



South Carolina Electric & Gas Company  
P.O. Box 88  
Jenkinsville, SC 29065  
(803) 345-4040

John L. Skolds  
Vice President  
Nuclear Operations

April 23, 1993  
Refer to: RC-93-0102

Director, Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Mr. G. F. Wunder

Gentlemen:

Subject: VIRGIL C. SUMMER NUCLEAR STATION  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
STEAM GENERATOR F\* AND L\* REPORT

In accordance with Virgil C. Summer Nuclear Station Technical Specification 4.4.5.5.d, please find attached a list of the tubes in which the F\* and L\* criteria were applied subsequent to the seventh inservice eddy current examination. The examination was performed on 100% of available (unplugged) tubes in the hot leg tubesheet region, utilizing Motorized Rotating Pancake Coil eddy current testing techniques. A 100% Bobbin Coil inspection of the full length tubing (Tube End Cold to Tube End Hot) was also performed on all available tubes. The attached list identifies each F\* and L\* tube and denotes the location and size of degradation. The location of each degradation is measured in inches from the tube end on the hot leg or cold leg (TEH/TEC) up to the degradation, or from the top of the tube sheet (TSH/TSC) down to the degradation. The size is given as the percent through-wall of the defect and associated voltage.

The total number of tubes in which the F\* and L\* criteria were applied in each steam generator is provided in the table below.

	Steam Generator			Total
	A	B	C	
# Tubes with F* Applied	166	229	179	574
# Tubes with L* Applied	34	32	20	86

If there are any questions, please call me at your convenience.

Very truly yours,

John L. Skolds

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Attachment

c: See Page 2

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Director, Office of Nuclear Reactor Regulation  
ONO 930022  
Page 2 of 2

c: O. W. Dixon (w/o attachment)  
R. R. Mahan (w/o attachment)  
R. J. White  
S. D. Ebnetter  
G. F. Wunder  
NRC Resident Inspector  
J. B. Knotts Jr.  
R. E. Kelso  
RTS (ONO 930022)  
File (818.05)  
Central File System

# **STEAM GENERATOR**

**'A'**

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
1	6	87	15.05	TEH + 6.67	F*
1	112	40	1.14	TEH + 11.76	F*
2	4	89	9.16	TEH + 2.15	F*
2	11	86	13.83	TEH + 2.04	F*
2	41	40	3.03	TEH + 15.67	F*
2	69	40	0.3	TSH - 3.40	F*
2	103	40	0.2	TSH - 2.30	L*
3	3	40	0.2	TSH - 3.60	F*
3	10	40	0.3	TSH - 2.90	F*
3	27	97	22.68	TEH + 12.67	F*
3	41	40	4.44	TEH + 7.60	F*
3	43	73	1.73	TEH + 0.92	F*
3	57	40	0.2	TSH - 3.10	F*
3	114	40	13.7	TSH - 4.22	F*
4	5	40	0.3	TSH - 2.70	F*
4	24	40	0.3	TSH - 2.40	L*
4	26	40	0.2	TSH - 2.10	L*
5	2	40	0.2	TSH - 5.40	F*
5	7	40	7.36	TSH - 3.31	F*
5	14	82	8.5	TEH + 16.15	F*
5	26	63	5.96	TEH + 7.34	F*
5	67	40	15.05	TEH + 6.67	L*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
5	114	58	1.14	TEH + 11.76	F*
6	8	51	9.16	TEH + 2.15	F*
6	27	74	13.83	TEH + 2.04	F*
6	47	65	3.03	TEH + 15.67	F*
6	53	40	0.3	TSH - 3.40	L*
6	57	40	0.2	TSH - 2.30	F*
6	59	40	0.2	TSH - 3.60	L*
6	79	74	0.3	TSH - 2.90	F*
7	2	40	22.68	TEH + 12.67	L*
7	3	40	4.44	TEH + 7.60	L*
7	4	40	1.73	TEH + 0.92	F*
7	30	40 40	4.94 0.3	TEH + 14.01 TSH - 1.60	L*
7	51	40	0.3	TSH - 3.50	F*
7	55	40	0.3	TSH - 2.10	L*
7	60	86	18.67	TEH + 5.17	F*
7	66	64	8.75	TEH + 2.30	F*
7	92	40	0.2	TSH - 3.20	F*
7	93	40	0.4	TSH - 6.30	F*
8	58	66 40	4.93 0.3	TEH + 17.51 TSH - 3.30	F*
8	59	40	0.3	TSH - 3.10	F*
8	94	40	0.3	TSH - 4.10	F*
9	10	40	0.2	TSH - 3.00	F*
9	13	40	0.2	TSH - 3.00	F*
9	48	76	31.88	TEH + 1.46	F*
9	57	40	0.2	TSH - 2.20	L*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
9	59	40	0.2	TSH - 3.10	F*
9	60	40	0.1	TSH - 2.10	L*
9	72	40 40	5.31 0.2	TSH - 3.31 TSH - 2.60	L*
9	108	40	0.1	TSH - 4.00	F*
10	20	66	4.69	TEH + 13.97	F*
10	38	92	2.37	TEH + 16.55	F*
10	43	40	4.87	TEH + 10.09	F*
10	66	40	8.47	TEH + 4.59	F*
10	91	40	6.64	TEH + 9.78	F*
11	52	40	0.2	TSH - 2.00	L*
11	74	40 40	9.77 0.3	TSH - 3.28 TSH - 2.80	F*
11	75	63 40	17.62 0.2	TSH - 4.10 TSH - 3.50	F*
11	81	81	2.03	TEH + 13.86	F*
11	82	85	2.75	TEH + 14.13	F*
12	32	82 40	13.72 0.4	TSH - 2.11 TSH - 2.10	F*
12	51	40 40	8.23 0.3	TSH - 3.37 TSH - 2.80	F*
12	52	40 40	9.33 0.3	TEH + 17.01 TSH - 3.60	F*
12	53	40	0.5	TSH - 2.10	F*
12	68	43	5.53	TEH + 6.95	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
12	88	74 40	6.99 0.2	TEH + 15.29 TSH - 4.90	F*
13	19	46	5.68	TEH + 10.85	F*
13	46	94	7.68	TEH + 3.06	F*
13	53	40	0.2	TSH - 3.20	F*
13	69	40	13.89	TEH + 10.94	F*
13	82	40	0.2	TSH - 4.40	F*
13	93	40	0.2	TSH - 2.20	L*
15	16	40	0.2	TSH - 3.00	F*
15	22	40	4.73	TEH + 6.90	F*
15	33	40	0.2	TSH - 6.20	F*
15	53	40	0.2	TSH - 4.10	F*
15	63	40	0.2	TSH - 2.20	F*
15	80	40	0.2	TSH - 4.40	F*
15	108	51	1.57	TEH + 12.99	F*
16	15	40 40	5.63 0.2	TEH + 16.56 TSH - 4.00	F*
16	36	40	0.2	TSH - 2.30	F*
16	39	40	0.2	TSH - 3.20	F*
16	44	40 40	13.95 0.2	TEH + 14.98 TSH - 1.90	L*
16	49	40	0.2	TSH - 2.80	F*
16	57	97	12.45	TEH + 2.25	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
17	11	NDD 40	0.2	TSH - 3.90	F*
17	21	40	4.69	TEH + 8.13	F*
17	51	40	9.41	TEH + 15.78	F*
17	58	40	7.79	TSH - 3.35	L*
18	22	40 40	5.85 0.3	TEH + 16.83 TSH - 4.40	F*
18	53	40	0.2	TSH - 4.00	F*
18	56	68 40	4.86 0.2	TSH - 3.09 TSH - 3.10	L*
18	58	40	0.2	TSH - 5.10	F*
18	70	40	0.2	TSH - 3.40	F*
18	74	40	0.3	TSH - 1.80	L*
18	98	40	0.2	TSH - 2.30	L*
19	29	77	37.67	TEH + 8.24	F*
19	52	40	0.3	TSH - 3.80	F*
19	61	49	9.39	TEH + 14.93	F*
19	64	40 40	12.91 0.2	TSH - 4.29 TSH - 4.00	F*
19	91	40	0.2	TSH - 5.10	F*
20	11	40	0.2	TSH - 3.90	F*
20	17	40	4.51	TEH + 6.94	F*
20	20	40	4.19	TEH + 13.62	F*
20	31	40 40	9.66 0.3	TSH - 3.46 TSH - 3.10	F*
20	64	40	29.3	TEH + 4.89	F*
20	70	40 40	5.31 0.2	TEH + 16.91 TSH - 3.70	F*
21	28	91	82.76	TEH + 11.99	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
21	43	40	0.2	TSH - 2.30	L*
21	45	40	0.2	TSH - 3.70	F*
21	46	40 40	4.67 0.2	TSH - 2.31 TSH - 2.30	F*
21	63	93	22.25	TEH + 6.48	F*
22	46	40 40	4.78 0.3	TSH - 1.31 TSH - 1.20	L*
22	82	40	0.3	TSH - 1.20	L*
23	11	40	2.69	TEH + 13.3	F*
23	49	40	0.4	TSH - 2.10	L*
23	76	40 40	6.82 0.1	TSH - 3.36 TSH - 2.80	F*
23	91	55	9.26	TSH - 3.98	F*
24	28	91	3.84	TEH + 16.09	F*
24	44	40 40	8.97 0.3	TSH - 2.28 TSH - 2.70	F*
24	78	40 40	5.03 0.3	TSH - 3.28 TSH - 3.20	F*
24	82	40	0.4	TSH - 3.30	F*
24	99	40	0.2	TSH - 5.40	F*
25	38	40	5.8	TEH + 12.71	F*
25	46	84	54.21	TEH + 15.98	F*
25	64	40	0.2	TSH - 2.90	F*
25	81	40	0.3	TSH - 2.90	L*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
26	38	40	0.4	TSH - 2.00	F*
26	42	65	4.06	TEH + 3.53	F*
26	44	40 40	5.27 0.3	TSH - 2.35 TSH - 2.30	L*
26	82	40	0.3	TSH - 3.30	F*
27	14	40	0.2	TSH - 3.00	F*
27	30	62 40	11.2 0.1	TEH + 15.2 TSH - 5.00	F*
27	33	40	0.2	TSH - 5.10	F*
27	44	40	6.55	TEH + 14.83	F*
27	52	74 40	6.27 0.3	TEH + 15.98 TEH - 4.70	F*
27	53	79	22.6	TEH + 15.03	F*
27	70	51 40	4.91 0.2	TEH + 15.98 TSH - 4.50	F*
27	105	40	1.56	TEH + 6.03	F*
28	57	97 40	1.17 0.2	TSH + 0.56 TSH - 3.60	F*
28	102	40	3.42	TSC - 2.25	F*
29	31	89 40	18.06 0.2	TEH + 16.55 TSH - 2.20	F*
29	38	86	30.67	TEH + 16.98	F*
29	43	56	9.43	TEH + 15.08	F*
29	68	89 40	13.61 0.4	TEH + 15.75 TSH - 4.90	F*
30	17	40	0.2	TSH - 4.00	F*
30	46	59	23.75	TEH + 4.63	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
30	80	74	2.29	TEC + 14.85	F*
30	103	40 40	8.02 0.3	TEH + 16.41 TSH - 4.70	F*
31	12	75 40	4.01 0.1	TEH + 16.41 TSH - 4.30	F*
31	52	40	7.18	TEH + 13.39	F*
31	56	62	23.9	TEH + 4.10	F*
32	38	79 40	14.78 0.2	TEH + 13.09 TSH - 3.10	F*
32	47	79 40	16.6 0.2	TSH - 3.33 TSH - 2.40	F*
32	48	40	5.18	TEH + 16.69	F*
32	52	79 40	27.17 0.4	TSH - 3.39 TSH - 2.90	F*
32	64	87 40	58.11 0.4	TSH - 3.15 TSH - 3.00	F*
32	81	40	0.3	TSH - 5.40	F*
32	103	40	4.14	TEH + 12.54	F*
33	21	40	0.3	TSH - 3.20	F*
33	90	40	0.2	TSH - 5.10	F*
34	48	65	16.29	TEH + 2.12	F*
35	48	40 40	5.05 0.3	TSH - 3.23 TSH - 2.60	F*
35	77	40	15.27	TEH + 12.04	F*
36	16	40 40	14.14 0.2	TSH - 2.37 TSH - 2.00	L*
36	22	40	0.3	TSH - 3.30	L*
36	39	40	0.2	TSH - 4.20	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
36	84	40 40	3.85 0.3	TSH - 2.26 TSH - 2.20	L*
36	100	91	3.15	TEH + 13.57	F*
37	23	49	16.26	TEH + 2.34	F*
37	57	86 40	36.3 0.3	TSH - 3.30 TSH - 3.10	F*
37	69	40	2.01	TSC - 2.39	F*
38	41	82	8.97	TEH + 15.98	F*
38	58	48	7.47	TEH + 8.30	F*
38	59	91	7.68	TEH + 14.4	F*
38	91	97	25.41	TEH + 1.02	F*
39	71	40	1.74	TEH + 13.87	F*
39	77	93 40	35.97 0.4	TSH - 4.00 TSH - 3.30	F*
40	72	93 40	33.8 0.4	TSH + 0.24 TSH - 4.70	F*
41	25	89	11.73	TEH + 11.58	F*
41	36	52	18.47	TEH + 3.10	F*
41	51	40 40	7.48 0.2	TSH - 2.63 TSH - 2.00	L*
41	71	88 40	57.92 0.3	TSH - 2.34 TSH - 1.90	F*
41	89	40	0.2	TSH - 2.10	L*
41	91	70	2.98	TEH + 14.14	F*
41	95	83	17.55	TEH + 13.82	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'A'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
42	78	40 40	4.9 0.4	TSH - 3.48 TSH - 3.40	F*
42	83	85 40	3.43 0.4	TSH - 4.19 TSH - 4.20	F*
43	25	87	19.47	TEH + 15.76	F*
43	78	40	0.4	TSH - 6.50	F*
43	82	43	6.88	TEH + 15.06	F*
43	92	71 40	6.11 0.3	TSH - 2.26 TSH - 2.10	L*
45	40	40 40	5.33 0.2	TEH + 16.04 TSH - 3.20	L*
45	74	40	0.2	TSH - 2.00	L*
47	83	58 40	7.4 0.3	TSH - 5.04 TSH - 5.10	F*
47	87	53 40	9.91 0.2	TSH - 5.17 TSH - 5.10	F*
48	45	40	0.2	TSH - 4.50	F*
48	74	77 40	5.86 0.3	TSH - 4.16 TSH - 4.00	F*
49	35	10 40	0.5 0.3	08C + 0.00 TSH - 2.60	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

# **STEAM GENERATOR**

**'B'**

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
1	83	41	10.17	TEH + 15.02	F*
2	11	45	2.22	TEC + 9.93	F*
2	26	40	0.26	TSH - 3.06	F*
2	31	40	10.82	TSH - 4.91	F*
2	35	40	10.47	TSH - 4.14	F*
2	68	40	16.54	TEH + 5.09	F*
2	71	73	6.43	TEH + 2.89	F*
2	75	40	22.97	TEH + 8.05	F*
2	105	40	6.17	TEH + 14.62	F*
3	3	40	0.20	TSH - 3.72	F*
3	10	40 40	0.19 0.11	TSH - 2.27 TSH - 3.02	F*
3	15	40	0.23	TSH - 2.89	F*
3	18	40	11.23	TSH - 4.18	F*
3	27	40	11.93	TEH + 13.47	F*
3	69	76	33.47	TEH + 3.22	F*
3	70	99	15.77	TEH + 5.43	F*
3	71	88	22.88	TEH + 6.01	F*
3	72	76	54.29	TEH + 3.00	F*
3	76	59	8.88	TEH + 3.15	F*
3	83	47	6.95	TEH + 11.65	F*
3	90	40	0.21	TSH - 2.17	L*
4	3	40	1.33	TEC + 9.04	F*
4	4	40	3.67	TEC + 5.09	F*
4	8	40	0.24	TSH - 3.10	L*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
4	59	82	3.14	TEH + 13.78	F*
4	63	40	4.47	TEH + 17.20	F*
4	67	90	57.88	TEH + 16.26	F*
4	76	91	23.55	TEH + 8.22	F*
4	80	40	14.53	TSH - 3.32	F*
4	89	40	2.94	TSH - 3.33	F*
4	94	40	0.21	TSH - 2.14	L*
4	98	40	0.19	TSH - 2.34	L*
5	1	42	3.24	TEC + 15.79	F*
5	65	75	17.71	TSH - 2.33	F*
5	75	40	23.14	TEH + 12.14	F*
6	25	40	9.44	TEH + 16.92	L*
6	30	40	14.14	TEH + 16.84	F*
6	40	62	16.68	TEH + 14.46	F*
6	64	55	31.26	TEH + 6.27	F*
6	66	70	18.89	TEH + 6.27	F*
6	78	43	1.2	TEH + 3.90	F*
7	35	98	12.84	TEH + 13.75	F*
7	37	70	11.94	TSH - 3.32	F*
7	40	40	8.98	TSH - 2.5	F*
7	44	61	27.97	TEH + 6.43	F*
7	48	40	0.32	TSH - 4.67	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
8	11	40 40	0.11 0.16	TSH - 1.64 TSH - 2.37	L*
8	59	49	12.63	TEH + 16.73	L*
8	69	75	18.82	TSH - 3.36	L*
8	78	40	8.06	TEH + 15.84	F*
9	20	40	0.33	TSH - 3.78	F*
9	21	40	7.09	TEH + 11.12	F*
9	32	98	25.1	TEH + 7.75	F*
9	33	40	0.26	TSH - 2.99	F*
10	24	56	16.66	TSH - 1.87	F*
10	27	65	14.4	TEH + 15.87	F*
10	33	40	0.16	TSH - 2.99	F*
10	51	40	7.34	TSH - 3.48	F*
10	56	40	7.55	TEH + 16.8	F*
10	57	40	6.76	TSH - 2.38	F*
10	61	40	0.16	TSH - 3.59	F*
10	99	78	10.86	TEH + 4.11	F*
11	11	40 40	0.13 0.19	TSH - 2.37 TSH - 3.08	F*
11	21	67	12.2	TEH + 14.78	F*
11	25	71	34.69	TEH + 13.11	F*
11	49	41	11.07	TEH + 16.78	F*
11	50	40	7.75	TSH - 3.46	F*
11	54	47	15.04	TEH + 15.71	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
11	55	55	20.11	TEH + 15.95	F*
11	56	48	18.42	TEH + 10.32	F*
11	57	59	11.31	TEH + 14.81	F*
12	25	90	43.3	TEH + 5.23	F*
12	26	40	0.30	TSH - 2.93	F*
12	32	40	10.42	TEH + 15.88	L*
12	49	64	16.01	TSH - 3.40	F*
12	52	65	10.46	TEH + 13.81	F*
12	60	40	8	TEH + 11.79	F*
13	15	40	0.16	TSH - 3.78	F*
13	16	40	0.23	TSH - 1.97	L*
13	25	46	10.91	TSH - 3.34	F*
13	28	55	18.87	TEH + 7.44	F*
13	30	40	8.95	TSH - 3.34	F*
13	45	40	0.24	TSH - 4.29	F*
13	56	75	1.00	TEH + 6.42	F*
14	4	40	0.13	TSH - 1.63	L*
14	10	51	1.79	TEH + 5.75	F*
14	19	40	0.20	TSH - 2.73	F*
14	32	40	6.80	TSH - 2.40	L*
14	39	40	0.25	TSH - 4.21	F*
14	40	40	0.18	TSH - 3.22	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
14	42	40	0.19	TSH - 4.32	F*
14	55	98	36.05	TEH + 14.13	F*
14	56	54	9.10	TEH + 14.70	F*
15	14	40	0.26	TSH - 2.01	L*
15	16	40	3.85	TEH + 12.95	F*
15	19	52	12.45	TSH - 3.29	F*
15	21	40 40 40	0.30 0.23 0.10	TSH - 1.91 TSH - 2.83 TSH - 3.78	L*
15	24	40	0.21	TSH - 3.30	F*
15	27	71	14.24	TEH + 12.04	F*
15	29	40	0.23	TSH - 2.01	L*
15	32	40	0.19	TSH - 3.73	L*
15	37	40	8.31	TSH - 2.37	L*
15	44	40	6.87	TEH + 12.98	F*
15	48	69	3.32	TEH + 11.93	F*
15	52	40	8.54	TEH + 15.81	F*
15	53	40	7.15	TSH - 3.38	F*
15	71	40	6.21	TEH + 14.81	F*
16	22	40	5.27	TSH - 3.33	F*
16	14	40	0.23	TSH - 2.89	F*
16	44	44	9.41	TEH + 16.74	F*
16	50	40	5.62	TEH + 17.8	F*
16	58	97	15.59	TEH + 3.00	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
17	10	57	9.13	TEH + 16.13	F*
17	12	40	8.33	TEH + 14.8	F*
17	14	40	5.62	TSH - 3.45	F*
17	17	40	10.77	TEH + 14.91	F*
17	74	40	2.62	TEC + 8.38	F*
17	79	40	1.72	TEH + 10.77	F*
18	5	40	5.62	TEH + 12.75	F*
18	8	40	9.16	TEH + 16.88	F*
18	9	40	9.93	TEH + 15.7	F*
18	11	40	7.46	TEH + 14.36	F*
8	12	40	7.12	TEH + 12.21	F*
18	17	40	5.51	TEH + 11.88	F*
18	75	40	4.57	TEH + 16.91	F*
19	19	73	11.93	TEH + 16.73	F*
19	75	66	19.14	TSH - 2.29	F*
19	100	89	4.15	TEH + 14.96	F*
20	39	40	8.75	TEH + 11.07	F*
20	42	40	4.95	TEH + 9.92	F*
20	45	40	13.76	TEH + 13.00	F*
20	51	34	9.39	TEH + 15.83	F*
20	73	40	0.43	TSH + 0.74	F*
21	18	40	7.64	TEH + 13.70	F*
21	27	40	0.23	TSH - 2.89	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
21	33	40	7.07	TEH + 16.94	F*
21	51	40	14.99	TSH - 3.30	F*
21	109	42	6.5	TEH + 11.36	F*
22	16	40	8.18	TEH + 12.18	F*
22	58	40	7.57	TEH + 15.91	F*
23	11	40	6.33	TEH + 15.86	F*
23	19	40	0.23	TSH - 2.83	F*
23	22	40	0.23	TSH - 3.31	F*
23	28	40	0.46	TSH - 3.33	F*
23	75	40	0.20	TSH - 4.44	F*
24	18	40	6.92	TSH - 3.27	F*
24	19	40	0.16	TSH - 4.25	F*
24	34	40	11.24	TEH + 12.17	F*
24	36	40	0.22	TSH - 5.23	F*
24	37	40	0.29	TSH - 2.31	F*
25	22	40	8.92	TEH + 13.94	F*
25	24	93	41.75	TEH + 14.16	F*
25	51	40	0.31	TSH - 2.33	L*
26	14	57	52.37	TEH + 2.32	F*
26	22	40	0.20	TSH - 3.68	F*
26	25	40	0.16	TSH - 3.82	L*
26	34	40	0.25	TSH - 4.29	F*
26	80	40	12.68	TEH + 15.55	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
27	14	93	55.15	TEH + 1.21	F*
27	17	84	9.32	TEH + 2.01	F*
27	20	40	0.13	TSH - 2.11	L*
27	25	40	0.53	TSH - 2.80	F*
27	89	98	30.23	TEH + 12.82	F*
27	107	81	25.35	TEH + 1.82	F*
28	28	59	5.49	TEH + 13.97	F*
28	47	55	9.08	TEH + 10.54	F*
28	71	40	0.18	TSH - 4.51	F*
29	28	79	3.46	TEH + 10.96	F*
29	31	40	6.14	TEH + 13.13	F*
29	35	40	4.89	TEH + 12.75	F*
29	40	40	9.88	TEH + 14.70	F*
29	83	40	5.71	TEH + 13.6	F*
29	84	40	0.24	TSH - 3.58	L*
30	20	40	10.34	TSH - 3.31	F*
30	25	40	7.78	TEH + 16.71	F*
30	37	73	21.54	TEH + 7.60	F*
30	41	83	24.73	TEH + 8.20	F*
30	44	40	0.28	TSH - 4.20	F*
30	72	40	0.29	TSH - 4.12	F*
30	78	40	1.99	TEH + 4.18	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
31	16	40	0.16	TSH - 2.07	L*
31	18	40	0.27	TSH - 3.28	F*
31	22	40	0.30	TSH - 3.75	F*
31	23	40	9.98	TSH - 3.29	F*
31	27	45	7.29	TEH + 13.99	L*
31	31	93	51.33	TEH + 12.98	F*
31	37	85	19.3	TEH + 10.59	F*
31	46	95	5.03	TEH + 14.78	F*
31	63	70	17.66	TEH + 15.07	F*
31	65	73	38.18	TEH + 12.06	F*
32	25	68	15.29	TEH + 16.12	F*
32	26	40	14.41	TSH - 2.33	L*
32	27	65	9.69	TEH + 16.92	F*
32	33	73	13.51	TEH + 11.15	F*
32	35	40	0.29	TSH - 3.32	F*
32	44	40	15.39	TEH + 16.81	F*
32	60	45	24.28	TEH + 12.2	F*
32	62	90	3.29	TEH + 15.42	F*
32	63	40	26.01	TEH + 13.45	F*
32	67	40	2.7	TEH + 4.03	F*
32	68	40	0.33	TSH - 4.29	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
33	22	44	2.93	TEC + 12.62	F*
33	26	40	8.56	TEH + 14.95	F*
33	34	40	6.7	TSH - 2.36	F*
33	40	80	11.62	TSH - 3.33	F*
33	61	40	7.57	TSH - 3.43	F*
33	62	40	9.25	TEH + 16.00	F*
34	15	61	16.36	TEH + 1.41	F*
34	16	96	1.65	TEC + 7.12	F*
34	18	40	0.23	TSH - 1.21	L*
34	30	60	14.81	TSH - 2.39	F*
34	34	52	11.52	TSH - 3.39	F*
34	40	50	45.01	TEH + 2.37	F*
34	52	40	12.54	TEH + 16.85	F*
34	58	40	7.27	TSH - 2.36	F*
34	64	55	3.23	TSH - 2.28	F*
35	20	40	0.20	TSH - 1.94	L*
35	31	40	0.28	TSH - 2.07	L*
35	38	73	19.07	TEH + 3.45	F*
36	15	95	5.2	TEH + 9.49	F*
36	21	40	7.57	TEH + 16.73	L*
36	29	40	0.24	TSH - 3.18	F*
36	31	40	6.47	TSH - 3.32	F*
36	32	84	14.1	TEH + 8.12	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
36	34	40	6.81	TEH + 15.97	F*
36	47	40	7.74	TEH + 12.17	F*
36	48	40	6.88	TEH + 15.20	F*
36	72	40	2.43	TEH + 4.30	F*
37	26	65	10.29	TEH + 15.08	F*
37	42	65	8.34	TEH + 11.16	F*
37	60	52	21.31	TEH + 3.63	F*
38	35	40	0.18	TSH - 3.35	F*
38	43	40	0.29	TSH - 4.06	F*
38	90	40	7.56	TSH - 3.20	F*
39	30	40	0.32	TSH - 4.08	F*
39	94	40	3.67	TSC - 2.45	F*
40	24	40	0.30	TSH - 1.97	L*
40	26	40	9.06	TEH + 14.85	L*
40	30	40	0.28	TSH - 2.24	L*
40	34	40	0.52	TSH - 3.98	F*
40	47	40	0.23	TSH - 5.25	F*
40	62	40	8.55	TEH + 15.83	F*
40	67	97	19.87	TEH + 16.66	F*
41	40	40	21.15	TEH + 3.32	F*
42	40	40	0.21	TSH - 3.29	F*
42	41	65	13.35	TEH + 14.93	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'B'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
44	35	64	49.3	TEH + 6.00	F*
44	39	40	0.25	TSH - 3.29	F*
44	79	40	0.20	TSH - 2.96	F*
45	34	40	0.16	TSH - 2.06	L*
45	39	40	0.25	TSH - 3.33	F*
45	52	40	10.84	TSH - 3.15	F*
46	28	40	2.36	TEH + 10.23	F*
46	39	40	6.78	TSH - 3.37	F*
46	67	40	0.32	TSH - 4.18	F*
47	49	40	16.13	TEH + 15.57	F*
47	55	92	3.52	TEH + 14.14	F*
48	34	85	25.43	TSH - 3.16	F*
48	42	40	4.42	TEH + 7.02	F*
49	37	40	4.4	TEH + 6.19	F*
49	51	40	6.64	TEH + 8.27	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



# **STEAM GENERATOR**

**'C'**

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
1	10	42	8.73	TEH+12.50	F*
1	17	91 40	53.10 0.30	TEH+15.00 TSH-5.30	F*
1	20	76	8.54	TEH+3.17	F*
1	64	70	25.00	TEH+5.11	F*
1	68	55	15.90	TEH+6.76	F*
3	14	40 40	6.92 0.30	TSH-2.56 TSH-2.10	L*
3	18	40	0.10	TSH-2.80	L*
3	20	40 40	8.90 0.20	TEH+17.10 TSH-3.60	F*
3	73	40 40	7.80 0.20	TSH-2.44 TSH-1.70	L*
3	93	91 40	29.30 0.30	TEH+14.9 TSH-5.60	F*
4	4	40 40	5.67 0.20	TSH-2.30 TSH-2.00	L*
4	13	40 40	13.20 0.20	TEH+14.9 TSH-3.10	F*
4	16	40	0.10	TSH-4.90	F*
4	18	40	0.10	TSH-2.80	F*
4	27	40 40	7.36 0.3	TEH+17.70 TSH-2.60	F*
4	88	52	7.53	TEH+13.90	F*
4	94	76	30.90	TEH+2.50	F*
5	11	40	0.20	TSH-5.00	F*
5	15	40 12	9.18 0.10	TEH+14.80 TSH-3.20	F*
5	74	50	30.50	TEH+2.92	F*
6	14	97	15.40	TEH+11.6	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
6	15	43	7.87	TEH+3.56	F*
6	19	51 40	11.6 0.30	TSH-2.29 TSH-1.90	L*
6	53	86	4.20	TEH+4.08	F*
6	93	40 40	11.50 0.20	TSH-4.24 TSH-3.80	F*
6	96	40	7.64	TEC+9.87	F*
6	102	82 40	14.70 0.40	TSH-4.22 TSH-4.30	F*
6	110	40	3.91	TEC+3.27	F*
7	47	96	1.40	TEH+6.49	F*
7	56	40	0.20	TSH-5.20	F*
7	90	40	0.20	TSH-2.80	F*
7	93	40	0.30	TSH-3.80	F*
7	95	40	0.20	TSH-3.50	F*
7	105	40	0.20	TSH-2.20	L*
8	10	95	2.53	TEH+9.37	F*
8	16	40	23.30	TSH-4.10	F*
8	20	76 40	17.50 0.20	TEH+19.00 TSH-1.90	F*
8	30	40	0.20	TSH-5.90	F*
8	43	40	0.20	TSH-3.70	F*
8	44	56 40	4.64 0.20	TSH-2.30 TSH-1.90	L*
8	53	40	10.3	TEH+4.20	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
8	67	69 40	11.30 0.10	TEH+18.50 TSH-2.20	F*
8	91	40	0.20	TSH-5.60	F*
9	5	40	0.20	TSH-3.10	F*
9	6	40	0.20	TSH-2.50	F*
9	12	40	0.20	TSH-2.50	F*
9	22	40 40	9.75 0.20	TEH+17.80 TSH-2.60	L*
9	23	40 40	9.67 0.20	TEH+18.00 TSH-2.60	F*
9	36	40 40	10.70 0.30	TEH+15.10 TSH-5.80	F*
9	50	40	0.40	TSH-5.00	F*
9	53	90 40	43.50 0.40	TSH-2.26 TSH-2.30	F*
9	54	40	8.82	TEH+14.00	F*
10	47	63	1.75	TEH+10.30	F*
10	51	40	21.50	TEH+11.40	F*
10	65	40 40	8.12 0.20	TEH+16.80 TSH-3.30	F*
11	2	40	0.10	TSH-3.20	F*
11	5	73 40	15.40 0.20	TEH+16.90 TSH-3.80	F*
11	8	40 40	7.18 0.20	TEH+15.20 TSH-3.60	F*
11	17	46 40	9.46 0.30	TEH+16.00 TSH-4.30	F*
11	22	40	0.30	TSH-2.50	F*
11	47	40 40	3.13 0.20	TSH-3.22 TSH-3.30	F*
11	74	71 40	13.40 0.20	TEH+17.00 TSH-3.90	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
12	10	40 40	8.88 0.20	TEH+15.90 TSH-3.10	L*
12	23	40 40	6.54 0.20	TEH+15.80 TSH-4.10	F*
12	56	40 40	3.30 0.60	TEH+17.70 TSH-3.20	F*
12	79	40 40	9.34 0.20	TEH+15 TSH-3.10	F*
12	101	40 40	8.86 0.10	TSH-4.00 TSH-3.40	F*
13	7	50 40	8.96 0.10	TEH+13.30 TSH-2.50	F*
13	17	40 40	9.17 0.30	TEH+15.00 TSH-5.20	F*
13	25	63 40	7.98 0.09	TEH+15.10 TSH-4.90	F*
13	35	40	0.20	TSH-3.60	F*
13	38	40	0.20	TSH-4.50	F*
13	45	40 40	6.98 0.20	TEH+15.60 TSH-6.20	F*
13	77	54 40	4.65 0.20	TEH+15.90 TSH-5.00	F*
13	88	99 40	4.35 0.30	TSH-4.39 TSH-4.00	F*
13	104	79 40	5.60 0.30	TSH-2.23 TSH-2.20	F*
14	6	40	0.10	TSH-3.60	F*
14	19	40	10.20	TEH+14.60	F*
14	26	75 40	17.30 0.20	TEH+17.10 TSH-3.50	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
14	87	40	0.20	TSH-4.10	F*
15	15	45 40	6.89 0.50	TEH + 15.20 TSH-5.80	F*
15	20	40 40	10.10 0.30	TSH-2.25 TSH-1.90	F*
15	37	40	0.10	TSH-0.90	L*
15	47	40 40	11.80 0.20	TSH-3.26 TSH-3.40	L*
16	9	52	30.10	TEH + 9.54	F*
16	38	59	6.87	TEH + 14.00	F*
16	45	40 40	5.94 0.40	TEH + 15.90 TSH-5.20	F*
16	101	40	0.10	TSH-3.70	F*
17	7	85 40	20.10 0.20	TEH + 16.40 TSH-3.00	F*
17	11	40 40	8.55 0.20	TEH + 14.20 TSH-5.60	F*
17	16	40	0.10	TSH-3.00	F*
17	26	40	8.42	TEH + 14.90	F*
17	37	40	7.36	TEH + 13.90	F*
17	47	40	13.30	TSH-10.50	F*
17	69	40	9.91	TEH + 11.10	F*
17	100	40	0.10	TSH-3.70	F*
18	6	40 40	7.58 0.10	TEH + 16 TSH-3.00	F*
18	10	40 40	9.59 0.20	TEH + 15.20 TSH-3.70	F*
18	13	40 40	5.76 0.20	TEH + 16.90 TSH-2.50	L*
18	67	40	0.20	TSH-5.20	F*
18	91	40	0.20	TSH-5.60	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
19	9	40 40	12.50 0.30	TEH+17.90 TSH-1.90	L*
19	15	40 40	7.19 0.20	TSH-2.30 TSH-2.10	L*
19	18	40 40	6.20 0.20	TSH-2.41 TSH-1.90	F*
19	53	40	10.30	TEH+13.90	F*
19	54	40	5.59	TEH+14.10	F*
19	92	40	0.30	TSH-3.90	F*
19	102	40	0.20	TSH-3.20	F*
20	6	40	0.10	TSH-3.00	F*
20	30	40	8.99	TEH+14.20	F*
20	61	40	0.00	TSH-6.40	F*
20	71	40	0.20	TSH-4.10	F*
20	78	40 40	8.90 0.30	TSH-3.20 TSH-3.00	F*
20	87	40	0.20	TSH-4.10	F*
21	16	40	0.50	TSH-5.10	F*
21	42	40	6.14	TEH+12.10	F*
21	50	45	13.20	TEH+4.36	F*
21	62	40 40	6.17 0.20	TSH-2.31 TSH-2.00	L*
21	65	40 40	6.22 0.20	TEH+16.10 TSH-5.00	F*
21	74	48	26.10	TEH+12.10	F*
22	6	40 40	6.19 0.30	TEH+13.10 TSH-3.60	F*
22	15	40	0.30	TSH-2.70	F*
22	22	40	6.90	TEH+12.00	F*
22	48	40	0.20	TSH-2.60	F*
22	58	40	12.60	TEH+13.8	F*

Key:

F\* - F\* Criteria Applied

L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
22	102	88 40	10.00 0.20	TSH-2.23 TSH-1.90	F*
23	19	53	2.07	TEH+5.98	F*
23	20	40 40	9.92 0.20	TEH+17.90 TSH-2.80	F*
23	23	40	7.96	TEH+2.05	F*
23	52	71	9.27	TEH+7.60	F*
23	59	82 40	19.60 0.20	TSH-4.08 TSH-3.10	F*
23	67	40	0.20	TSH-4.90	F*
23	68	40	0.20	TSH-5.10	F*
23	79	61	4.81	TEH+12.50	F*
23	85	DSI 40	0.51 0.20	02H+0.06 TSH-2.90	F*
23	100	40	8.85	TEH+15.40	F*
24	28	40	5.10	TEH+15.00	F*
24	76	40	6.67	TSC-3.50	F*
24	77	40	0.3	TSH-2.40	F*
24	85	40 40	12.10 0.30	TSH-4.26 TSH-3.80	F*
24	95	88 40	8.73 0.20	TEH+15.80 TSH-4.60	F*
25	29	40	11.80	TEH+14.10	F*
25	30	40	0.30	TSH-5.40	F*
25	103	40	0.20	TSH-3.50	F*
26	44	88 40	24.60 0.30	TEH+15.90 TSH-4.10	F*
26	55	40 40	12.60 0.30	TEH+16.10 TSH-4.80	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
27	12	40 40	5.26 0.20	TEH+16.10 TSH-3.70	F*
27	19	91	7.47	TEH+4.04	F*
27	20	40	7.15	TEH+6.34	F*
27	45	40	8.80	TEH+15.20	F*
27	47	40	8.76	TEH+14.90	F*
27	74	40	10.50	TEH+8.58	F*
28	11	40	0.10	TSH-5.50	F*
28	23	40	8.66	TEH+9.14	F*
28	48	40 40	9.02 0.30	TEH+14.90 TSH-5.60	F*
28	56	40	7.44	TEH+14.30	F*
30	20	63	2.85	TEC+8.14	F*
30	101	40	0.2	TSH-1.90	L*
31	30	40	0.2	TSH-5.40	F*
31	37	40	9.95	TEH+14.20	F*
31	47	70 40	10.7 0.4	TEH+17.00 TSH-4.20	F*
31	73	40	4.33	TSC-3.49	F*
31	75	45 40	9.74 0.3	TSH-3.31 TSH-3.20	F*
31	80	40	0.2	TSH-4.40	L*
31	95	40	0.3	TSH-1.60	L*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied

V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
32	14	46 40	6.93 0.2	TEH+16.80 TSH-3.20	F*
32	15	40	0.4	TSH-4.80	F*
32	20	40 40	5.59 0.2	TEH+12.40 TSH-5.40	F*
32	21	40	0.2	TSH-4.50	F*
32	22	40 40	7.97 0.2	TEH+17.90 TSH-2.60	F*
32	29	40	7.07	TEH+7.03	F*
32	30	40	0.2	TSH-5.40	F*
32	34	73	6.2	TEH+12.10	F*
32	37	40	0.3	TSH-3.80	F*
32	50	40	0.2	TSH-4.80	F*
32	57	93	63.00	TEH+14.30	F*
32	72	40	8.26	TEH+9.36	F*
32	73	40 40	6.60 0.20	TEH+12.20 TSH-5.10	F*
32	86	97	5.47	TEH+4.44	F*
32	94	40	0.20	TSH-1.80	L*
34	15	40	0.50	TSH-2.00	L*
34	73	40	6.13	TSC-3.46	F*
35	14	40	0.30	TSH-3.90	F*
35	18	69 40	9.21 0.20	TEH+16.20 TSH-4.40	F*
35	29	43	6.37	TEH+8.49	F*
35	42	40 40	6.84 0.20	TEH+16.00 TSH-4.60	F*
35	44	40	0.50	TSH-3.60	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied



V. C. Summer Station  
Steam Generator Tube Examination Results

Steam Generator 'C'

ROW	COLUMN	%	VOLTS	LOCATION	DISPOSITION
36	26	67	8.41	TEH+7.48	F*
36	35	57	3.62	TEH+9.33	F*
36	45	40	1.03	TEH+14.60	F*
37	19	40	0.20	TSH-4.60	F*
37	34	40	0.20	TSH-2.80	F*
39	28	40 40	7.66 0.20	TEH+17.00 TSH-3.50	F*
39	32	90	3.46	TEH+15.10	F*
41	34	40	0.20	TSH-3.80	F*
41	38	53	11.40	TEH+3.29	F*
42	33	40	0.30	TSH-5.70	F*
45	31	40	0.20	TSH-4.80	F*
45	75	91 40	14.90 0.20	TEH+15.90 TSH-5.20	F*
46	71	40 40	7.07 0.3	TSH-3.33 TSH-3.20	F*

Key:

F\* - F\* Criteria Applied  
L\* - L\* Criteria Applied