Northeast Utilities System

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MAR 07 1996

Docket No. 50-336
B15575

Re: 10CFR50.90

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Millstone Nuclear Power Station, Unit No. 2
Additional Information Regarding
Proposed Revision to Technical Specifications to
Extend Steam Generator Surveillance Requirement

In a letter dated October 24, 1995,[1] Northeast Nuclear Energy Company (NNECO) proposed a license amendment to revise the Technical Specifications to defer the required surveillance to inspect steam generator tubes until the next refueling outage, but no later than October 20, 1997. In a letter dated January 23, 1996,[2] the Nuclear Regulatory Commission (NRC) requested additional information which it needs to complete the review of the proposed revision to the Technical Specifications. The Attachment to this letter provides the requested additional information.

There are no commitments contained in this letter. If you have any questions regarding this matter, please call Mr. Gerard P. van Noordennen at (860) 440-2084.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

F. R. Dacimo
Vice President - Nuclear Operations

cc: See Page 2

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(1) E. A. DeBarba letter to the U.S. Nuclear Regulatory Commission, "Millstone Nuclear Power Station, Unit No. 2, Proposed Revision to Technical Specifications, Steam Generator Surveillance Requirement Extension," dated October 24, 1995.

(2) G. S. Vissing letter to R. E. Busch, "Request for Additional Information - Millstone Nuclear Power Station, Unit 2," January 23, 1996.

A001
1/1

cc: T. T. Martin, Region I Administrator
G. S. Vissing, NRC Project Manager, Millstone Unit No. 2
P. D. Swetland, Senior Resident Inspector, Millstone Unit No. 2

Mr. Kevin T.A. McCarthy, Director
Bureau of Air Management
Monitoring and Radiation Division
Department of Environmental Protection
79 Elm Street
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Docket No. 50-336
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Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Additional Information Regarding
Proposed Revision to Technical Specifications to
Extend Steam Generator Surveillance Requirement

March 1996

Attachment 1

Millstone Unit 2 Response to NRC Request for Additional Information Concerning Request to Defer the Inspection of Steam Generator Tubes

NRC letter, G. S. Vissing to R. E. Busch, dated January 23, 1996, requested additional information from the Millstone Unit 2 plant related to its proposed Technical Specification (TS) change requesting an amendment to its Operating License to include a one-time extension of the Steam Generator (SG) tube inspection interval. The proposed Technical Specification change would extend the next SG tube inspection from October 20, 1996, to the next refueling outage or no later than October 20, 1997, whichever is earlier.

Request #1

What was the total length of time following the steam generator replacement up to the first tube inspections that the plant was in Modes 1, 2 or 3? What is the total time projected up through October 20, 1997?

NU Response

The total length of time that the plant was in Modes 1, 2 or 3 during Cycle 12 was approximately 12200 hours.

Cycle 13 is currently scheduled to end on June 14, 1997. The total length of time that the plant is expected to operate during Cycle 13 is approximately 558 EFPDs.

Request #2

A partial inspection of the steam generators was completed following Cycle 12 operation. Reference 1 indicated that the inspection scope was limited to 30-percent of the tubes. Provide the following additional information regarding the scope of these inspections:

- Number of tubes inspected within each steam generator
- Tube locations inspected with reference to type of probes used (e.g. full length bobbin, tubesheet RPC)

NU Response

The inspection of the tubes in the MP2 SGs following Cycle 12 operation included:

changes in tube conditions which may be an indication of the initiation of tube degradation.

Request #4

Reference 1 describes an eddy current indication identified in Steam Generator 1 (R140/C79) with a depth determined at approximately 22-percent through wall. Based on the inspection results, was this indication attributed to a corrosive mechanism or to mechanically-induced damage (e.g., wear)? The test also states that the indication was confirmed in a rotating probe inspection. If the damage mechanism was believed to be stress corrosion cracking, state the basis for allowing the tube to remain in service considering that a rotating pancake coil probe has a detection threshold on the order of 40-percent for such indications.

NU Response

The RFO 12 eddy current examination identified only one indication of throughwall degradation. This indication was identified by the bobbin coil probe and was assigned a 22% throughwall depth. The indication produced an extremely small bobbin coil signal response (0.3 volts). A 3-coil rotating probe was used to inspect the tube in the region of the reported bobbin coil indication. The 3-coil rotating probe did not detect any degradation or other anomaly. These results, along with the results of laboratory studies which confirm the superior corrosion resistance of thermally treated Alloy 690 tubing vs. mill annealed Alloy 600 tubing, provide evidence that the bobbin coil indication was likely caused by either a conductive OD deposit or shallow wear of the tube at the tube-to-support contact point.

If the bobbin coil indication is due to a damage mechanism, the likely damage mechanism would be wear caused by the tube vibrating against the support structure during plant operation. The location of the indication is SG# 1, Row 140, Col 79 within the lowest lattice grid support (01H). This tube is located on the perimeter of the tube bundle in an area of relatively high secondary side flow. Since the wear mechanism progresses only during operation, additional tube wear would not have occurred during the 10-month period in which the plant had been shut down for an extended outage.

The possibility had previously been considered that the 22% indication would behave in a crack-like manner (Reference 1). Based upon this unlikely event, tube Row 140, Col 79 would remain within acceptable limits through the end of Cycle 13.

Request #5

- A full length bobbin probe examination of 2511 tubes in SG# 1 and 2380 tubes in SG# 2.
- A 3-coil rotating probe examination of one tube in SG# 1. This tube (Row 140, Col 79) was the only tube in the bobbin probe examination program to be identified as containing measurable degradation. The extent of the examination was from two inches above to two inches below the edges of the #1 lattice grid support.

Request #3

Provide a list of indications identified by eddy current, their location and the postulated degradation mechanism for the results of the steam generator tube inspections following Cycle 12 operation.

NU Response

The RFO 12 eddy current examination of the MP2 replacement SG tubes identified one indication of measurable degradation. The indication was in SG# 1, Row 140, Col 79 and was located within the lowest lattice grid tube support structure (01H, + 1.04"). If this low amplitude signal is, in fact, the result of tube degradation then the postulated mechanism would be mechanically-induced tube wear. (NNECO Response to Question #4 provides additional discussion on the postulated mechanism.)

In addition to the one reported indication of measurable degradation, indications of non-degradation conditions were also reported during the RFO 12 inspection. Table 1 provides a summary of the reported indications. Attachment 1 provides a list of the reported indications. Although the non-degradation conditions were not required to be reported (per Technical Specification Requirements), the MP2 SG Eddy Current Data Analysis Guidelines Manual required the analysts to report such indications. The types of indications reported included:

- Absolute Drift Signal (ADS)- An indication which produces positive drifting on the vertical component of an absolute channel.
- Bulge (BLG) - A signal caused by an expansion of the tube from the inside outward.
- Ding (DNG) - A signal caused by a reduction of the nominal tube diameter in the free span of the tube.
- Dent (DNT) - A signal caused by a reduction of the nominal tube diameter at tube support or top-of-tubesheet locations.
- Manufacturing Buff Marks (MBM) - A signal caused by polishing or grinding operations on the OD tube surface during the tubing manufacturing process.

The purpose of reporting indications of non-degradation conditions is to fully document the condition of the tubes. This will allow easier identification of future

Page 4 in Reference 1 states that "only 27 [tubes] has sludge indications." Does this statement refer to tube indications (degradation) or to indications from the eddy current signal that a sludge pile exists surrounding each of these 27 tubes?

NU Response

As part of the full length bobbin probe inspection program, the low frequency eddy current data was analyzed for sludge heights above both the hot and cold leg tubesheet. Of the 4891 tubes examined (9782 tube ends), only 27 tubes displayed measurable deposits on the OD tube surface. The remaining tubes were clean. No degradation was identified above the tubesheet in either the clean tubes or the tubes which displayed surface deposits.

Request #6

Provide a table listing the monthly average values of the steam generator blowdown control parameters referenced in EPRI "PWR Secondary Water Chemistry Guidelines" for power operation since the start of Cycle 12. Also provide the length of time that significant out-of-specification secondary water chemistry conditions (e.g., Action Levels 2 and 3) existed in the replacement steam generators.

NU Response

The monthly average values of the steam generator blowdown control parameters for power (>30%) operation since the start of Cycle 12 are attached as Tables 2 through 5.

Review of Cycle 12 chemistry revealed that there were no significant SG blowdown water chemistry conditions (i.e., Action Levels 2 or 3) that were out of specification. A review of the Cycle 13 chemistry revealed that MP2 has not entered into Action Levels 2 or 3 for any SG blowdown chemistry parameter to date.

Table 1
Summary of Indications Reported - MP2 RFO 12
Steam Generator Examinations

Indication	SG# 1	SG# 2	Total
20-29%	1	0	1
>=30%	0	0	0
ADS	19	20	39
BLG	2	1	3
DNG	180	101	281
DNT	6	7	13
MBM	16	50	66

Table 2 Millstone Unit 2 SG#1 Blowdown Sample Monthly Chemistry Averages- Cycle 12 (>30% power)				
Yr./Month[1]	Cat. Cond., µS/cm	Sodium, ppb	Chloride, ppb	Sulfate, ppb
1993				
Jan.	0.31	5.24	3.13	7.36
Feb.	0.16	3.95	3.72	3.68
Mar.	0.16	1.16	4.34	3.3
Apr.	0.136	0.9	2.8	2.9
May	0.285	0.8	2.3	2.6
Jun.	0.225	0.5	3.2	3.5
Jul.	0.247	0.4	2.3	1.3
Aug.	0.339	0.4	2.6	2.1
Sept.	0.25	0.7	2.8	1.8
Oct.	0.33	0.5	2.5	3.2
Nov.	0.3	0.7	3.2	3.4
Dec.	0.34	2.8	4.4	4.5
1994				
Jan.	0.26	1.6	4.2	4
Feb.	0.19	1.9	2.4	2.4
Mar.	0.18	0.8	1.6	1.7
Apr.	0.15	0.83	1.04	0.8
May	SD	SD	SD	SD
Jun.	0.27	1.33	0.72	1.11
Jul.	0.18	1.43	1.16	0.94
Aug.	SD	SD	SD	SD
Sept.[2]	0.28	0.93	1.39	0.83

Notes: 1) Cycle 12 startup 1/13/93
2) Unit shut down 10/1/94
3) "SD" is shut down

Table 3 Millstone Unit 2 SG#2 Blowdown Sample Monthly Chemistry Averages- Cycle 12 (>30% power)				
Yr./Month[1]	Cat. Cond., µS/cm	Sodium, ppb	Chloride, ppb	Sulfate, ppb
1993				
Jan.	0.368	7.37	4.01	14.05
Feb.	0.177	3.47	4.16	4.59
Mar.	0.181	1.77	5.31	4.18
Apr.	0.143	0.9	2.9	2.3
May	0.271	0.9	2.6	1.7
Jun.	0.291	0.6	3.5	1.7
Jul.	0.274	0.4	2.5	1.5
Aug.	0.413	0.6	3.4	2.7
Sept.	0.35	1.3	4.4	3
Oct.	0.37	0.6	3.2	4
Nov.	0.36	0.9	3.7	4.3
Dec.	0.41	3.5	6.1	6.3
1994				
Jan.	0.28	1.9	5	5
Feb.	0.2	2.3	2.9	3.1
Mar.	0.2	1	2.1	2.5
Apr.	0.16	1.02	1.2	0.94
May	SD	SD	SD	SD
Jun.	0.36	2.17	1.5	1.87
Jul.	0.2	1.86	1.37	1.45
Aug.	SD	SD	SD	SD
Sept.[2]	0.35	1.24	1.85	1.34

Notes: 1) Cycle 12 startup 1/13/93
2) Unit shut down 10/1/94
3) "SD" is shut down

Table 4
Millstone Unit 2
SG#1 Blowdown Sample Monthly Chemistry Averages- Cycle 13 (to date)
(>30% power)

Yr./Month[1]	Cat. Cond., µS/cm	Sodium, ppb	Chloride, ppb	Sulfate, ppb
1995				
Aug.	0.8	4.53	2.22	9.63
Sept.	0.45	2.7	3.83	5.63
Oct.	0.43	1.34	4.28	7.16
Nov.	0.41	1.21	4.35	9.27
Dec.	0.21	0.53	0.61	1.27
1996				
Jan.	N/A	N/A	N/A	N/A

Note(s): 1) Cycle 13 startup 8/4/95
2) N/A is not available at the time of the writing.

Table 5
Millstone Unit 2
SG#2 Blowdown Sample Monthly Chemistry Averages- Cycle 13 (to date)
(>30% power)

Yr./Month[1]	Cat. Cond., µS/cm	Sodium, ppb	Chloride, ppb	Sulfate, ppb
1995				
Aug.	0.8	5.23	2.24	11.25
Sept.	0.45	2.68	3.86	5.93
Oct.	0.46	1.47	4.46	7.64
Nov.	0.42	1.17	4.48	10.25
Dec.	0.2	0.47	0.54	0.99
1996				
Jan.	N/A	N/A	N/A	N/A

Note(s): 1) Cycle 13 startup 8/4/95
2) N/A is not available at the time of the writing.

Attachment 1

Summary of Bobbin Coil Indications
MP2 Steam Generator Examination - RFO 12

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
1	1	H	140	79	0.31	22	01H	1.04	TSCTSH	95	001B	600BOB	4TW	125	P 1	94-1
2	1	H	24	161	3.09	.	04H	2.20	TSCTSH	79	006B	600BOB	ADS	.	6	94-1
3	1	H	25	6	4.60	.	05C	23.17	TSCTSH	05	001A	600BOB	ADS	.	6	94-1
4	1	H	37	150	0.82	.	02H	10.46	TSCTSH	83	007A	600BOB	ADS	.	6	94-1
5	1	H	37	152	1.39	.	04H	3.64	TSCTSH	83	007A	600BOB	ADS	.	6	94-1
6	1	H	37	158	1.47	.	04H	17.12	TSCTSH	83	007A	600BOB	ADS	.	6	94-1
7	1	H	45	86	1.05	.	07H	0.10	TSCTSH	61	006A	600BOB	ADS	.	4	94-1
8	1	H	46	41	1.56	.	06H	18.79	TSCTSH	31	001B	600BOB	ADS	.	6	94-1
9	1	H	69	58	2.46	.	05C	10.38	TSCTSH	45	004A	600BOB	ADS	.	6	94-1
10	1	H	74	105	0.93	.	06H	18.00	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
11	1	H	74	105	3.01	.	F03	2.57	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
12	1	H	74	105	1.36	.	05C	4.11	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
13	1	H	78	33	3.82	.	F02	2.91	TSCTSH	25	002B	600BOB	ADS	.	6	94-1
14	1	H	82	95	3.34	.	F08	.	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
15	1	H	85	108	1.40	.	01H	29.39	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
16	1	H	86	71	1.75	.	06C	4.70	TSCTSH	39	001B	600BOB	ADS	.	6	94-1
17	1	H	92	103	3.39	.	06C	20.63	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
18	1	H	96	107	2.55	.	01H	11.18	TSCTSH	67	005A	600BOB	ADS	.	6	94-1
19	1	H	103	108	2.50	.	F04	-8.13	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
20	1	H	122	107	1.75	.	07H	7.79	TSCTSH	69	006A	600BOB	ADS	.	4	94-1
21	1	H	79	144	8.08	.	07H	1.64	TSCTSH	79	006B	600BOB	BLG	357	P 1	94-1
22	1	H	91	90	6.56	.	07H	1.62	TSCTSH	69	006A	600BOB	BLG	357	P 1	94-1
23	1	H	20	41	5.29	.	F05	8.09	TSCTSH	31	001B	600BOB	DNG	184	P 1	94-1
24	1	H	20	57	7.31	.	F05	7.33	TSCTSH	35	001B	600BOB	DNG	181	P 1	94-1
25	1	H	20	61	7.67	.	F05	7.26	TSCTSH	43	001B	600BOB	DNG	175	P 1	94-1
26	1	H	20	63	6.71	.	F07	4.76	TSCTSH	41	004A	600BOB	DNG	171	P 1	94-1
27	1	H	20	117	9.82	.	F07	8.51	TSCTSH	61	006A	600BOB	DNG	175	P 1	94-1
28	1	H	20	131	7.47	.	F05	4.92	TSCTSH	75	005A	600BOB	DNG	177	P 1	94-1
29	1	H	20	147	8.18	.	F05	3.90	TSCTSH	77	006B	600BOB	DNG	174	P 1	94-1
30	1	H	20	161	7.43	.	F05	5.34	TSCTSH	79	006B	600BOB	DNG	174	P 1	94-1
31	1	H	21	32	6.13	.	F05	8.02	TSCTSH	27	001B	600BOB	DNG	180	P 1	94-1
32	1	H	21	36	6.03	.	F05	8.16	TSCTSH	27	001B	600BOB	DNG	180	P 1	94-1
33	1	H	21	38	6.81	.	F05	8.36	TSCTSH	31	001B	600BOB	DNG	184	P 1	94-1
34	1	H	21	42	5.64	.	F05	8.10	TSCTSH	33	002B	600BOB	DNG	176	P 1	94-1
35	1	H	21	46	7.82	.	F05	7.14	TSCTSH	43	001B	600BOB	DNG	176	P 1	94-1
36	1	H	21	48	5.71	.	F05	7.36	TSCTSH	43	001B	600BOB	DNG	175	P 1	94-1
37	1	H	21	50	7.78	.	F05	6.87	TSCTSH	43	001B	600BOB	DNG	176	P 1	94-1
38	1	H	21	52	7.26	.	F05	7.43	TSCTSH	43	001B	600BOB	DNG	176	P 1	94-1
39	1	H	21	54	6.97	.	F05	7.37	TSCTSH	43	001B	600BOB	DNG	176	P 1	94-1
40	1	H	21	56	7.86	.	F05	6.67	TSCTSH	33	002B	600BOB	DNG	179	P 1	94-1
41	1	H	21	58	5.59	.	F05	6.97	TSCTSH	43	001B	600BOB	DNG	176	P 1	94-1
42	1	H	21	60	6.43	.	F05	3.61	TSCTSH	95	005B	600BOB	DNG	175	P 1	94-1
43	1	H	21	62	7.18	.	F05	6.15	TSCTSH	41	004A	600BOB	DNG	177	P 1	94-1
44	1	H	21	64	8.65	.	F05	7.06	TSCTSH	41	004A	600BOB	DNG	174	P 1	94-1
45	1	H	21	104	7.90	.	F05	4.56	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1
46	1	H	21	106	7.87	.	F05	4.13	TSCTSH	61	006A	600BOB	DNG	175	P 1	94-1
47	1	H	21	108	7.65	.	F05	4.30	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1
48	1	H	21	110	7.30	.	F05	4.57	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1
49	1	H	21	112	7.66	.	F05	3.66	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1
50	1	H	21	114	7.61	.	F05	4.64	TSCTSH	61	006A	600BOB	DNG	175	P 1	94-1
51	1	H	21	116	10.40	.	F01	7.67	TSCTSH	63	002B	600BOB	DNG	173	P 1	94-1
52	1	H	21	118	7.90	.	F05	4.99	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1
53	1	H	21	120	9.18	.	F05	4.70	TSCTSH	61	006A	600BOB	DNG	175	P 1	94-1
54	1	H	21	122	8.07	.	F05	4.78	TSCTSH	61	006A	600BOB	DNG	175	P 1	94-1
55	1	H	21	124	8.21	.	F05	3.62	TSCTSH	61	006A	600BOB	DNG	174	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
56	1	H	21	126	8.19	.	F05	4.01	TECTEH	85	005B	600BOB	DNG	185	P 1	94-1
57	1	H	21	140	6.94	.	F05	4.01	TECTEH	85	005B	600BOB	DNG	185	P 1	94-1
58	1	H	21	142	7.81	.	F07	10.16	TECTEH	85	005B	600BOB	DNG	185	P 1	94-1
59	1	H	21	146	8.23	.	F05	3.40	TECTEH	79	006B	600BOB	DNG	173	P 1	94-1
60	1	H	21	160	7.14	.	F05	5.48	TECTEH	85	005B	600BOB	DNG	186	P 1	94-1
61	1	H	21	166	7.82	.	F05	3.26	TECTEH	85	005B	600BOB	DNG	185	P 1	94-1
62	1	H	22	11	5.70	.	F01	9.20	TECTEH	09	001A	600BOB	DNG	176	P 1	94-1
63	1	H	22	33	6.13	.	F05	8.29	TECTEH	27	001B	600BOB	DNG	180	P 1	94-1
64	1	H	22	39	5.36	.	F05	8.52	TECTEH	29	002B	600BOB	DNG	178	P 1	94-1
65	1	H	22	39	5.34	.	F07	12.39	TECTEH	29	002B	600BOB	DNG	175	P 1	94-1
66	1	H	22	43	6.16	.	F05	7.49	TECTEH	43	001B	600BOB	DNG	176	P 1	94-1
67	1	H	22	47	6.46	.	F05	6.87	TECTEH	43	001B	600BOB	DNG	175	P 1	94-1
68	1	H	22	49	6.38	.	F05	7.04	TECTEH	43	001B	600BOB	DNG	175	P 1	94-1
69	1	H	22	51	7.54	.	F05	6.32	TECTEH	43	001B	600BOB	DNG	176	P 1	94-1
70	1	H	22	53	6.44	.	F05	6.89	TECTEH	43	001B	600BOB	DNG	176	P 1	94-1
71	1	H	22	55	6.00	.	F05	7.28	TECTEH	43	001B	600BOB	DNG	176	P 1	94-1
72	1	H	22	57	6.01	.	F05	6.53	TECTEH	33	002B	600BOB	DNG	178	P 1	94-1
73	1	H	22	59	5.90	.	F05	5.78	TECTEH	41	004A	600BOB	DNG	176	P 1	94-1
74	1	H	22	63	5.62	.	F05	6.37	TECTEH	41	004A	600BOB	DNG	175	P 1	94-1
75	1	H	22	65	8.16	.	F05	6.38	TECTEH	41	004A	600BOB	DNG	175	P 1	94-1
76	1	H	22	103	8.84	.	F01	8.08	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
77	1	H	22	105	7.03	.	F01	7.81	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
78	1	H	22	107	6.04	.	F05	5.39	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
79	1	H	22	109	8.48	.	F05	3.77	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
80	1	H	22	111	7.03	.	F05	2.54	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
81	1	H	22	113	6.13	.	F05	3.94	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
82	1	H	22	115	7.50	.	F05	2.97	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
83	1	H	22	117	9.53	.	F01	7.33	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
84	1	H	22	119	7.97	.	F05	3.26	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
85	1	H	22	121	9.01	.	F05	3.42	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
86	1	H	22	123	7.74	.	F05	3.23	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
87	1	H	22	125	6.84	.	F05	3.39	TECTEH	61	006A	600BOB	DNG	174	P 1	94-1
88	1	H	22	127	7.05	.	F05	2.42	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
89	1	H	22	129	6.63	.	F05	1.92	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
90	1	H	22	131	6.50	.	F05	1.89	TECTEH	75	005A	600BOB	DNG	177	P 1	94-1
91	1	H	22	133	6.29	.	F05	1.44	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
92	1	H	22	135	6.62	.	F05	1.75	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
93	1	H	22	137	7.19	.	F05	1.46	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
94	1	H	22	139	5.78	.	F05	2.25	TECTEH	83	007A	600BOB	DNG	173	P 1	94-1
95	1	H	22	141	7.14	.	F05	1.80	TECTEH	83	007A	600BOB	DNG	173	P 1	94-1
96	1	H	22	143	6.14	.	F05	1.31	TECTEH	83	007A	600BOB	DNG	173	P 1	94-1
97	1	H	22	145	6.57	.	F05	1.65	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
98	1	H	22	147	5.36	.	F05	1.84	TECTEH	77	006B	600BOB	DNG	175	P 1	94-1
99	1	H	22	149	5.18	.	F05	2.74	TECTEH	83	007A	600BOB	DNG	172	P 1	94-1
100	1	H	22	151	6.61	.	F05	1.59	TECTEH	83	007A	600BOB	DNG	171	P 1	94-1
101	1	H	22	153	7.75	.	F05	2.14	TECTEH	83	007A	600BOB	DNG	173	P 1	94-1
102	1	H	22	155	6.33	.	F05	2.94	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
103	1	H	22	157	6.94	.	F05	2.69	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
104	1	H	22	159	5.39	.	F05	2.38	TECTEH	83	007A	600BOB	DNG	173	P 1	94-1
105	1	H	22	161	7.07	.	F05	2.31	TECTEH	79	006B	600BOB	DNG	184	P 1	94-1
106	1	H	22	163	7.18	.	F05	1.72	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
107	1	H	22	165	5.99	.	F05	1.81	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
108	1	H	23	34	5.10	.	F05	6.64	TECTEH	27	001B	600BOB	DNG	177	P 1	94-1
109	1	H	23	56	5.61	.	F05	7.98	TECTEH	35	001B	600BOB	DNG	180	P 1	94-1
110	1	H	23	102	8.01	.	F01	7.48	TECTEH	59	003B	600BOB	DNG	176	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
111	1	H	23	116	7.80	.	F01	7.10	TECTEH	63	003B	600BOB	DNG	173	P 1	94-1
112	1	H	23	146	6.21	.	F05	3.75	TECTEH	75	005A	600BOB	DNG	185	1	94-1
113	1	H	24	41	5.42	.	F07	14.20	TECTEH	31	001B	600BOB	DNG	181	P 1	94-1
114	1	H	24	101	6.24	.	F01	3.41	TECTEH	59	003B	600BOB	DNG	175	P 1	94-1
115	1	H	24	117	8.18	.	F01	6.02	TECTEH	61	006A	600BOB	DNG	178	P 1	94-1
116	1	H	24	147	5.98	.	F01	5.03	TECTEH	77	006B	600BOB	DNG	175	P 1	94-1
117	1	H	25	56	5.42	.	F05	5.61	TECTEH	33	002B	600BOB	DNG	179	P 1	94-1
118	1	H	25	102	10.37	.	F01	5.72	TECTEH	57	004B	600BOB	DNG	177	P 1	94-1
119	1	H	25	112	5.45	.	F05	1.85	TECTEH	61	006A	600BOB	DNG	173	P 1	94-1
120	1	H	25	116	6.92	.	F01	6.20	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
121	1	H	26	11	6.06	.	F01	7.85	TECTEH	09	001A	600BOB	DNG	178	P 1	94-1
122	1	H	26	41	9.05	.	F01	7.33	TECTEH	29	002B	600BOB	DNG	177	P 1	94-1
123	1	H	26	101	6.00	.	F01	7.20	TECTEH	59	003B	600BOB	DNG	177	P 1	94-1
124	1	H	26	117	7.01	.	F01	6.87	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
125	1	H	26	147	6.38	.	F05	2.30	TECTEH	77	006B	600BOB	DNG	175	P 1	94-1
126	1	H	26	161	6.88	.	F01	7.33	TECTEH	79	006B	600BOB	DNG	175	P 1	94-1
127	1	H	26	165	6.16	.	F01	6.70	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
128	1	H	27	12	5.19	.	F01	7.32	TECTEH	09	001A	600BOB	DNG	178	P 1	94-1
129	1	H	27	34	5.70	.	F05	5.90	TECTEH	27	001B	600BOB	DNG	178	P 1	94-1
130	1	H	27	42	5.21	.	F05	6.78	TECTEH	35	001B	600BOB	DNG	181	P 1	94-1
131	1	H	27	56	5.34	.	F05	7.65	TECTEH	35	001B	600BOB	DNG	181	P 1	94-1
132	1	H	27	102	7.35	.	F01	6.35	TECTEH	57	004B	600BOB	DNG	175	P 1	94-1
133	1	H	27	116	7.02	.	F01	6.41	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
134	1	H	28	33	5.95	.	F01	8.21	TECTEH	27	001B	600BOB	DNG	180	P 1	94-1
135	1	H	28	41	5.95	.	F07	17.22	TECTEH	31	001B	600BOB	DNG	182	P 1	94-1
136	1	H	28	57	5.96	.	F05	6.81	TECTEH	35	001B	600BOB	DNG	181	P 1	94-1
137	1	H	28	101	6.06	.	F01	7.28	TECTEH	59	003B	600BOB	DNG	176	P 1	94-1
138	1	H	28	107	6.54	.	F01	6.38	TECTEH	61	006A	600BOB	DNG	176	P 1	94-1
139	1	H	28	117	5.24	.	F01	7.00	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
140	1	H	28	161	6.86	.	F05	1.01	TECTEH	79	006B	600BOB	DNG	175	P 1	94-1
141	1	H	28	165	6.60	.	F05	0.91	TECTEH	85	005B	600BOB	DNG	185	P 1	94-1
142	1	H	29	102	6.83	.	F01	6.78	TECTEH	57	004B	600BOB	DNG	173	P 1	94-1
143	1	H	29	116	6.31	.	F01	5.94	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
144	1	H	29	164	5.67	.	F01	6.50	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
145	1	H	30	41	6.96	.	F01	8.03	TECTEH	29	002B	600BOB	DNG	177	P 1	94-1
146	1	H	30	101	6.37	.	F01	5.99	TECTEH	57	004B	600BOB	DNG	173	P 1	94-1
147	1	H	31	102	6.95	.	F01	5.63	TECTEH	57	004B	600BOB	DNG	173	P 1	94-1
148	1	H	31	116	6.85	.	F01	6.11	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
149	1	H	31	162	5.60	.	F01	5.86	TECTEH	81	005B	600BOB	DNG	177	P 1	94-1
150	1	H	31	164	6.65	.	F01	6.23	TECTEH	83	007A	600BOB	DNG	175	P 1	94-1
151	1	H	32	101	7.51	.	F05	6.04	TECTEH	57	004B	600BOB	DNG	174	P 1	94-1
152	1	H	32	131	5.74	.	F01	7.61	TECTEH	75	005A	600BOB	DNG	178	P 1	94-1
153	1	H	32	147	6.04	.	F01	6.36	TECTEH	77	006B	600BOB	DNG	174	P 1	94-1
154	1	H	32	161	6.38	.	F01	6.28	TECTEH	79	006B	600BOB	DNG	175	P 1	94-1
155	1	H	32	165	5.31	.	F04	5.61	TECTEH	85	005B	600BOB	DNG	186	P 1	94-1
156	1	H	33	102	5.39	.	F04	5.93	TECTEH	59	003B	600BOB	DNG	178	P 1	94-1
157	1	H	33	116	5.72	.	F04	5.62	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
158	1	H	33	162	5.09	.	F04	3.61	TECTEH	81	005B	600BOB	DNG	178	P 1	94-1
159	1	H	33	164	6.05	.	F04	6.23	TECTEH	83	007A	600BOB	DNG	175	P 1	94-1
160	1	H	34	101	5.17	.	07H	16.14	TECTEH	57	004B	600BOB	DNG	172	P 1	94-1
161	1	H	34	161	6.03	.	F04	4.12	TECTEH	79	006B	600BOB	DNG	174	P 1	94-1
162	1	H	35	34	5.45	.	F04	6.63	TECTEH	27	001B	600BOB	DNG	178	P 1	94-1
163	1	H	35	36	5.43	.	F04	6.54	TECTEH	27	001B	600BOB	DNG	178	P 1	94-1
164	1	H	35	42	5.20	.	F04	7.75	TECTEH	33	002B	600BOB	DNG	179	P 1	94-1
165	1	H	36	33	5.88	.	F04	5.95	TECTEH	27	001B	600BOB	DNG	179	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
166	1	H	36	39	6.58	.	F04	7.76	TECTEH	29	002B	600BOB	DNG	179	P 1	94-1
167	1	H	36	41	6.37	.	F04	7.18	TECTEH	29	002B	600BOB	DNG	177	P 1	94-1
168	1	H	36	47	5.62	.	F04	7.51	TECTEH	43	001B	600BOB	DNG	175	P 1	94-1
169	1	H	36	55	5.79	.	F04	8.27	TECTEH	47	003A	600BOB	DNG	176	P 1	94-1
170	1	H	36	65	5.37	.	F04	7.10	TECTEH	47	003A	600BOB	DNG	177	P 1	94 1
171	1	H	36	75	6.02	.	F04	8.50	TECTEH	47	003A	600BOB	DNG	176	P 1	94-1
172	1	H	36	77	5.29	.	F04	6.80	TECTEH	47	003A	600BOB	DNG	176	P 1	94-
173	1	H	36	161	6.20	.	F04	3.12	TECTEH	79	006B	600BOB	DNG	177	P 1	94-1
174	1	H	37	32	5.32	.	F04	6.11	TECTEH	27	001B	600BOB	DNG	179	P 1	94-1
175	1	H	37	42	7.25	.	F04	7.51	TECTEH	35	001B	600BOB	DNG	180	P 1	94-1
176	1	H	37	130	5.61	.	F04	3.02	TECTEH	83	007A	600BOB	DNG	174	P 1	94-1
177	1	H	38	117	5.25	.	F04	6.36	TECTEH	61	006A	600BOB	DNG	175	P 1	94-1
178	1	H	38	161	6.03	.	F04	2.76	TECTEH	79	006B	600BOB	DNG	177	P 1	94-1
179	1	H	39	12	5.10	.	F01	6.65	TECTEH	09	001A	600BOB	DNG	178	P 1	94-1
180	1	H	39	56	5.43	.	F04	5.93	TECTEH	35	001B	600BOB	DNG	182	P 1	94-1
181	1	H	39	102	5.45	.	F01	4.79	TECTEH	59	003B	600BOB	DNG	179	P 1	94-1
182	1	H	39	162	5.35	.	F04	.	TECTEH	81	005B	600BOB	DNG	181	P 1	94-1
183	1	H	39	164	5.26	.	F04	5.51	TECTEH	85	005B	600BOB	DNG	187	P 1	94-1
184	1	H	40	161	5.58	.	F01	5.28	TECTEH	79	006B	600BOB	DNG	175	P 1	94-1
185	1	H	40	163	5.24	.	F04	4.66	TECTEH	83	007A	600BOB	DNG	175	P 1	94-1
186	1	H	41	116	5.46	.	F01	5.37	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
187	1	H	42	41	5.63	.	F01	6.35	TECTEH	31	001B	600BOB	DNG	175	P 1	94-1
188	1	H	43	102	6.47	.	F01	5.08	TECTEH	59	003B	600BOB	DNG	179	P 1	94-1
189	1	H	43	116	7.29	.	F01	4.89	TECTEH	63	003B	600BOB	DNG	174	P 1	94-1
190	1	H	44	57	5.57	.	F01	5.92	TECTEH	35	001B	600BOB	DNG	180	P 1	94-1
191	1	H	45	102	6.29	.	F01	4.27	TECTEH	59	003B	600BOB	DNG	181	P 1	94-1
192	1	H	45	116	5.98	.	F01	4.57	TECTEH	63	003B	600BOB	DNG	174	P 1	94-1
193	1	H	47	116	5.80	.	F01	4.35	TECTEH	63	003B	600BOB	DNG	175	P 1	94-1
194	1	H	49	86	5.31	.	F01	4.61	TECTEH	55	003B	600BOB	DNG	183	P 1	94-1
195	1	H	49	116	5.93	.	F01	4.04	TECTEH	63	003B	600BOB	DNG	174	P 1	94-1
196	1	H	51	86	5.21	.	F01	5.75	TECTEH	55	003B	600BOB	DNG	182	P 1	94-1
197	1	H	51	102	5.47	.	F01	5.65	TECTEH	59	003B	600BOB	DNG	181	P 1	94-1
198	1	H	57	158	7.38	.	F06	5.73	TECTEH	79	006B	600BOB	DNG	177	P 1	94-1
199	1	H	61	102	5.36	.	F03	3.89	TECTEH	59	003B	600BOB	DNG	183	P 1	94-1
200	1	H	69	72	6.14	.	04C	28.02	TECTEH	39	001B	600BOB	DNG	174	P 1	94-1
201	1	H	114	99	6.22	.	02H	33.90	TECTEH	69	006A	600BOB	DNG	177	P 1	94-1
202	1	H	136	63	6.85	.	F02	3.80	TECTEH	53	004B	600BOB	DNG	175	P 1	94-1
203	1	H	25	64	9.98	.	F06	0.51	TECTEH	41	004A	600BOB	DNT	171	P 1	94-1
204	1	H	37	108	6.48	.	F06	0.19	TECTEH	61	006A	600BOB	DNT	174	P 1	94-1
205	1	H	49	106	5.88	.	07C	-1.00	TECTEH	71	005A	600BOB	DNT	175	P 1	94-1
206	1	H	52	115	5.01	.	07C	-1.00	TECTEH	71	005A	600BOB	DNT	174	P 1	94-1
207	1	H	60	113	6.73	.	07C	1.00	TECTEH	71	005A	600BOB	DNT	176	P 1	94-1
208	1	H	129	52	5.07	.	07C	1.65	TECTEH	49	004A	600BOB	DNT	173	P 1	94-1
209	1	H	25	26	0.29	.	01H	14.26	TECTEH	19	002A	600BOB	MBM	34	1	94-1
210	1	H	39	146	0.28	.	F08	2.94	TECTEH	75	005A	600BOB	MBM	162	1	94-1
211	1	H	66	101	0.26	.	05C	36.23	TECTEH	57	004B	600BOB	MBM	37	1	94-1
212	1	H	73	48	0.25	.	F10	0.09	TECTEH	45	004A	600BOB	MBM	114	1	94-1
213	1	H	74	27	0.60	.	02H	-1.64	TECTEH	21	001A	600BOB	MBM	137	1	94-1
214	1	H	79	116	0.39	.	F03	5.56	TECTEH	57	004B	600BOB	MBM	163	1	94-1
215	1	H	94	145	0.19	.	05H	2.81	TECTEH	81	005B	600BOB	MBM	105	1	94-1
216	1	H	98	73	0.47	.	06H	40.02	TECTEH	49	004A	600BOB	MBM	78	1	94-1
217	1	H	101	86	0.90	.	05C	19.53	TECTEH	55	003B	600BOB	MBM	149	1	94-1
218	1	H	105	54	0.86	.	F06	14.63	TECTEH	49	004A	600BOB	MBM	32	1	94-1
219	1	H	111	64	0.41	.	03C	23.24	TECTEH	51	003A	600BOB	MBM	143	1	94-1
220	1	H	112	37	0.55	.	02H	1.21	TECTEH	29	002B	600BOB	MBM	32	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
221	1	H	118	57	0.16	.	04H	13.61	TECTEH	35	001B	600BOB	MBM	95	1	94-1
222	1	H	121	126	0.84	.	05C	3.46	TECTEH	79	006B	600BOB	MBM	163	1	94-1
223	1	H	130	53	0.22	.	F03	2.74	TECTEH	51	003A	600BOB	MBM	35	1	94-1
224	1	H	139	78	0.22	.	02C	25.37	TECTEH	53	004B	600BOB	MBM	90	1	94-1
225	2	H	1	160	0.79	.	03H	30.38	TECTEH	063	007A	600BOB	ADS	.	6	94-1
226	2	H	1	160	0.72	.	04H	14.02	TECTEH	063	007A	600BOB	ADS	.	6	94-1
227	2	H	6	131	1.31	.	05C	3.78	TECTEH	063	007A	600BOB	ADS	.	6	94-1
228	2	H	10	139	5.00	.	03H	0.90	TECTEH	057	006A	600BOB	ADS	.	4	94-1
229	2	H	21	132	0.70	.	01C	3.41	TECTEH	051	004B	600BOB	ADS	.	6	94-1
230	2	H	31	154	2.22	.	04H	0.54	TECTEH	057	006A	600BOB	ADS	.	4	94-1
231	2	H	34	65	1.97	.	F06	.	TECTEH	033	003B	600BOB	ADS	.	4	94-1
232	2	H	44	9	0.51	.	02H	6.81	TECTEH	001	001A	600BOB	ADS	.	6	94-1
233	2	H	47	6	4.27	.	02C	26.80	TECTEH	011	002A	600BOB	ADS	.	6	94-1
234	2	H	49	104	1.21	.	01H	18.44	TECTEH	045	005B	600BOB	ADS	.	6	94-1
235	2	H	67	100	0.45	.	F09	11.20	TECTEH	047	004B	600BOB	ADS	.	6	94-1
236	2	H	72	23	0.52	.	01C	17.94	TECTEH	013	001B	600BOB	ADS	.	4	94-1
237	2	H	75	36	1.61	.	F08	1.77	TECTEH	013	001B	600BOB	ADS	.	4	94-1
238	2	H	78	53	2.20	.	06H	11.74	TECTEH	031	002B	600BOB	ADS	.	6	94-1
239	2	H	86	77	1.03	.	T8C	15.07	TECTEH	029	003B	600BOB	ADS	.	6	94-1
240	2	H	94	131	1.69	.	04C	1.99	TECTEH	069	005B	600BOB	ADS	.	6	94-1
241	2	H	105	92	0.21	.	03C	31.53	TECTEH	047	004B	600BOB	ADS	.	6	94-1
242	2	H	121	110	1.48	.	F05	7.52	TECTEH	041	005A	600BOB	ADS	.	6	94-1
243	2	H	127	58	0.47	.	F05	11.75	TECTEH	027	002B	600BOB	ADS	.	6	94-1
244	2	H	135	88	1.03	.	06C	36.93	TECTEH	041	005A	600BOB	ADS	.	4	94-1
245	2	H	80	31	6.50	.	07H	.	TECTEH	013	001B	600BOB	BLG	2	P 1	94-1
246	2	H	1	116	6.98	.	03H	34.80	TECTEH	063	007A	600BOB	DNG	179	P 1	94-1
247	2	H	1	116	6.31	.	04H	32.70	TECTEH	063	007A	600BOB	DNG	178	P 1	94-1
248	2	H	20	41	7.08	.	F05	5.69	TECTEH	019	002A	600BOB	DNG	177	P 1	94-1
249	2	H	20	147	8.40	.	F05	4.03	TECTEH	051	004B	600BOB	DNG	179	P 1	94-1
250	2	H	21	8	6.83	.	F05	5.26	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
251	2	H	21	10	7.57	.	F05	2.45	TECTEH	005	001A	600BOB	DNG	176	P 1	94-1
252	2	H	21	16	5.74	.	F05	6.81	TECTEH	011	002A	600BOB	DNG	177	P 1	94-1
253	2	H	21	18	6.48	.	F05	5.43	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
254	2	H	21	20	6.93	.	F05	4.96	TECTEH	011	002A	600BOB	DNG	179	P 1	94-1
255	2	H	21	22	6.08	.	F05	5.56	TECTEH	011	002A	600BOB	DNG	180	P 1	94-1
256	2	H	21	28	7.56	.	F05	5.40	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
257	2	H	21	30	6.47	.	F05	5.35	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
258	2	H	21	32	5.92	.	F05	3.51	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
259	2	H	21	34	6.51	.	F05	5.69	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
260	2	H	21	36	7.96	.	F05	5.92	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
261	2	H	21	40	6.64	.	F05	6.02	TECTEH	011	002A	600BOB	DNG	179	P 1	94-1
262	2	H	21	44	6.24	.	F05	5.29	TECTEH	035	004A	600BOB	DNG	177	P 1	94-1
263	2	H	21	46	7.35	.	F05	5.44	TECTEH	035	004A	600BOB	DNG	178	P 1	94-1
264	2	H	21	48	5.96	.	F05	5.42	TECTEH	035	004A	600BOB	DNG	178	P 1	94-1
265	2	H	21	50	6.73	.	F05	5.04	TECTEH	035	004A	600BOB	DNG	178	P 1	94-1
266	2	H	21	52	6.22	.	F05	5.83	TECTEH	035	004A	600BOB	DNG	178	P 1	94-1
267	2	H	21	54	7.50	.	F05	3.43	TECTEH	035	004A	600BOB	DNG	179	P 1	94-1
268	2	H	21	56	6.35	.	F05	2.57	TECTEH	023	002B	600BOB	DNG	186	P 1	94-1
269	2	H	21	58	7.84	.	F05	4.35	TECTEH	035	004A	600BOB	DNG	178	P 1	94-1
270	2	H	21	104	7.69	.	F05	2.82	TECTEH	051	004B	600BOB	DNG	181	P 1	94-1
271	2	H	21	110	9.48	.	F05	2.00	TECTEH	051	004B	600BOB	DNG	178	P 1	94-1
272	2	H	21	112	9.04	.	F05	3.31	TECTEH	051	004B	600BOB	DNG	178	P 1	94-1
273	2	H	21	114	9.63	.	F05	3.42	TECTEH	051	004B	600BOB	DNG	177	P 1	94-1
274	2	H	21	116	8.71	.	F05	3.39	TECTEH	041	005A	600BOB	DNG	177	P 1	94-1
275	2	H	21	118	8.21	.	F05	2.56	TECTEH	051	004B	600BOB	DNG	177	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
276	2	H	21	120	10.57	.	F05	3.53	TECTEH	051	004B	600BOB	DNG	180	P 1	94-1
277	2	H	21	122	7.28	.	F05	3.57	TECTEH	051	004B	600BOB	DNG	181	P 1	94-1
278	2	H	21	124	10.37	.	F05	2.99	TECTEH	051	004B	600BOB	DNG	180	P 1	94-1
279	2	H	21	134	8.49	.	F05	5.00	TECTEH	059	007A	600BOB	DNG	175	P 1	94-1
280	2	H	21	136	8.29	.	F05	4.73	TECTEH	059	007A	600BOB	DNG	174	P 1	94-1
281	2	H	21	148	7.48	.	F05	5.05	TECTEH	059	007A	600BOB	DNG	177	P 1	94-1
282	2	H	21	150	7.14	.	F07	9.63	TECTEH	059	007A	600BOB	DNG	175	P 1	94-1
283	2	H	21	152	6.18	.	F05	4.53	TECTEH	059	007A	600BOB	DNG	176	P 1	94-1
284	2	H	21	154	5.74	.	F05	4.97	TECTEH	059	007A	600BOB	DNG	177	P 1	94-1
285	2	H	21	156	6.82	.	F05	5.46	TECTEH	059	007A	600BOB	DNG	177	P 1	94-1
286	2	H	21	162	6.77	.	F05	5.24	TECTEH	059	007A	600BOB	DNG	176	P 1	94-1
287	2	H	21	164	5.27	.	F05	2.99	TECTEH	059	007A	600BOB	DNG	173	P 1	94-1
288	2	H	21	166	6.65	.	F05	5.47	TECTEH	059	007A	600BOB	DNG	175	P 1	94-1
289	2	H	22	9	5.32	.	F05	0.67	TECTEH	003	002A	600BOB	DNG	180	P 1	94-1
290	2	H	22	17	7.72	.	F05	2.32	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
291	2	H	22	19	6.65	.	F05	1.13	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
292	2	H	22	25	5.67	.	F05	1.65	TECTEH	009	001A	600BOB	DNG	181	P 1	94-1
293	2	H	22	27	6.72	.	F05	5.71	TECTEH	007	002A	600BOB	DNG	182	P 1	94-1
294	2	H	22	29	6.81	.	F05	1.74	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
295	2	H	22	31	7.04	.	F05	2.07	TECTEH	009	001A	600BOB	DNG	181	P 1	94-1
296	2	H	22	33	6.25	.	F05	2.27	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
297	2	H	22	37	5.88	.	F05	2.68	TECTEH	009	001A	600BOB	DNG	182	P 1	94-1
298	2	H	22	39	5.95	.	F05	1.87	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
299	2	H	22	43	6.42	.	F05	3.17	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
300	2	H	22	47	6.74	.	F05	3.58	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
301	2	H	22	49	5.54	.	F05	2.01	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
302	2	H	22	51	4.98	.	F05	2.21	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
303	2	H	22	53	6.67	.	F05	1.54	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
304	2	H	22	57	6.33	.	F05	1.90	TECTEH	021	003A	600BOB	DNG	180	P 1	94-1
305	2	H	22	59	6.46	.	F05	1.13	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
306	2	H	22	61	6.35	.	F05	1.86	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
307	2	H	22	107	6.17	.	F05	1.12	TECTEH	049	005B	600BOB	DNG	185	P 1	94-1
308	2	H	22	109	5.77	.	F05	2.52	TECTEH	049	005B	600BOB	DNG	179	P 1	94-1
309	2	H	22	111	5.79	.	F05	2.72	TECTEH	049	005B	600BOB	DNG	177	P 1	94-1
310	2	H	22	115	6.95	.	07H	15.51	TECTEH	049	005B	600BOB	DNG	177	P 1	94-1
311	2	H	22	119	8.04	.	F05	2.47	TECTEH	049	005B	600BOB	DNG	176	P 1	94-1
312	2	H	22	121	7.85	.	F05	1.68	TECTEH	049	005B	600BOB	DNG	178	P 1	94-1
313	2	H	22	125	6.01	.	F05	4.05	TECTEH	049	005B	600BOB	DNG	176	P 1	94-1
314	2	H	22	147	5.41	.	F05	1.07	TECTEH	051	004B	600BOB	DNG	178	P 1	94-1
315	2	H	23	4	8.77	.	F01	7.17	TECTEH	011	002A	600BOB	DNG	180	P 1	94-1
316	2	H	23	26	5.66	.	F05	0.55	TECTEH	033	003B	600BOB	DNG	176	P 1	94-1
317	2	H	23	42	5.53	.	F05	1.25	TECTEH	017	001B	600BOB	DNG	179	P 1	94-1
318	2	H	23	56	5.60	.	F05	2.40	TECTEH	023	002B	600BOB	DNG	185	P 1	94-1
319	2	H	24	3	5.30	.	F01	6.37	TECTEH	009	001A	600BOB	DNG	179	P 1	94-1
320	2	H	24	41	5.20	.	F05	1.55	TECTEH	019	002A	600BOB	DNG	178	P 1	94-1
321	2	H	25	56	5.40	.	F01	8.01	TECTEH	023	002B	600BOB	DNG	185	P 1	94-1
322	2	H	26	3	5.30	.	F01	7.20	TECTEH	009	001A	600BOB	DNG	179	P 1	94-1
323	2	H	27	132	6.31	.	F05	1.33	TECTEH	051	004B	600BOB	DNG	179	P 1	94-1
324	2	H	29	132	5.64	.	F01	5.91	TECTEH	051	004B	600BOB	DNG	179	P 1	94-1
325	2	H	30	165	5.57	.	F01	6.25	TECTEH	059	007A	600BOB	DNG	174	P 1	94-1
326	2	H	31	132	5.93	.	F01	8.52	TECTEH	051	004B	600BOB	DNG	179	P 1	94-1
327	2	H	32	99	6.62	.	F04	5.74	TECTEH	051	004B	600BOB	DNG	178	P 1	94-1
328	2	H	32	147	6.83	.	F01	5.48	TECTEH	051	004B	600BOB	DNG	180	P 1	94-1
329	2	H	33	56	5.16	.	F04	5.20	TECTEH	023	002B	600BOB	DNG	186	P 1	94-1
330	2	H	33	116	5.50	.	F04	4.64	TECTEH	041	005A	600BOB	DNG	175	P 1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
331	2	H	34	101	6.29	.	F04	4.20	TECTEH	037	005A	600BOB	DNG	178	P 1	94-1
332	2	H	35	116	5.69	.	F04	5.25	TECTEH	041	005A	600BOB	DNG	174	P 1	94-1
333	2	H	35	132	6.53	.	F04	4.11	TECTEH	051	004B	600BOB	DNG	179	P 1	94-1
334	2	H	36	7	6.10	.	F04	1.90	TECTEH	011	002A	600BOB	DNG	178	P 1	94-1
335	2	H	36	23	5.23	.	F04	3.32	TECTEH	011	002A	600BOB	DNG	179	P 1	94-1
336	2	H	36	115	6.38	.	F04	3.61	TECTEH	045	005B	600BOB	DNG	171	P 1	94-1
337	2	H	36	139	5.40	.	F05	3.00	TECTEH	059	007A	600BOB	DNG	180	P 1	94-1
338	2	H	36	151	5.27	.	F05	3.74	TECTEH	059	007A	600BOB	DNG	178	P 1	94-1
339	2	H	36	155	5.49	.	F05	3.44	TECTEH	059	007A	600BOB	DNG	179	P 1	94-1
340	2	H	37	10	5.54	.	F04	1.79	TECTEH	005	001A	600BOB	DNG	176	P 1	94-1
341	2	H	37	26	5.73	.	F04	2.69	TECTEH	005	001A	600BOB	DNG	176	P 1	94-1
342	2	H	37	30	5.16	.	F04	4.39	TECTEH	009	001A	600BOB	DNG	180	P 1	94-1
343	2	H	37	132	5.07	.	F04	0.99	TECTEH	051	004B	600BOB	DNG	180	P 1	94-1
344	2	H	61	56	17.72	.	F01	3.34	TECTEH	023	002B	600BOB	DNG	184	P 1	94-1
345	2	H	61	62	7.28	.	F01	2.00	TECTEH	029	003B	600BOB	DNG	177	P 1	94-1
346	2	H	67	44	21.12	.	TSH	13.78	TECTEH	029	003B	600BOB	DNG	173	P 1	94-1
347	2	H	17	2	7.40	.	07H	1.34	TECTEH	009	001A	600BOB	DNT	179	P 1	94-1
348	2	H	22	5	6.97	.	F05	0.14	TECTEH	009	001A	600BOB	DNT	180	P 1	94-1
349	2	H	22	7	6.20	.	F05	.	TECTEH	009	001A	600BOB	DNT	181	P 1	94-1
350	2	H	22	65	5.89	.	F05	0.12	TECTEH	033	003B	600BOB	DNT	175	P 1	94-1
351	2	H	24	27	5.47	.	F05	0.33	TECTEH	007	002A	600BOB	DNT	178	P 1	94-1
352	2	H	38	147	5.11	.	F04	.	TECTEH	051	004B	600BOB	DNT	178	P 1	94-1
353	2	H	121	94	6.07	.	07C	1.54	TECTEH	041	005A	600BOB	DNT	176	P 1	94-1
354	2	H	14	57	0.15	.	05C	15.97	TECTEH	021	003A	600BOB	MBM	37	1	94-1
355	2	H	21	26	0.43	.	05C	6.65	TECTEH	033	003B	600BOB	MBM	155	1	94-1
356	2	H	31	26	0.25	.	03C	26.63	TECTEH	005	001A	600BOB	MBM	119	1	94-1
357	2	H	33	134	0.51	.	F07	1.86	TECTEH	057	006A	600BOB	MBM	53	1	94-1
358	2	H	33	134	2.00	.	F07	0.84	TECTEH	057	006A	600BOB	MBM	17	1	94-1
359	2	H	36	9	0.21	.	06C	38.50	TECTEH	001	001A	600BOB	MBM	30	1	94-1
360	2	H	37	142	0.69	.	02C	9.12	TECTEH	057	006A	600BOB	MBM	159	1	94-1
361	2	H	41	132	0.21	.	02C	5.06	TECTEH	051	004B	600BOB	MBM	135	1	94-1
362	2	H	52	85	0.11	.	02H	29.03	TECTEH	047	004B	600BOB	MBM	138	1	94-1
363	2	H	54	159	0.73	.	F06	1.38	TECTEH	057	006A	600BOB	MBM	130	1	94-1
364	2	H	63	10	0.36	.	05C	6.51	TECTEH	001	001A	600BOB	MBM	162	1	94-1
365	2	H	67	112	0.11	.	04H	23.05	TECTEH	047	004B	600BOB	MBM	56	1	94-1
366	2	H	68	57	0.29	.	F09	1.88	TECTEH	021	003A	600BOB	MBM	137	1	94-1
367	2	H	69	56	0.32	.	F04	11.51	TECTEH	023	002B	600BOB	MBM	120	1	94-1
368	2	H	70	27	0.44	.	01C	13.51	TECTEH	007	002A	600BOB	MBM	149	1	94-1
369	2	H	73	46	1.29	.	F10	7.15	TECTEH	029	003B	600BOB	MBM	146	1	94-1
370	2	H	73	70	0.60	.	F08	10.36	TECTEH	029	003B	600BOB	MBM	156	1	94-1
371	2	H	74	81	1.21	.	F10	.	TECTEH	031	002B	600BOB	MBM	23	1	94-1
372	2	H	76	57	0.68	.	06C	26.59	TECTEH	021	003A	600BOB	MBM	162	1	94-1
373	2	H	79	26	0.46	.	04H	14.55	TECTEH	005	001A	600BOB	MBM	160	1	94-1
374	2	H	79	42	0.19	.	03C	32.78	TECTEH	017	001B	600BOB	MBM	157	1	94-1
375	2	H	81	50	0.18	.	03H	32.75	TECTEH	031	002B	600BOB	MBM	97	1	94-1
376	2	H	81	128	0.84	.	F07	9.96	TECTEH	055	007A	600BOB	MBM	26	1	94-1
377	2	H	81	144	0.41	.	F05	12.28	TECTEH	055	007A	600BOB	MBM	32	1	94-1
378	2	H	82	51	0.40	.	F07	3.10	TECTEH	029	003B	600BOB	MBM	42	1	94-1
379	2	H	82	81	0.30	.	F09	0.28	TECTEH	029	003B	600BOB	MBM	78	1	94-1
380	2	H	83	136	1.05	.	03C	1.83	TECTEH	053	006A	600BOB	MBM	149	1	94-1
381	2	H	84	51	0.28	.	F03	5.62	TECTEH	029	003B	600BOB	MBM	144	1	94-1
382	2	H	86	27	0.42	.	04H	33.82	TECTEH	005	001A	600BOB	MBM	162	1	94-1
383	2	H	94	95	0.94	.	F07	10.74	TECTEH	045	005B	600BOB	MBM	162	1	94-1
384	2	H	104	87	0.31	.	F08	7.48	TECTEH	039	004A	600BOB	MBM	160	1	94-1
385	2	H	105	116	0.79	.	F08	4.54	TECTEH	037	005A	600BOB	MBM	98	1	94-1

SUMMARY OF BOBBIN COIL INDICATIONS
MP2 STEAM GENERATOR EXAMINATION - RFO 12

OBS	SGNO	SIDE	ROW	COL	VOLTS	DEPTH	SUPPORT	HEIGHT	EXTENT	CAL	DISK	PROBE	CODE	DEG	CHANNEL	OUTAGE
386	2	H	107	72	0.15	.	F03	7.15	TECTEH	021	003A	600BOB	MBM	79	1	94-1
387	2	H	109	86	0.48	.	F06	7.23	TECTEH	037	005A	600BOB	MBM	44	1	94-1
388	2	H	111	84	0.44	.	02H	16.95	TECTEH	041	005A	600BOB	MBM	163	1	94-1
389	2	H	111	88	0.66	.	F09	1.66	TECTEH	041	005A	600BOB	MBM	34	1	94-1
390	2	H	114	47	0.22	.	03H	22.90	TECTEH	025	003A	600BOB	MBM	159	1	94-1
391	2	H	114	119	0.65	.	F04	5.82	TECTEH	047	004B	600BOB	MBM	51	1	94-1
392	2	H	115	72	0.27	.	F03	16.30	TECTEH	021	003A	600BOB	MBM	137	1	94-1
393	2	H	123	102	0.20	.	F10	12.50	TECTEH	039	004A	600BOB	MBM	34	1	94-1
394	2	H	124	111	0.77	.	04H	0.44	TECTEH	041	005A	600BOB	MBM	133	1	94-1
395	2	H	125	96	0.23	.	F03	10.24	TECTEH	041	005A	600BOB	MBM	101	1	94-1
396	2	H	126	75	0.26	.	F10	1.71	TECTEH	027	002B	600BOB	MBM	69	1	94-1
397	2	H	127	58	0.23	.	F09	6.56	TECTEH	027	002B	600BOB	MBM	37	1	94-1
398	2	H	128	59	0.50	.	07H	16.30	TECTEH	025	003A	600BOB	MBM	162	1	94-1
399	2	H	128	59	0.20	.	06C	25.91	TECTEH	025	003A	600BOB	MBM	153	1	94-1
400	2	H	128	109	1.45	.	F06	8.02	TECTEH	041	005A	600BOB	MBM	164	1	94-1
401	2	H	129	52	0.30	.	F10	10.64	TECTEH	027	002B	600BOB	MBM	47	1	94-1
402	2	H	131	54	1.34	.	F04	10.96	TECTEH	027	002B	600BOB	MBM	23	1	94-1
403	2	H	136	87	0.53	.	02C	30.67	TECTEH	039	004A	600BOB	MBM	22	1	94-1