
87	8 16	2
89	7	1
90	10 12 14	3
91	2 4 6 8 10 12	6
	Total	627

TABLE 3

TUBES TO BE EDDY CURRENT EXAMINED OVER THEIR FULL LENGTH

STEAM GENERATOR 23

<u>Column</u>	<u>Row</u>	<u># of Tubes</u>
1	3 5 7	3
3	6 8	2
5	8	1
7	8 10 11 16 20	6
9	9 10 12 13 14 15 16 18 22	9
11	8 12 13 15 16 17 18 19 20 21 24	11
13	3 5 7 9 10 13 14 16 17 22 25 26	12
15	5 6 8 11 13 14 15 17 19 21 22 23 24 25 26 27	16
17	10 11 12 14 15 16 18 19 22 23 24 25	12
19	1 4 6 9 10 12 13 17 19 20 21 22 25 27 28 29	16
21	7 8 12 14 15 18 19 23 24 26 32	11
22	2 35	2
23	10 11 18 20 25 27 28 30 33 35 36	11
24	2 4 37	3
25	2 4 6 8 10 13 15 16 18 21 25 26 32 33 36 37	16
27	8 11 12 15 16 17 21 24 25 26 28 29 30 31 33 34 36 39	18
29	8 9 10 12 14 16 17 18 19 22 26 28 31 32 34	
	36 37 38 39 40	20
30	40	1
31	6 7 8 11 12 13 15 16 18 22 23 25 27 28 29	
	32 34 35 37 38	20
33	7 8 9 12 14 15 16 17 19 20 21 23 24 25 26	
	27 32 33 35	19
35	8 15 19 24 25 26 30 31 32 33 34 35 36 37 38	15
37	16 17 19 20 21 22 26 27 28 29 30 33 35	13
39	13 17 18 26 28 31	6
41	9 13 15 16 17 21 23 28 30 37 39 42	12
43	4 6 9 10 12 15 18 19 21 22 24 25 26 27 28	
	34 38 39 41	19
45	4 6 8 9 11 15 16 21 22 23 26 28 29 34 37	
	38 39 40 41	19
47	7 8 13 16 17 23 26 27 28 29 31 36 37 38 39	15
49	4 5 7 10 11 12 13 15 16 22 24 25 28 30 36 38 42 45	18
50	3 26	2
51	4 5 6 9 10 12 13 14 15 16 17 19 22 25 27	
	28 31 35 36 37 38 39	22
52	8 13 14 15 17 18 23 25 26 30	10
55	7 10 11 15 17 21 25 29 32 33 36 38 39 40	14

Table 3/Steam Generator 23(continued)

56	38	1
57	5 6 7 13 15 17 19 23 26 30 31 36 37 38	14
58	16	1
59	7 8 10 12 15 17 20 21 22 23 28 29 30 33 34 36 37 38	18
61	4 6 7 9 10 11 12 13 15 16 19 2 122 23 24 25 28 29 30 31 32 34 35 37 39 40	26
63	4 6 12 13 15 18 19 21 22 24 28 29 32 33 34 35 36 37 38	19
65	5 7 9 10 12 13 14 16 17 18 19 20 22 23 24 27 28 29 30 32 33 34 35	23
67	4 5 6 7 8 12 13 15 19 21 22 23 29 30 32 33 35 37 38	19
68	38	1
69	5 7 9 11 12 13 16 18 19 20 21 24 25 26 27 32 33 35 36	19
70	8	1
71	4 5 7 9 10 12 13 16 18 19 20 21 25 29 33 34 36	17
73	7 8 9 12 13 15 16 18 20 21 22 23 26 28 29 31 33	17
75	4 5 7 8 9 11 17 21 22 26 27 28 29 33	14
77	9 13 15 20 21 23	6
79	2 5 7 8 16 17 19 20 22 23 24 25	12
81	4 5 7 8 11 12 13 17 20 21	10
83	4 6 8 9 10 11 12 13 17 18 20 21 23	13
84	5 7 9 11	4
85	6 8 13 14 17 20 21	7
87	8 16 17	3
89	2 7	2
90	7	1
91	3 6 7	3
92	4 6 8	3
	Total	628

TABLE 4

TUBES TO BE EDDY CURRENT EXAMINED OVER THEIR FULL LENGTH

STEAM GENERATOR 24

<u>Column</u>	<u>Row</u>	<u># of Tubes</u>
1	2 4 6	3
3	2 4 6	3
5	5 6 7 8	4
7	6 7 9 17 19 20	6
9	5 6 7 9 18 20 22 23	8
11	7 8 10 11 12 13 16 17 18 19 21 22 23 24	14
13	4 7 10 12 13 15 17 19 21 22 23 24 25	13
15	2 8 12 13 14 17 18 20 26	9
17	4 5 6 7 12 13 14 15 18 20 22 25 26 27	14
19	4 5 6 7 8 9 15 20 21 22 24 26	12
21	5 8 10 13 14 16 17 19 21 22 23 24 25 26 27	
	28 30 31 32 33 35	21
22	6 34	2
23	5 9 10 12 14 18 19 23 25 26 28 30 31 33 34	15
25	7 8 9 15 19 21 22 25 27 29 30 31	12
27	4 6 7 12 15 16 20 22 23 25 26 30 31 34 35 38	16
28	30 39	2
29	2 4 5 7 9 10 11 18 25 29 30 32 33 34 38 39	16
30	32	1
31	2 4 5 6 8 13 14 15 17 18 19 20 21 22 27	
	28 30 31 34 35 37 39	22
32	3 26 28 30 32	5
33	2 5 7 12 13 14 17 20 21 22 24 26 29 31 35 39	16
34	35 39	2
35	5 7 8 9 10 11 14 15 16 17 19 20 21 22 23	
	24 25 26 29 32 33 35 37 38 42	25
37	7 8 9 11 12 13 15 17 18 20 21 23 24 25 32	
	33 34 36 37	19
38	32 36 39	3
39	9 11 12 14 15 16 18 20 21 22 23 24 27 28 29 31	16
40	23	1
41	6 7 9 10 11 12 13 14 16 17 20 21 22 24 25	
	28 29 30 34 37 41	21
42	31 40	2
43	8 10 11 12 13 15 17 20 23 24 25 27 28 29 30	
	35 36 41 43	19
44	18 43	2
45	7 17 21 22 23 24 25 26 27 29 31 35 36 39	14

Table 4/Steam Generator 24(continued)

46	22 28 40	3
47	5 6 8 14 16 19 21 22 25 27 28 29 34 35 36 39 40 42	18
48	24 43	1
49	4 5 7 8 9 10 13 14 15 16 19 20 22 24 25 29 30 31 36 37 38 42	22
50	17	1
51	7 8 9 11 12 15 16 18 23 24 25 26 28 29 31 37 38 41	18
53	7 9 10 12 13 14 15 19 20 22 23 24 26 27 28 29 30 31	18
55	7 12 13 15 20 21 23 24 25 28 32 33 37 38	14
57	7 11 13 14 15 16 20 22 23 25 26 27 30 31 32 33 34 35 36 37 39	21
59	5 8 9 10 12 13 15 16 17 19 20 24 25 28 29 31 33 35 36 37	20
60	16	1
61	5 6 7 9 10 11 13 14 16 17 19 20 22 23 25 26 27 28 30 32 37 38 39	23
63	4 5 6 7 8 11 12 13 14 15 16 19 20 21 22 23 28 32 33 34 37 38 39	23
65	2 5 7 10 12 13 15 16 17 19 21 24 26 27 28 29 30 31 32 34 36	21
67	5 9 11 12 13 14 15 16 17 20 24 26 28 30 32 33 35 36 37	19
69	8 9 10 12 15 16 18 20 21 26 27 28 30 33 34 35 36	17
71	6 7 8 9 11 13 16 17 18 24 25 29 30 33 34	15
73	4 7 9 10 11 12 14 15 16 17 18 19 20 26 27 29 31 33 34 35	20
75	4 6 9 11 16 17 18 20 21 22 25 27 30 31 32	15
77	4 5 6 7 8 9 10 13 15 18 19 20 21 22 23 24 26	17
79	6 8 9 11 12 15 16 17 18 19 22 24 25 26	14
81	6 7 8 12 14 15 19 20 21 24 25	11
83	10 11 16 17 20 23 25	7
85	8 15 17	3
87	7 8 12 17	4
89	7	1
	Total	680

TABLE 5**TUBES FOR AUGMENTED EXAMINATION****STEAM GENERATOR 21**

<u>Columns</u>	<u>Rows</u>	<u>Regions of Exam*</u>
1	3	1H 2H
1	4	2H 6H
1	7	1H 2H
1	8	1H 2H
2	3	6H U Bend
2	4	TSH-TEH 3H
2	7	1H 2H
2	8	1H 2H
3	2	6H U Bend
3	7	1H 2H
3	13	TSH-TEH 1H
3	14	1H 2H
4	3	1H 2H
4	7	1H 2H
4	8	1H 2H
4	9	2H 3H
5	11	2H 3H
5	12	2H 3H
5	19	TSH-TEH 1H
5	20	TSH-TEH 1H
6	4	3H 4H
6	5	3H 4H
6	18	TSH-TEH 1H
6	20	TSH-TEH 1H
7	23	TSH-TEH 1H
8	22	1H 2H
8	23	1H 2H
8	24	1H 2H
15	30	TSH-TEH 4H
20	5	TSH-TEH
20	8	1H 2H
23	21	TSH-TEH
24	12	TSH-TEH 2H
26	8	3H 4H
26	14	1H
26	15	1H
26	16	TSH-TEH
26	17	2H

Table 5/Steam Generator 21 Augmented Exam(continued)

26	18	2H
28	14	TSH-TEH
28	16	TSH-TEH 3H
28	25	4H
28	26	4H
28	27	4H
30	19	TSH-TEH
30	20	TSH-TEH
30	22	6H TSH-TEH
30	37	TSH-TEH
30	38	1H 2H
30	39	1H 2H
31	5	5H 6H
31	12	TSH-TEH 4H
31	15	1H 2H
31	16	1H 2H
31	22	TSH-TEH 1H
32	6	TSH-TEH 5H
32	10	4H 5H
32	12	5H 6H
32	20	1H 2H
32	21	1H 2H
32	22	1H 2H
33	10	5H 6H
33	12	1H 2H
33	43	5H 6H
35	2	2H 3H
35	3	2H 3H
35	9	2H 3H
35	10	2H 3H
35	12	TSH-TEH 2H
35	18	3H 4H
36	7	2H 3H
36	14	TSH-TEH 3H
36	41	TSH-TEH 2H
36	42	2H 3H
36	43	4H 5H
36	44	5H 6H
37	8	TSH-TEH 3H
37	11	TSH-TEH 4H
37	15	TSH-TEH 4H

Table 5/Steam Generator 21 Augmented Exam(continued)

37	21	TSH-TEH 4H
37	26	3H 4H
37	29	3H 4H
37	30	TSH-TEH 5H
37	31	4H 5H
37	32	4H 5H
38	24	4H 5H
38	25	4H 5H
38	26	TSH-TEH 1H
38	27	3H 4H
38	28	3H 4H
39	2	2H 3H
39	3	2H 3H
39	4	2H 3H
39	5	2H 3H
39	11	5H 6H
39	15	TSH-TEH 1H
40	14	5H 6H
40	39	1H 2H
40	40	1H 2H
40	41	2H 3H
40	42	2H 3H
40	43	2H 3H
41	12	5H 6H
41	41	1H 2H
41	42	1H 2H
41	43	2H 3H
42	10	TSH-TEH 2H
42	12	2H 3H
42	27	2H 3H
43	8	TSH-TEH 3H
43	13	3H 4H
43	15	TSH-TEH 3H
43	19	TSH-TEH 4H
43	42	1H 2H
43	43	1H 2H
43	44	2H 3H
43	45	2H 3H
44	10	4H 5H
44	15	1H 2H
44	16	1H 2H

Table 5/Steam Generator 21 Augmented Exam(continued)

44	17	2H 3H
44	18	2H 3H
46	18	TSH-TEH 1H
46	25	4H 5H
48	3	6H U Bend
48	4	3H 4H
48	6	TSH-TEH
48	18	TSH-TEH
48	35	3H 4H
48	36	3H 4H
48	37	4H 5H
48	43	4H 5H
48	44	5H 6H
48	45	5H 6H
49	3	U Bend 6H
49	4	4H 5H
50	3	5H 6H
50	4	1H 2H
50	10	3H 4H
50	11	3H 4H
50	12	4H 5H
50	13	4H 5H
50	29	TSH-TEH 1H
51	3	TSH-TEH 2H
51	4	3H 4H
51	15	TSH-TEH 5H
51	20	5H 6H
51	30	2H 3H
51	38	2H 3H
51	40	3H 4H
51	42	3H 4H
51	43	4H 5H
51	44	4H 5H
51	45	1H 2H
52	10	TSH-TEH 5H
53	9	5H 6H
53	13	5H 6H
53	15	5H 6H
53	17	1H 2H
53	20	1H 2H
53	45	TSH-TEH 6H

Table 5/Steam Generator 21 Augmented Exam(continued)

54	19	TSH-TEH 1H
54	20	1H 2H
54	45	TSH-TEH 6H
55	6	TSH-TEH 2H
55	20	1H 2H
56	3	4H 5H
56	7	TSH-TEH 2H
58	6	3H 4H
58	16	TSH-TEH 1H
58	44	TSH-TEH 6H
66	15	TSH-TEH 1H
76	15	1H 2H
78	28	3H 4H
78	29	3H 4H
78	30	4H 5H
78	31	4H 5H
78	32	5H 6H
78	33	5H 6H
81	18	TSH-TEH 1H
88	15	3H 4H
88	16	3H 4H
88	17	4H 5H
88	18	4H 5H
88	19	5H 6H
88	20	5H 6H
89	3	5H 6H
90	3	5H 6H
90	4	1H 2H
90	6	1H 2H
90	7	2H 3H
90	8	2H 3H
90	9	2H 3H
91	4	1H 2H
91	9	1H 2H
91	10	1H 2H
91	11	2H 3H
91	12	2H 3H
92	2	4H U Bend
92	3	3H U Bend
92	4	TSH-TEH 2H
92	5	1H 2H

Table 5/Steam Generator 21 Augmented Exam(continued)

	92	7	1H 2H
Total: 204 tubes	92	8	1H 2H

* Westinghouse terminology:

1H = 1st (lowest) tube support plate on hot leg side

U Bend = Between uppermost support plate of hot and cold legs

TSH-TEH = Top of tubesheet on hot leg to tube end on hot leg