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Subject: Technical Specifications 4.4.5.5.b and 6.9.1.5.b: Report of Steam Generator Tube
Inservice Inspection Results

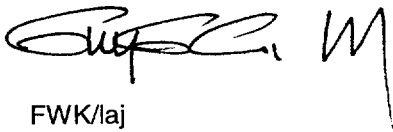
Ladies and Gentlemen:

This letter is submitted in accordance with the Davis-Besse Nuclear Power Station, Unit Number 1, Operating License, Appendix A Technical Specifications. Technical Specification Surveillance Requirement 4.4.5.5.b and Administrative Controls requirement 6.9.1.5.b require the FirstEnergy Nuclear Operating Company (FENOC) to submit the complete results of the Steam Generator tube inservice inspection. These results are presented in Attachment 1.

The Davis-Besse Steam Generator Program follows NEI 97-06, Revision 0, "Steam Generator Program Guidelines." Appendix D of Revision 0 states certain information will be provided to the NRC within 12 months of completing the inservice inspection of the steam generators. Attachment 2 provides this information.

Should you have any questions or require additional information, please contact Mr. David Lockwood, Manager - Regulatory Affairs, at (419) 321-8450.

Very truly yours,



FWK/laj

Attachment

cc: J. E. Dyer, Regional Administrator, NRC Region III
S. S. Sands, NRC/NRR Project Manager
K. S. Zellers, NRC Region III, DB-1 Senior Resident Inspector
Utility Radiological Safety Board

A047

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

Eddy Current Examination Techniques

The tubing in the Once Through Steam Generators (OTSG's) at the Davis-Besse Nuclear Power Station Unit #1 was examined in April, 2000, during the 12th Refueling Outage. The examinations were conducted by Framatome Technologies to meet the requirements of the Davis-Besse Unit #1 Technical Specifications.

The eddy current examinations were performed utilizing a Bobbin Coil, a Rotating Plus Point and Pancake Coil (RPP), and a Rotating Pancake Coil (RPC). The bobbin coil technique was used to perform the standard ASME Code examination for flaw detection. This technique was applied to the complete length of all in-service tubes. The rotating plus point (RPP) and pancake techniques (RPU) were used to examine specific areas of interest. These areas included upper tube end roll expansion regions, critical areas of tubes bordering the sleeved (lane & wedge) region, non-stress relieved roll transitions, the lower tubesheet crevice region and select dent locations. These techniques were also used to characterize all indications reported by the bobbin technique and the pancake coil was used to provide final depth sizing of Tube Support Plate wear indications. Both plus point and bobbin techniques were used to examine tube sleeves. The rotating plus point probe was applied to the rolled regions and lower sleeve end while the bobbin probe was used to examine the unrolled portion. The rotating pancake technique was used to examine plugs.

Attachment 3 contains the Eddy Current Identification Codes used in the tables in this attachment.

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

STEAM GENERATOR #1 (B)

Table1: Number and Extent of Tubes Inspected SG #1:

Examination Technique	Tubes	Extent	Number Inspected
Bobbin	All In-Service	Full Length	15,373 Tubes
Bobbin	All Sleeves	Full Length	212 Tubes
Plus Point	20% of Sleeves	Sleeve Roll Transitions	43 Tubes
Plus Point and Rotating Pancake Coil	21% of In-Service Tubes	Upper Tube Roll Expansion Area	3,254 Tubes
Plus Point and Rotating Pancake Coil	All Non-Stress Relieved Tubes	Upper and Lower Tube Roll Expansion Area	7 Tubes
Rotating Pancake Coil	20% of Hot Leg Roll Plugs	Plug Pressure Boundary	15 Plugs
Plus Point and Rotating Pancake Coil	Tubes bordering the Sleeved Region	15 TSP \pm 1 inch and UTS Secondary Face -1 inch to + 4 inches	83 Tubes
Plus Point and Rotating Pancake Coil	All Tubes with Flaw-Like Indications	Flaw-Like Indication Area	579 Locations
Plus Point and Rotating Pancake Coil	All 11 RFO Dent Locations above the 14 th TSP and 20% of the remaining 11RFO Dent Population	Dent Area	58 Dents
Plus Point and Rotating Pancake Coil	Lower Tube Sheet	Sludge Pile Region	502 Tubes

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

Table 2: Location and Percent of Wall Thickness Penetration for Each Imperfection-SG #1:

Row	Tube	Indication Type	Percent Through Wall	Indication Location
1	6	TWD	16	14S -0.74
2	2	TWD	12	14S -0.77
2	4	TWD	13	14S -0.68
2	27	TWD	14	12S +0.65
3	31	TWD	11	12S +0.71
4	16	TWD	6	10S +0.51
4	39	TWD	17	12S -0.61
5	9	TWD	12	08S +0.69
5	13	TWD	10	10S +0.54
5	31	TWD	5	11S -0.76
6	39	TWD	12	09S +0.62
6	50	TWD	18	13S +0.63
9	60	TWD	9	09S +0.19
10	8	SVI		UTS +13.12
		SVI		UTS +11.72
		SVI		UTS +10.28
10	24	TWD	11	09S -0.75
10	40	TWD	12	14S +0.71
10	65	TWD	13	13S +0.64
		TWD	13	14S -0.59
11	10	SVI		UTS +10.23
		SVI		UTS +13.20
11	48	TWD	16	08S +0.78
11	57	MAA		UTE -0.21
		MAI		UTE -0.42
11	58	TWD	10	06S +0.81
13	2	TWD	12	12S +0.64
14	73	TWD	10	11S +0.24
14	74	TWD	6	11S +0.65
		TWD	20	12S -0.26
15	31	TWD	7	08S +0.28
15	67	TWD	9	09S +0.70
17	77	TWD	11	06S +0.63
17	79	TWD	15	09S -0.40
17	81	TWD	12	10S +0.75
18	4	TWD	13	09S +0.62
18	47	TWD	4	11S -0.69
19	15	TWD	12	08S +0.42
20	79	TWD	13	09S +0.70
20	84	TWD	12	09S +0.25
22	5	TWD	9	09S +0.64
22	88	TWD	10	09S +0.71
25	97	TWD	13	10S +0.66
26	14	TWD	11	12S -0.70

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 2 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
27	96	TWD	10	09S +0.54
27	97	TWD	17	09S +0.58
28	96	TWD	19	09S +0.66
28	99	TWD	17	09S +0.78
28	100	TWD	9	10S +0.63
29	102	TWD	16	10S +0.59
30	104	TWD	15	10S -0.70
31	98	TWD	11	07S -0.78
31	104	TWD	16	09S +0.71
35	108	TWD	17	09S +0.53
36	5	TWD	9	10S +0.47
36	87	TWD	19	08S -0.70
40	52	TWD	14	06S +0.08
41	108	TWD	18	09S -0.33
41	112	TWD	9	09S +0.79
41	114	TWD	7	05S -0.71
42	50	SAA		UTE -0.18
42	112	TWD	16	09S -0.61
43	116	TWD	16	10S +0.59
44	117	TWD	6	10S +0.58
46	114	TWD	19	08S +0.71
47	71	TWD	7	06S +0.29
50	122	TWD	20	09S +0.72
52	89	TWD	11	05S -0.75
53	126	TWD	10	12S -0.75
		TWD	11	12S +0.32
54	116	TWD	14	03S +0.70
56	122	TWD	11	09S +0.69
57	2	TWD	7	05S -0.74
57	109	TWD	11	11S -0.54
59	122	TWD	21	09S +0.69
60	113	TWD	8	03S -0.75
60	127	TWD	17	09S +0.69
60	128	TWD	13	10S +0.57
61	68	TWD	6	06S -0.25
61	102	SVI		07S +26.60
61	121	TWD	21	09S +0.74
61	125	TWD	17	10S +0.47
63	126	TWD	23	09S +0.74
		TWD	16	09S -0.74
		TWD	7	09S +0.72
64	27	TWD	8	04S -0.77
67	1	TWD	19	12S +0.03
67	48	TWD	12	03S +0.75
67	55	TWD	8	06S +0.38

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 2 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
67	118	TWD	15	05S -0.74
68	3	TWD	9	15S -0.66
69	2	TWD	12	12S +0.11
69	3	TWD	9	12S +0.68
70	2	TWD	16	12S +0.45
70	6	TWD	4	12S +0.74
70	14	TWD	7	12S +0.27
70	37	TWD	10	06S +0.52
71	2	TWD	9	13S -0.79
72	2	TWD	16	12S -0.58
73	9	TWD	10	12S +0.76
77	43	TWD	10	04S -0.66
77	68	TWD	11	03S +0.12
79	30	TWD	10	06S +0.70
82	67	SVI		04S +0.89
86	1	MVI		15S +0.22
87	1	TWD	4	06S -0.52
88	116	SVI		15S +0.04
89	54	TWD	6	06S +0.44
92	1	TWD	7	14S +0.63
93	23	SAA		UTE -0.19
94	1	TWD	10	08S -0.58
96	124	TWD	12	05S +0.43
99	2	TWD	5	09S +0.46
99	94	TWD	12	06S -0.68
103	1	SAA		UTE -0.23
103	93	SVI		UTS +21.17
103	113	TWD	7	07S +0.65
104	121	TWD	6	03S -0.70
106	4	SAA		UTE -0.39
109	45	SAA		UTE -0.24
109	69	TWD	14	06S +0.53
112	71	TWD	7	03S -0.75
113	9	TWD	16	08S +0.62
114	4	TWD	12	09S +0.69
115	112	SVI		UTE -0.72
115	113	TWD	14	10S -0.70
115	114	TWD	15	07S -0.66
116	111	TWD	10	10S -0.61
117	1	TWD	8	09S +0.55
117	97	SVI		UTS +8.79
117	104	TWD	7	05S +0.79
119	102	TWD	8	05S +0.70
121	41	TWD	10	04S +0.52
121	90	TWD	10	07S +0.75

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 2 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
121	105	TWD	7	10S -0.65
		TWD	14	10S +0.71
122	6	TWD	7	08S -0.36
122	104	TWD	27	10S -0.56
123	100	TWD	12	10S +0.68
123	102	TWD	19	10S -0.64
124	100	TWD	10	10S -0.69
125	100	SVI		15S -0.22
126	98	TWD	15	10S -0.66
127	49	TWD	12	09S -0.76
127	97	SVI		15S +0.65
128	94	TWD	22	10S -0.64
129	9	TWD	5	06S +0.70
129	93	TWD	15	10S -0.68
129	94	TWD	11	10S -0.67
		TWD	16	11S -0.74
130	93	TWD	16	11S -0.77
132	6	TWD	15	10S +0.66
133	86	TWD	14	14S -0.45
134	50	TWD	9	10S +0.70
134	81	TWD	9	06S +0.70
134	84	TWD	6	12S +0.61
135	79	TWD	10	06S +0.61
137	5	TWD	11	09S -0.71
138	6	TWD	7	10S +0.67
138	75	TWD	11	10S -0.70
139	7	TWD	15	10S +0.59
140	2	TWD	10	12S -0.72
140	60	TWD	22	05S +0.62
141	1	TWD	11	12S -0.59
141	67	TWD	18	14S +0.66
141	68	TWD	12	14S -0.73
		TWD	13	14S +0.22
142	37	TWD	13	07S +0.04
146	46	NEX		UTE -1.01
147	33	TWD	17	10S +0.62
148	22	TWD	11	09S -0.45
148	32	NEX		UTE -1.50
148	39	TWD	9	12S +0.63
148	41	TWD	11	11S +0.32
		TWD	14	11S -0.14
149	19	TWD	8	09S -0.69
149	28	TWD	11	11S -0.21
149	30	TWD	13	10S +0.63
149	32	TWD	13	12S +0.21

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 2 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
149	33	TWD	9	12S +0.31
150	20	TWD	14	10S +0.67
150	24	TWD	15	12S -0.70
		TWD	12	12S +0.56
		SVI		14S +30.96
		TWD	19	14S -0.58
150	27	TWD	11	11S -0.32
151	5	TWD	16	12S +0.71
151	9	TWD	16	14S +0.56
151	14	TWD	7	10S +0.65
		TWD	8	11S -0.82
151	16	TWD	12	14S -0.78

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

Table 3: Identification of Tubes Plugged-SG #1:

Tube	Row	Repair Reason	Location of Imperfection	
10	8	SVI	UTS	+11.72
		SVI	UTS	+10.28
		SVI	UTS	+13.12
11	10	SVI	UTS	+13.20
		SVI	UTS	+10.23
11	57	MAI	UTE	-0.42
		MAA	UTE	-0.21
42	50	SAA	UTE	-0.18
61	102	SVI	07S	+26.60
82	67	SVI	04S	+0.89
86	1	MVI	15S	+0.22
88	116	SVI	15S	+0.04
93	23	SAA	UTE	-0.19
103	1	SAA	UTE	-0.23
103	93	SVI	UTS	+21.17
106	4	SAA	UTE	-0.39
109	45	SAA	UTE	-0.24
115	112	SVI	UTE	-0.72
117	97	SVI	UTS	+8.79
125	100	SVI	15S	-0.22
127	97	SVI	15S	+0.65
146	46	NEX	UTE	-1.01
148	32	NEX	UTE	-1.50
150	24	SVI	14S	+30.96

All tubes were plugged with manual rolled plugs.
No tubes were sleeved or repair rolled.

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

STEAM GENERATOR #2 (A)

Table 4: Number and Extent of Tubes Inspected SG-#2:

Examination Technique	Tubes	Extent	Number Inspected
Bobbin	All In-Service	Full Length	15,044 Tubes
Bobbin	All Sleeves	Full Length	199 Tubes
Plus Point	20% of Sleeves	Sleeve Roll Transitions	40 Tubes
Plus Point and Rotating Pancake Coil	21% of In-Service Tubes	Upper Tube Roll Expansion Area	3,250 Tubes
Plus Point and Rotating Pancake Coil	All Non-Stress Relieved Tubes	Upper and Lower Tube Roll Expansion Area	4 Tubes
Rotating Pancake Coil	20% of Hot Leg Roll Plugs	Plug Pressure Boundary	79 Plugs
Plus Point and Rotating Pancake Coil	Tubes bordering the Sleeved Region	15 TSP \pm 1 inch and UTS Secondary Face -1 inch to + 4 inches	84 Tubes
Plus Point and Rotating Pancake Coil	All Tubes with Flaw-Like Indications	Flaw-Like Indication Area	763 Locations
Plus Point and Rotating Pancake Coil	All 11 RFO Dent Locations above the 14 th TSP and 20% of the remaining 11RFO Dent Population	Dent Area	28 Dents
Plus Point and Rotating Pancake Coil	Lower Tube Sheet	Sludge Pile Region	501 Tubes
Free-Path Verification	All Possible Twisted Tubes	N/A	4 Tubes

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

Table 5: Location and Percent of Wall Thickness Penetration for Each Imperfection SG-#2:

Row	Tube	Indication Type	Percent Through Wall	Indication Location
1	2	TWD	13	11S -0.73
		TWD	8	11S +0.66
1	4	MAA		UTE -0.17
3	3	TWD	14	14S -0.68
3	11	TWD	10	08S -0.27
4	33	TWD	17	09S +0.73
4	35	TWD	9	13S -0.76
4	40	TWD	11	12S -0.73
5	12	TWD	8	10S +0.55
5	20	TWD	11	08S +0.30
5	41	TWD	11	13S -0.67
5	42	TWD	17	13S -0.68
5	45	TWD	14	13S -0.55
		TWD	24	14S -0.65
7	16	TWD	11	07S +0.70
12	1	TWD	20	13S -0.71
12	2	TWD	21	13S -0.69
12	22	TWD	6	07S -0.52
13	2	TWD	21	13S -0.74
14	5	TWD	23	14S -0.71
15	7	TWD	14	13S -0.69
16	2	TWD	20	13S -0.67
16	13	TWD	10	09S -0.71
18	1	TWD	21	13S -0.69
19	53	TWD	12	12S -0.70
20	27	TWD	11	15S -0.73
21	10	TWD	10	03S -0.78
22	19	SAA		UTE -0.18
23	18	SVI		05S +17.65
24	1	TWD	14	08S +0.79
24	46	TWD	7	06S -0.77
25	1	TWD	11	12S +0.59
		TWD	16	12S -0.69
		TWD	16	13S -0.66
25	88	TWD	14	08S +0.71
28	22	SAA		UTE -0.16
30	1	TWD	13	14S -0.60
31	13	TWD	10	08S -0.46
34	1	TWD	17	12S +0.61
34	84	TWD	9	03S -0.79
35	1	TWD	10	11S -0.69
		TWD	15	13S -0.57
36	1	TWD	19	12S +0.70
		TWD	19	13S -0.66

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 5 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
36	2	TWD	14	13S -0.51
37	1	TWD	18	12S +0.51
		TWD	15	13S -0.63
37	2	TWD	12	13S -0.70
37	56	TWD	10	06S +0.58
38	3	TWD	5	12S +0.76
39	116	TWD	10	13S -0.61
40	36	TWD	12	07S +0.24
41	3	TWD	15	13S -0.70
41	8	TWD	9	08S +0.71
41	36	TWD	8	06S +0.61
42	1	TWD	14	13S -0.72
42	67	TWD	9	06S -0.17
43	1	TWD	20	13S -0.67
51	54	TWD	7	06S +0.46
52	1	TWD	22	12S +0.66
		TWD	18	13S -0.71
52	125	TWD	14	13S -0.72
54	1	TWD	6	11S -0.65
		TWD	5	07S +0.61
55	44	NEX		LTE +1.50
58	1	TWD	15	11S -0.62
		TWD	15	12S +0.62
61	4	SVI		14S +0.39
63	1	TWD	8	12S +0.55
		TWD	8	14S +0.64
63	24	NEX		LTE +1.50
65	8	TWD	12	03S -0.79
65	71	SVI		04S +8.71
		SVI		04S +8.70
68	1	TWD	20	14S +0.49
68	74	SVI		04S +4.12
70	1	TWD	12	14S +0.77
70	11	SVI		UTS +12.25
71	2	TWD	12	14S -0.67
71	4	TWD	16	11S +0.60
71	7	TWD	17	11S +0.68
71	66	TWD	12	03S +0.40
72	1	TWD	20	14S +0.45
72	66	TWD	10	03S +0.57
72	77	TWD	8	05S +0.62
		TWD	8	05S +0.63
73	2	TWD	17	14S +0.49
73	27	TWD	13	10S -0.19
73	46	TWD	7	03S -0.68

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 5 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
73	76	TWD	13	05S -0.37
		TWD	16	05S -0.31
74	1	TWD	21	14S +0.47
74	72	TWD	10	10S +0.69
75	34	TWD	11	04S +0.76
77	48	TWD	17	03S +0.56
78	11	TWD	8	07S -0.75
78	23	TWD	13	04S -0.73
78	67	TWD	15	15S -0.70
79	25	TWD	8	11S -0.47
79	44	TWD	11	11S +0.41
80	61	TWD	14	04S -0.69
		TWD	16	07S +0.15
		TWD	5	04S -0.70
81	33	TWD	11	09S +0.60
81	61	TWD	14	11S -0.74
		TWD	20	07S +0.55
82	1	TWD	15	13S -0.66
		TWD	19	06S -0.66
82	7	SVI		UTS +11.27
82	30	TWD	6	08S -0.14
83	9	SAA		UTE -0.23
83	71	SVI		04S +14.55
84	32	TWD	17	09S +0.70
85	63	TWD	12	06S +0.24
85	122	TWD	7	09S -0.16
86	127	TWD	17	13S +0.67
		TWD	21	14S -0.69
87	8	TWD	17	03S +0.75
87	48	SVI		04S +19.58
87	92	TWD	9	05S +0.23
88	4	SAA		UTE -0.26
89	124	TWD	9	08S -0.46
		TWD	14	08S +0.65
89	125	SVI		06S +0.71
		TWD	6	06S +0.79
90	2	SAA		UTE -0.32
90	7	TWD	9	08S -0.77
90	62	TWD	13	05S -0.24
		TWD	7	05S -0.18
91	3	TWD	7	09S +0.25
92	127	TWD	11	08S +0.47
93	89	TWD	9	05S +0.01
98	49	SVI		04S +17.65
99	92	TWD	10	06S -0.03

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 5 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
102	4	TWD	6	08S -0.78
104	93	TWD	7	07S +0.60
105	98	SVI		LTS -1.70
105	116	TWD	10	06S +0.75
109	57	TWD	15	06S +0.71
110	117	TWD	11	13S -0.67
116	22	TWD	7	14S -0.75
116	107	TWD	9	09S -0.72
116	110	TWD	11	09S +0.72
116	111	TWD	7	08S -0.70
117	21	SVI		15S +0.76
117	81	SVI		05S +5.13
118	104	TWD	9	09S +0.75
119	105	TWD	13	10S +0.56
119	107	TWD	13	09S +0.71
120	102	TWD	11	09S +0.80
120	104	TWD	13	09S +0.70
		TWD	16	10S +0.55
121	103	TWD	8	09S +0.72
122	101	TWD	13	04S -0.71
122	104	TWD	11	10S -0.75
123	102	TWD	13	10S -0.70
124	100	TWD	11	10S -0.65
125	99	TWD	6	10S -0.74
127	16	TWD	5	07S -0.55
128	5	TWD	12	10S +0.53
128	6	TWD	18	10S +0.52
128	7	TWD	14	10S +0.66
129	5	TWD	10	10S +0.49
129	8	TWD	14	10S +0.63
130	7	TWD	15	10S +0.64
130	8	TWD	17	10S +0.62
132	1	TWD	10	09S +0.06
133	3	TWD	21	10S -0.69
133	7	TWD	22	10S +0.62
137	6	TWD	15	10S +0.75
		TWD	14	10S -0.64
139	14	TWD	21	04S -0.71
139	74	TWD	11	04S -0.77
140	1	TWD	19	10S -0.70
145	11	TWD	12	04S -0.77
146	31	TWD	18	10S +0.71
146	34	TWD	15	10S +0.65
146	37	TWD	15	10S +0.76
		TWD	3	04S -0.68

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS
Table 5 continued

Row	Tube	Indication Type	Percent Through Wall	Indication Location
147	30	TWD	16	10S +0.72
147	34	TWD	17	10S +0.70
147	36	TWD	22	10S +0.69
148	3	TWD	16	10S +0.62
148	6	SVI		UTS +6.69
148	27	TWD	13	10S -0.72
148	30	TWD	18	10S -0.67
148	32	TWD	9	10S +0.69
149	26	TWD	11	10S +0.67
149	27	TWD	14	10S -0.67
		TWD	8	10S +0.77
149	31	TWD	14	10S +0.72
150	20	TWD	15	10S -0.59
		TWD	10	10S +0.77
150	21	TWD	12	10S -0.64
		TWD	10	10S +0.81
150	25	TWD	18	10S -0.71
		TWD	12	10S +0.78
150	27	TWD	29	10S -0.62
151	1	TWD	13	10S +0.43
151	5	TWD	8	06S -0.52
151	9	MVI		06S -0.08
151	13	TWD	14	10S +0.76
151	15	TWD	11	10S -0.71
		TWD	12	10S +0.76
		TWD	17	13S -0.74

TECHNICAL SPECIFICATION REPORTING REQUIREMENTS

Table 6: Identification of Tubes Plugged-SG #2

Tube	Row	Repair Reason	Location of Imperfection	
1	4	MAA	UTE	-0.17
22	19	SAA	UTE	-0.18
23	18	SVI	05S	+17.65
28	22	SAA	UTE	-0.16
55	44	NEX	LTE	+1.50
61	4	SVI	14S	+0.39
63	24	NEX	LTE	+1.50
65	71	SVI	04S	+8.71
68	74	SVI	04S	+4.12
70	11	SVI	UTS	+12.25
82	7	SVI	UTS	+11.27
83	9	SAA	UTE	-0.23
83	71	SVI	04S	+14.55
87	48	SVI	04S	+19.58
88	4	SAA	UTE	-0.26
89	125	SVI	06S	+0.71
90	2	SAA	UTE	-0.32
98	49	SVI	04S	+17.65
105	98	SVI	LTS	-1.70
117	21	SVI	15S	+0.76
117	81	SVI	05S	+5.13
148	6	SVI	UTS	+6.69
151	9	MVI	06S	-0.08

All tubes were plugged with manual rolled plugs.

No tubes were sleeved or repair rolled.

NEI 97-06 APPENDIX D REPORTING REQUIREMENTS

The Davis-Besse Steam Generator Program references NEI 97-06 Revision 0. Appendix D of Revision 0 states certain information will be provided to the NRC within 12 months of completing the in-service inspection of the steam generators. Attachment 2 provides this information.

Active Degradation Mechanisms Found:

The observed indications were Outside Diameter Intergranular Attack, Primary Stress Corrosion Cracking and Tube Support Plate Intersection Wear.

NDE Techniques Utilized for Each Potential Degradation Mechanism and Active Degradation Mechanism:

Technique Qualifications

Degradation Mechanism/Technique	Site Specific Review Deemed Acceptable	
	Detection	Sizing
TSP Wear (Bobbin Probe)	Yes	No
OD Volumetric IGA Crevice (Bobbin Probe)	Yes	No
OD Axial IGA/SCC OD Volumetric IGA (Bobbin Probe)	Yes	No
Impingement (Bobbin Probe)	Yes	Yes
TSP Wear (.115 Pancake Rotating Probe)	Yes	Yes
TSP Wear (Plus Point Rotating Probe)	Yes	Yes
Primary Side IGA/SCC (Plus Point Rotating Probe)	Yes	No
Primary Side IGA/SCC (.115 Pancake Rotating Probe)	Yes	No
OD IGA/SCC (Plus Point Rotating Probe)	Yes	No
OD IGA/SCC (.115 Pancake Rotating Probe)	Yes	No
Sleeve (Plus Point LF Rotating Probe)	Yes	No
Sleeve (Bobbin Probe)	Yes	Yes

Number of Tubes Plugged or Repaired for Each Damage Mechanism and the Repair Methods Used:

This information is supplied in Tables 3 and 6.

NEI 97-06 APPENDIX D REPORTING REQUIREMENTS

Total Number and Percentage of Tubes Plugged and/or Sleeved To Date and the Effective Plugging Percentage in Each Steam Generator.

Steam Generator #1 has 104 tubes plugged and 212 tubes sleeved for a total equivalent plugging of 122 tubes (0.8%).

Steam Generator #2 has 436 tubes plugged and 199 tubes sleeved for a total equivalent plugging of 466 tubes (3%).

Description of the Tube Integrity Assessment.

Condition monitoring and operational assessment of steam generator tubing at Davis-Besse was performed using the TubeWorks software package created by E-Mech Technology, Inc. The observed severity of degradation at the end of cycle, outage 12RFO, was evaluated to determine if structural and leakage integrity requirements were maintained. The expected severity of tubing degradation at the end of the next cycle was projected to determine if required structural and leakage integrity margins would be maintained during this next period of operation. The scope of this evaluation included all the forms of degradation observed at 12RFO:

- Volumetric OD/IGA
- Wear at Tube Support Locations
- Upper Tubesheet Tube End Axial PWSCC

The observed degradation at the 12RFO outage was evaluated in a manner consistent with "Steam Generator Program Guidelines", Nuclear Energy Institute, NEI 97-06, December 1997, "Steam Generator Integrity Assessment Guidelines", EPRI Draft Report GC-107621, Rev. A2, October, 1998 and "Steam Generator Tube Integrity", Draft Regulatory Guide, DG-1074, U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, March, 1998. This observed degradation did not present serious challenges to the deterministic (3ΔP or 1.43 MSLB) structural margin requirement at the end of the last cycle of operation, or challenge required leakage integrity limits under postulated accident conditions. A bounding deterministic approach to operational assessment led to a similar expectation for the next cycle of operation (Cycle 13).

Description of Corrective Actions Implemented, If Any:

Half bundle chemical-cleaning was performed using the EPRI Steam Generator Owners Group process during 12RFO in an attempt to improve the longevity of the Davis-Besse Steam Generators, and to lower operating downcomer water levels.

Evaluation of circumstances if condition monitoring results exceed the previous cycle operational assessment:

No condition monitoring assessment values exceeded the previous operational assessment assumptions or results.

EDDY CURRENT IDENTIFICATION CODES

The following identification codes were used in Attachment 1.

LTE	Lower Tube End
LTS	Lower Tube Sheet
MAA	Multiple Axial Tube-end Anomaly
MAI	Multiple Axial Indication
MVI	Multiple Volumetric Indications
NEX	No Expansion
SAA	Single Axial Tube-end Anomaly
SVI	Single Volumetric Indication
TWD	Percent Through Wall Degradation (Assigned to Wear Indications)
UTE	Upper Tube End
UTS	Upper Tube Sheet
xxS	Support Plate Number

Docket Number 50-346
License Number NPF-3
Serial Number 2696
Enclosure

COMMITMENT LIST

The following list identifies those actions committed to by the Davis-Besse Nuclear Power Station (DBNPS) in this document. Any other actions discussed in the submittal represent intended or planned actions by the DBNPS. They are described only as information and are not regulatory commitments. Please notify the Manager - Regulatory Affairs (419-321-8450) at the DBNPS of any questions regarding this document or associated regulatory commitments.

COMMITMENTS

DUE DATE

None

N/A