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Docket Number 50-346

License Number NPF-3

Serial Number 2214

March 30, 1994

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

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

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 (TS) Surveillance Requirement 4.4.5.5.b and TS 6.9.1.5.b require Toledo Edison to submit the complete results of the Steam Generator (SG) tube inservice inspection.

During the Eighth Refueling Outage (March 1 - April 30, 1993) at the Davis-Besse Nuclear Power Station (DBNPS) the tubing in the SGs was examined using eddy current testing. The examinations were conducted by B&W Nuclear Technologies to meet the requirements of the Second Ten Year Inservice Inspection Plan and the DBNPS TS. A description of the number and extent of tubes inspected, location, and percent of wall-thickness penetration for each indication of an imperfection; and identification of tubes plugged or sleeved is provided in the attachments to this letter.

The Bobbin Coil was used to perform the standard American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code examination for defect detection and sizing, the auxiliary feedwater header gap measurement, and profilometry of sleeve candidate tubes prior to

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Operating Companies:
Cleveland Electric Illuminating
Toledo Edison

AC47

sleeving. The Motorized Rotating Pancake Coil (MRPC) technique was used to perform defect detection in tubes within the lane/wedge region and for sleeve candidate tubes at the location of the lower sleeve roll joints. The Crosswound/Bobbin technique was used to perform defect detection after tube sleeving.

Steam Generator 1-1 (1-B)

Each of the tubes of Steam Generator 1-1 (1-B) was examined using the Bobbin Coil. These tubes were examined full length with the exception of six (6) tubes for which examination was restricted by the data acquisition system's positioning pins. The loss of examination coverage was limited for only a few inches near the tube end.

Tubes with indications of less than 20 percent are identified in Attachment 1. Tubes with indications having a through-wall dimension of 20 percent or greater are identified in Attachment 2.

Forty-three (43) tubes with indications having a through-wall dimension of 20 percent or greater, non-quantifiable indications, or absolute drift signals were plugged. These tubes are identified on Attachment 3.

Four hundred and forty-nine (449) tubes were examined to determine their proximity to the internal auxiliary feedwater header. These tubes were determined to have a gap greater than 0.250".

Two hundred and thirteen (213) tubes as identified on Attachment 4 were sleeved. One (1) sleeved tube with discontinuities was plugged. Crosswound/Bobbin Eddy Current examination following sleeving revealed thirty-nine (39) sleeves with geometric discontinuities. It is believed these discontinuities were anomalies introduced by a link in the roll tool slinky. These discontinuities were determined acceptable for service. Tubes exhibiting these discontinuities are identified in Attachment 5.

Steam Generator 1-2 (2-A)

Each of the tubes of Steam Generator 1-2 (2-A) was examined using the Bobbin Coil. These tubes were examined full length with the exception of twelve (12) tubes for which examination was restricted by the data acquisition system's positioning pins and plate. The loss of examination coverage was limited for only a few inches near the tube end. One (1) tube was internally obstructed in the Upper Tube Sheet and subsequently plugged. Tubes with indications of less than 20 percent are identified in Attachment 6. Tubes with indications having a through-wall dimension of 20 percent or greater are identified in Attachment 7.

Three hundred and twenty-one (321) tubes were plugged. Three hundred and seventeen (317) tubes had indications with a through-wall of 20 percent or greater, non-quantifiable indications, absolute drift signals, or were obstructed. Four (4) tubes with dents in the areas of the auxiliary feedwater header were also plugged. These tubes are identified on Attachment 8.

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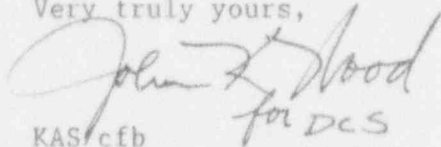
Four hundred and forty-five (445) tubes were examined to determine their proximity to the internal auxiliary feedwater header. One (1) tube was determined to have a gap greater than the minimum 0.125" but less than 0.250". The other tubes were determined to have a gap greater than 0.250".

No tubes were sleeved in Steam Generator 1-2 (2-A).

Detailed examination results are contained in the Eighth Refueling Outage Steam Generator Eddy Current Inspection Report which is available for review at the Davis-Besse Nuclear Power Station.

Should you have any questions or require additional information, please contact Mr. William T. O'Connor, Manager - Regulatory Affairs, at (419) 249-2366.

Very truly yours,


KAS/cfb for DCS

cc: J. B. Martin, Regional Administrator, NRC Region III
S. Stasek, DB-1 NRC Senior Resident Inspector
G. West, Jr., DB-1 NRC/NRR Project Manager
USNRC Document Control Desk
Utility Radiological Safety Board

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DAVIS-BREWSTER NUCLEAR POWER STATION

EIGHTH REFUELING OUTAGE

STEAM GENERATOR INSPECTION REPORT

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The legend for the abbreviations used in Attachments 1 through 8 is as follows:

ADS	Absolute Drift Signal
CHN	Channel
COL	Column
DEG	Degrees
FL	Full Length
IND	Indication
LTSP	Lower Tube Sheet Secondary Face
NQI	Non-Quantifiable Indication
%TW	Percent Through Wall
P	Primary Mix
TSP	Tube Support Plate
UTSF	Upper Tube Sheet Secondary Face

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ATTACHMENT 1
 Tubes with Indications Less Than 20% Through-Wall

Plant: DAVIS BESSE UNIT 1
 Outage: 03/93 RFO

Steam Generator: B

QUERY: STEAM GENERATOR 1-B: IN SERVICE TUBES WITH 1-19% TW INDICATIONS

ROW	TUBE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
7	5	03/93 RFO	OD (general)	18 % TW	1.12	UTS-SF	+12.39
9	62	03/93 RFO	OD (general)	14 % TW	1.42	14	+30.86
11	10	03/93 RFO	OD (general)	10 % TW	0.79	UTS-SF	+12.08
11	67	03/93 RFO	OD (general)	4 % TW	0.80	14	+29.91
12	69	03/93 RFO	OD (general)	10 % TW	0.34	14	+29.79
14	9	03/93 RFO	OD (general)	11 % TW	0.26	1	
14	29	03/93 RFO	OD (general)	14 % TW	0.23	5	+12.71
14	74	03/93 RFO	OD (general)	10 % TW	1.29	12	
15	76	03/93 RFO	OD (general)	9 % TW	0.34	14	+31.19
15	78	03/93 RFO	OD (general)	14 % TW	1.11	14	+30.37
16	81	03/93 RFO	OD (general)	15 % TW	0.87	14	+28.53
18	79	03/93 RFO	OD (general)	12 % TW	0.17	9	
22	21	03/93 RFO	OD (general)	14 % TW	0.30	5	+14.63
23	58	03/93 RFO	OD (general)	12 % TW	0.26	12	+31.48
25	51	03/93 RFO	OD (general)	9 % TW	0.38	LTS-PF	+22.09
60	128	03/93 RFO	OD (general)	14 % TW	0.53	10	
61	125	03/93 RFO	OD (general)	4 % TW	0.77	10	
64	27	03/93 RFO	OD (general)	12 % TW	0.61	4	- 0.05
65	120	03/93 RFO	OD (general)	19 % TW	0.63	15	+26.22
74	66	03/93 RFO	OD (general)	11 % TW	0.75	5	+28.82
78	69	03/93 RFO	OD (general)	3 % TW	0.40	12	+29.53
84	74	03/93 RFO	OD (general)	5 % TW	0.58	12	+22.00
96	20	03/93 RFO	OD (general)	17 % TW	0.56	9	+21.22
104	123	03/93 RFO	OD (general)	7 % TW	8.36	15	+31.93
122	104	03/93 RFO	OD (general)	12 % TW	0.82	10	
125	56	03/93 RFO	OD (general)	18 % TW	0.72	7	+ 7.07
128	94	03/93 RFO	OD (general)	14 % TW	0.82	10	
130	93	03/93 RFO	OD (general)	19 % TW	0.55	14	+29.70
133	86	03/93 RFO	OD (general)	12 % TW	0.55	14	+30.04
134	54	03/93 RFO	OD (general)	8 % TW	2.12	3	+20.93
134	85	03/93 RFO	OD (general)	4 % TW	0.67	14	+30.02
140	21	03/93 RFO	OD (general)	2 % TW	0.34	9	+35.32
140	23	03/93 RFO	OD (general)	9 % TW	0.34	9	+34.14
145	12	03/93 RFO	uv (general)	14 % TW	0.22	3	

TOTAL TUBES FOUND = 34
 TOTAL INDICATIONS FOUND = 34
 TOTAL TUBES IN INPUT FILE = 34
 TOTAL TUBES INSPECTED = 34

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ATTACHMENT 2
 Tubes With Indications of 20% Through-Wall or Greater

STEAM GENERATOR 1-1

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 20-29% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	
BOBBIN	15	69	ODI	20	0.39	P 1	128	9TH TSP -	0.80	FL
BOBBIN	24	54	ODI	27	0.79	1	129	6TH TSP +	2.05	FL
BOBBIN	29	69	ODI	21	0.59	1	137	4TH TSP +	20.26	FL
BOBBIN	49	124	ODI	21	0.45	1	138	12TH TSP +	18.21	FL
BOBBIN			ODI	27	0.43	1	132	9TH TSP +	11.62	FL
BOBBIN	74	60	ODI	22	0.75	1	134	4TH TSP +	7.23	FL
BOBBIN	109	103	ODI	28	0.43	1	125	UTSF +	4.23	FL
BOBBIN	110	6	ODI	27	0.38	P 1	105	8TH TSP -	0.44	FL
BOBBIN	120	64	ODI	22	0.24	1	137	LTSF +	6.94	FL
BOBBIN	126	75	ODI	25	0.41	1	133	5TH TSP +	0.21	FL
BOBBIN	136	62	ODI	28	0.39	P 1	115	3RD TSP +	0.13	FL
BOBBIN	145	3	ODI	20	0.33	P 1	120	3RD TSP -	0.16	FL
BOBBIN	147	11	ODI	22	0.37	1	130	9TH TSP -	0.11	FL
BOBBIN	148	12	ODI	20	0.16	1	138	3RD TSP +	0.00	FL

TOTAL TUBES FOUND = 13
 TOTAL INDICATIONS FOUND = 14
 TOTAL TUBES IN INPUT FILE = 15457

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ATTACHMENT 2
 Tubes With Indications of 20% Through-Wall or Greater

STEAM GENERATOR 1-1

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 30-39% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	
BOBBIN	20	70	ODI	30	0.43	P 1	114	5TH TSP -	0.46	FL
BOBBIN	72	61	ODI	37	0.30	1	124	6TH TSP +	4.67	FL
BOBBIN	74	60	ODI	37	0.49	1	124	4TH TSP +	4.39	FL
BOBBIN			ODI	38	0.35	1	123	4TH TSP +	5.90	FL
BOBBIN	74	62	ODI	38	0.31	1	123	4TH TSP +	14.06	FL
BOBBIN	74	63	ODI	37	0.30	P 1	100	9TH TSP +	0.11	FL
BOBBIN	75	61	ODI	38	0.38	1	123	9TH TSP +	10.23	FL
BOBBIN	77	67	ODI	34	0.32	1	126	3RD TSP +	28.20	FL
BOBBIN	135	23	ODI	30	0.25	P 1	105	8TH TSP +	0.00	FL

TOTAL TUBES FOUND = 8
 TOTAL INDICATIONS FOUND = 9
 TOTAL TUBES IN INPUT FILE = 15457

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ATTACHMENT 2
 Tubes With Indications of 20% Through-Wall or Greater

STEAM GENERATOR 1-1

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 40-100% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	
BOBBIN	18	17	ODI	48	0.29	1	110	5TH TSP +	17.71	FL
BOBBIN	38	1	ODI	47	1.27	P 1	95	8TH TSP -	0.39	FL
BOBBIN	67	84	ODI	56	0.32	1	108	LTSF +	7.49	FL
BOBBIN	70	82	ODI	64	0.76	1	99	8TH TSP +	30.46	FL
BOBBIN	71	62	ODI	45	0.43	1	119	3RD TSP +	22.50	FL
BOBBIN	71	63	ODI	78	0.34	1	83	5TH TSP +	19.56	FL
BOBBIN	74	60	ODI	68	0.37	1	95	4TH TSP +	3.58	FL
BOBBIN	74	61	ODI	79	0.34	1	82	6TH TSP +	2.80	FL
BOBBIN	96	72	ODI	56	0.34	1	102	8TH TSP +	2.96	FL
BOBBIN	133	78	ODI	46	0.29	P 1	100	3RD TSP +	0.40	FL

TOTAL TUBES FOUND = 10
 TOTAL INDICATIONS FOUND = 10
 TOTAL TUBES IN INPUT FILE = 15457

ATTACHMENT 3
 Tubes Plugged Steam Generator 1-1

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: DEFECT INDICATIONS 20-100% TV, MQI, ADS, & ESA

TEST	ROW	COL	IND	XTW	VOLTS	CNN	DEG	LOCATION	EXTENT
BOBBIN	2	7	MQI		0.42	P	1	96 10TH TSP - 0.68	FL
BOBBIN	15	69	ODI	20	0.39	P	1	128 9TH TSP - 0.80	FL
BOBBIN	18	17	ODI	48	0.29	1	110	5TH TSP + 17.71	FL
BOBBIN	20	70	ODI	30	0.43	P	1	114 5TH TSP - 0.46	FL
BOBBIN	24	54	ODI	27	0.79	1	129	6TH TSP + 2.05	FL
BOBBIN	29	69	ODI	21	0.59	1	137	4TH TSP + 20.26	FL
BOBBIN	38	1	ODI	47	1.27	P	1	95 8TH TSP - 0.39	FL
BOBBIN	49	124	ODI	21	0.45	1	138	12TH TSP+ 18.21	FL
BOBBIN			ODI	27	0.43	1	132	9TH TSP + 11.62	FL
* BOBBIN	64	126	MQI		1.96	P	1	124 15TH TSP - 0.78	FL
BOBBIN	67	84	ODI	56	0.32	1	108	LTSF + 7.49	FL
BOBBIN	69	64	MQI		0.32	1	104	4TH TSP + 1.52	FL
BOBBIN			MQI		0.60	1	106	4TH TSP + 3.34	FL
BOBBIN			MQI		0.43	1	111	4TH TSP + 3.58	FL
BOBBIN	70	63	MQI		0.41	1	92	4TH TSP + 4.18	FL
BOBBIN	70	82	ODI	64	0.76	1	99	8TH TSP + 30.46	FL
BOBBIN	71	62	ODI	45	0.43	1	119	3RD TSP + 22.50	FL
BOBBIN	71	63	ODI	78	0.34	1	83	5TH TSP + 19.56	FL
BOBBIN	72	21	MQI		0.23	P	1	86 UTSF + 0.41	FL
BOBBIN	72	61	ODI	37	0.30	1	124	6TH TSP + 4.67	FL
BOBBIN	72	107	ADS		2.75	6	97	4TH TSP + 26.29	FL
BOBBIN	74	60	ODI	68	0.37	1	95	4TH TSP + 3.58	FL
BOBBIN			ODI	37	0.49	1	124	4TH TSP + 4.39	FL
BOBBIN			ODI	38	0.35	1	123	4TH TSP + 5.90	FL
BOBBIN			ODI	22	0.75	1	134	4TH TSP + 7.23	FL
BOBBIN	74	61	ODI	79	0.34	1	82	6TH TSP + 2.80	FL
BOBBIN			MQI		0.33	1	87	4TH TSP + 12.44	FL
BOBBIN	74	62	ODI	38	0.31	1	123	4TH TSP + 14.06	FL
BOBBIN			MQI		0.49	1	91	4TH TSP + 16.85	FL
BOBBIN	74	63	ODI	37	0.30	P	1	100 9TH TSP + 0.11	FL
BOBBIN	75	61	MQI		0.38	1	95	9TH TSP + 3.16	FL
BOBBIN			ODI	38	0.38	1	123	9TH TSP + 10.23	FL
BOBBIN	75	63	MQI		0.32	1	95	8TH TSP + 33.56	FL
BOBBIN	77	59	MQI		0.43	P	1	70 10TH TSP - 0.66	FL
BOBBIN	77	67	ODI	34	0.32	1	126	3RD TSP + 28.20	FL
BOBBIN	79	72	ADS		1.25	6	93	1ST TSP + 10.55	FL
BOBBIN	83	45	MQI		0.34	1	63	15TH TSP+ 33.89	FL
BOBBIN	85	86	MQI		0.25	1	75	1ST TSP + 9.94	FL
BOBBIN	95	84	ADS		3.71	6	104	4TH TSP + 28.60	FL
BOBBIN	96	72	ODI	56	0.34	1	102	8TH TSP + 2.96	FL
BOBBIN	99	126	MQI		0.70	P	1	105 14TH TSP+ 0.62	FL
BOBBIN	109	103	ODI	28	0.43	1	125	UTSF + 4.23	FL
BOBBIN	110	6	ODI	27	0.38	P	1	105 8TH TSP - 0.44	FL
BOBBIN	120	64	ODI	22	0.24	1	137	LTSF + 6.94	FL
BOBBIN	126	75	ODI	25	0.41	1	133	5TH TSP + 0.21	FL
BOBBIN	129	38	ADS		2.26	1	78	4TH TSP + 11.14	FL
BOBBIN	133	78	ODI	46	0.29	P	1	100 3RD TSP + 0.40	FL
BOBBIN	134	7	MQI		0.25	1	95	LTSF + 36.14	FL
BOBBIN	135	23	ODI	30	0.25	P	1	105 8TH TSP + 0.00	FL
BOBBIN	136	62	ODI	28	0.39	P	1	115 3RD TSP + 0.13	FL
BOBBIN	145	3	ODI	20	0.33	P	1	120 3RD TSP - 0.16	FL
BOBBIN	147	11	ODI	23	0.37	1	130	9TH TSP - 0.11	FL
BOBBIN	148	12	ODI	20	0.16	1	138	3RD TSP + 0.00	FL

* Tube Row 64 Column 126 was sleeved instead of plugged.

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ATTACHMENT 4
Tubes Sleeved

STEAM GENERATOR 1-1

<u>Row - Column</u>	<u>Sleeved Tubes</u>	<u>Total Tubes</u>
48-123		1
49-124		1
64-126		1
67-1		1
68-1 thru 2		2
69-1 thru 4		4
70-1 thru 5		5
71-1 thru 7		7
72-1 thru 8		8
73-1 thru 12		12
74-1 thru 29		29
75-1 thru 35		35
77-1 thru 35		35
78-1 thru 29		29
79-1 thru 12		12
80-1 thru 8		8
81-1 thru 7		7
82-1 thru 5		5
83-1 thru 4		4
84-1 thru 2		2
85-1		1
88-126		1
104-123		1
146-1		1
146-51		<u>1</u>
Total Tubes Sleeved		213

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ATTACHMENT 4
Plugged and Sleeved Tubes

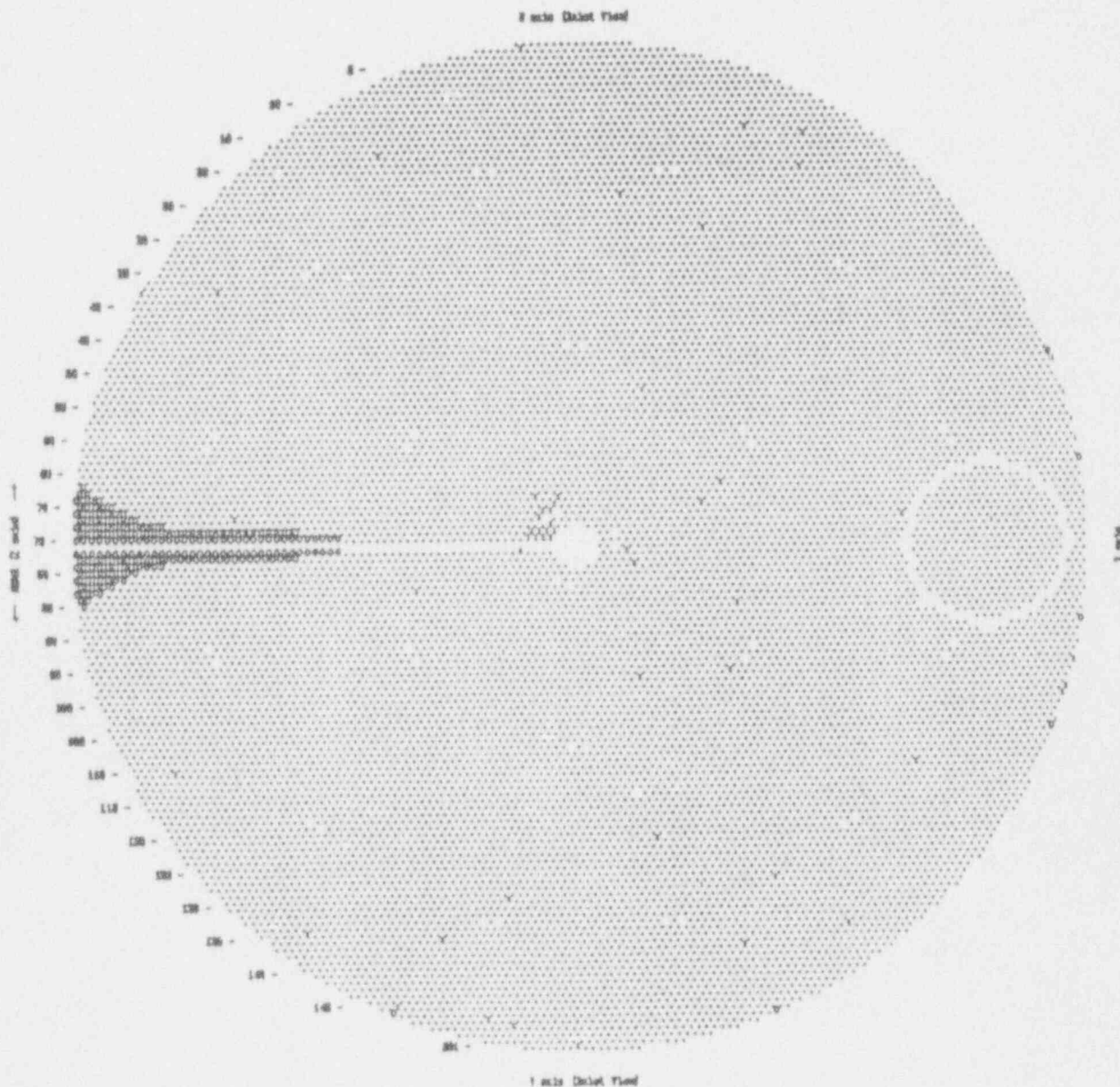
PLANT: DAVIS BESSE UNIT 1

GENERATOR: B

X = Total SG 1-B Plugged Tubes (63) 0 = Total SG 1-B Sleeved Tubes (212)

TOTAL TUBES : 15457
SUPPORT RODS () : 42

TOTAL TUBES ASSIGNED : 275



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ATTACHMENT 5
Sleeved Tubes With Geometric Discontinuities

STEAM GENERATOR 1-1
Tubes with Geometric Discontinuities

<u>Row</u>	<u>=</u>	<u>Column</u>
74		24
74		25
74		29
75		4
75		5
75		6
75		7
75		8
75		9
75		10
75		11
75		12
75		13
75		14
75		15
75		16
75		17
75		18
75		19
75		20
75		21
75		22
75		23
75		24
75		25
75		26
75		27
75		28
75		29
78		1
80		1
82		1
83		1
83		2
83		3
83		4
84		1
84		2
85		1

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ATTACHMENT 6
 Tubes With Indications Less Than 20% Through-Wall

Plant: DAVIS BESSE UNIT 1
 Outage: 03/93 RFD

Steam Generator: A

QUERY: STEAM GENERATOR 2-A: IN SERVICE TUBES WITH 1-19% TW INDICATIONS

ROW	TUBE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
3	11	03/93 RFD	OD (general)	14 % TW	0.16	8	
4	7	03/93 RFD	OD (general)	8 % TW	0.87	14	+36.26
5	20	03/93 RFD	OD (general)	4 % TW	0.22	8	
15	77	03/93 RFD	OD (general)	15 % TW	1.00	14	+30.22
22	60	03/93 RFD	OD (general)	14 % TW	0.41	5	+10.76
26	22	03/93 RFD	OD (general)	16 % TW	0.30	5	+13.73
27	21	03/93 RFD	OD (general)	17 % TW	0.36	5	+14.73
29	104	03/93 RFD	OD (general)	12 % TW	0.80	15	+12.48
30	1	03/93 RFD	OD (general)	9 % TW	0.16	14	
31	17	03/93 RFD	OD (general)	9 % TW	0.30	7	+21.40
39	62	03/93 RFD	OD (general)	15 % TW	0.17	6	
44	9	03/93 RFD	OD (general)	18 % TW	0.32	LTS-SF	+16.42
49	13	03/93 RFD	OD (general)	18 % TW	0.53	15	+18.39
49	28	03/93 RFD	OD (general)	14 % TW	0.59	14	+25.21
		03/93 RFD	OD (general)	18 % TW	0.47	14	+23.90
52	1	03/93 RFD	OD (general)	2 % TW	0.81	13	- 0.04
		03/93 RFD	OD (general)	4 % TW	0.65	12	
68	17	03/93 RFD	OD (general)	18 % TW	0.34	5	+13.84
68	51	03/93 RFD	OD (general)	13 % TW	0.56	4	+14.25
69	12	03/93 RFD	OD (general)	16 % TW	0.52	5	+16.01
70	63	03/93 RFD	OD (general)	16 % TW	0.31	4	+ 4.37
		03/93 RFD	OD (general)	18 % TW	0.38	4	+ 8.45
71	12	03/93 RFD	OD (general)	10 % TW	0.82	2	+13.33
71	58	03/93 RFD	OD (general)	19 % TW	0.31	4	+17.40
72	56	03/93 RFD	OD (general)	8 % TW	0.85	15	+ 2.01
74	82	03/93 RFD	OD (general)	13 % TW	0.64	15	+37.51
77	68	03/93 RFD	OD (general)	18 % TW	0.31	2	
78	33	03/93 RFD	OD (general)	19 % TW	0.38	9	+ 6.04
78	52	03/93 RFD	OD (general)	14 % TW	0.31	8	+16.81
		03/93 RFD	OD (general)	16 % TW	0.45	8	+16.56
79	65	03/93 RFD	OD (general)	19 % TW	0.55	8	+31.98
82	30	03/93 RFD	OD (general)	16 % TW	0.28	8	
83	107	03/93 RFD	OD (general)	14 % TW	0.47	3	+23.68
86	61	03/93 RFD	OD (general)	11 % TW	0.27	4	+14.05
87	65	03/93 RFD	OD (general)	19 % TW	0.55	4	+10.15
91	126	03/93 RFD	OD (general)	18 % TW	0.62	15	+32.32
98	25	03/93 RFD	OD (general)	9 % TW	0.25	3	+21.99
106	119	03/93 RFD	OD (general)	18 % TW	0.49	15	+15.87
108	18	03/93 RFD	OD (general)	11 % TW	1.61	3	+32.76
		03/93 RFD	OD (general)	10 % TW	0.49	LTS-SF	+36.43
110	80	03/93 RFD	OD (general)	10 % TW	0.56	5	+ 1.79
114	13	03/93 RFD	OD (general)	11 % TW	0.74	5	
115	113	03/93 RFD	OD (general)	17 % TW	2.58	15	+19.06
118	25	03/93 RFD	OD (general)	10 % TW	1.91	11	+ 2.04
123	90	03/93 RFD	OD (general)	18 % TW	0.26	5	+10.14
124	6	03/93 RFD	OD (general)	11 % TW	1.04	LTS-PF	+ 2.74
151	5	03/93 RFD	OD (general)	10 % TW	0.33	6	
151	13	03/93 RFD	OD (general)	9 % TW	0.76	14	+30.20

TOTAL TUBES FOUND = 43
 TOTAL INDICATIONS FOUND = 48
 TOTAL TUBES IN INPUT FILE = 43
 TOTAL TUBES INSPECTED = 43

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 20-29% TWD

TEST	ROW	COL	IND	TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	4	23	ODI	29	0.91	1	132	5TH TSP +	9.04 FL
BOBBIN	12	71	ODI	22	0.64	1	136	4TH TSP +	31.61 FL
BOBBIN	15	78	ODI	21	0.57	1	137	14TH TSP +	31.06 FL
BOBBIN	18	27	ODI	28	0.33	1	135	5TH TSP +	19.44 FL
BOBBIN	18	28	ODI	33	0.48	1	139	5TH TSP +	23.10 FL
BOBBIN	18	31	ODI	25	0.21	1	138	5TH TSP +	13.84 FL
BOBBIN	23	34	ODI	22	0.29	1	136	5TH TSP +	11.84 FL
BOBBIN	26	55	ODI	60	0.60	1	134	4TH TSP +	32.60 FL
BOBBIN	29	23	ODI	66	0.77	1	135	5TH TSP +	12.26 FL
BOBBIN	33	65	ODI	22	0.22	1	127	LTPF	21.68 FL
BOBBIN	45	63	ODI	99	0.36	1	131	10TH TSP +	2.09 FL
BOBBIN	49	31	ODI	33	0.33	1	136	4TH TSP +	30.95 FL
BOBBIN	56	1	ODI	44	0.44	1	125	12TH TSP +	0.52 FL
BOBBIN	60	1	ODI	44	0.44	1	127	12TH TSP +	0.12 FL
BOBBIN	61	49	ODI	22	0.22	1	138	4TH TSP +	17.08 FL
BOBBIN	63	52	ODI	41	0.71	1	136	4TH TSP +	17.25 FL
BOBBIN	63	68	ODI	1	0.41	1	138	4TH TSP +	9.09 FL
BOBBIN	64	1	ODI	00	0.37	1	138	14TH TSP +	32.94 FL
BOBBIN	65	15	ODI	26	0.29	1	135	5TH TSP +	12.75 FL
BOBBIN	66	66	ODI	22	0.22	1	137	4TH TSP +	8.09 FL
BOBBIN	66	72	ODI	41	0.41	1	136	4TH TSP +	6.93 FL
BOBBIN	67	60	ODI	99	0.40	1	133	4TH TSP +	12.36 FL
BOBBIN	67	68	ODI	22	0.31	1	137	3RD TSP +	20.10 FL
BOBBIN	68	66	ODI	40	0.40	1	136	3RD TSP +	38.00 FL
BOBBIN	68	68	ODI	7	0.55	1	135	4TH TSP +	11.16 FL
BOBBIN	68	70	ODI	7	0.77	1	133	4TH TSP +	9.13 FL
BOBBIN	68	73	ODI	99	0.62	1	133	4TH TSP +	6.42 FL
BOBBIN	69	65	ODI	99	0.61	1	133	4TH TSP +	14.15 FL
BOBBIN	69	68	ODI	26	0.26	1	135	3RD TSP +	28.19 FL
BOBBIN	69	68	ODI	99	0.49	1	135	3RD TSP +	20.50 FL
BOBBIN	69	70	ODI	99	0.36	1	133	4TH TSP +	17.43 FL
BOBBIN	69	70	ODI	99	0.65	1	136	4TH TSP +	14.98 FL
BOBBIN	69	72	ODI	99	0.49	1	124	3RD TSP +	38.55 FL
BOBBIN	69	74	ODI	7	0.48	1	135	4TH TSP +	4.88 FL
BOBBIN	69	75	ODI	7	0.40	1	135	4TH TSP +	1.28 FL
BOBBIN	70	62	ODI	99	0.66	1	132	5TH TSP +	11.18 FL
BOBBIN	70	62	ODI	99	0.22	1	135	5TH TSP +	9.94 FL
BOBBIN	70	62	ODI	99	0.38	1	135	5TH TSP +	7.81 FL
BOBBIN	70	65	ODI	99	0.49	1	133	4TH TSP +	6.44 FL
BOBBIN	70	65	ODI	7	0.48	1	135	5TH TSP +	9.58 FL
BOBBIN	70	66	ODI	7	0.24	1	135	5TH TSP +	16.38 FL
BOBBIN	70	71	ODI	4	0.44	1	136	4TH TSP +	6.17 FL
BOBBIN	70	71	ODI	4	0.26	1	137	4TH TSP +	17.03 FL
BOBBIN	70	71	ODI	33	0.77	1	138	4TH TSP +	8.79 FL
BOBBIN	70	72	ODI	1	0.52	1	136	4TH TSP +	7.65 FL
BOBBIN	71	67	ODI	1	0.35	1	140	4TH TSP +	5.30 FL
BOBBIN	71	67	ODI	23	0.37	1	135	7TH TSP +	18.78 FL
BOBBIN	71	68	ODI	23	0.22	1	138	2ND TSP +	15.74 FL
BOBBIN	71	69	ODI	20	0.24	1	140	2ND TSP +	14.97 FL
BOBBIN	71	69	ODI	4	0.26	1	137	5TH TSP +	3.54 FL
BOBBIN	71	69	ODI	4	0.47	1	136	4TH TSP +	35.90 FL
BOBBIN	71	69	ODI	21	0.46	1	139	4TH TSP +	34.82 FL
BOBBIN	72	72	ODI	4	0.34	1	137	4TH TSP +	9.38 FL
BOBBIN	73	62	ODI	6	0.83	1	133	6TH TSP +	8.03 FL
BOBBIN	77	65	ODI	1	0.99	1	132	7TH TSP +	6.52 FL
BOBBIN	77	65	ODI	1	0.58	1	131	7TH TSP +	16.32 FL
BOBBIN	77	67	ODI	26	0.35	1	137	6TH TSP +	4.71 FL
BOBBIN	78	64	ODI	6	0.56	1	131	7TH TSP +	34.04 FL
BOBBIN	79	105	ODI	33	0.37	1	133	5TH TSP +	14.92 FL
BOBBIN	80	65	ODI	33	0.36	1	131	6TH TSP +	25.36 FL
BOBBIN	80	65	ODI	99	0.42	1	127	6TH TSP +	28.96 FL
BOBBIN	80	66	ODI	4	0.81	1	130	6TH TSP +	25.25 FL
BOBBIN	80	68	ODI	1	0.87	1	132	7TH TSP +	15.61 FL
BOBBIN	80	69	ODI	33	0.65	1	131	3RD TSP +	26.00 FL
BOBBIN	80	70	ODI	6	0.49	1	127	3RD TSP +	31.97 FL
BOBBIN	81	64	ODI	33	0.69	1	131	6TH TSP +	7.62 FL
BOBBIN	81	64	ODI	33	0.75	1	131	6TH TSP +	11.24 FL
BOBBIN	81	65	ODI	22	0.61	1	131	6TH TSP +	12.64 FL
BOBBIN	81	65	ODI	22	0.37	1	129	6TH TSP +	12.88 FL
BOBBIN	81	65	ODI	27	0.96	1	128	6TH TSP +	17.72 FL

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 20-29% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN			ODI	29	0.81	1	126	6TH TSP +	24.95 FL
BOBBIN	81	68	ODI	29	0.64	P	123	7TH TSP +	0.158 FL
BOBBIN	81	69	ODI	29	1.35	1	127	5TH TSP +	8.58 FL
BOBBIN			ODI	27	0.49	1	128	5TH TSP +	11.59 FL
BOBBIN	81	70	ODI	29	0.38	1	133	3RD TSP +	23.46 FL
BOBBIN			ODI	28	0.42	1	135	3RD TSP +	34.87 LTSF
BOBBIN	82	31	ODI	28	0.37	1	131	UTSF	33.85 FL
BOBBIN	82	63	ODI	29	0.30	1	127	5TH TSP +	17.21 FL
BOBBIN	82	65	ODI	27	0.41	1	128	5TH TSP +	10.48 FL
BOBBIN			ODI	27	0.45	1	128	5TH TSP +	10.96 FL
BOBBIN	82	67	ODI	29	0.86	1	127	5TH TSP +	8.29 FL
BOBBIN			ODI	33	0.80	1	131	4TH TSP +	33.70 FL
BOBBIN	82	71	ODI	27	0.60	1	135	4TH TSP +	6.28 FL
BOBBIN	83	11	ODI	30	0.23	1	137	5TH TSP +	13.79 FL
BOBBIN	83	66	ODI	11	0.69	1	137	4TH TSP +	14.16 FL
BOBBIN	83	69	ODI	8	0.48	1	135	3RD TSP +	26.31 LTSF
BOBBIN			ODI	26	0.57	1	136	4TH TSP +	27.81 LTSF
BOBBIN	84	7	ODI	22	0.51	1	136	UTSF	5.15 FL
BOBBIN	84	65	ODI	22	0.44	1	137	3RD TSP +	14.95 FL
BOBBIN	84	69	ODI	0	0.68	1	137	4TH TSP +	12.05 FL
BOBBIN			ODI	33	0.59	1	133	5TH TSP +	11.88 FL
BOBBIN	84	72	ODI	33	0.77	1	133	4TH TSP +	13.40 FL
BOBBIN			ODI	25	0.38	1	137	4TH TSP +	11.86 FL
BOBBIN			ODI	26	0.81	1	137	4TH TSP +	10.33 FL
BOBBIN	85	4	ODI	22	0.52	1	135	2ND TSP +	10.99 FL
BOBBIN	85	66	ODI	28	0.52	1	133	3RD TSP +	36.44 FL
BOBBIN			ODI	29	0.47	1	133	3RD TSP +	22.22 FL
BOBBIN			ODI	29	0.83	1	133	3RD TSP +	17.73 FL
BOBBIN			ODI	33	0.60	1	133	4TH TSP +	15.88 FL
BOBBIN	85	67	ODI	33	0.74	1	133	4TH TSP +	10.99 FL
BOBBIN			ODI	27	0.58	1	133	4TH TSP +	8.72 FL
BOBBIN	86	65	ODI	7	0.68	1	133	3RD TSP +	19.73 FL
BOBBIN	86	66	ODI	7	0.22	1	133	4TH TSP +	3.01 FL
BOBBIN			ODI	26	0.49	1	133	4TH TSP +	11.06 FL
BOBBIN	86	67	ODI	4	0.65	1	133	3RD TSP +	8.74 FL
BOBBIN			ODI	4	0.40	1	133	4TH TSP +	7.16 FL
BOBBIN			ODI	11	0.77	1	133	3RD TSP +	3.79 FL
BOBBIN	86	68	ODI	22	0.74	1	133	4TH TSP +	11.73 FL
BOBBIN	87	67	ODI	7	0.78	1	133	4TH TSP +	11.67 FL
BOBBIN			ODI	11	0.42	1	133	4TH TSP +	8.33 FL
BOBBIN	88	68	ODI	9	0.33	1	133	4TH TSP +	14.21 FL
BOBBIN	88	126	ODI	4	0.44	1	133	15TH TSP +	33.06 FL
BOBBIN	89	67	ODI	9	0.38	1	133	4TH TSP +	8.71 FL
BOBBIN	102	40	ODI	22	0.33	1	133	5TH TSP +	8.71 FL
BOBBIN	106	6	ODI	5	0.32	P	104	13TH TSP +	0.51 FL
BOBBIN	106	1	ODI	22	0.32	1	133	TH TSP +	14.78 FL
BOBBIN	108	36	ODI	6	0.58	1	133	TH TSP +	4.29 FL
BOBBIN	109	1	ODI	5	0.66	1	133	6TH TSP +	21.51 FL
BOBBIN	109	104	ODI	2	0.24	1	133	2ND TSP +	25.19 FL
BOBBIN	110	97	ODI	3	0.00	1	133	LTPF	21.48 FL
BOBBIN	111	1	ODI	7	0.71	P	133	8TH TSP +	0.27 FL
BOBBIN			ODI	22	0.23	1	133	8TH TSP +	1.85 FL
BOBBIN	112	3	ODI	6	0.40	P	122	9TH TSP +	0.27 FL
BOBBIN	112	49	ODI	1	0.46	1	133	14TH TSP +	18.40 FL
BOBBIN	113	1	ODI	5	0.49	1	133	15TH TSP +	14.85 FL
BOBBIN	116	113	ODI	3	0.38	1	133	15TH TSP +	19.77 FL
BOBBIN	123	13	ODI	3	0.37	1	133	6TH TSP +	26.33 FL
BOBBIN			ODI	20	0.20	1	133	5TH TSP +	9.08 FL
BOBBIN	123	80	ODI	0	0.44	1	133	5TH TSP +	33.92 FL
BOBBIN	124	14	ODI	2	0.40	1	133	5TH TSP +	14.05 FL
BOBBIN	125	17	ODI	8	0.58	1	133	5TH TSP +	12.50 FL
BOBBIN	129	6	ODI	2	0.65	P	133	10TH TSP +	0.48 FL
BOBBIN	132	28	ODI	8	0.25	1	133	5TH TSP +	11.22 FL
BOBBIN	132	66	ODI	2	0.38	1	133	5TH TSP +	10.80 FL
BOBBIN	133	29	ODI	2	0.77	1	133	4TH TSP +	12.38 FL
BOBBIN	149	33	ODI	1	0.36	P	133	14TH TSP +	0.47 FL
BOBBIN	150	24	ODI	3	0.49	1	122	14TH TSP +	0.57 FL
BOBBIN	151	8	ODI	3	0.79	1	122	13TH TSP +	0.55 FL

TOTAL TUBES FOUND = 103
 TOTAL INDICATIONS FOUND = 138
 TOTAL TUBES IN INPUT FILE = 15457

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 30-39% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	71	68	ODI	34	0.31	1	130	6TH TSP	FL
BOBBIN			ODI	11	0.22	1	132	3RU TSP	FL
BOBBIN	72	52	ODI	77	1.06	1	128	4TH TSP	FL
BOBBIN	72	60	ODI	77	0.25	1	126	5TH TSP	FL
BOBBIN	72	69	ODI	44	0.62	1	123	6TH TSP	FL
BOBBIN	75	68	ODI	55	0.23	1	128	4TH TSP	FL
BOBBIN	76	65	ODI	99	1.33	1	120	7TH TSP	FL
BOBBIN	77	62	ODI	99	0.29	1	126	5TH TSP	FL
BOBBIN	77	64	ODI	99	0.60	1	120	7TH TSP	FL
BOBBIN	77	65	ODI	99	0.49	1	123	7TH TSP	FL
BOBBIN	78	2	ODI	11	0.37	1	130	UTSF	FL
BOBBIN	78	41	ODI	99	0.64	1	125	8TH TSP	FL
BOBBIN	78	63	ODI	66	0.51	1	122	7TH TSP	FL
BOBBIN	79	64	ODI	33	0.64	1	122	6TH TSP	FL
BOBBIN	79	66	ODI	22	0.27	1	131	4TH TSP	LT
BOBBIN	79	67	ODI	22	0.36	1	131	7TH TSP	TSF
BOBBIN	79	68	ODI	33	0.65	1	124	8TH TSP	FL
BOBBIN	80	65	ODI	77	0.67	1	121	6TH TSP	FL
BOBBIN			ODI	55	0.67	1	123	6TH TSP	FL
BOBBIN	80	69	ODI	99	0.74	1	120	3RD TSP	FL
BOBBIN	80	74	ODI	44	0.47	1	130	4TH TSP	FL
BOBBIN	81	64	ODI	00	0.80	1	126	6TH TSP	FL
BOBBIN	81	65	ODI	00	0.32	1	122	6TH TSP	FL
BOBBIN			ODI	66	1.40	1	121	6TH TSP	FL
BOBBIN			ODI	44	1.03	1	123	6TH TSP	FL
BOBBIN			ODI	44	0.48	1	123	6TH TSP	FL
BOBBIN			ODI	99	0.89	1	119	6TH TSP	FL
BOBBIN	81	67	ODI	33	0.86	1	124	7TH TSP	FL
BOBBIN	81	69	ODI	11	0.36	1	120	5TH TSP	FL
BOBBIN	81	70	ODI	11	0.45	1	132	5TH TSP	LT
BOBBIN	82	32	ODI	33	0.60	1	130	5TH TSP	TSF
BOBBIN	82	41	ODI	99	0.46	1	125	5TH TSP	FL
BOBBIN	82	63	ODI	00	0.33	1	126	5TH TSP	FL
BOBBIN			ODI	33	0.53	1	124	6TH TSP	FL
BOBBIN	82	67	ODI	44	0.49	1	123	4TH TSP	FL
BOBBIN			ODI	77	0.66	1	120	5TH TSP	FL
BOBBIN	83	1	ODI	88	0.47	1	123	15TH TSP	FL
BOBBIN	83	2	ODI	88	0.22	1	128	13TH TSP	FL
BOBBIN	83	49	ODI	66	0.47	1	128	4TH TSP	FL
BOBBIN	83	64	ODI	33	0.36	1	127	4TH TSP	FL
BOBBIN			ODI	99	0.39	1	128	5TH TSP	FL
BOBBIN	83	69	ODI	88	1.17	1	126	4TH TSP	LT
BOBBIN			ODI	88	0.37	1	132	4TH TSP	TSF
BOBBIN			ODI	11	0.39	1	127	4TH TSP	LT
BOBBIN			ODI	77	0.77	1	132	5TH TSP	TSF
BOBBIN			ODI	44	0.64	1	129	5TH TSP	LT
BOBBIN	83	70	ODI	99	0.32	1	120	3RD TSP	FL
BOBBIN			ODI	00	0.36	1	129	4TH TSP	FL
BOBBIN			ODI	00	0.30	1	126	4TH TSP	FL
BOBBIN	83	72	ODI	22	0.51	1	132	4TH TSP	FL
BOBBIN	85	66	ODI	44	0.71	1	130	3RD TSP	FL
BOBBIN			ODI	55	0.64	1	129	3RD TSP	FL
BOBBIN			ODI	55	0.54	1	131	4TH TSP	FL
BOBBIN	85	67	ODI	88	0.55	1	127	4TH TSP	FL
BOBBIN			ODI	88	0.23	P	118	4TH TSP	FL
BOBBIN	86	1	ODI	88	0.53	1	123	13TH TSP	FL
BOBBIN	86	63	ODI	88	0.42	1	123	4TH TSP	FL
BOBBIN	86	66	ODI	88	0.48	1	126	4TH TSP	FL
BOBBIN			ODI	88	0.27	1	126	4TH TSP	FL
BOBBIN	86	67	ODI	99	0.62	1	125	4TH TSP	FL
BOBBIN	86	68	ODI	00	0.89	P	112	4TH TSP	FL
BOBBIN			ODI	00	0.51	1	131	4TH TSP	FL
BOBBIN			ODI	22	0.52	1	128	4TH TSP	FL
BOBBIN	86	69	ODI	66	0.37	1	128	4TH TSP	FL
BOBBIN	86	10	ODI	66	0.28	1	123	4TH TSP	FL
BOBBIN	87	61	ODI	44	0.34	1	129	4TH TSP	FL
BOBBIN	87	67	ODI	66	0.68	1	127	4TH TSP	FL
BOBBIN	88	65	ODI	66	0.43	1	126	5TH TSP	FL
BOBBIN	89	65	ODI	77	0.69	1	127	3RD TSP	FL
BOBBIN	96	74	ODI	30	0.35	1	133	5TH TSP	FL

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 30-39% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	
BOBBIN	98	24	ODI	30	0.38	1	130	5TH TSP +	10.04	FL
BOBBIN	102	16	ODI	35	0.26	1	128	5TH TSP +	12.75	FL
BOBBIN	102	38	ODI	31	0.62	1	131	5TH TSP +	3.44	FL
BOBBIN	104	17	ODI	31	0.43	1	129	5TH TSP +	14.10	FL
BOBBIN	105	16	ODI	33	0.35	1	126	5TH TSP +	15.46	FL
BOBBIN			ODI	37	0.37	1	122	5TH TSP +	14.30	FL
BOBBIN	114	97	ODI	38	0.23	P 1	115	7TH TSP -	0.48	FL
BOBBIN	120	21	ODI	35	0.52	1	126	5TH TSP +	11.31	FL
BOBBIN	121	62	ODI	35	0.42	1	128	5TH TSP +	4.44	FL
BOBBIN	121	64	ODI	35	0.38	1	128	4TH TSP +	26.49	FL
BOBBIN	122	76	ODI	37	0.24	1	126	4TH TSP +	30.69	FL
BOBBIN	124	18	ODI	35	0.26	1	126	5TH TSP +	13.06	FL
BOBBIN	129	29	ODI	37	0.52	1	124	5TH TSP +	11.64	FL
BOBBIN	130	6	ODI	34	0.78	P 1	119	10TH TSP +	0.48	FL
BOBBIN	141	68	ODI	38	0.69	P 1	111	8TH TSP -	0.82	FL
BOBBIN	144	54	ODI	38	0.88	1	125	7TH TSP +	8.90	FL

TOTAL TUBES FOUND = 123
 TOTAL INDICATIONS FOUND = 156
 TOTAL TUBES IN INPUT FILE = 15457

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 40-100% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	12	44	ODI	44	0.41	1	120	5TH TSP +	FL
BOBBIN	14	7	ODI	41	0.51	1	121	6TH TSP +	FL
BOBBIN	16	17	ODI	41	0.37	1	123	9TH TSP +	FL
BOBBIN	17	27	ODI	40	0.27	1	122	5TH TSP +	FL
BOBBIN	21	17	ODI	42	0.46	1	121	5TH TSP +	FL
BOBBIN	22	56	ODI	41	0.50	1	121	4TH TSP +	FL
BOBBIN			ODI	43	0.50	1	119	4TH TSP +	FL
BOBBIN			ODI	42	0.68	1	120	4TH TSP +	FL
BOBBIN	39	1	ODI	44	0.82	1	120	15TH TSP +	FL
BOBBIN	40	42	ODI	41	0.48	1	122	17PF	FL
BOBBIN	41	16	ODI	41	0.23	1	122	5TH TSP +	FL
BOBBIN	45	119	ODI	56	0.47	1	106	6TH TSP +	FL
BOBBIN	48	91	ODI	49	0.85	1	111	5TH TSP +	FL
BOBBIN	60	5	ODI	58	0.31	P	97	14TH TSP +	FL
BOBBIN			ODI	51	0.32	P	104	14TH TSP +	FL
BOBBIN	62	9	ODI	52	1.07	1	112	5TH TSP +	FL
BOBBIN			ODI	69	0.80	1	94	5TH TSP +	FL
BOBBIN	65	52	ODI	60	0.30	1	100	4TH TSP +	UTSF
BOBBIN	66	22	ODI	40	0.81	P	112	7TH TSP +	FL
BOBBIN	66	11	ODI	59	0.48	1	107	5TH TSP +	FL
BOBBIN	67	62	ODI	52	0.77	1	111	3RD TSP +	FL
BOBBIN	67	63	ODI	51	0.54	1	112	3RD TSP +	FL
BOBBIN	68	11	ODI	63	0.55	1	100	5TH TSP +	FL
BOBBIN	68	12	ODI	54	0.38	1	109	5TH TSP +	FL
BOBBIN			ODI	55	0.11	1	108	5TH TSP +	FL
BOBBIN			ODI	59	0.88	1	102	4TH TSP +	FL
BOBBIN	68	66	ODI	52	0.68	1	110	3RD TSP +	FL
BOBBIN			ODI	46	0.48	1	117	4TH TSP +	FL
BOBBIN			ODI	42	0.55	1	121	4TH TSP +	FL
BOBBIN			ODI	58	0.88	1	104	4TH TSP +	FL
BOBBIN	68	73	ODI	46	0.45	1	117	4TH TSP +	FL
BOBBIN			ODI	52	0.37	1	111	4TH TSP +	FL
BOBBIN	69	11	ODI	61	0.55	1	101	5TH TSP +	FL
BOBBIN	69	63	ODI	58	0.30	1	106	3RD TSP +	FL
BOBBIN			ODI	49	0.66	1	115	3RD TSP +	FL
BOBBIN	69	65	ODI	47	0.55	P	106	2ND TSP +	FL
BOBBIN			ODI	45	0.41	1	118	4TH TSP +	FL
BOBBIN	69	66	ODI	41	0.37	1	122	3RD TSP +	FL
BOBBIN	69	67	ODI	45	0.44	1	118	4TH TSP +	FL
BOBBIN			ODI	51	0.39	1	112	3RD TSP +	FL
BOBBIN	69	68	ODI	57	0.11	1	105	5TH TSP +	FL
BOBBIN	69	70	ODI	52	0.39	1	111	4TH TSP +	FL
BOBBIN	69	74	ODI	50	0.49	P	104	4TH TSP +	FL
BOBBIN	70	62	ODI	52	0.42	1	112	5TH TSP +	FL
BOBBIN			ODI	67	0.38	1	99	4TH TSP +	FL
BOBBIN			ODI	65	0.30	1	88	4TH TSP +	FL
BOBBIN			ODI	55	0.33	1	109	4TH TSP +	FL
BOBBIN			ODI	51	0.46	1	113	4TH TSP +	FL
BOBBIN	70	65	ODI	48	0.32	1	113	5TH TSP +	FL
BOBBIN			ODI	47	0.22	1	114	5TH TSP +	FL
BOBBIN	70	66	ODI	63	0.28	1	114	4TH TSP +	FL
BOBBIN	70	67	ODI	56	0.36	1	107	5TH TSP +	FL
BOBBIN	70	72	ODI	47	0.37	1	116	4TH TSP +	FL
BOBBIN			ODI	43	0.30	1	120	4TH TSP +	FL
BOBBIN	70	75	ODI	44	0.33	1	119	4TH TSP +	FL
BOBBIN	71	11	ODI	62	0.66	1	102	5TH TSP +	FL
BOBBIN	71	14	ODI	54	0.44	1	110	5TH TSP +	FL
BOBBIN			ODI	43	0.41	1	111	5TH TSP +	FL
BOBBIN	71	68	ODI	61	0.50	1	105	6TH TSP +	FL
BOBBIN	71	70	ODI	42	0.45	1	123	3RD TSP +	FL
BOBBIN	71	73	ODI	51	0.44	1	112	4TH TSP +	FL
BOBBIN	72	68	ODI	87	0.33	1	118	7TH TSP +	FL
BOBBIN	72	71	ODI	48	0.33	1	118	4TH TSP +	FL
BOBBIN	74	62	ODI	63	0.37	1	98	7TH TSP +	FL
BOBBIN	75	8	ODI	46	0.46	1	117	10TH TSP +	FL
BOBBIN	76	65	ODI	77	0.37	1	81	7TH TSP +	FL
BOBBIN	77	51	ODI	52	0.34	1	114	4TH TSP +	FL
BOBBIN	77	64	ODI	65	0.62	1	95	7TH TSP +	FL
BOBBIN			ODI	60	0.11	1	101	7TH TSP +	FL
BOBBIN	77	65	ODI	53	0.97	1	108	7TH TSP +	FL

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater
 STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 40-100% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	77	67	ODI	54	0.81	1	113	6TH TSP +	FL
BOBBIN	78	41	ODI	58	0.35	1	108	8TH TSP +	FL
BOBBIN			ODI	45	0.36	1	120	8TH TSP +	FL
BOBBIN	79	18	ODI	68	0.32	1	93	12TH TSP +	FL
BOBBIN	79	63	ODI	55	0.74	1	106	6TH TSP +	FL
BOBBIN	79	67	ODI	42	0.94	1	122	7TH TSP +	LTSF
BOBBIN	79	68	ODI	79	0.75	1	78	6TH TSP +	FL
BOBBIN			ODI	63	0.31	1	98	7TH TSP +	FL
BOBBIN			ODI	42	0.52	1	117	7TH TSP +	FL
BOBBIN	79	69	ODI	62	0.50	1	99	6TH TSP +	FL
BOBBIN			ODI	63	0.75	1	98	6TH TSP +	FL
BOBBIN	80	62	ODI	65	0.75	1	96	6TH TSP +	FL
BOBBIN	80	63	ODI	73	0.57	1	86	6TH TSP +	FL
BOBBIN	80	65	ODI	42	0.34	1	117	6TH TSP +	FL
BOBBIN			ODI	70	0.45	1	90	6TH TSP +	FL
BOBBIN	80	66	ODI	42	0.59	1	117	6TH TSP +	FL
BOBBIN			ODI	66	1.12	1	94	6TH TSP +	FL
BOBBIN			ODI	67	0.50	1	93	6TH TSP +	FL
BOBBIN			ODI	65	1.06	1	96	6TH TSP +	FL
BOBBIN			ODI	52	0.42	1	109	6TH TSP +	FL
BOBBIN			ODI	64	0.72	1	97	6TH TSP +	FL
BOBBIN			ODI	77	0.61	1	81	6TH TSP +	FL
BOBBIN			ODI	64	0.47	1	97	6TH TSP +	FL
BOBBIN			ODI	75	0.53	1	83	6TH TSP +	FL
BOBBIN	80	67	ODI	46	0.52	1	113	6TH TSP +	FL
BOBBIN			ODI	58	0.76	1	101	7TH TSP +	FL
BOBBIN	80	68	ODI	74	0.32	1	84	7TH TSP +	FL
BOBBIN			ODI	79	0.52	1	77	7TH TSP +	FL
BOBBIN	80	69	ODI	70	0.60	1	90	7TH TSP +	FL
BOBBIN			ODI	66	0.42	1	94	7TH TSP +	FL
BOBBIN	80	74	ODI	51	0.38	1	115	4TH TSP +	FL
BOBBIN	81	64	ODI	47	0.72	1	113	6TH TSP +	FL
BOBBIN			ODI	50	0.43	1	111	6TH TSP +	FL
BOBBIN			ODI	65	0.40	1	96	6TH TSP +	FL
BOBBIN			ODI	40	0.66	1	119	6TH TSP +	FL
BOBBIN			ODI	62	0.39	1	99	6TH TSP +	FL
BOBBIN			ODI	40	0.60	1	119	6TH TSP +	FL
BOBBIN	81	65	ODI	48	0.92	1	111	6TH TSP +	FL
BOBBIN			ODI	46	0.82	1	113	6TH TSP +	FL
BOBBIN			ODI	61	2.31	1	98	6TH TSP +	FL
BOBBIN			ODI	50	1.43	1	109	6TH TSP +	FL
BOBBIN			ODI	56	1.32	1	103	6TH TSP +	FL
BOBBIN			ODI	52	1.38	1	107	6TH TSP +	FL
BOBBIN			ODI	40	1.34	1	118	6TH TSP +	FL
BOBBIN			ODI	71	1.35	1	87	6TH TSP +	FL
BOBBIN			ODI	49	1.14	1	110	6TH TSP +	FL
BOBBIN			ODI	67	0.70	1	91	6TH TSP +	FL
BOBBIN			ODI	61	1.14	1	98	6TH TSP +	FL
BOBBIN	81	66	ODI	71	0.62	1	88	5TH TSP +	FL
BOBBIN			ODI	81	0.51	1	74	6TH TSP +	FL
BOBBIN			ODI	67	0.73	1	93	6TH TSP +	FL
BOBBIN			ODI	77	0.78	1	80	6TH TSP +	FL
BOBBIN	81	68	ODI	53	0.69	1	108	6TH TSP +	FL
BOBBIN			ODI	95	0.78	1	51	6TH TSP +	FL
BOBBIN	81	69	ODI	40	0.45	1	119	5TH TSP +	FL
BOBBIN	81	70	ODI	41	0.48	1	122	4TH TSP +	LTSF
BOBBIN			ODI	40	0.51	1	124	4TH TSP +	LTSF
BOBBIN			ODI	44	0.41	1	115	5TH TSP +	LTSF
BOBBIN			ODI	47	0.60	1	117	5TH TSP +	LTSF
BOBBIN	82	31	ODI	47	0.66	1	116	5TH TSP +	FL
BOBBIN	82	33	ODI	41	0.50	1	124	5TH TSP +	FL
BOBBIN	82	63	ODI	84	0.66	1	70	5TH TSP +	FL
BOBBIN	82	67	ODI	41	0.66	1	117	4TH TSP +	FL
BOBBIN			ODI	51	0.43	1	108	4TH TSP +	FL
BOBBIN			ODI	48	0.56	1	110	5TH TSP +	FL
BOBBIN			ODI	48	0.49	1	110	5TH TSP +	FL
BOBBIN			ODI	46	1.12	1	114	4TH TSP +	FL
BOBBIN			ODI	81	0.45	1	75	6TH TSP +	FL
BOBBIN			ODI	62	0.84	1	99	5TH TSP +	FL
BOBBIN	83	10	ODI	49	0.74	1	116	5TH TSP +	FL

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ATTACHMENT 7
 Tubes With Indications of 20% Through-Wall or Greater

STEAM GENERATOR 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: INDICATIONS 40-100% TWD

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	83	11	ODI	46	0.30	1	117	5TH TSP +	14.37 FL
BOBBIN	83	64	ODI	56	0.46	1	104	4TH TSP +	2.73 FL
BOBBIN			ODI	65	0.48	1	93	5TH TSP +	9.05 FL
BOBBIN			ODI	53	0.32	1	107	5TH TSP +	14.07 FL
BOBBIN	83	66	ODI	47	0.54	1	114	4TH TSP +	7.82 FL
BOBBIN			ODI	44	1.03	1	117	4TH TSP +	9.48 FL
BOBBIN			ODI	83	0.70	1	69	4TH TSP +	33.41 FL
BOBBIN			ODI	50	0.60	1	111	5TH TSP +	6.33 FL
BOBBIN			ODI	49	0.59	1	112	5TH TSP +	11.99 FL
BOBBIN	83	69	ODI	41	0.65	1	123	3RD TSP +	25.51 LTSEF
BOBBIN			ODI	44	0.56	1	120	4TH TSP +	10.89 LTSEF
BOBBIN			ODI	45	0.53	1	119	4TH TSP +	17.52 LTSEF
BOBBIN			ODI	51	0.40	1	113	4TH TSP +	18.02 LTSEF
BOBBIN			ODI	40	0.51	1	124	4TH TSP +	18.42 LTSEF
BOBBIN			ODI	50	0.50	1	114	4TH TSP +	19.20 LTSEF
BOBBIN			ODI	53	1.06	1	111	4TH TSP +	26.74 LTSEF
BOBBIN			ODI	43	0.37	1	121	5TH TSP +	4.59 LTSEF
BOBBIN	84	64	ODI	55	0.53	1	105	4TH TSP +	20.38 FL
BOBBIN			ODI	71	0.86	1	86	4TH TSP +	20.84 FL
BOBBIN			ODI	71	0.53	1	86	4TH TSP +	22.59 FL
BOBBIN	84	65	ODI	84	0.45	1	66	3RD TSP +	33.34 FL
BOBBIN			ODI	82	0.46	1	68	4TH TSP +	10.44 FL
BOBBIN			ODI	62	0.37	1	96	4TH TSP +	13.13 FL
BOBBIN	84	69	ODI	54	0.33	1	106	4TH TSP +	6.61 FL
BOBBIN			ODI	47	0.35	1	114	4TH TSP +	9.25 FL
BOBBIN			ODI	68	0.34	1	90	4TH TSP +	9.85 FL
BOBBIN			ODI	78	0.44	1	77	5TH TSP +	1.47 FL
BOBBIN	84	70	ODI	44	0.34	1	115	4TH TSP +	17.54 FL
BOBBIN	85	66	ODI	65	0.31	1	100	3RD TSP +	13.90 FL
BOBBIN			ODI	60	0.75	1	107	4TH TSP +	19.49 FL
BOBBIN	85	67	ODI	58	0.45	1	108	4TH TSP +	10.11 FL
BOBBIN	85	68	ODI	51	0.64	1	116	4TH TSP +	14.73 FL
BOBBIN	86	65	ODI	60	0.37	1	105	4TH TSP +	13.19 FL
BOBBIN	86	66	ODI	40	0.74	P	105	4TH TSP -	0.42 FL
BOBBIN	86	67	ODI	61	0.39	1	104	4TH TSP +	11.58 FL
BOBBIN			ODI	45	0.59	1	117	3RD TSP +	36.07 FL
BOBBIN			ODI	46	0.30	1	116	3RD TSP +	14.07 FL
BOBBIN	86	68	ODI	46	0.76	1	119	4TH TSP +	11.11 FL
BOBBIN			ODI	43	0.89	1	122	4TH TSP +	10.14 FL
BOBBIN			ODI	48	1.66	1	117	4TH TSP +	9.15 FL
BOBBIN			ODI	46	1.00	1	119	4TH TSP +	8.66 FL
BOBBIN	87	7	ODI	41	0.91	1	121	UTSEF	6.73 FL
BOBBIN	87	63	ODI	55	0.47	1	110	4TH TSP +	16.05 FL
BOBBIN	87	67	ODI	40	0.44	1	124	4TH TSP +	11.26 FL
BOBBIN			ODI	46	0.47	1	119	4TH TSP +	12.68 FL
BOBBIN	87	68	ODI	40	0.58	1	124	4TH TSP +	12.81 FL
BOBBIN	88	63	ODI	40	0.46	1	124	4TH TSP +	13.85 FL
BOBBIN	88	65	ODI	46	0.39	1	119	4TH TSP +	15.43 FL
BOBBIN	88	66	ODI	69	0.26	1	94	4TH TSP +	14.20 FL
BOBBIN			ODI	67	0.25	1	96	4TH TSP +	12.76 FL
BOBBIN	91	1	ODI	61	0.43	P	99	13TH TSP -	0.54 FL
BOBBIN	95	79	ODI	54	0.64	P	104	3RD TSP -	0.64 FL
BOBBIN	98	41	ODI	75	0.41	1	83	5TH TSP +	3.40 FL
BOBBIN	100	19	ODI	45	0.39	1	120	5TH TSP +	11.33 FL
BOBBIN	102	22	ODI	56	0.25	1	109	5TH TSP +	12.29 FL
BOBBIN	108	51	ODI	69	0.61	1	92	LTSEF	20.73 FL
BOBBIN	131	29	ODI	54	0.39	1	109	5TH TSP +	11.28 FL
BOBBIN	133	59	ODI	44	0.48	1	120	5TH TSP +	8.64 FL
BOBBIN	134	1	ODI	44	0.57	P	106	9TH TSP +	0.19 FL
BOBBIN	150	10	ODI	81	0.42	1	74	LTPF	6.74 FL
BOBBIN	151	8	ODI	45	0.64	P	105	13TH TSP -	0.11 FL

TOTAL TUBES FOUND = 109
 TOTAL INDICATIONS FOUND = 201
 TOTAL TUBES IN INPUT FILE = 15457

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Plant: Davis Besse 1
 Outage: 03/93 RPO

ATTACHMENT 8
 Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TKST	ROW	COL	IND	WTW	VOLTS	CRM	DEG	LOCATION	EXTENT	
BOBBIN	2	5	WQI		0.26	P	1	122 11TH TSP+	0.37	FL
BOBBIN	4	23	ODI	29	0.91		1	132 5TH TSP +	9.04	FL
BOBBIN	12	44	ODI	44	0.41		1	120 5TH TSP +	14.37	FL
BOBBIN	12	71	ODI	22	0.64		1	136 14TH TSP+	31.61	FL
BOBBIN	14	7	ODI	41	0.51		1	121 6TH TSP +	22.30	FL
BOBBIN	14	13	WQI		0.21		1	108 10TH TSP+	10.65	FL
BOBBIN	15	1	WQI		0.18	P	1	122 14TH TSP+	0.27	FL
BOBBIN	15	24	ODI	31	0.47		1	132 5TH TSP +	17.59	FL
BOBBIN	15	78	ODI	21	0.57		1	137 14TH TSP+	31.06	FL
BOBBIN	16	17	ODI	41	0.37		1	123 9TH TSP +	31.41	FL
BOBBIN	16	26	ODI	34	0.78		1	129 5TH TSP +	18.05	FL
BOBBIN	17	13	ODI	32	0.40		1	130 5TH TSP +	12.55	FL
BOBBIN	17	27	WQI		0.79	P	1	102 5TH TSP -	0.63	FL
BOBBIN			ODI	40	0.27		1	122 5TH TSP +	15.56	FL
BOBBIN			ODI	38	0.44		1	126 5TH TSP +	15.25	FL
BOBBIN	17	28	WQI		0.24		1	115 5TH TSP +	14.26	FL
BOBBIN	18	26	ODI	33	0.32		1	129 5TH TSP +	13.45	FL
BOBBIN	18	27	ODI	28	0.33		1	135 5TH TSP +	19.44	FL
BOBBIN	18	28	ODI	38	0.40		1	124 5TH TSP +	23.36	FL
BOBBIN			ODI	31	0.24		1	132 5TH TSP +	22.81	FL
BOBBIN			ODI	23	0.48		1	139 5TH TSP +	23.10	FL
BOBBIN	18	31	ODI	25	0.21		1	138 5TH TSP +	13.84	FL
BOBBIN	19	13	ODI	34	0.37		1	128 7TH TSP +	9.14	FL
BOBBIN	19	29	ODI	31	0.35		1	131 5TH TSP +	15.33	FL
BOBBIN	21	17	ODI	42	0.46		1	121 5TH TSP +	16.74	FL
BOBBIN	22	33	ODI	34	0.43		1	125 5TH TSP +	11.61	FL
BOBBIN	22	56	ODI	41	0.50		1	121 4TH TSP +	34.00	FL
BOBBIN			ODI	33	0.27		1	128 4TH TSP +	34.40	FL
BOBBIN			ODI	43	0.50		1	119 4TH TSP +	34.99	FL
BOBBIN			ODI	42	0.68		1	120 4TH TSP +	35.25	FL
BOBBIN	23	33	ODI	32	0.31		1	128 5TH TSP +	11.32	FL
BOBBIN	23	34	ODI	22	0.29		1	136 5TH TSP +	11.84	FL
BOBBIN	23	57	ODI	37	0.37		1	125 4TH TSP +	33.32	FL
BOBBIN			ODI	34	0.20		1	128 4TH TSP +	33.92	FL
BOBBIN			ODI	37	0.43		1	125 4TH TSP +	34.35	FL
BOBBIN	24	14	ODI	32	0.32		1	128 5TH TSP +	12.85	FL
BOBBIN	24	56	ODI	31	0.46		1	130 4TH TSP +	34.07	FL
BOBBIN	24	57	ODI	35	0.30		1	127 4TH TSP +	32.81	FL
BOBBIN	25	16	ODI	32	0.26		1	128 5TH TSP +	14.31	FL
BOBBIN	25	57	ODI	37	0.51		1	125 4TH TSP +	34.18	FL
BOBBIN	26	20	ODI	30	0.47		1	132 5TH TSP +	16.23	FL
BOBBIN	26	32	ODI	38	0.27		1	124 5TH TSP +	9.29	FL
BOBBIN	26	55	ODI	27	0.60		1	134 4TH TSP +	32.50	FL
BOBBIN	28	20	ODI	37	0.34		1	125 5TH TSP +	12.92	FL
BOBBIN	28	21	ODI	35	0.56		1	127 LTPF +	21.60	FL
BOBBIN	29	23	ODI	26	0.37		1	136 5TH TSP +	12.26	FL
BOBBIN	29	33	WQI		0.29	P	1	80 4TH TSP +	0.48	FL
BOBBIN	33	65	ODI	29	0.32		1	127 LTPF +	21.68	FL
BOBBIN	33	106	WQI		0.45		1	73 5TH TSP +	14.39	FL
BOBBIN	34	24	WQI		0.28	P	1	104 5TH TSP -	0.23	FL
BOBBIN	36	88	ODI	31	0.29	F	1	113 5TH TSP -	0.13	FL
BOBBIN	36	95	ODI	34	0.35	P	1	111 5TH TSP -	0.13	FL
BOBBIN	37	95	WQI		0.25	P	1	81 5TH TSP -	0.07	FL
BOBBIN	39	1	ODI	44	0.82		1	120 15TH TSP+	14.36	FL
BOBBIN	40	42	ODI	41	0.48		1	122 LTPF +	19.81	FL
BOBBIN	41	16	ODI	41	0.23		1	122 5TH TSP +	13.27	FL
BOBBIN	42	28	ODI	30	0.25		1	138 4TH TSP +	35.80	FL
BOBBIN	45	63	ODI	29	0.36		1	131 10TH TSP+	3.09	FL
BOBBIN	45	119	ODI	56	0.47		1	106 6TH TSP +	31.59	FL
BOBBIN	46	31	ODI	36	0.37		1	126 LTPF +	22.21	FL
BOBBIN	48	91	ODI	49	0.85		1	111 5TH TSP +	1.11	FL
BOBBIN	49	31	ODI	22	0.39		1	136 4TH TSP +	30.95	FL
BOBBIN	52	30	WQI		0.26		1	116 LTPF +	21.53	FL
BOBBIN	52	59	ADS		1.48		5	104 LTSP +	22.48TO+ 30.17	FL
BOBBIN	52	70	ODI	30	0.21		1	126 6TH TSP +	11.37	FL
BOBBIN	53	28	ODI	33	0.26		1	126 4TH TSP +	35.69	FL
BOBBIN	56	1	ODI	29	1.16	P	1	125 12TH TSP+	0.52	FL
BOBBIN	56	10	ODI	38	0.66		1	124 LTPF +	7.06	FL
BOBBIN	56	98	WQI		0.13	P	1	68 4TH TSP +	0.07	FL
BOBBIN	57	60	ODI	34	0.26		1	127 4TH TSP +	13.91	FL

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Plant: Davis Besse 1
 Outage: 03/93 RFO

ATTACHMENT 8
 Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% IW, WQI, ADS, & OBS

TEST	ROW	COL	IND	%IW	VOLTS	CHN	DEG	LOCATION	KITEMT
BOBBIN	57	126	WQI		3.24	P 1	82	LTSP + 0.00	FL
BOBBIN	58	112	WQI		0.57	P 1	68	15TH TSP+ 0.90	FL
BOBBIN	59	5	ODI	36	0.38	P 1	118	14TH TSP+ 0.12	FL
BOBBIN	60	1	ODI	24	0.32	P 1	127	12TH TSP+ 0.12	FL
BOBBIN	60	5	ODI	58	0.31	P 1	97	14TH TSP+ 0.09	FL
BOBBIN			ODI	51	0.32	P 1	104	14TH TSP+ 0.38	FL
BOBBIN	60	79	OBS					+ 22.19	UTSP
BOBBIN	61	49	ODI	21	0.25	1	138	4TH TSP + 17.08	FL
BOBBIN	62	9	ODI	52	1.07	1	112	5TH TSP + 14.90	FL
BOBBIN			ODI	69	0.80	1	94	5TH TSP + 15.30	FL
BOBBIN	63	4	ODI	33	0.46	1	126	6TH TSP + 30.90	FL
BOBBIN	63	10	WQI		0.48	1	103	5TH TSP + 14.34	FL
BOBBIN	63	52	ODI	24	0.71	1	136	4TH TSP + 17.25	FL
BOBBIN	63	68	ODI	21	0.41	1	138	4TH TSP + 9.09	FL
BOBBIN			ODI	34	0.67	1	127	4TH TSP + 7.89	FL
BOBBIN	64	1	ODI	20	0.37	1	138	14TH TSP+ 32.94	FL
BOBBIN	64	11	ODI	31	0.37	1	129	5TH TSP + 15.80	FL
BOBBIN	65	3	ODI	36	0.24	1	127	7TH TSP + 4.94	FL
BOBBIN	65	4	ODI	38	0.16	P 1	113	14TH TSP+ 0.25	FL
BOBBIN	65	15	ODI	26	0.29	1	135	5TH TSP + 12.75	FL
BOBBIN			ODI	37	0.38	1	127	5TH TSP + 12.55	FL
BOBBIN	65	51	ODI	39	0.74	1	125	4TH TSP + 14.98	FL
BOBBIN	65	52	ODI	60	0.30	1	100	4TH TSP + 16.80	UTSP
BOBBIN	65	63	ODI	30	0.54	1	131	4TH TSP + 4.93	FL
BOBBIN	65	69	ODI	39	0.34	1	123	4TH TSP + 9.88	FL
BOBBIN	65	79	ODI	33	0.21	1	128	10TH TSP+ 27.75	FL
BOBBIN	66	2	ODI	40	0.81	P 1	112	7TH TSP + 0.14	FL
BOBBIN	66	4	WQI		0.21	P 1	85	14TH TSP- 0.06	FL
BOBBIN	66	11	ODI	59	0.48	1	107	5TH TSP + 15.08	FL
BOBBIN			ODI	37	0.30	1	126	5TH TSP + 14.51	FL
BOBBIN	66	63	WQI		0.25	1	116	4TH TSP + 10.31	FL
BOBBIN	66	66	ODI	22	0.32	1	137	4TH TSP + 8.09	FL
BOBBIN	66	70	ODI	36	0.53	1	126	4TH TSP + 6.90	FL
BOBBIN	66	72	ODI	23	0.41	1	136	4TH TSP + 6.93	FL
BOBBIN	67	19	ADS		2.68	6	93	7TH TSP + 33.55	FL
BOBBIN	67	60	ODI	29	0.40	1	133	4TH TSP + 12.36	FL
BOBBIN	67	62	ODI	52	0.57	1	111	3RD TSP + 38.17	FL
BOBBIN	67	63	ODI	51	0.54	1	112	3RD TSP + 38.11	FL
BOBBIN	67	65	ODI	38	0.41	1	124	4TH TSP + 10.58	FL
BOBBIN			ODI	39	0.37	1	124	3RD TSP + 37.70	FL
BOBBIN	67	68	ODI	22	0.31	1	137	3RD TSP + 20.10	FL
BOBBIN	67	69	ODI	36	0.34	1	126	4TH TSP + 7.70	FL
BOBBIN	68	11	ODI	63	0.35	1	100	5TH TSP + 15.64	FL
BOBBIN	68	12	ODI	54	0.38	1	109	5TH TSP + 14.36	FL
BOBBIN			ODI	55	0.31	1	108	5TH TSP + 13.40	FL
BOBBIN	68	65	ODI	31	0.49	1	130	4TH TSP + 14.34	FL
BOBBIN			ODI	31	0.34	1	130	4TH TSP + 7.73	FL
BOBBIN	68	66	ODI	59	0.28	1	102	6TH TSP + 11.68	FL
BOBBIN			ODI	52	0.48	1	110	3RD TSP + 38.23	FL
BOBBIN			ODI	25	0.40	1	136	3RD TSP + 38.00	FL
BOBBIN	68	68	ODI	27	0.51	1	135	4TH TSP + 11.16	FL
BOBBIN	68	69	ODI	44	0.48	1	117	4TH TSP + 11.82	FL
BOBBIN			ODI	42	0.58	1	121	4TH TSP + 8.61	FL
BOBBIN			ODI	33	0.86	1	129	4TH TSP + 8.11	FL
BOBBIN			ODI	58	0.48	1	104	4TH TSP + 7.75	FL
BOBBIN	68	70	ODI	27	0.37	1	133	4TH TSP + 9.13	FL
BOBBIN	68	71	ODI	37	0.45	1	126	3RD TSP + 28.11	FL
BOBBIN	68	73	ODI	46	0.45	1	137	4TH TSP + 6.74	FL
BOBBIN			ODI	29	0.62	1	133	4TH TSP + 6.42	FL
BOBBIN			ODI	39	0.40	1	124	4TH TSP + 6.13	FL
BOBBIN			ODI	52	0.27	1	111	4TH TSP + 5.69	FL
BOBBIN	69	11	ODI	61	0.25	1	101	5TH TSP + 15.65	FL
BOBBIN	69	52	ODI	32	0.49	1	133	4TH TSP + 14.22	FL
BOBBIN	69	63	ODI	58	0.30	1	106	3RD TSP + 31.65	FL
BOBBIN			ODI	49	0.36	1	115	3RD TSP + 27.53	FL
BOBBIN	69	65	ODI	47	0.35	P 1	106	2ND TSP - 0.26	FL
BOBBIN			ODI	45	0.41	1	118	4TH TSP + 18.74	FL
BOBBIN			ODI	29	0.61	1	133	4TH TSP + 14.15	FL
BOBBIN			ODI	27	0.26	1	135	3RD TSP + 28.19	FL
BOBBIN	69	66	ODI	38	0.35	1	125	4TH TSP + 12.86	FL

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ATTACHMENT 8

Plant Davis Besse 1 Tubes Plugged Steam Generator 1-2
 Outag.: 03/93 RFO

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN			ODI	38	0.47	1	125	4TH TSP + 11.12	FL
BOBBIN			ODI	41	0.37	1	122	3RD TSP + 37.10	FL
BOBBIN	69	67	ODI	45	0.48	1	118	4TH TSP + 26.56	FL
BOBBIN			ODI	51	0.39	1	112	3RD TSP + 30.86	FL
BOBBIN	69	68	ODI	57	0.51	1	105	4TH TSP + 26.32	FL
BOBBIN			ODI	34	0.25	1	128	4TH TSP + 20.09	FL
BOBBIN			ODI	25	0.49	1	136	3RD TSP + 30.50	FL
BOBBIN	69	69	ODI	36	0.46	1	127	4TH TSP + 20.56	FL
BOBBIN			ODI	37	0.34	1	126	3RD TSP + 28.90	FL
BOBBIN			ODI	30	0.33	1	132	3RD TSP + 27.89	FL
BOBBIN	69	70	ODI	29	0.36	1	133	4TH TSP + 17.43	FL
BOBBIN			ODI	52	0.29	1	111	4TH TSP + 16.48	FL
BOBBIN			ODI	25	0.63	1	136	4TH TSP + 14.98	FL
BOBBIN			ODI	32	0.56	1	130	4TH TSP + 14.69	FL
BOBBIN			ODI	33	0.58	1	129	3RD TSP + 21.24	FL
BOBBIN			ODI	34	0.16	1	128	3RD TSP + 20.66	FL
BOBBIN	69	72	ODI	23	0.49	P	1	124 3RD TSP + 38.55	FL
BOBBIN	69	73	WQI		0.72	P	1	109 4TH TSP + 0.65	FL
BOBBIN			WQI		0.32		1	116 4TH TSP + 4.93	FL
BOBBIN	69	74	ODI	50	0.97	P	1	104 4TH TSP + 0.70	FL
BOBBIN			ODI	27	0.48	1	135	4TH TSP + 4.88	FL
BOBBIN	69	75	ODI	37	0.27	1	126	4TH TSP + 3.08	FL
BOBBIN			ODI	27	0.40	1	135	4TH TSP + 1.28	FL
BOBBIN	70	52	ODI	36	0.41	1	129	4TH TSP + 16.72	FL
BOBBIN			WQI		0.45	1	124	4TH TSP + 15.77	FL
BOBBIN	70	62	ODI	30	0.43	P	1	124 11TH TSP - 0.87	FL
BOBBIN			ODI	52	0.42	1	112	5TH TSP + 18.54	FL
BOBBIN			ODI	29	0.26	1	132	5TH TSP + 11.18	FL
BOBBIN			ODI	25	0.22	1	135	5TH TSP + 9.94	FL
BOBBIN			ODI	25	0.38	1	135	5TH TSP + 7.81	FL
BOBBIN			ODI	67	0.28	1	95	4TH TSP + 7.86	FL
BOBBIN			ODI	29	0.49	1	132	4TH TSP + 6.44	FL
BOBBIN			ODI	65	0.30	1	98	4TH TSP + 5.94	FL
BOBBIN			ODI	55	0.33	1	109	4TH TSP + 4.42	FL
BOBBIN			ODI	51	0.46	1	113	4TH TSP + 3.99	FL
BOBBIN	70	65	ODI	30	0.24	1	132	5TH TSP + 15.41	FL
BOBBIN			ODI	32	0.48	1	130	5TH TSP + 13.51	FL
BOBBIN			ODI	48	0.32	1	115	5TH TSP + 11.80	FL
BOBBIN			ODI	47	0.32	1	116	5TH TSP + 11.37	FL
BOBBIN			ODI	27	0.48	1	135	5TH TSP + 9.58	FL
BOBBIN	70	66	ODI	27	0.24	1	135	5TH TSP + 16.38	FL
BOBBIN			ODI	63	0.28	1	98	4TH TSP + 36.02	FL
BOBBIN	70	67	ODI	56	0.36	1	107	5TH TSP + 7.57	FL
BOBBIN	70	71	ODI	24	0.43	1	136	4TH TSP + 6.17	FL
BOBBIN			ODI	24	0.26	1	137	4TH TSP + 17.03	FL
BOBBIN			ODI	23	0.77	1	138	4TH TSP + 8.79	FL
BOBBIN			ODI	25	0.52	1	136	4TH TSP + 7.65	FL
BOBBIN			ODI	39	0.50	1	124	4TH TSP + 5.94	FL
BOBBIN	70	72	ODI	21	0.36	1	140	4TH TSP + 5.30	FL
BOBBIN			ODI	47	0.37	1	116	4TH TSP + 4.79	FL
BOBBIN			ODI	43	0.30	1	120	4TH TSP + 4.24	FL
BOBBIN			ODI	38	0.30	1	125	4TH TSP + 3.55	FL
BOBBIN	70	73	WQI		0.49	P	1	116 4TH TSP + 0.65	FL
BOBBIN			WQI		0.69	P	1	102 4TH TSP + 0.62	FL
BOBBIN	70	75	ODI	44	0.53	1	119	4TH TSP + 8.53	FL
BOBBIN	71	11	ODI	62	0.66	1	102	5TH TSP + 35.54	FL
BOBBIN	71	14	ODI	54	0.44	1	110	5TH TSP + 35.26	FL
BOBBIN			ODI	43	0.41	1	119	5TH TSP + 35.03	FL
BOBBIN	71	67	ODI	27	0.37	1	135	7TH TSP + 18.78	FL
BOBBIN	71	68	ODI	34	0.31	1	130	6TH TSP + 29.95	FL
BOBBIN			ODI	61	0.50	1	105	6TH TSP + 29.12	FL
BOBBIN			ODI	31	0.22	1	132	3RD TSP + 33.27	FL
BOBBIN			ODI	23	0.22	1	138	2ND TSP + 15.74	FL
BOBBIN			ODI	20	0.24	1	140	2ND TSP + 14.97	FL
BOBBIN	71	69	ODI	24	0.26	1	137	5TH TSP + 3.54	FL
BOBBIN			ODI	26	0.47	1	136	4TH TSP + 35.90	FL
BOBBIN			ODI	21	0.46	1	139	4TH TSP + 34.82	FL
BOBBIN	71	70	ODI	42	0.45	1	123	3RD TSP + 21.98	FL
BOBBIN	71	73	ODI	51	0.31	1	112	4TH TSP + 1.35	FL
BOBBIN	72	52	ODI	37	1.06	1	128	4TH TSP + 36.78	FL

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Plant: Davis Besse 1
 Outage: 03/93 RFO

Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% T₄, WQI, ADS, & OSS

TEST	ROW	COL	IND	WTW	VOLTS	C/W	DEG	LOCATION	EXTENT
BOBBIN	72	60	ODI	37	0.25	1	126	5TH TSP + 11.50	FL
BOBBIN	72	68	ODI	87	0.83	1	66	7TH TSP + 12.25	FL
BOBBIN	72	69	ODI	34	0.62	1	123	6TH TSP + 25.31	FL
BOBBIN	72	71	ODI	48	0.63	1	118	4TH TSP + 5.29	FL
BOBBIN			WQI		0.32	1	122	3RD TSP + 33.98	FL
BOBBIN	72	72	ODI	24	0.34	1	137	4TH TSP + 9.38	FL
BOBBIN	73	53	WQI		0.21	P 1	108	9TH TSP - 0.49	FL
BOBBIN	73	62	ODI	26	0.83	1	133	6TH TSP + 8.03	LTSF
BOBBIN	73	72	WQI		0.42	1	113	4TH TSP + 10.79	FL
BOBBIN	74	49	WQI		0.21	P 1	90	2ND TSP + 0.05	FL
BOBBIN	74	62	ODI	63	0.37	1	98	7TH TSP + 6.73	FL
BOBBIN	75	8	ODI	46	0.46	1	117	10TH TSP+ 33.81	FL
BOBBIN	75	51	WQI		0.50	P 1	90	10TH TSP- 0.93	FL
BOBBIN	75	52	WQI		0.25	1	90	9TH TSP + 37.43	FL
BOBBIN	75	53	WQI		0.91	P 1	22	UTSF - 0.18	FL
BOBBIN	75	68	ODI	31	0.23	1	128	4TH TSP + 18.03	FL
BOBBIN	76	65	ODI	77	0.37	1	81	7TH TSP + 26.84	FL
BOBBIN			ODI	39	1.33	1	120	7TH TSP + 27.25	FL
BOBBIN	76	85	WQI		0.43	1	120	LTPF + 2.57	FL
BOBBIN	77	51	ODI	52	0.34	1	114	4TH TSP + 19.71	FL
BOBBIN	77	62	ODI	30	0.29	1	126	5TH TSP + 11.25	FL
BOBBIN	77	64	ODI	65	0.62	1	95	7TH TSP + 18.91	FL
BOBBIN			ODI	39	0.60	1	120	7TH TSP + 19.73	FL
BOBBIN			ODI	60	0.31	1	101	7TH TSP + 21.17	FL
BOBBIN	77	65	ODI	21	0.29	1	132	7TH TSP + 6.52	FL
BOBBIN			ODI	35	0.49	1	123	7TH TSP + 9.19	FL
BOBBIN			ODI	23	0.58	1	131	7TH TSP + 16.32	FL
BOBBIN			ODI	53	0.97	1	108	7TH TSP + 16.81	FL
BOBBIN	77	67	ODI	26	0.35	1	137	6TH TSP + 4.71	FL
BOBBIN			ODI	54	0.81	1	113	6TH TSP + 3.55	FL
BOBBIN	78	2	ODI	31	0.37	1	130	UTSF + 6.50	FL
BOBBIN	78	39	ADS		0.65	6	81	1RD TSP + 7.94	FL
BOBBIN	78	41	ODI	58	0.35	1	108	8TH TSP + 35.52	FL
BOBBIN			ODI	39	0.64	1	125	8TH TSP + 35.10	FL
BOBBIN			ODI	45	0.36	1	120	8TH TSP + 33.76	FL
BOBBIN	78	63	ODI	36	0.51	1	122	7TH TSP + 16.65	FL
BOBBIN	78	64	ODI	23	0.56	1	131	7TH TSP + 34.04	FL
BOBBIN	78	66	WQI		0.34	P 1	76	7TH TSP - 0.23	FL
BOBBIN	79	18	ODI	68	0.32	1	93	12TH TSP+ 9.06	FL
BOBBIN	79	63	ODI	55	0.74	1	106	6TH TSP + 11.39	FL
BOBBIN	79	64	ODI	35	0.64	1	122	6TH TSP + 14.68	FL
BOBBIN	79	66	ODI	32	0.27	1	131	4TH TSP + 12.64	LTSF
BOBBIN	79	67	ODI	32	0.36	1	131	7TH TSP + 16.84	LTSF
BOBBIN			ODI	42	0.94	1	122	7TH TSP + 19.42	LTSF
BOBBIN	79	68	WQI		0.27	1	57	6TH TSP + 23.55	FL
BOBBIN			WQI		0.51	1	65	6TH TSP + 24.70	FL
BOBBIN			ODI	79	0.75	1	78	6TH TSP + 27.03	FL
BOBBIN			WQI		0.26	1	90	7TH TSP + 10.03	FL
BOBBIN			ODI	63	0.31	1	98	7TH TSP + 11.32	FL
BOBBIN			ODI	42	0.52	1	117	7TH TSP + 17.49	FL
BOBBIN			ODI	33	0.65	1	124	8TH TSP + 12.04	FL
BOBBIN	79	69	ODI	62	0.50	1	99	6TH TSP + 12.78	FL
BOBBIN			ODI	63	0.75	1	98	6TH TSP + 21.63	FL
BOBBIN	79	105	ODI	29	0.37	1	133	5TH TSP + 14.92	FL
BOBBIN	80	1	WQI		0.23	1	125	13TH TSP- 0.14	FL
BOBBIN	80	60	WQI		0.92	P 1	90	UTSF - 0.19	FL
BOBBIN	80	62	ODI	65	0.75	1	96	6TH TSP + 6.39	FL
BOBBIN	80	63	ODI	73	0.57	1	86	6TH TSP + 9.36	FL
BOBBIN	80	65	ODI	37	0.67	1	121	6TH TSP + 17.11	FL
BOBBIN			ODI	42	0.34	1	117	6TH TSP + 21.21	FL
BOBBIN			ODI	23	0.36	1	131	6TH TSP + 25.36	FL
BOBBIN			ODI	29	0.42	1	127	6TH TSP + 28.96	FL
BOBBIN			ODI	35	0.67	1	123	6TH TSP + 29.48	FL
BOBBIN			ODI	70	0.45	1	90	6TH TSP + 29.90	FL
BOBBIN	80	66	ODI	42	0.59	1	117	6TH TSP + 20.16	FL
BOBBIN			ODI	66	1.12	1	94	6TH TSP + 21.58	FL
BOBBIN			ODI	67	0.50	1	93	6TH TSP + 22.29	FL
BOBBIN			ODI	65	1.06	1	96	6TH TSP + 22.46	FL
BOBBIN			ODI	52	0.42	1	109	6TH TSP + 23.04	FL
BOBBIN			ODI	64	0.72	1	97	6TH TSP + 23.71	FL

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ATTACHMENT 8

Plant: Davis Besse 1
 Outage: 03/93 RFO

Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TEST	ROW	COL	IND	TW	VOLTS	CHN	DRG	LOCATION	EXTENT
BOBBIN			ODI	77	0.61	1	81	6TH TSP + 24.69	FL
BOBBIN			ODI	24	0.81	1	130	6TH TSP + 25.35	FL
BOBBIN			ODI	64	0.47	1	97	6TH TSP + 26.74	FL
BOBBIN			ODI	75	0.53	1	83	6TH TSP + 27.09	FL
BOBBIN	80	67	ODI	46	0.52	1	113	6TH TSP + 24.79	FL
BOBBIN			ODI	58	0.79	1	101	7TH TSP + 16.04	FL
BOBBIN	80	68	ODI	74	0.32	1	84	7TH TSP + 10.65	FL
BOBBIN			ODI	79	0.52	1	77	7TH TSP + 13.82	FL
BOBBIN			ODI	21	0.87	1	132	7TH TSP + 15.61	FL
BOBBIN	80	69	ODI	23	0.65	1	131	3RD TSP + 26.00	FL
BOBBIN			ODI	39	0.74	1	120	3RD TSP + 30.75	FL
BOBBIN			ODI	70	0.60	1	90	7TH TSP + 8.33	FL
BOBBIN			ODI	66	0.42	1	94	7TH TSP + 10.44	FL
BOBBIN	80	70	ODI	29	0.49	1	127	3RD TSP + 31.97	FL
BOBBIN	80	74	ODI	51	0.38	1	115	4TH TSP + 11.88	FL
BOBBIN			ODI	34	0.47	1	130	4TH TSP + 12.72	FL
BOBBIN	81	64	ODI	30	0.80	1	126	6TH TSP + 5.62	FL
BOBBIN			ODI	47	0.72	1	113	6TH TSP + 6.61	FL
BOBBIN			ODI	23	0.69	1	132	6TH TSP + 7.62	FL
BOBBIN			ODI	50	0.43	1	111	6TH TSP + 8.14	FL
BOBBIN			ODI	45	0.40	1	96	6TH TSP + 8.46	FL
BOBBIN			ODI	40	0.66	1	119	6TH TSP + 8.85	FL
BOBBIN			ODI	23	0.75	1	131	6TH TSP + 11.24	FL
BOBBIN			ODI	62	0.39	1	99	6TH TSP + 15.88	FL
BOBBIN			ODI	40	0.60	1	119	6TH TSP + 16.45	FL
BOBBIN	81	65	ODI	35	0.32	1	122	6TH TSP + 8.89	FL
BOBBIN			ODI	48	0.92	1	111	6TH TSP + 9.17	FL
BOBBIN			ODI	46	0.82	1	113	6TH TSP + 9.86	FL
BOBBIN			ODI	22	0.61	1	131	6TH TSP + 12.64	FL
BOBBIN			ODI	25	0.37	1	129	6TH TSP + 12.88	FL
BOBBIN			ODI	36	1.40	1	121	6TH TSP + 15.44	FL
BOBBIN			ODI	61	2.31	1	98	6TH TSP + 16.48	FL
BOBBIN			ODI	50	1.43	1	109	6TH TSP + 17.22	FL
BOBBIN			ODI	27	0.96	1	128	6TH TSP + 17.72	FL
BOBBIN			ODI	56	1.35	1	103	6TH TSP + 17.94	FL
BOBBIN			ODI	52	1.38	1	107	6TH TSP + 18.73	FL
BOBBIN			ODI	34	1.03	1	123	6TH TSP + 19.30	FL
BOBBIN			ODI	40	1.34	1	118	6TH TSP + 19.82	FL
BOBBIN			ODI	71	1.35	1	87	6TH TSP + 20.51	FL
BOBBIN			ODI	49	1.14	1	110	6TH TSP + 21.04	FL
BOBBIN			ODI	34	0.48	1	123	6TH TSP + 23.71	FL
BOBBIN			ODI	39	0.89	1	119	6TH TSP + 24.18	FL
BOBBIN			ODI	29	0.81	1	126	6TH TSP + 24.95	FL
BOBBIN			ODI	67	0.70	1	91	6TH TSP + 25.94	FL
BOBBIN			ODI	41	1.14	1	98	6TH TSP + 31.34	FL
BOBBIN	81	66	ODI	71	0.62	1	88	5TH TSP + 7.00	FL
BOBBIN			ODI	81	0.51	1	74	6TH TSP + 24.50	FL
BOBBIN			ODI	67	0.73	1	93	6TH TSP + 31.68	FL
BOBBIN			ODI	77	0.78	1	80	6TH TSP + 33.79	FL
BOBBIN	81	67	ODI	33	0.86	1	124	7TH TSP + 18.21	FL
BOBBIN	81	68	ODI	53	0.69	1	108	6TH TSP + 25.98	FL
BOBBIN			ODI	95	0.78	1	51	6TH TSP + 31.21	FL
BOBBIN			ODI	29	0.64	P	123	7TH TSP + 0.15	FL
BOBBIN	81	69	ODI	39	0.36	1	120	5TH TSP + 3.36	FL
BOBBIN			ODI	40	0.45	1	119	5TH TSP + 3.85	FL
BOBBIN			ODI	29	1.35	1	127	5TH TSP + 8.58	FL
BOBBIN			ODI	27	0.49	1	128	5TH TSP + 11.59	FL
BOBBIN	81	70	ODI	29	0.38	1	133	3RD TSP + 23.46	LTSF
BOBBIN			ODI	28	0.42	1	135	3RD TSP + 34.87	LTSF
BOBBIN			ODI	41	0.48	1	123	4TH TSP + 19.37	LTSF
BOBBIN			ODI	40	0.51	1	124	4TH TSP + 24.45	LTSF
BOBBIN			ODI	44	0.41	P	115	5TH TSP - 0.45	LTSF
BOBBIN			ODI	47	0.60	1	117	5TH TSP - 0.05	LTSF
BOBBIN			ODI	31	0.45	1	132	5TH TSP + 2.29	LTSF
BOBBIN	82	31	ODI	28	0.37	1	131	UTSF + 3.85	FL
BOBBIN			ODI	47	0.66	1	116	5TH TSP + 9.90	FL
BOBBIN	82	32	ODI	33	0.60	1	130	5TH TSP + 9.20	FL
BOBBIN	82	33	ODI	41	0.50	1	124	5TH TSP + 8.73	FL
BOBBIN	82	41	ODI	39	0.46	1	125	5TH TSP + 4.88	FL
BOBBIN	82	63	ODI	29	0.30	1	127	5TH TSP + 17.21	FL

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Plant: Davis Besse 1
 Outage: 03/93 EPO

Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TEST	ROW	COL	IRD	WTW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN			ODI	84	0.56	1	70	5TH TSP + 24.12	FL
BOBBIN			ODI	30	0.33	1	126	5TH TSP + 25.48	FL
BOBBIN			ODI	33	0.53	1	124	6TH TSP + 4.40	FL
BOBBIN	82	65	ODI	27	0.41	1	128	5TH TSP + 10.48	FL
BOBBIN			ODI	27	0.45	1	128	5TH TSP + 10.96	FL
BOBBIN	82	67	ODI	34	0.49	1	123	4TH TSP + 2.69	FL
BOBBIN			ODI	41	0.65	1	117	4TH TSP + 2.87	FL
BOBBIN			ODI	51	0.43	1	108	4TH TSP + 4.85	FL
BOBBIN			ODI	48	0.56	1	110	5TH TSP + 6.82	FL
BOBBIN			ODI	37	0.66	1	120	5TH TSP + 7.18	FL
BOBBIN			ODI	20	0.86	1	127	5TH TSP + 8.29	FL
BOBBIN			ODI	48	0.49	1	110	5TH TSP + 8.53	FL
BOBBIN			ODI	23	0.80	1	131	4TH TSP + 3.70	FL
BOBBIN			ODI	46	1.12	1	114	4TH TSP + 5.04	FL
BOBBIN			ODI	81	0.45	1	75	6TH TSP + 4.79	FL
BOBBIN			ODI	62	0.84	1	99	5TH TSP + 6.58	FL
BOBBIN	82	71	ODI	27	0.60	1	135	4TH TSP + 6.28	FL
BOBBIN	83	1	ODI	38	0.47	1	123	15TH TSP+ 0.31	FL
BOBBIN	83	2	ODI	38	0.23	1	128	13TH TSP- 0.19	FL
BOBBIN	83	10	ODI	49	0.74	1	116	5TH TSP + 18.47	FL
BOBBIN	83	11	ODI	46	0.30	1	117	5TH TSP + 14.37	FL
BOBBIN			ODI	20	0.23	1	137	5TH TSP + 13.79	FL
BOBBIN	83	49	ODI	36	0.47	1	128	4TH TSP + 17.67	FL
BOBBIN	83	64	ODI	56	0.46	1	104	4TH TSP + 2.73	FL
BOBBIN			ODI	33	0.36	1	127	4TH TSP + 5.36	FL
BOBBIN			ODI	65	0.48	1	93	5TH TSP + 9.05	FL
BOBBIN			ODI	32	0.39	1	128	5TH TSP + 11.50	FL
BOBBIN			ODI	53	0.32	1	107	5TH TSP + 14.07	FL
BOBBIN	83	66	ODI	47	0.54	1	114	4TH TSP + 7.82	FL
BOBBIN			ODI	44	1.03	1	117	4TH TSP + 9.48	FL
BOBBIN			ODI	21	0.69	1	137	4TH TSP + 14.16	FL
BOBBIN			ODI	83	0.70	1	69	4TH TSP + 33.41	FL
BOBBIN			ODI	50	0.60	1	111	5TH TSP + 6.33	FL
BOBBIN			ODI	49	0.59	1	112	5TH TSP + 11.99	FL
BOBBIN	83	69	ODI	41	0.65	1	123	3RD TSP + 25.51	LTSF
BOBBIN			ODI	28	0.48	1	135	3RD TSP + 26.31	LTSF
BOBBIN			ODI	38	1.17	1	126	4TH TSP + 8.11	LTSF
BOBBIN			ODI	44	0.56	1	130	4TH TSP + 10.89	LTSF
BOBBIN			ODI	31	0.37	1	132	4TH TSP + 15.07	LTSF
BOBBIN			ODI	45	0.53	1	119	4TH TSP + 17.52	LTSF
BOBBIN			ODI	51	0.40	1	113	4TH TSP + 18.02	LTSF
BOBBIN			ODI	40	0.51	1	124	4TH TSP + 18.42	LTSF
BOBBIN			ODI	50	0.50	1	114	4TH TSP + 19.20	LTSF
BOBBIN			ODI	37	0.39	1	127	4TH TSP + 26.44	LTSF
BOBBIN			ODI	53	1.06	1	111	4TH TSP + 26.74	LTSF
BOBBIN			ODI	26	0.57	1	136	4TH TSP + 27.81	LTSF
BOBBIN			ODI	31	0.27	1	132	5TH TSP + 2.30	LTSF
BOBBIN			ODI	34	0.44	1	129	5TH TSP + 4.17	LTSF
BOBBIN			ODI	43	0.37	1	121	5TH TSP + 4.59	LTSF
BOBBIN	83	70	ODI	39	0.32	1	120	3RD TSP + 19.86	FL
BOBBIN			ODI	30	0.36	1	129	4TH TSP + 10.01	FL
BOBBIN			ODI	33	0.30	1	126	4TH TSP + 16.83	FL
BOBBIN	83	72	ODI	32	0.51	1	132	4TH TSP + 9.43	FL
BOBBIN	84	1	WQI		0.29	1	121	13TH TSP- 0.22	FL
BOBBIN	84	7	ODI	21	0.51	1	136	UTSF + 5.15	FL
BOBBIN	84	16	ADS		2.31	6	95	11TH TSP+ 26.79	FL
BOBBIN	84	19	WQI		0.29	1	110	5TH TSP + 11.70	FL
BOBBIN	84	64	ODI	55	0.53	1	105	4TH TSP + 20.38	FL
BOBBIN			ODI	71	0.86	1	86	4TH TSP + 20.84	FL
BOBBIN			ODI	71	0.53	1	86	4TH TSP + 22.59	FL
BOBBIN	84	65	ODI	27	0.24	1	131	3RD TSP + 14.95	FL
BOBBIN			ODI	84	0.45	1	66	3RD TSP + 33.34	FL
BOBBIN			ODI	82	0.46	1	68	4TH TSP + 10.44	FL
BOBBIN			ODI	62	0.37	1	96	4TH TSP + 13.13	FL
BOBBIN	84	69	ODI	54	0.33	1	106	4TH TSP + 6.61	FL
BOBBIN			ODI	47	0.35	1	114	4TH TSP + 9.25	FL
BOBBIN			ODI	68	0.34	1	90	4TH TSP + 9.85	FL
BOBBIN			ODI	20	0.68	1	138	4TH TSP + 12.05	FL
BOBBIN			ODI	78	0.44	1	77	5TH TSP + 1.47	FL
BOBBIN			ODI	23	0.59	1	135	5TH TSP + 1.83	FL

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Plant: Davis Besse 1
 Outage: 03/93 RFO

Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN	84	70	ODI	44	0.34	1	113	4TH TSP + 17.54	FL
BOBBIN	84	72	ODI	28	0.27	1	135	4TH TSP + 13.40	FL
BOBBIN			ODI	25	0.38	1	138	4TH TSP + 31.86	FL
BOBBIN			ODI	26	0.81	1	137	4TH TSP + 12.30	FL
BOBBIN	85	4	ODI	22	0.52	1	135	2ND TSP + 10.19	FL
BOBBIN	85	66	ODI	28	0.52	1	135	3RD TSP + 36.94	FL
BOBBIN			ODI	65	0.31	1	100	3RD TSP + 13.90	FL
BOBBIN			ODI	34	0.71	1	130	3RD TSP + 35.71	FL
BOBBIN			ODI	29	0.47	1	135	3RD TSP + 21.22	FL
BOBBIN			ODI	35	0.64	1	129	3RD TSP + 20.13	FL
BOBBIN			ODI	29	0.83	1	135	3RD TSP + 17.73	FL
BOBBIN			ODI	60	0.75	1	107	4TH TSP + 19.49	FL
BOBBIN			ODI	23	0.60	1	138	4TH TSP + 15.81	FL
BOBBIN			ODI	33	0.54	1	131	4TH TSP + 12.22	FL
BOBBIN	85	67	ODI	38	0.55	1	127	4TH TSP + 11.36	FL
BOBBIN			ODI	23	0.74	1	138	4TH TSP + 10.94	FL
BOBBIN			ODI	27	0.58	1	135	4TH TSP + 8.72	FL
BOBBIN			ODI	58	0.45	1	108	4TH TSP + 10.11	FL
BOBBIN			ODI	32	0.23 P	1	138	4TH TSP + 0.34	FL
BOBBIN	85	68	ODI	51	0.64	1	116	4TH TSP + 14.73	FL
BOBBIN			WQI		0.28	1	113	4TH TSP + 7.95	FL
BOBBIN			ODI	38	0.53	1	123	13TH TSP + 0.24	FL
BOBBIN	86	63	ODI	38	0.42	1	123	4TH TSP + 17.46	FL
BOBBIN	86	65	ODI	60	0.37	1	105	4TH TSP + 13.19	FL
BOBBIN			ODI	27	0.38	1	132	3RD TSP + 19.73	FL
BOBBIN	86	66	ODI	38	0.48	1	126	4TH TSP + 14.31	FL
BOBBIN			ODI	26	0.22	1	135	4TH TSP + 13.01	FL
BOBBIN			ODI	38	0.27	1	126	4TH TSP + 11.88	FL
BOBBIN			ODI	22	0.39	1	138	4TH TSP + 11.06	FL
BOBBIN			ODI	40	0.74 P	1	105	4TH TSP - 0.42	FL
BOBBIN	86	67	ODI	25	0.65	1	136	3RD TSP + 38.74	FL
BOBBIN			ODI	39	0.62	1	125	4TH TSP + 10.82	FL
BOBBIN			ODI	41	0.39	1	104	4TH TSP + 11.58	FL
BOBBIN			ODI	24	0.40	1	135	4TH TSP + 7.16	FL
BOBBIN			ODI	21	0.77	1	136	3RD TSP + 38.79	FL
BOBBIN			ODI	45	0.59	1	117	3RD TSP + 36.07	FL
BOBBIN			ODI	46	0.30	1	116	3RD TSP + 14.07	FL
BOBBIN	86	68	ODI	30	0.89 P	1	112	4TH TSP - 0.54	FL
BOBBIN			ODI	22	0.74	1	138	4TH TSP + 11.73	FL
BOBBIN			ODI	46	0.76	1	119	4TH TSP + 11.31	FL
BOBBIN			ODI	32	0.51	1	131	4TH TSP + 10.68	FL
BOBBIN			ODI	43	0.89	1	122	4TH TSP + 10.14	FL
BOBBIN			ODI	48	1.66	1	117	4TH TSP + 9.15	FL
BOBBIN			ODI	46	1.00	1	119	4TH TSP + 8.66	FL
BOBBIN			ODI	36	0.52	1	128	4TH TSP + 8.04	FL
BOBBIN	86	69	ODI	36	0.37	1	128	4TH TSP + 11.30	FL
BOBBIN			WQI		0.29	1	97	4TH TSP + 7.19	FL
BOBBIN	86	85	ADS		1.15	6	79	LTSF + 13.95	FL
BOBBIN	86	110	ODI	38	0.28	1	123	4TH TSP + 31.19	FL
BOBBIN	87	7	ODI	41	0.91	1	121	UTSF + 6.73	FL
BOBBIN	87	11	ADS		2.16	6	89	12TH TSP + 26.84	FL
BOBBIN	87	61	ODI	34	0.34	1	129	4TH TSP + 16.53	FL
BOBBIN	87	63	ODI	55	0.47	1	110	4TH TSP + 16.05	FL
BOBBIN	87	67	ODI	36	0.48	1	127	4TH TSP + 13.73	FL
BOBBIN			ODI	27	0.78	1	134	4TH TSP + 11.67	FL
BOBBIN			ODI	40	0.44	1	124	4TH TSP + 11.26	FL
BOBBIN			ODI	46	0.47	1	119	4TH TSP + 12.68	FL
BOBBIN			ODI	21	0.42	1	138	4TH TSP + 12.37	FL
BOBBIN	87	68	ODI	40	0.58	1	124	4TH TSP + 12.81	FL
BOBBIN	87	70	WQI		0.46	1	118	4TH TSP + 15.00	FL
BOBBIN			WQI		0.43	1	124	4TH TSP + 15.55	FL
BOBBIN	88	9	WQI		0.32	1	126	5TH TSP + 12.29	FL
BOBBIN	88	36	ODI	37	0.43	1	126	5TH TSP + 3.42	FL
BOBBIN	88	63	ODI	40	0.46	1	124	4TH TSP + 13.85	FL
BOBBIN	88	65	ODI	46	0.39	1	119	4TH TSP + 15.43	FL
BOBBIN	88	66	WQI		0.28	1	119	4TH TSP + 14.77	FL
BOBBIN			ODI	69	0.26	1	94	4TH TSP + 14.20	FL
BOBBIN			ODI	67	0.25	1	94	4TH TSP + 14.78	FL
BOBBIN			WQI		0.33	1	105	4TH TSP + 11.76	FL
BOBBIN	88	68	ODI	29	0.33	1	133	4TH TSP + 14.21	FL

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Plant: Davis Besse 1
 Outage: 03/93 RFO

Tubes Plugged Steam Generator 1-2

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TRST	ROW	COL	IND	WTW	VOLTS	CHW	DEG	LOCATION	EXTENT
BOBBIN	88	126	ODI	24	0.74	1	133	15TH TSP+ 33.08	FL
BOBBIN	89	66	ODI	37	0.69	1	127	3RD TSP + 36.63	FL
BOBBIN	89	67	WQI		0.21	1	99	4TH TSP + 11.98	FL
BOBBIN			ODI	29	0.38	1	130	4TH TSP + 8.06	FL
BOBBIN	91	1	ODI	61	0.43	P 1	99	13TH TSP- 0.54	FL
BOBBIN	95	79	ODI	54	0.64	P 1	104	3RD TSP - 0.64	FL
BOBBIN	96	24	ODI	30	0.35	1	133	5TH TSP + 10.27	FL
BOBBIN	98	24	ODI	30	0.38	1	130	5TH TSP + 10.04	FL
BOBBIN	98	41	ODI	75	0.41	1	83	5TH TSP + 3.40	FL
BOBBIN	100	19	ODI	45	0.39	1	120	5TH TSP + 11.33	FL
BOBBIN	100	63	ADS		9.98	6	93	LTSF + 8.56TO+ 18.12	FL
BOBBIN	102	16	ODI	35	0.26	1	128	5TH TSP + 12.75	FL
BOBBIN	102	22	ODI	56	0.25	1	109	5TH TSP + 12.29	FL
BOBBIN	102	32	ODI	31	0.62	1	131	5TH TSP + 3.44	FL
BOBBIN	102	40	ODI	23	0.23	1	137	5TH TSP + 2.71	FL
BOBBIN	104	17	ODI	31	0.43	1	129	5TH TSP + 14.30	FL
BOBBIN	105	14	ODI	33	0.35	1	126	5TH TSP + 15.46	FL
BOBBIN			ODI	37	0.37	1	122	5TH TSP + 14.30	FL
BOBBIN	106	6	ODI	25	0.32	P 1	104	13TH TSP- 0.51	FL
BOBBIN	106	15	ODI	26	0.29	1	133	5TH TSP + 14.78	FL
BOBBIN	107	1	WQI		0.20	1	70	10TH TSP+ 16.94	FL
BOBBIN	108	36	ODI	26	0.28	1	138	5TH TSP + 4.29	FL
BOBBIN	108	51	ODI	69	0.61	1	92	LTSF + 20.73	FL
BOBBIN	109	1	ODI	25	1.06	1	135	6TH TSP + 31.31	FL
BOBBIN	109	104	ODI	24	0.24	1	135	2ND TSP + 25.19	FL
BOBBIN	110	97	ODI	25	0.50	1	135	LTPF + 21.48	FL
BOBBIN	111	1	ODI	27	0.71	P 1	122	8TH TSP - 0.27	FL
BOBBIN			ODI	24	2.23	1	136	8TH TSP + 1.86	FL
BOBBIN	112	3	ODI	26	0.40	P 1	123	8TH TSP + 0.37	FL
BOBBIN	112	49	ODI	22	1.36	1	135	14TH TSP+ 18.40	FL
BOBBIN	113	1	ODI	25	0.49	1	135	15TH TSP+ 14.86	FL
BOBBIN	113	116	WQI		3.23	1	145	15TH TSP+ 19.54	FL
BOBBIN	114	97	ODI	38	0.23	P 1	115	7TH TSP - 0.48	FL
BOBBIN	114	99	WQI		0.24	1	119	5TH TSP + 12.37	FL
BOBBIN	115	10	ADS		2.41	6	88	10TH TSP+ 11.65	FL
BOBBIN	115	49	ADS		10.67	6	83	LTSF + 24.03TO+ 32.29	FL
BOBBIN	116	113	ODI	24	3.38	1	133	15TH TSP+ 19.77	FL
BOBBIN	120	21	ODI	35	0.52	1	126	5TH TSP + 11.31	FL
BOBBIN	120	94	WQI		0.24	1	121	5TH TSP + 12.12	FL
BOBBIN	121	62	ODI	35	0.42	1	128	5TH TSP + 4.44	FL
BOBBIN	121	64	ODI	35	0.38	1	128	4TH TSP + 26.49	FL
BOBBIN	122	54	ADS		4.49	6	93	LTSF + 22.39TO+ 30.27	FL
BOBBIN	122	76	ODI	37	0.24	1	126	4TH TSP + 30.69	FL
BOBBIN	123	13	ODI	23	0.27	1	132	6TH TSP + 26.33	FL
BOBBIN			ODI	23	0.20	1	132	5TH TSP + 19.08	FL
BOBBIN	123	73	WQI		0.22	1	116	4TH TSP + 33.53	FL
BOBBIN	123	80	ODI	22	0.44	1	138	5TH TSP + 23.92	FL
BOBBIN	124	14	ODI	29	0.40	1	131	5TH TSP + 14.05	FL
BOBBIN	124	18	ODI	35	0.26	1	126	5TH TSP + 13.06	FL
BOBBIN	124	78	WQI		0.36	1	107	5TH TSP + 12.88	FL
BOBBIN	125	17	ODI	28	0.58	1	131	5TH TSP + 12.50	FL
BOBBIN	125	69	WQI		0.21	1	125	5TH TSP + 6.59	FL
BOBBIN	127	3	ADS		2.20	6	86	4TH TSP + 25.60	FL
BOBBIN	127	5	ADS		2.84	6	85	3RD TSP + 6.99	FL
BOBBIN	129	6	ODI	23	0.61	P 1	125	10TH TSP+ 0.48	FL
BOBBIN	129	28	ODI	28	0.25	1	129	5TH TSP + 11.22	FL
BOBBIN	129	29	ODI	37	0.52	1	124	5TH TSP + 11.64	FL
BOBBIN	130	6	ODI	34	0.78	P 1	119	10TH TSP+ 0.48	FL
BOBBIN	130	87	WQI		0.60	P 1	86	14TH TSP- 0.64	FL
BOBBIN	131	29	ODI	54	0.39	1	109	5TH TSP + 11.28	FL
BOBBIN	132	66	ODI	28	0.38	1	135	5TH TSP + 10.80	FL
BOBBIN	133	29	ODI	22	2.77	1	135	4TH TSP + 12.38	FL
BOBBIN	133	59	ODI	44	0.48	1	120	5TH TSP + 8.84	FL
BOBBIN	133	61	WQI		0.25	1	104	5TH TSP + 10.34	FL
BOBBIN	134	1	ODI	44	0.57	P 1	106	5TH TSP + 0.19	FL
BOBBIN	135	6	WQI		0.83	P 1	106	10TH TSP+ 0.54	FL
BOBBIN	135	67	WQI		0.21	P 1	113	5TH TSP + 9.12	FL
BOBBIN	141	68	ODI	38	0.69	P 1	111	8TH TSP - 0.82	FL
BOBBIN	144	54	ODI	38	0.86	1	125	7TH TSP + 8.90	FL
BOBBIN	148	20	WQI		0.99	1	108	LTPF + 2.75	FL

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ATTACHMENT 8
 Tubes Plugged Steam Generator 1-2

Plant: Davis Besse 1
 Outage: 03/93 RFO

QUERY: DEFECT INDICATIONS 20-100% TW, WQI, ADS, & OBS

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	
BOBBIN	149	33	ODI	21	0.39	P 1	123	14TH TSP+	0.47	FL
BOBBIN	150	10	ODI	81	0.42	P 1	74	LTPF +	6.74	FL
BOBBIN	150	22	WQI		1.00	P 1	99	10TH TSP+	0.65	FL
BOBBIN	150	23	WQI		0.35	P 1	74	13TH TSP+	1.20	FL
BOBBIN	150	24	ODI	23	1.49	P 1	122	14TH TSP+	0.57	FL
BOBBIN	150	26	WQI		0.63	P 1	92	10TH TSP+	0.63	FL
BOBBIN	151	8	ODI	45	0.64	P 1	105	13TH TSP-	0.11	FL
BOBBIN			ODI	23	0.79	P 1	122	13TH TSP+	0.55	FL
BOBBIN	151	14	WQI		1.12	P 1	43	10TH TSP+	0.63	FL

TOTAL TUBES FOUND = 317
 TOTAL INDICATIONS FOUND = 569
 TOTAL TUBES IN INPUT FILE = 15457

In addition, the following tubes with dents were plugged.

Row	Column
104	1
105	122
146	51
6	50

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ATTACHMENT 8
Tubes Plugged Steam Generator 1-2

PLANT: OAKS BASSE UNIT 1

GENERATOR: A

X = Total SG 2-A Plugged Tubes (375)

TOTAL TUBES : 15457
SUPPORT RODS () : 42

TOTAL TUBES ASSIGNED : 375

