



DUKE POWER

April 10, 1996

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

Subject: Catawba Nuclear Station, Unit 1
Docket No. 50-413
Special Report
End of Cycle 8 Refueling Outage
Steam Generator Tube Inspection Report

Pursuant to Catawba Technical Specification 4.4.5.5, the following information is submitted:

1. The following quantities of steam generator tubes were inspected from either side of the generator:

<u>Steam Generator</u>	<u>Tubes Inspected</u> <u>Full Length</u>
A	4349
B	4512
C	4152
D	4203

2. The following information is submitted regarding tube indications of imperfections. (The attached lists identify the tubes with imperfections, their locations, and their size.)

<u>Steam Generator</u>	<u>Attachment</u>
A	1
B	2
C	3
D	4

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3. The following quantities of tubes were removed from service by plugging or repaired by sleeving. (The tubes are identified in the attachments.)

<u>Steam Generator</u>	<u>Number of Tubes</u>	<u>Attachment</u>
A	121	5
B	72	6
C	154	7
D	73	8

For further information, please contact Devereux Tower at (803) 831-3419.



William R. McCollum, Jr.
Vice President
Catawba Nuclear Station

DT/

Attachments

xc:Mr. S. D. Ebnetter
Regional Administrator, Region II

Mr. Robert E. Martin, Project Manager
ONRR

Mr. Nick Economos, Inspector
Region II

Mr. R. J. Freudenberger
NRC Resident Inspector
Catawba Nuclear Station

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ELL-EC050
Group File: CN-801.01
Master File: CN-801.01

ATTACHMENT 1

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

1	1	02/95	Bobbin	ODI	9	0.87	5TH TSP	+36.12
		02/95	H/L Spec	VOL		1.13	5TH TSP	+36.44
1	11	02/95	Bobbin	ODI	28	0.64	7TH TSP	+5.41
1	27	02/95	Bobbin	ODI	9	0.56	2ND TSP	+0.00
1	34	02/95	Bobbin	ODI	18	0.89	4TH TSP	+10.13
		02/95	H/L Tubes	SAI		1.17	TTS-HL	-2.90
1	48	02/95	Bobbin	NQI	15.46		TE-HL	+17.03
		02/95	Bobbin	ODI	14	0.80	10TH TSP	+12.77
		02/95	H/L Tubes	MAI		7.22	TTS-HL	-4.02
		02/95	H/L Spec	MAI		4.14	TTS-HL	-3.98
		02/95	C/L Spec	VOL		0.76	10TH TSP	+11.80
1	57	02/95	Bobbin	ODI	9	2.11	10TH TSP	+21.62
		02/95	C/L Spec	VOL		1.47	10TH TSP	+21.45
1	71	02/95	Bobbin	NQI		3.57	22ND TSP	+13.50
1	80	02/95	Bobbin	ODI	16	0.69	5TH TSP	+31.03
		02/95	H/L Spec	VOL		0.83	6TH TSP	-13.24
1	91	02/95	Bobbin	ODI	9	0.86	7TH TSP	+31.20
		02/95	H/L Spec	VOL		0.58	8TH TSP	-13.77
1	104	02/95	Bobbin	NQI		8.26	TE-HL	+4.13
		02/95	Bobbin	NQI		0.30	12TH TSP	+41.15
		02/95	C/L Spec	VOL		0.67	11TH TSP	-2.56
1	114	02/95	Bobbin	NQI		1.68	TE-HL	+14.40
2	16	02/95	C/L Spec	VOL		0.26	21ST TSP	+1.53
		02/95	C/L Spec	VOL		0.80	14TH TSP	+2.10
2	27	02/95	Bobbin	NQI		3.74	TE-HL	+19.63
2	29	02/95	Bobbin	ODI	7	1.35	4TH TSP	-0.87
		02/95	H/L Spec	VOL		0.51	4TH TSP	-1.00
2	41	02/95	C/L Spec	VOL		0.64	11TH TSP	-4.38
2	61	02/95	Bobbin	ODI	7	0.52	3RD TSP	+8.09
		02/95	Bobbin	ODI	15	0.35	1ST TSP	+18.33
		02/95	Bobbin	ODI	21	0.24	1ST TSP	+15.54
		02/95	H/L Spec	VOL		0.26	3RD TSP	+10.31
		02/95	H/L Spec	VOL		0.40	2ND TSP	-2.14
		02/95	H/L Spec	VOL		0.44	3RD TSP	+8.06
		02/95	H/L Spec	VOL		0.52	2ND TSP	-4.87
		02/95	H/L Spec	VOL		0.54	3RD TSP	+9.45
2	64	02/95	Bobbin	NQI		5.70	TE-CL	+15.38
		02/95	Bobbin	NQI		0.49	3RD TSP	+7.71
2	65	02/95	Bobbin	ODI	6	0.70	2ND TSP	+10.23
		02/95	H/L Spec	VOL		0.43	2ND TSP	+10.42
2	73	02/95	Bobbin	NQI		1.91	22ND TSP	+16.53
2	80	02/95	Bobbin	NQI		0.43	10TH TSP	+4.44
		02/95	Bobbin	NQI		0.78	19TH TSP	+15.69
		02/95	C/L Spec	VOL		0.22	19TH TSP	+15.96
		02/95	C/L Spec	VOL		0.43	10TH TSP	+4.82
2	89	02/95	Bobbin	NQI	11.08		TE-HL	+17.85
		02/95	H/L Tubes	SAI		0.83	TTS-HL	-4.83
		02/95	H/L Tubes	SAI		8.04	TTS-HL	-3.20
		02/95	H/L Spec	SAI		1.37	TTS-HL	-4.94
		02/95	H/L Spec	SAI		10.33	TTS-HL	-3.23
2	101	02/95	Bobbin	ODI	11	1.23	5TH TSP	+34.44
		02/95	H/L Spec	VOL		0.42	6TH TSP	-10.13
2	103	02/95	Bobbin	NQI	12.16		TTS-CL	-0.40
2	108	02/95	Bobbin	ODI	10	0.85	6TH TSP	+31.32
		02/95	H/L Spec	VOL		1.56	7TH TSP	-13.10
2	111	02/95	Bobbin	ODI	2	0.59	TTS-HL	+3.46
		02/95	H/L Spec	VOL		0.45	TTS-HL	+3.50
3	12	02/95	Bobbin	ODI	14	0.65	7TH TSP	+15.52
		02/95	H/L Spec	VOL		1.39	7TH TSP	+15.28
3	26	02/95	Bobbin	ODI	11	0.61	5TH TSP	+0.34
3	31	02/95	Bobbin	ODI	5	0.42	6TH TSP	-0.21
3	35	02/95	Bobbin	ODI	14	1.17	7TH TSP	+39.75
		02/95	H/L Spec	VOL		0.56	8TH TSP	-4.09
3	41	02/95	Bobbin	NQI		5.24	TE-CL	+18.59
3	50	02/95	U-Bend	VOL		0.62	8TH TSP	-0.62

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	78	0.21	8TH TSP	-0.74	
		02/95	Bobbin	ODI	9	0.98	21ST TSP	+3.90	
		02/95	H/L Spec	VOL		0.96	8TH TSP	-0.70	
		02/95	C/L Spec	VOL		0.61	21ST TSP	+3.80	
3	66	02/95	Bobbin	NQI		31.89	TE-HL	+16.05	
		02/95	H/L Spec	MAI		7.54	TTS-HL	-4.87	
3	71	02/95	Bobbin	NQI		7.40	TE-HL	+9.94	
		02/95	Bobbin	NQI		16.09	TE-HL	+11.84	
		02/95	H/L Spec	MAI		0.91	TTS-HL	-8.09	
		02/95	H/L Spec	MAI		5.23	TTS-HL	-9.07	
		02/95	H/L Spec	SAI		0.72	TTS-HL	-6.97	
3	74	02/95	C/L Spec	VOL		1.98	16TH TSP	+1.82	to *
3	86	02/95	Bobbin	NQI		0.44	3RD TSP	+15.68	
		02/95	H/L Spec	VOL		0.47	3RD TSP	+15.79	
3	91	02/95	Bobbin	NQI		6.57	TE-HL	+16.31	
3	96	02/95	U-Bend	VOL		0.81	9TH TSP	+0.62	
		02/95	H/L Tubes	VOL		0.68	TTS-HL	-3.06	
3	100	02/95	Bobbin	NQI		13.69	TE-HL	+13.47	
		02/95	H/L Spec	MAI		3.80	TTS-HL	-8.21	
3	107	02/95	Bobbin	ODI	5	0.66	4TH TSP	+32.44	
		02/95	H/L Spec	VOL		0.45	5TH TSP	-11.83	
4	4	02/95	Bobbin	NQI		2.51	TE-CL	+14.24	
		02/95	Bobbin	NQI		3.01	TE-CL	+8.37	
		02/95	Bobbin	NQI		4.40	TE-CL	+13.31	
		02/95	Bobbin	NQI		9.92	TE-CL	+5.30	
		02/95	Bobbin	ODI	47	0.40	3RD TSP	+0.00	
		02/95	Bobbin	ODI	6	1.53	16TH TSP	+12.67	
		02/95	C/L Spec	VOL		0.74	16TH TSP	+13.46	
4	9	02/95	Bobbin	NQI		2.24	14TH TSP	+9.26	
		02/95	Bobbin	ODI	7	0.45	3RD TSP	-0.05	
		02/95	C/L Spec	VOL		1.55	13TH TSP	-1.26	
4	10	02/95	Bobbin	NQI		0.26	21ST TSP	+14.86	
		02/95	C/L Spec	VOL		0.34	19TH TSP	-1.10	
		02/95	C/L Spec	VOL		0.34	21ST TSP	+13.78	
		02/95	C/L Spec	VOL		0.78	10TH TSP	-2.77	
4	11	02/95	Bobbin	ODI	10	1.90	12TH TSP	+39.27	
		02/95	Bobbin	ODI	22	1.20	19TH TSP	+6.01	
		02/95	C/L Spec	VOL		0.46	11TH TSP	-4.73	
		02/95	C/L Spec	VOL		0.72	19TH TSP	+6.18	
4	13	02/95	Bobbin	ODI	34	0.32	3RD TSP	-0.07	
4	16	02/95	Bobbin	NQI		18.97	8TH TSP	+5.17	
		02/95	Bobbin	ODI	14	2.17	4TH TSP	+29.26	
		02/95	H/L Spec	VOL		0.46	5TH TSP	-14.45	
4	20	02/95	Bobbin	ODI	15	0.43	4TH TSP	+33.93	
		02/95	Bobbin	ODI	65	0.23	3RD TSP	-0.09	
		02/95	H/L Spec	VOL		0.40	5TH TSP	-10.43	
4	21	02/95	Bobbin	ODI	5	0.39	2ND TSP	+0.07	
4	34	02/95	Bobbin	NQI		3.21	TE-CL	+17.91	
		02/95	Bobbin	NQI		5.22	TE-CL	+17.07	
4	46	02/95	Bobbin	ODI	56	0.27	3RD TSP	+0.02	
		02/95	H/L Spec	SAI		0.42	3RD TSP	+0.07	
4	52	02/95	Bobbin	NQI		2.88	8TH TSP	+5.30	
		02/95	Bobbin	ODI	2	0.89	3RD TSP	+36.40	
		02/95	Bobbin	ODI	14	0.92	3RD TSP	+38.37	
		02/95	H/L Spec	VOL		0.23	4TH TSP	-8.07	
		02/95	H/L Spec	VOL		0.48	4TH TSP	-5.83	
4	58	02/95	Bobbin	ODI	7	1.21	2ND TSP	+16.88	
		02/95	Bobbin	ODI	32	0.76	3RD TSP	+0.02	
		02/95	H/L Spec	VOL		0.29	3RD TSP	-8.28	
4	59	02/95	Bobbin	ODI	50	0.19	3RD TSP	-0.04	
4	60	02/95	Bobbin	NQI		1.11	14TH TSP	+1.28	
		02/95	Bobbin	ODI	14	0.89	2ND TSP	+4.22	
		02/95	H/L Spec	VOL		0.62	2ND TSP	+4.03	
		02/95	C/L Spec	VOL		0.34	16TH TSP	+14.38	
		02/95	C/L Spec	VOL		0.47	14TH TSP	+1.35	

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.53	16TH TSP	+17.51
		02/95	C/L Speci	VOL		0.69	16TH TSP	+8.10
		02/95	C/L Speci	VOL		0.87	16TH TSP	+11.53
4	85	02/95	Bobbin	ODI	7	1.97	5TH TSP	+34.93
		02/95	H/L Speci	VOL		1.11	6TH TSP	-9.39
4	91	02/95	Bobbin	ODI	30	3.42	2ND TSP	+11.50
		02/95	H/L Speci	VOL		1.77	2ND TSP	+11.51
4	94	02/95	Bobbin	NQI		39.45	TE-HL	+7.27
		02/95	H/L Speci	MAI		4.23	TE-HL	+7.65
4	99	02/95	H/L Tubes	SAI		2.31	TTS-HL	-3.18
4	100	02/95	Bobbin	ODI	23	1.41	7TH TSP	+14.97
		02/95	H/L Speci	VOL		1.41	7TH TSP	+15.75
4	110	02/95	Bobbin	ODI	6	0.68	7TH TSP	+10.93
		02/95	H/L Speci	VOL		0.25	7TH TSP	+9.01
		02/95	H/L Speci	VOL		0.70	7TH TSP	+10.61
4	114	02/95	Bobbin	ODI	11	1.52	6TH TSP	+41.49
		02/95	H/L Speci	VOL		0.64	7TH TSP	-2.55
5	3	02/95	Bobbin	ODI	9	1.18	13TH TSP	+3.78
		02/95	C/L Speci	VOL		0.91	13TH TSP	+3.73
5	6	02/95	C/L Speci	VOL		0.19	18TH TSP	+7.74
5	9	02/95	Bobbin	NQI		0.45	22ND TSP	+5.89
		02/95	C/L Speci	VOL		1.05	22ND TSP	+5.96
5	15	02/95	Bobbin	NQI		0.26	11TH TSP	+6.53
5	23	02/95	C/L Speci	VOL		0.24	11TH TSP	+18.37
5	29	02/95	Bobbin	NQI		1.73	TE-HL	+13.36
		02/95	Bobbin	ODI	85	0.71	3RD TSP	-0.02
5	40	02/95	Bobbin	NQI		11.38	TE-HL	+11.32
		02/95	Bobbin	ODI	4	0.67	3RD TSP	+29.38
		02/95	H/L Speci	MAI		2.64	TTS-HL	-9.81
		02/95	H/L Speci	VOL		0.46	4TH TSP	-14.78
5	47	02/95	Bobbin	NQI		0.35	22ND TSP	+10.87
		02/95	Bobbin	NQI		0.67	22ND TSP	+5.93
		02/95	Bobbin	NQI		0.70	22ND TSP	+3.80
		02/95	C/L Speci	VOL		0.81	22ND TSP	+11.22
		02/95	C/L Speci	VOL		0.91	22ND TSP	+4.04
		02/95	C/L Speci	VOL		0.92	22ND TSP	+10.19
		02/95	C/L Speci	VOL		0.95	22ND TSP	+6.23
5	48	02/95	Bobbin	NQI		0.97	TTS-CL	+2.04
		02/95	C/L Speci	VOL		1.06	TTS-CL	+1.60
5	49	02/95	Bobbin	ODI	15	1.27	TTS-CL	+1.20
		02/95	Bobbin	ODI	71	0.56	3RD TSP	-0.09
		02/95	Bobbin	ODI	1	3.37	12TH TSP	+10.71
		02/95	Bobbin	ODI	5	1.26	16TH TSP	+9.47
		02/95	Bobbin	ODI	7	1.77	22ND TSP	+1.97
		02/95	C/L Speci	VOL		0.72	TTS-CL	+1.65
		02/95	C/L Speci	VOL		0.38	15TH TSP	-1.61
		02/95	C/L Speci	VOL		0.76	22ND TSP	+2.01
		02/95	C/L Speci	VOL		1.14	12TH TSP	+10.61
5	50	02/95	Bobbin	ODI	72	0.37	3RD TSP	+0.00
5	72	02/95	Bobbin	NQI		7.63	TE-HL	+11.96
		02/95	H/L Speci	MAI		2.02	TTS-HL	-8.83
5	85	02/95	Bobbin	NQI		3.96	TE-HL	+8.30
		02/95	Bobbin	ODI	71	0.43	3RD TSP	+0.13
		02/95	H/L Speci	SAI		1.88	TE-HL	+8.87
5	89	02/95	Bobbin	ODI	21	5.70	2ND TSP	+7.72
		02/95	H/L Speci	VOL		2.30	2ND TSP	+7.59
5	91	02/95	Bobbin	ODI	6	0.62	4TH TSP	+18.67
		02/95	H/L Tubes	MAI		0.81	TTS-HL	-4.25
		02/95	H/L Speci	VOL		0.22	4TH TSP	+18.74
5	92	02/95	Bobbin	NQI		5.38	TE-HL	+16.04
		02/95	Bobbin	ODI	8	1.17	2ND TSP	-0.04
		02/95	H/L Speci	SAI		2.07	TE-HL	+15.98
		02/95	H/L Speci	VOL		0.52	2ND TSP	+0.00
5	97	02/95	Bobbin	ODI	6	0.55	3RD TSP	+0.09
		02/95	H/L Tubes	MAI		2.07	TTS-HL	-3.41

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

5	102	02/95	C/L Spec	VOL		0.36	17TH TSP	-7.73
5	105	02/95	Bobbin	ODI	37	0.49	3RD TSP	-0.04
5	108	02/95	Bobbin	ODI	15	1.48	5TH TSP	+13.14
		02/95	Bobbin	ODI	16	0.85	1ST TSP	+16.01
		02/95	H/L Spec	VOL		0.40	1ST TSP	+16.65
		02/95	H/L Spec	VOL		0.47	5TH TSP	+1.89
		02/95	H/L Spec	VOL		0.66	5TH TSP	+8.01
		02/95	H/L Spec	VOL		0.79	5TH TSP	+13.54
		02/95	H/L Spec	VOL		0.81	1ST TSP	+0.19
5	109	02/95	Bobbin	ODI	13	0.54	11TH TSP	+35.65
		02/95	C/L Spec	VOL		0.26	10TH TSP	-7.75
6	7	02/95	Bobbin	ODI	9	1.64	22ND TSP	+8.11
		02/95	C/L Spec	VOL		0.75	22ND TSP	+7.81
6	22	02/95	C/L Spec	VOL		0.27	11TH TSP	+22.01
6	35	02/95	Bobbin	ODI	14	3.14	7TH TSP	+4.56
		02/95	H/L Spec	VOL		0.79	7TH TSP	+4.39
6	38	02/95	Bobbin	ODI	8	3.02	7TH TSP	+20.71
		02/95	Bobbin	ODI	8	0.71	12TH TSP	+28.22
		02/95	H/L Spec	VOL		0.56	7TH TSP	+20.10
		02/95	C/L Spec	VOL		0.24	12TH TSP	+28.53
6	46	02/95	Bobbin	ODI	79	1.17	3RD TSP	+0.00
		02/95	H/L Spec	SAI		1.11	3RD TSP	-0.01
6	49	02/95	Bobbin	NQI		0.35	19TH TSP	+1.85
		02/95	C/L Spec	VOL		0.59	19TH TSP	+1.98
6	60	02/95	Bobbin	ODI	13	1.13	2ND TSP	+11.65
		02/95	H/L Tubes	SAI		1.38	TTS-HL	+0.01
		02/95	H/L Spec	VOL		0.55	2ND TSP	+11.40
6	62	02/95	Bobbin	ODI	15	1.95	4TH TSP	+21.32
		02/95	Bobbin	ODI	23	0.36	3RD TSP	-0.76
		02/95	H/L Spec	VOL		0.56	3RD TSP	-0.68
		02/95	H/L Spec	VOL		0.60	4TH TSP	+20.93
6	65	02/95	Bobbin	ODI	19	3.04	12TH TSP	+14.98
		02/95	C/L Spec	VOL		1.03	12TH TSP	+14.76
6	69	02/95	Bobbin	ODI	51	0.62	3RD TSP	+0.10
6	80	02/95	H/L Tubes	SAI		2.25	TTS-HL	-4.02
6	86	02/95	Bobbin	NQI		3.10	TE-HL	+15.28
		02/95	Bobbin	NQI		3.11	TE-HL	+9.61
		02/95	Bobbin	NQI		5.19	TE-HL	+13.43
		02/95	Bobbin	NQI		5.66	TE-HL	+14.35
		02/95	Bobbin	NQI		6.32	TE-HL	+12.45
		02/95	Bobbin	NQI		8.59	TE-HL	+11.51
		02/95	Bobbin	NQI		20.47	TE-HL	+3.95
		02/95	Bobbin	ODI	1	0.41	5TH TSP	-0.08
		02/95	H/L Spec	MAI		0.60	TE-HL	+12.42
		02/95	H/L Spec	MAI		0.69	TE-HL	+2.58
		02/95	H/L Spec	MAI		0.81	TE-HL	+11.34
		02/95	H/L Spec	MAI		0.91	TE-HL	+15.41
		02/95	H/L Spec	MAI		1.92	TE-HL	+3.83
		02/95	H/L Spec	MAI		2.04	TE-HL	+14.34
		02/95	H/L Spec	MAI		2.82	TE-HL	+13.45
		02/95	H/L Spec	SAI		0.61	TE-HL	+9.43
		02/95	H/L Spec	VOL		0.28	3RD TSP	+0.10
6	89	02/95	H/L Spec	VOL		0.73	2ND TSP	+4.78 to **
6	92	02/95	Bobbin	ODI	14	1.27	4TH TSP	+12.83
		02/95	Bobbin	ODI	11	1.86	12TH TSP	+25.53
		02/95	H/L Spec	VOL		0.26	4TH TSP	+12.86
		02/95	H/L Spec	VOL		0.54	3RD TSP	+0.20
		02/95	C/L Spec	VOL		0.55	12TH TSP	+25.97
6	93	02/95	Bobbin	ODI	15	0.24	2ND TSP	+0.16
6	94	02/95	Bobbin	NQI		19.59	TE-HL	+12.46
		02/95	Bobbin	ODI	8	1.27	7TH TSP	+28.53
		02/95	H/L Spec	MAI		2.97	TE-HL	+11.73
		02/95	H/L Spec	VOL		0.27	8TH TSP	+1.79
		02/95	H/L Spec	VOL		0.53	8TH TSP	-16.92
6	102	02/95	H/L Spec	VOL		0.37	1ST TSP	+7.15

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

6	103	02/95	Bobbin	ODI	80	0.26	2ND TSP	+0.13
		02/95	Bobbin	ODI	19	1.54	10TH TSP	+2.34
		02/95	C/L Speci	VOL		0.37	10TH TSP	+2.37
6	105	02/95	Bobbin	ODI	8	1.37	4TH TSP	+11.39
		02/95	Bobbin	ODI	14	1.53	4TH TSP	+13.54
		02/95	Bobbin	ODI	3	0.94	12TH TSP	+41.41
		02/95	H/L Speci	VOL		0.81	4TH TSP	+11.71
		02/95	H/L Speci	VOL		0.84	4TH TSP	+14.03
		02/95	C/L Speci	VOL		0.30	11TH TSP	-3.81
6	107	02/95	Bobbin	NQI		6.37	TE-HL	+18.18
		02/95	Bobbin	NQI		9.67	TE-HL	+17.18
		02/95	Bobbin	ODI	12	0.39	4TH TSP	+8.84
		02/95	Bobbin	ODI	10	0.83	18TH TSP	+5.97
		02/95	Bobbin	ODI	18	0.50	10TH TSP	+22.81
		02/95	H/L Tubes	MAI		1.41	TTS-HL	-2.96
		02/95	H/L Speci	MAI		0.64	TTS-HL	-3.18
		02/95	H/L Speci	MAI		2.66	TTS-HL	-4.28
		02/95	H/L Speci	VOL		0.70	4TH TSP	+8.89
		02/95	C/L Speci	VOL		0.60	18TH TSP	+5.90
		02/95	C/L Speci	VOL		0.79	10TH TSP	+23.19
6	110	02/95	Bobbin	ODI	35	0.22	2ND TSP	+0.08
6	113	02/95	H/L Tubes	VOL		1.72	TTS-HL	-0.50
7	4	02/95	Bobbin	ODI	76	0.61	3RD TSP	+0.05
7	7	02/95	Bobbin	ODI	12	1.00	5TH TSP	+12.95
		02/95	H/L Speci	VOL		0.67	5TH TSP	+12.69
7	11	02/95	H/L Tubes	VOL		1.06	TTS-HL	+1.24
7	12	02/95	Bobbin	ODI	8	0.50	22ND TSP	+13.94
		02/95	C/L Speci	VOL		0.91	9TH TSP	-9.65
		02/95	C/L Speci	VOL		0.26	22ND TSP	+12.49
		02/95	C/L Speci	VOL		0.40	22ND TSP	+9.44
		02/95	C/L Speci	VOL		0.51	22ND TSP	+14.08
7	13	02/95	Bobbin	ODI	33	0.37	3RD TSP	+0.05
7	14	02/95	Bobbin	ODI	32	0.53	5TH TSP	-0.03
		02/95	Bobbin	ODI	13	0.78	11TH TSP	+21.64
		02/95	C/L Speci	VOL		0.73	11TH TSP	+21.51
7	17	02/95	Bobbin	ODI	56	0.28	5TH TSP	+0.14
7	20	02/95	Bobbin	NQI		0.63	17TH TSP	+2.28
		02/95	Bobbin	ODI	11	0.55	17TH TSP	+4.69
		02/95	C/L Speci	VOL		0.42	17TH TSP	+4.90
		02/95	C/L Speci	VOL		0.59	17TH TSP	+2.33
7	25	02/95	Bobbin	ODI	14	0.54	7TH TSP	+9.58
		02/95	H/L Tubes	VOL		0.93	TTS-HL	+2.23
		02/95	H/L Speci	VOL		0.25	7TH TSP	+9.85
7	26	02/95	Bobbin	ODI	26	0.21	5TH TSP	-0.09
		02/95	Bobbin	ODI	40	0.27	3RD TSP	+0.13
7	30	02/95	Bobbin	ODI	34	0.30	5TH TSP	+0.11
7	31	02/95	Bobbin	ODI	49	0.46	5TH TSP	+0.07
7	32	02/95	Bobbin	ODI	93	0.37	5TH TSP	+0.07
		02/95	Bobbin	ODI	12	0.88	12TH TSP	+32.49
		02/95	C/L Speci	VOL		0.37	11TH TSP	-11.59
7	33	02/95	Bobbin	ODI	9	0.41	22ND TSP	+4.75
		02/95	C/L Speci	VOL		0.34	22ND TSP	+4.92
7	34	02/95	Bobbin	ODI	41	0.21	5TH TSP	+0.16
7	45	02/95	Bobbin	ODI	92	0.16	3RD TSP	+0.00
7	47	02/95	Bobbin	NQI		0.44	6TH TSP	+34.22
		02/95	H/L Speci	VOL		1.23	7TH TSP	-9.76
7	52	02/95	H/L Tubes	VOL		1.09	TTS-HL	+1.51
7	68	02/95	Bobbin	ODI	15	0.31	3RD TSP	+0.17
7	71	02/95	H/L Speci	VOL		1.04	4TH TSP	+0.09
7	81	02/95	Bobbin	ODI	15	4.91	6TH TSP	+23.30 to +*
7	92	02/95	Bobbin	ODI	3	0.47	18TH TSP	-0.05
7	95	02/95	H/L Speci	VOL		1.07	2ND TSP	+0.00
7	97	02/95	Bobbin	ODI	19	0.98	3RD TSP	+40.25
		02/95	H/L Speci	VOL		0.48	4TH TSP	-4.49
7	101	02/95	Bobbin	ODI	43	0.88	6TH TSP	+30.82

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	H/L Speci	VOL		0.81	7TH TSP	-12.79	
7 103	02/95	Bobbin	ODI	35	0.47	5TH TSP	+18.79	
	02/95	H/L Speci	VOL		0.88	5TH TSP	+18.67	
7 112	02/95	C/L Speci	VOL		0.37	15TH TSP	+8.68	
8 6	02/95	Bobbin	ODI	69	0.52	3RD TSP	+0.16	
8 13	02/95	Bobbin	ODI	5	1.09	22ND TSP	+11.38	
	02/95	C/L Speci	VOL		0.29	22ND TSP	+11.52	
8 35	02/95	Bobbin	NQI		0.49	8TH TSP	+5.99	
8 37	02/95	Bobbin	ODI	2	0.53	10TH TSP	+18.40	
	02/95	C/L Speci	VOL		0.34	10TH TSP	+18.97	
8 47	02/95	Bobbin	NQI		0.52	20TH TSP	+2.99	
	02/95	C/L Speci	VOL		0.54	20TH TSP	+3.10	
8 52	02/95	Bobbin	ODI	22	0.37	11TH TSP	+40.50	
	02/95	C/L Speci	VOL		0.16	10TH TSP	-3.58	
8 60	02/95	Bobbin	ODI	1	0.65	3RD TSP	+0.22	
8 61	02/95	Bobbin	ODI	1	0.52	3RD TSP	+0.13	
8 62	02/95	Bobbin	ODI	22	1.30	4TH TSP	+9.37	to **
8 65	02/95	H/L Speci	VOL		0.48	6TH TSP	+19.80	
8 68	02/95	Bobbin	NQI		28.54	TE-HL	+12.91	
	02/95	H/L Speci	MAI		3.40	TTS-HL	-9.31	
8 69	02/95	Bobbin	ODI	1	0.39	2ND TSP	+0.17	
8 72	02/95	Bobbin	NQI		24.35	TE-HL	+12.30	
	02/95	Bobbin	ODI	12	1.71	4TH TSP	+33.38	
	02/95	H/L Speci	SAI		4.27	TTS-HL	-8.63	
	02/95	H/L Speci	VOL		0.77	5TH TSP	-11.24	
8 73	02/95	Bobbin	ODI	49	0.17	3RD TSP	+0.15	
8 75	02/95	Bobbin	ODI	25	1.07	3RD TSP	+22.40	
	02/95	H/L Speci	VOL		1.18	3RD TSP	+23.31	
8 79	02/95	Bobbin	ODI	4	3.22	15TH TSP	+4.96	
	02/95	H/L Tubes	VOL		0.62	TTS-HL	+0.85	
	02/95	H/L Tubes	VOL		0.79	TTS-HL	-0.53	
	02/95	C/L Speci	VOL		0.79	15TH TSP	+5.17	
8 84	02/95	Bobbin	ODI	12	0.31	2ND TSP	+0.11	
	02/95	Bobbin	ODI	23	0.84	3RD TSP	+0.12	
	02/95	H/L Speci	VOL		0.35	3RD TSP	+14.46	
8 85	02/95	Bobbin	ODI	12	0.84	1ST TSP	+10.78	
	02/95	H/L Speci	VOL		0.69	1ST TSP	+10.90	
8 86	02/95	Bobbin	NQI		5.37	9TH TSP	+5.10	
	02/95	Bobbin	NQI		6.97	9TH TSP	+9.30	
	02/95	Bobbin	NQI		31.40	9TH TSP	+6.95	
8 88	02/95	Bobbin	ODI	80	0.19	5TH TSP	+0.06	
8 90	02/95	Bobbin	ODI	88	0.27	4TH TSP	+0.09	
8 95	02/95	Bobbin	ODI	21	0.61	4TH TSP	+0.22	
	02/95	Bobbin	ODI	22	0.53	6TH TSP	-0.22	
	02/95	Bobbin	ODI	23	0.68	2ND TSP	+0.24	
	02/95	Bobbin	ODI	51	0.27	3RD TSP	-0.07	
8 96	02/95	Bobbin	ODI	12	0.38	2ND TSP	+0.10	
	02/95	Bobbin	ODI	37	0.26	5TH TSP	-0.20	
8 97	02/95	Bobbin	ODI	4	0.63	3RD TSP	+0.17	
	02/95	Bobbin	ODI	6	0.57	2ND TSP	+0.00	
8 98	02/95	Bobbin	ODI	71	0.20	4TH TSP	+0.12	
8 100	02/95	Bobbin	ODI	30	0.29	4TH TSP	+0.05	
	02/95	Bobbin	ODI	35	0.35	3RD TSP	+0.15	
	02/95	H/L Speci	VOL		0.26	2ND TSP	-2.81	
8 102	02/95	Bobbin	NQI		0.38	3RD TSP	+3.61	
	02/95	Bobbin	ODI	2	1.19	1ST TSP	+17.50	
	02/95	Bobbin	ODI	16	0.33	1ST TSP	+12.53	
	02/95	H/L Tubes	VOL		1.13	TTS-HL	-0.58	
	02/95	H/L Tubes	VOL		1.19	TTS-HL	-3.36	
	02/95	H/L Speci	VOL		0.22	1ST TSP	+4.34	
	02/95	H/L Speci	VOL		0.23	1ST TSP	+14.69	
	02/95	H/L Speci	VOL		0.23	1ST TSP	+16.69	
	02/95	H/L Speci	VOL		0.35	1ST TSP	+8.54	
	02/95	H/L Speci	VOL		0.40	1ST TSP	+3.04	
	02/95	H/L Speci	VOL		0.42	3RD TSP	-1.84	

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	H/L Speci	VOL		0.87	1ST TSP	+11.72	
	02/95	H/L Speci	VOL		0.45	3RD TSP	+2.81	to *
8 103	02/95	Bobbin	ODI	13	0.82	5TH TSP	+26.30	
	02/95	Bobbin	ODI	12	1.78	16TH TSP	+1.80	
	02/95	H/L Speci	VOL		0.84	5TH TSP	+26.50	
	02/95	C/L Speci	VOL		0.40	16TH TSP	+3.20	
8 105	02/95	Bobbin	ODI	28	0.33	7TH TSP	-0.23	
	02/95	Bobbin	ODI	68	0.34	6TH TSP	-0.28	
8 107	02/95	Bobbin	ODI	33	0.41	3RD TSP	+0.06	
	02/95	H/L Tubes	VOL		0.55	TTS-HL	+1.08	
8 108	02/95	Bobbin	ODI	9	0.61	5TH TSP	+22.07	
	02/95	Bobbin	ODI	15	0.29	12TH TSP	+9.19	
	02/95	H/L Speci	VOL		0.59	5TH TSP	+23.15	
	02/95	C/L Speci	VOL		0.44	12TH TSP	+8.92	
8 110	02/95	Bobbin	NQI		0.58	16TH TSP	-0.16	
9 13	02/95	Bobbin	ODI	18	0.35	11TH TSP	+38.99	
	02/95	Bobbin	ODI	30	1.32	10TH TSP	+21.58	
	02/95	C/L Speci	VOL		0.30	10TH TSP	-5.14	
	02/95	C/L Speci	VOL		1.20	10TH TSP	+21.49	
9 16	02/95	Bobbin	ODI	11	0.81	1ST TSP	+15.50	
	02/95	H/L Speci	VOL		0.83	2ND TSP	-4.15	
9 23	02/95	Bobbin	NQI		0.37	13TH TSP	+17.59	
	02/95	Bobbin	ODI	15	0.70	5TH TSP	-0.08	
	02/95	Bobbin	ODI	44	0.32	3RD TSP	+0.12	
	02/95	C/L Speci	VOL		0.41	12TH TSP	-4.61	
9 25	02/95	Bobbin	NQI		0.33	18TH TSP	+6.73	
	02/95	C/L Speci	VOL		0.38	18TH TSP	+7.08	
	02/95	C/L Speci	VOL		0.51	18TH TSP	+0.93	
9 27	02/95	Bobbin	ODI	90	0.24	3RD TSP	+0.12	
9 34	02/95	Bobbin	ODI	7	0.85	10TH TSP	+28.79	
	02/95	C/L Speci	VOL		0.61	10TH TSP	+28.95	
9 41	02/95	Bobbin	NQI		6.05	9TH TSP	+8.46	
9 47	02/95	Bobbin	ODI	10	0.95	22ND TSP	+12.84	
	02/95	C/L Speci	VOL		0.12	22ND TSP	+13.03	
9 58	02/95	Bobbin	ODI	8	0.94	TTS-HL	+1.45	
	02/95	Bobbin	ODI	20	0.40	TTS-HL	+0.94	
	02/95	Bobbin	ODI	21	0.74	TTS-HL	+2.09	
	02/95	Bobbin	ODI	8	0.69	18TH TSP	+16.62	
	02/95	H/L Tubes	VOL		0.88	TTS-HL	-1.57	
	02/95	H/L Speci	VOL		1.13	TTS-HL	+2.23	
	02/95	H/L Speci	VOL		2.25	TTS-HL	+1.30	
	02/95	C/L Speci	VOL		0.30	17TH TSP	-5.39	
9 59	02/95	Bobbin	ODI	2	0.92	6TH TSP	+22.76	
	02/95	Bobbin	ODI	5	2.27	6TH TSP	+24.24	
	02/95	H/L Speci	VOL		0.35	7TH TSP	-16.04	
	02/95	H/L Speci	VOL		0.48	7TH TSP	-21.47	
	02/95	H/L Speci	VOL		0.70	7TH TSP	-19.55	
	02/95	H/L Speci	VOL		0.77	7TH TSP	-19.96	
9 60	02/95	Bobbin	NQI		0.35	6TH TSP	+38.24	
	02/95	Bobbin	NQI		0.81	6TH TSP	+39.44	
	02/95	Bobbin	ODI	12	2.08	4TH TSP	+30.57	
	02/95	Bobbin	ODI	17	1.28	4TH TSP	+21.19	
	02/95	Bobbin	ODI	24	0.30	4TH TSP	+18.21	
	02/95	Bobbin	ODI	24	1.18	3RD TSP	+23.70	
	02/95	Bobbin	ODI	26	0.39	4TH TSP	+15.94	
	02/95	Bobbin	ODI	30	0.56	4TH TSP	+19.62	
	02/95	H/L Speci	VOL		0.30	4TH TSP	+7.17	
	02/95	H/L Speci	VOL		0.37	7TH TSP	-1.75	
	02/95	H/L Speci	VOL		0.38	7TH TSP	-3.23	
	02/95	H/L Speci	VOL		0.38	7TH TSP	-6.57	
	02/95	H/L Speci	VOL		0.40	3RD TSP	+23.75	
	02/95	H/L Speci	VOL		0.45	4TH TSP	+19.24	
	02/95	H/L Speci	VOL		0.59	7TH TSP	-5.34	
	02/95	H/L Speci	VOL		0.71	4TH TSP	+20.74	
	02/95	H/L Speci	VOL		0.43	4TH TSP	+15.21	to +*

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

9	64	02/95	Bobbin	ODI	36	0.31	2ND TSP	+0.19
9	65	02/95	Bobbin	ODI	17	0.80	5TH TSP	+29.83
		02/95	Bobbin	ODI	21	0.31	2ND TSP	+0.18
		02/95	Bobbin	ODI	28	0.47	3RD TSP	+0.15
		02/95	H/L Speci	VOL		0.54	6TH TSP	-13.95
9	70	02/95	Bobbin	ODI	11	0.38	3RD TSP	+0.16
9	76	02/95	H/L Tubes	VOL		1.05	TTS-HL	-1.82
9	78	02/95	H/L Tubes	VOL		0.80	TTS-HL	-3.21
9	83	02/95	Bobbin	NQI		0.65	8TH TSP	+11.18
		02/95	U-Bend	VOL		1.09	8TH TSP	+11.09
		02/95	H/L Tubes	VOL		0.83	TTS-HL	-0.38
9	84	02/95	Bobbin	NQI		1.31	1AVB	-1.02
		02/95	U-Bend	VOL		1.37	1AVB	-1.90
9	87	02/95	Bobbin	ODI	17	0.58	3RD TSP	+0.14
		02/95	Bobbin	ODI	28	0.29	2ND TSP	+0.07
9	89	02/95	Bobbin	ODI	20	0.87	3RD TSP	+0.19
		02/95	Bobbin	ODI	26	0.52	2ND TSP	+0.16
		02/95	Bobbin	ODI	30	0.37	4TH TSP	+0.26
9	90	02/95	Bobbin	ODI	43	0.27	2ND TSP	+0.16
9	92	02/95	Bobbin	ODI	76	0.29	4TH TSP	+0.20
9	96	02/95	Bobbin	ODI	5	0.50	2ND TSP	+0.08
9	98	02/95	Bobbin	NQI		0.39	7TH TSP	+22.11
		02/95	H/L Speci	VOL		0.25	7TH TSP	+22.00
9	100	02/95	Bobbin	ODI	44	0.36	4TH TSP	+0.08
9	105	02/95	Bobbin	NQI		6.36	TE-HL	+8.76
		02/95	Bobbin	ODI	95	0.46	3RD TSP	+0.12
		02/95	H/L Speci	MAI		1.90	TE-HL	+7.42
		02/95	H/L Speci	SAI		0.34	2ND TSP	+0.32
		02/95	H/L Speci	VOL		0.42	1ST TSP	-0.01
9	107	02/95	Bobbin	ODI	24	0.36	6TH TSP	+0.05
		02/95	Bobbin	ODI	37	0.36	3RD TSP	+0.15
9	109	02/95	Bobbin	ODI	1	0.45	2ND TSP	+0.17
		02/95	Bobbin	ODI	18	0.26	7TH TSP	-0.21
		02/95	Bobbin	ODI	30	0.25	6TH TSP	-0.21
9	111	02/95	Bobbin	ODI	9	0.26	2ND TSP	+0.05
10	2	02/95	Bobbin	ODI	98	0.56	3RD TSP	+0.00
10	6	02/95	Bobbin	ODI	14	0.52	2ND TSP	+0.17
10	8	02/95	Bobbin	ODI	1	1.12	3RD TSP	+28.53
		02/95	H/L Speci	VOL		0.42	4TH TSP	-14.13
10	11	02/95	H/L Speci	VOL		0.43	6TH TSP	+15.40
		02/95	H/L Speci	VOL		0.61	6TH TSP	+13.99
10	14	02/95	Bobbin	ODI	15	0.60	2ND TSP	+0.25
10	15	02/95	Bobbin	ODI	13	0.69	12TH TSP	+3.21
		02/95	C/L Speci	VOL		0.51	12TH TSP	+3.50
10	18	02/95	H/L Speci	VOL		0.52	8TH TSP	-11.65
10	19	02/95	Bobbin	NQI		5.11	TE-HL	+15.94
10	21	02/95	Bobbin	ODI	15	0.72	2ND TSP	+0.29
		02/95	Bobbin	ODI	16	0.33	12TH TSP	+14.57
		02/95	C/L Speci	VOL		0.25	12TH TSP	+14.59
10	24	02/95	Bobbin	ODI	4	0.85	5TH TSP	+0.07
		02/95	Bobbin	ODI	10	0.98	3RD TSP	+0.00
		02/95	Bobbin	ODI	28	0.60	2ND TSP	+0.14
10	25	02/95	Bobbin	ODI	25	0.60	3RD TSP	+0.15
10	27	02/95	Bobbin	ODI	14	0.96	13TH TSP	+8.35
		02/95	C/L Speci	VOL		0.19	13TH TSP	+8.37
10	30	02/95	Bobbin	ODI	16	0.42	5TH TSP	+0.33
10	33	02/95	Bobbin	ODI	21	1.07	3RD TSP	+19.41
		02/95	Bobbin	ODI	18	0.39	10TH TSP	+18.37
		02/95	H/L Speci	VOL		0.51	3RD TSP	+20.15
10	37	02/95	C/L Speci	VOL		0.37	13TH TSP	+18.25
10	42	02/95	Bobbin	NQI		1.92	TE-CL	+16.16
		02/95	H/L Tubes	VOL		0.74	TTS-HL	-2.04
10	45	02/95	C/L Speci	VOL		0.13	10TH TSP	+13.75
10	46	02/95	Bobbin	NQI		3.78	TE-CL	+16.86
10	48	02/95	Bobbin	ODI	6	0.32	2ND TSP	+0.00

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	12	0.41	16TH TSP	+5.71		
10	49	02/95	Bobbin	ODI	8	0.38	2ND TSP	+0.07		
10	55	02/95	Bobbin	ODI	12	0.52	12TH TSP	+4.83		
		02/95	H/L Speci	VOL		0.43	4TH TSP	-12.09		
10	57	02/95	Bobbin	ODI	9	0.76	3RD TSP	+0.23		
10	58	02/95	Bobbin	ODI	22	0.33	11TH TSP	+22.25		
		02/95	C/L Speci	VOL		0.07	11TH TSP	+21.80		
10	59	02/95	Bobbin	ODI	55	0.29	5TH TSP	+0.08		
10	64	02/95	Bobbin	ODI	58	0.25	5TH TSP	+0.16		
		02/95	H/L Speci	VOL		0.46	2ND TSP	+2.08		
		02/95	H/L Speci	VOL		0.72	2ND TSP	+1.30		
10	68	02/95	H/L Tubes	VOL		0.73	TTS-HL	+2.32		
10	75	02/95	H/L Speci	VOL		0.75	3RD TSP	+20.89		
10	79	02/95	H/L Speci	VOL		0.52	5TH TSP	-7.39	to	*
		02/95	H/L Speci	VOL		0.67	5TH TSP	-24.54	to	-*
10	83	02/95	Bobbin	ODI	32	0.18	5TH TSP	+0.02		
10	84	02/95	C/L Speci	VOL		0.37	11TH TSP	+14.65		
10	89	02/95	Bobbin	NQI		1.34	10TH TSP	+9.88		
10	91	02/95	H/L Speci	VOL		1.20	5TH TSP	-0.12		
10	93	02/95	Bobbin	NQI		0.17	18TH TSP	-0.11		
		02/95	Bobbin	ODI	12	1.13	3RD TSP	+32.16		
		02/95	H/L Speci	VOL		0.66	4TH TSP	-11.37		
10	99	02/95	C/L Speci	VOL		0.74	9TH TSP	-6.15		
10	100	02/95	Bobbin	ODI	13	1.10	13TH TSP	+9.70		
		02/95	C/L Speci	VOL		0.78	13TH TSP	+9.31		
10	110	02/95	Bobbin	ODI	25	0.44	13TH TSP	+13.38		
		02/95	C/L Speci	VOL		0.71	13TH TSP	+13.38		
11	8	02/95	Bobbin	ODI	86	0.51	5TH TSP	+0.16		
11	9	02/95	Bobbin	ODI	16	2.11	15TH TSP	+2.42		
		02/95	C/L Speci	VOL		0.71	15TH TSP	+2.68		
11	15	02/95	H/L Speci	VOL		2.34	TTS-HL	+5.84		
11	17	02/95	Bobbin	ODI	1	0.41	2ND TSP	+0.10		
11	25	02/95	Bobbin	ODI	3	0.99	3RD TSP	+7.60		
11	32	02/95	Bobbin	ODI	34	0.43	2ND TSP	+0.26		
		02/95	Bobbin	ODI	90	0.33	4TH TSP	+0.08		
11	39	02/95	Bobbin	ODI	12	0.31	3RD TSP	+0.13		
		02/95	Bobbin	ODI	58	0.21	5TH TSP	+0.11		
		02/95	Bobbin	ODI	13	0.75	14TH TSP	+1.86		
		02/95	C/L Speci	VOL		0.24	14TH TSP	+2.04		
11	43	02/95	C/L Speci	VOL		0.24	16TH TSP	+6.41		
11	49	02/95	Bobbin	ODI	10	0.64	3RD TSP	+0.16		
11	66	02/95	Bobbin	ODI	9	0.32	2ND TSP	+0.12		
11	69	02/95	Bobbin	ODI	2	1.18	2ND TSP	+3.01		
		02/95	Bobbin	ODI	5	0.46	2ND TSP	+15.11		
		02/95	Bobbin	ODI	16	0.31	2ND TSP	+20.66		
		02/95	H/L Speci	VOL		0.34	2ND TSP	+16.41		
		02/95	H/L Speci	VOL		0.49	2ND TSP	+3.36		
		02/95	H/L Speci	VOL		0.60	2ND TSP	+20.27		
		02/95	H/L Speci	VOL		0.75	2ND TSP	+8.37		
11	70	02/95	Bobbin	ODI	25	0.26	5TH TSP	+0.14		
11	73	02/95	Bobbin	ODI	35	0.17	3RD TSP	+0.12		
11	74	02/95	H/L Speci	VOL		1.16	7TH TSP	-0.06		
		02/95	H/L Speci	VOL		1.49	7TH TSP	-14.70		
		02/95	H/L Speci	VOL		1.55	7TH TSP	-20.44		
11	78	02/95	Bobbin	ODI	27	0.25	3RD TSP	+0.12		
11	81	02/95	Bobbin	ODI	62	0.18	3RD TSP	+0.16		
11	84	02/95	Bobbin	ODI	17	0.67	7TH TSP	-0.37		
11	86	02/95	Bobbin	ODI	3	0.37	6TH TSP	-0.15		
11	88	02/95	Bobbin	NQI		0.62	5TH TSP	+37.97		
		02/95	H/L Speci	VOL		1.61	6TH TSP	-5.56		
11	93	02/95	Bobbin	ODI	10	0.18	2ND TSP	+0.18		
11	96	02/95	Bobbin	ODI	1	0.18	4TH TSP	+0.21		
11	97	02/95	Bobbin	ODI	7	0.19	6TH TSP	+0.13		
		02/95	Bobbin	ODI	61	0.22	5TH TSP	+0.05		
11	98	02/95	Bobbin	ODI	80	0.30	5TH TSP	+0.00		

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION
11	99	02/95	Bobbin	ODI	25	0.21	3RD TSP +0.13
		02/95	Bobbin	ODI	34	0.41	5TH TSP +0.21
		02/95	Bobbin	ODI	45	0.21	2ND TSP +0.17
11	102	02/95	Bobbin	ODI	3	0.37	3RD TSP +0.18
11	108	02/95	Bobbin	ODI	12	1.52	4TH TSP +27.75
		02/95	Bobbin	ODI	7	1.20	11TH TSP +8.75
		02/95	H/L Spec	VOL		1.02	5TH TSP -16.42
		02/95	C/L Spec	VOL		0.45	11TH TSP +8.30
11	112	02/95	Bobbin	ODI	21	0.43	3RD TSP +0.13
11	113	02/95	U-Bend	VOL		1.42	1AVB +2.03
		02/95	Bobbin	ODI	35	2.19	1AVB +2.03
12	9	02/95	Bobbin	ODI	92	0.58	2ND TSP +0.08
12	10	02/95	Bobbin	ODI	19	0.43	16TH TSP -0.05
12	11	02/95	Bobbin	ODI	8	0.20	2ND TSP +0.05
		02/95	Bobbin	ODI	90	0.25	3RD TSP +0.11
12	12	02/95	C/L Spec	VOL		0.27	21ST TSP +1.71
12	16	02/95	C/L Spec	VOL		0.41	20TH TSP +6.75
12	19	02/95	Bobbin	ODI	8	0.31	2ND TSP +0.13
12	21	02/95	Bobbin	ODI	23	0.61	4TH TSP +0.05
		02/95	Bobbin	ODI	98	0.24	5TH TSP +0.03
12	26	02/95	Bobbin	ODI	72	0.37	4TH TSP +0.05
		02/95	C/L Spec	VOL		0.33	22ND TSP +7.30
12	33	02/95	Bobbin	NQI		0.43	7TH TSP +17.86
		02/95	Bobbin	NQI		0.44	7TH TSP +14.40
		02/95	H/L Spec	VOL		0.22	7TH TSP +15.26
		02/95	H/L Spec	VOL		0.68	7TH TSP +18.78
12	58	02/95	Bobbin	ODI	4	0.30	6TH TSP +0.16
		02/95	Bobbin	ODI	23	0.70	4TH TSP +12.41
		02/95	H/L Spec	VOL		0.49	4TH TSP +12.85
12	64	02/95	Bobbin	ODI	19	1.04	3RD TSP +1.38
		02/95	H/L Spec	VOL		0.57	3RD TSP +2.35
12	66	02/95	H/L Spec	VOL		0.31	4TH TSP +10.23
12	67	02/95	Bobbin	ODI	23	0.41	2ND TSP +0.13
12	68	02/95	Bobbin	ODI	12	0.51	3RD TSP +13.13
		02/95	Bobbin	ODI	90	0.28	3RD TSP +0.11
		02/95	H/L Spec	SAI		0.19	3RD TSP -0.02
		02/95	H/L Spec	VOL		0.16	3RD TSP +12.63
12	78	02/95	Bobbin	ODI	48	0.58	5TH TSP +0.00
		02/95	Bobbin	ODI	62	0.16	4TH TSP +0.00
12	85	02/95	Bobbin	ODI	1	0.62	2ND TSP +13.81
		02/95	H/L Spec	VOL		0.23	2ND TSP +12.84
12	86	02/95	H/L Spec	VOL		1.68	1ST TSP +1.86 to **
12	91	02/95	Bobbin	ODI	11	1.48	1ST TSP +17.73
		02/95	Bobbin	ODI	14	1.02	6TH TSP +10.44
		02/95	H/L Spec	VOL		0.64	6TH TSP +11.17
		02/95	H/L Spec	VOL		0.98	2ND TSP -2.39
12	92	02/95	Bobbin	ODI	7	0.86	10TH TSP +41.04
		02/95	C/L Spec	VOL		0.50	9TH TSP -2.93
12	97	02/95	Bobbin	ODI	10	0.40	6TH TSP +29.86
		02/95	H/L Spec	VOL		0.34	3RD TSP +0.23
		02/95	H/L Spec	VOL		0.36	7TH TSP -3.70
		02/95	H/L Spec	VOL		0.47	7TH TSP -10.26
		02/95	H/L Spec	VOL		0.73	7TH TSP -14.17
12	102	02/95	Bobbin	ODI	26	0.13	4TH TSP +0.03
		02/95	H/L Tubes	SAI		0.84	TTS-HL -2.22
12	107	02/95	Bobbin	ODI	4	0.21	6TH TSP +0.03
		02/95	C/L Spec	VOL		0.50	22ND TSP +17.31
12	108	02/95	Bobbin	NQI	23.31		TE-HL +17.21
		02/95	Bobbin	ODI	1	0.63	8TH TSP -0.11
		02/95	H/L Spec	MAI		2.00	TTS-HL -3.94
12	113	02/95	Bobbin	ODI	8	1.14	4TH TSP +37.04
		02/95	H/L Spec	VOL		0.21	5TH TSP -6.86
13	11	02/95	Bobbin	NQI		0.36	3RD TSP +23.13
		02/95	H/L Spec	VOL		3.24	3RD TSP +21.21
13	19	02/95	Bobbin	ODI	84	0.23	5TH TSP +0.02

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
13	22	02/95	Bobbin	ODI	16	0.35	5TH TSP	+31.47
		02/95	H/L Spec	VOL		0.46	6TH TSP	-13.71
13	24	02/95	Bobbin	ODI	17	0.56	11TH TSP	+2.67
		02/95	C/L Spec	VOL		0.55	11TH TSP	+2.72
13	25	02/95	Bobbin	ODI	4	0.50	20TH TSP	+3.28
		02/95	C/L Spec	VOL		0.27	20TH TSP	+3.17
13	30	02/95	Bobbin	NQI		0.51	6TH TSP	+37.44
		02/95	H/L Spec	VOL		0.72	7TH TSP	-7.22
13	32	02/95	Bobbin	ODI	17	0.34	10TH TSP	+17.35
		02/95	C/L Spec	VOL		0.49	10TH TSP	+17.38
13	43	02/95	Bobbin	ODI	33	0.40	5TH TSP	+0.07
13	48	02/95	Bobbin	ODI	15	0.76	3RD TSP	+0.15
13	50	02/95	Bobbin	ODI	19	0.71	2ND TSP	+0.12
		02/95	Bobbin	ODI	41	0.57	5TH TSP	+0.05
13	51	02/95	Bobbin	ODI	17	0.77	2ND TSP	+0.14
		02/95	Bobbin	ODI	31	0.64	5TH TSP	+0.02
		02/95	Bobbin	ODI	41	0.40	6TH TSP	+0.05
13	52	02/95	Bobbin	ODI	15	0.78	3RD TSP	+0.19
13	69	02/95	Bobbin	ODI	28	0.30	3RD TSP	+39.48
		02/95	H/L Spec	VOL		0.73	4TH TSP	-4.96
13	71	02/95	Bobbin	ODI	7	0.43	5TH TSP	+28.97
		02/95	H/L Spec	VOL		1.10	5TH TSP	+28.42
13	74	02/95	Bobbin	ODI	15	0.59	3RD TSP	+2.38
		02/95	Bobbin	ODI	15	0.86	7TH TSP	+30.20
		02/95	H/L Spec	VOL		0.39	3RD TSP	+2.22
		02/95	H/L Spec	VOL		0.78	8TH TSP	-14.82
13	77	02/95	Bobbin	ODI	20	0.41	12TH TSP	+32.74
		02/95	C/L Spec	VOL		0.55	11TH TSP	-11.41
13	88	02/95	Bobbin	ODI	1	0.30	7TH TSP	-0.05
13	92	02/95	Bobbin	ODI	15	0.82	20TH TSP	+6.28
		02/95	C/L Spec	VOL		0.48	20TH TSP	+6.08
13	98	02/95	Bobbin	NQI		0.31	8TH TSP	+4.79
		02/95	Bobbin	NQI		0.32	6TH TSP	+7.17
		02/95	U-Bend	VOL		0.80	8TH TSP	+4.52
		02/95	H/L Spec	VOL		0.60	6TH TSP	+7.26
13	102	02/95	Bobbin	ODI	7	0.55	8TH TSP	-0.11
13	106	02/95	Bobbin	NQI		3.91	9TH TSP	+6.18
13	107	02/95	H/L Spec	VOL		0.99	8TH TSP	-0.07
13	108	02/95	Bobbin	NQI		0.50	5TH TSP	-0.33
13	112	02/95	Bobbin	ODI	8	0.68	7TH TSP	+12.67
		02/95	Bobbin	ODI	11	0.39	7TH TSP	+9.46
		02/95	H/L Spec	VOL		0.33	7TH TSP	+9.04
		02/95	H/L Spec	VOL		0.78	7TH TSP	+12.27
14	8	02/95	Bobbin	ODI	14	0.59	14TH TSP	+1.12
		02/95	C/L Spec	VOL		0.45	14TH TSP	+1.24
14	9	02/95	Bobbin	ODI	94	0.49	4TH TSP	+0.05
14	10	02/95	Bobbin	ODI	15	0.57	11TH TSP	+6.80
		02/95	C/L Spec	VOL		0.29	11TH TSP	+6.46
14	27	02/95	Bobbin	ODI	14	0.86	13TH TSP	+7.33
		02/95	C/L Spec	VOL		0.32	13TH TSP	+7.28
14	33	02/95	Bobbin	ODI	15	0.57	16TH TSP	+6.44
		02/95	C/L Spec	VOL		0.66	16TH TSP	+6.49
14	35	02/95	Bobbin	ODI	16	1.73	2ND TSP	+12.85
		02/95	H/L Spec	VOL		1.27	2ND TSP	+12.29
14	40	02/95	Bobbin	ODI	6	0.58	5TH TSP	+0.14
		02/95	Bobbin	ODI	15	0.70	4TH TSP	+0.18
		02/95	Bobbin	ODI	10	0.20	13TH TSP	+9.24
		02/95	C/L Spec	VOL		0.28	13TH TSP	+9.08
14	44	02/95	Bobbin	ODI	5	0.37	2ND TSP	+0.12
		02/95	Bobbin	ODI	8	0.77	6TH TSP	+15.22
		02/95	H/L Spec	VOL		0.80	6TH TSP	+16.00
		02/95	H/L Spec	VOL		0.81	6TH TSP	+14.18
		02/95	H/L Spec	VOL		0.91	6TH TSP	+15.10
14	49	02/95	Bobbin	ODI	6	1.90	4TH TSP	+21.99
		02/95	Bobbin	ODI	35	0.35	3RD TSP	+0.10

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Spec	VOL		0.48	4TH TSP	+23.48
14	54	02/95	Bobbin	ODI	11	0.89	11TH TSP	+3.82
		02/95	Bobbin	ODI	17	1.10	12TH TSP	+34.21
		02/95	C/L Spec	VOL		0.52	11TH TSP	-10.01
		02/95	C/L Spec	VOL		0.57	11TH TSP	+3.78
14	61	02/95	Bobbin	ODI	7	0.62	3RD TSP	+6.52
		02/95	Bobbin	ODI	8	0.60	3RD TSP	+5.13
		02/95	Bobbin	ODI	16	0.72	3RD TSP	+15.39
		02/95	H/L Spec	VOL		0.33	3RD TSP	+5.60
		02/95	H/L Spec	VOL		0.45	3RD TSP	+7.01
		02/95	H/L Spec	VOL		0.57	3RD TSP	+15.46
14	62	02/95	Bobbin	ODI	65	0.29	2ND TSP	+0.11
14	63	02/95	Bobbin	ODI	24	0.15	4TH TSP	+0.00
14	64	02/95	Bobbin	ODI	17	0.46	3RD TSP	+9.88
14	65	02/95	Bobbin	NQI		1.02	9TH TSP	+13.61
		02/95	Bobbin	ODI	7	0.98	4TH TSP	+7.89
		02/95	Bobbin	ODI	11	0.80	2ND TSP	+20.87
		02/95	Bobbin	ODI	13	1.80	20TH TSP	+2.77
		02/95	C/L Spec	VOL		0.64	20TH TSP	+2.97
14	67	02/95	Bobbin	NQI		0.56	10TH TSP	+21.69
		02/95	C/L Spec	VOL		0.31	10TH TSP	+26.51
		02/95	C/L Spec	VOL		0.38	10TH TSP	+21.95
14	68	02/95	H/L Spec	VOL		0.39	6TH TSP	+31.51
		02/95	H/L Spec	VOL		0.43	6TH TSP	+30.34
14	69	02/95	Bobbin	ODI	15	1.37	14TH TSP	+3.42
		02/95	C/L Spec	VOL		0.62	14TH TSP	+3.52
14	71	02/95	H/L Spec	VOL		0.72	4TH TSP	+17.74
14	73	02/95	Bobbin	ODI	27	0.59	2ND TSP	+10.13
		02/95	H/L Spec	VOL		0.54	2ND TSP	+11.30
14	75	02/95	Bobbin	NQI		9.22	TE-HL	+12.57
14	76	02/95	Bobbin	ODI	12	0.23	7TH TSP	+12.45
		02/95	Bobbin	ODI	12	0.15	12TH TSP	+8.87
		02/95	H/L Spec	VOL		0.54	7TH TSP	+13.31
		02/95	C/L Spec	VOL		0.27	12TH TSP	+9.16
14	79	02/95	Bobbin	ODI	18	0.64	2ND TSP	+6.37
		02/95	H/L Spec	VOL		0.34	2ND TSP	+12.63
		02/95	H/L Spec	VOL		0.82	2ND TSP	+6.63
14	81	02/95	Bobbin	ODI	8	0.76	4TH TSP	+34.13
		02/95	H/L Spec	VOL		0.79	5TH TSP	-10.24
14	85	02/95	Bobbin	ODI	17	1.49	13TH TSP	+8.35
		02/95	C/L Spec	VOL		1.06	13TH TSP	+8.26
14	89	02/95	Bobbin	ODI	7	0.69	12TH TSP	+4.41
		02/95	C/L Spec	VOL		0.46	12TH TSP	+4.46
14	91	02/95	Bobbin	ODI	4	0.47	3RD TSP	+6.81
		02/95	Bobbin	ODI	7	1.04	6TH TSP	+25.31
		02/95	Bobbin	ODI	8	0.78	6TH TSP	+22.11
		02/95	H/L Spec	VOL		0.44	3RD TSP	+10.92
		02/95	H/L Spec	VOL		0.60	3RD TSP	+7.19
		02/95	H/L Spec	VOL		0.80	6TH TSP	+21.92
		02/95	H/L Spec	VOL		1.03	6TH TSP	+25.12
14	104	02/95	Bobbin	ODI	25	0.44	3RD TSP	-0.10
		02/95	Bobbin	ODI	33	0.17	8TH TSP	-0.10
14	106	02/95	Bobbin	ODI	19	0.33	3RD TSP	+0.05
14	108	02/95	Bobbin	ODI	2	0.72	5TH TSP	+33.61
		02/95	Bobbin	ODI	2	0.78	5TH TSP	+30.83
		02/95	Bobbin	ODI	4	0.74	5TH TSP	+26.73
		02/95	H/L Spec	VOL		0.27	6TH TSP	-16.77
		02/95	H/L Spec	VOL		0.29	6TH TSP	-10.09
		02/95	H/L Spec	VOL		0.32	6TH TSP	-12.69
		02/95	H/L Spec	VOL		0.71	6TH TSP	-0.27
15	5	02/95	Bobbin	NQI		3.85	12TH TSP	+16.09
		02/95	C/L Spec	SAI		1.74	12TH TSP	+15.94
15	13	02/95	Bobbin	ODI	6	0.93	14TH TSP	+7.83
		02/95	Bobbin	ODI	18	0.36	15TH TSP	+7.94
		02/95	C/L Spec	VOL		0.16	15TH TSP	+8.23

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Spec	VOL		0.56	14TH TSP	+7.09
15	14	02/95	Bobbin	ODI	46	0.26	2ND TSP	+0.05
		02/95	Bobbin	ODI	5	0.79	15TH TSP	+6.88
		02/95	Bobbin	ODI	13	0.84	22ND TSP	+2.23
		02/95	H/L Spec	VOL		0.40	7TH TSP	-8.37
		02/95	H/L Spec	VOL		0.59	7TH TSP	-4.80
		02/95	H/L Spec	VOL		0.99	7TH TSP	-6.10
		02/95	C/L Spec	VOL		0.33	15TH TSP	+8.01
		02/95	C/L Spec	VOL		0.45	22ND TSP	+2.23
15	18	02/95	Bobbin	ODI	32	0.71	3RD TSP	+0.10
15	26	02/95	Bobbin	ODI	16	0.22	20TH TSP	+6.15
		02/95	C/L Spec	VOL		0.17	20TH TSP	+6.06
15	28	02/95	C/L Spec	VOL		0.55	22ND TSP	+4.75
		02/95	C/L Spec	VOL		0.84	22ND TSP	+3.25
15	32	02/95	Bobbin	ODI	10	0.50	12TH TSP	+14.48
		02/95	C/L Spec	VOL		0.37	12TH TSP	+14.25
15	37	02/95	Bobbin	ODI	68	0.35	3RD TSP	-0.07
15	40	02/95	Bobbin	ODI	9	1.10	12TH TSP	+28.83
		02/95	Bobbin	ODI	10	0.69	13TH TSP	+11.18
		02/95	C/L Spec	VOL		0.40	13TH TSP	+11.13
		02/95	C/L Spec	VOL		0.48	11TH TSP	-15.63
15	50	02/95	Bobbin	ODI	13	0.30	11TH TSP	+33.04
15	52	02/95	Bobbin	ODI	18	0.27	14TH TSP	+9.09
15	63	02/95	Bobbin	ODI	10	0.29	2ND TSP	+0.09
		02/95	Bobbin	ODI	19	0.67	2ND TSP	+5.24
		02/95	Bobbin	ODI	22	1.04	2ND TSP	+10.46
		02/95	H/L Spec	VOL		0.29	2ND TSP	+7.76
		02/95	H/L Spec	VOL		0.46	2ND TSP	+5.82
		02/95	H/L Spec	VOL		0.87	2ND TSP	+0.12
		02/95	H/L Spec	VOL		0.90	2ND TSP	+10.64
15	65	02/95	Bobbin	ODI	13	0.25	6TH TSP	+0.07
15	71	02/95	Bobbin	ODI	21	0.33	13TH TSP	+9.63
		02/95	C/L Spec	VOL		0.10	13TH TSP	+9.65
15	75	02/95	Bobbin	ODI	19	0.95	16TH TSP	+9.07
		02/95	C/L Spec	VOL		0.94	16TH TSP	+9.55
15	80	02/95	Bobbin	ODI	2	0.48	5TH TSP	-0.10
15	87	02/95	Bobbin	NQI		11.89	TE-HL	+12.11
		02/95	H/L Spec	MAI		4.15	TE-HL	+11.88
15	91	02/95	Bobbin	ODI	8	0.63	3RD TSP	+10.00
		02/95	H/L Tubes	MAI		1.64	TTS-HL	-3.24
		02/95	H/L Spec	VOL		0.85	3RD TSP	+10.14
15	93	02/95	C/L Spec	VOL		0.14	11TH TSP	+17.23
15	103	02/95	Bobbin	ODI	3	0.69	13TH TSP	+18.24
		02/95	C/L Spec	VOL		0.77	12TH TSP	-3.81
15	108	02/95	Bobbin	ODI	2	0.99	12TH TSP	+25.51
		02/95	C/L Spec	VOL		0.40	11TH TSP	-18.54
15	111	02/95	Bobbin	ODI	7	1.18	2ND TSP	+17.51
		02/95	H/L Spec	VOL		0.73	3RD TSP	-6.79
16	10	02/95	Bobbin	ODI	98	0.30	4TH TSP	+0.05
16	13	02/95	Bobbin	ODI	12	0.47	16TH TSP	+2.82
		02/95	C/L Spec	VOL		0.19	16TH TSP	+2.91
16	18	02/95	Bobbin	ODI	19	1.11	1ST TSP	+6.18
		02/95	H/L Spec	VOL		1.57	1ST TSP	+6.51
16	24	02/95	Bobbin	ODI	8	0.71	2ND TSP	+0.05
16	25	02/95	Bobbin	ODI	5	0.91	4TH TSP	+0.07
16	26	02/95	Bobbin	ODI	14	0.72	3RD TSP	+0.27
		02/95	Bobbin	ODI	18	0.96	2ND TSP	-0.07
16	43	02/95	Bobbin	ODI	9	0.47	22ND TSP	+12.19
		02/95	C/L Spec	VOL		0.29	22ND TSP	+16.47
		02/95	C/L Spec	VOL		0.36	22ND TSP	+12.08
16	48	02/95	Bobbin	ODI	14	0.67	13TH TSP	+2.28
		02/95	C/L Spec	VOL		0.54	13TH TSP	+2.37
16	59	02/95	C/L Spec	VOL		0.49	11TH TSP	-2.08
16	63	02/95	Bobbin	ODI	9	1.18	8TH TSP	-0.10
		02/95	Bobbin	ODI	18	0.55	3RD TSP	+0.31

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02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	29	0.20	2ND TSP	+0.03
16	64	02/95	Bobbin	ODI	14	0.76	2ND TSP	+8.52
		02/95	H/L Speci	VOL		0.71	2ND TSP	+8.58
16	65	02/95	Bobbin	NQI		0.57	3RD TSP	+4.07
		02/95	Bobbin	NQI		1.11	7TH TSP	+39.83
		02/95	H/L Speci	VOL		0.52	8TH TSP	-3.34
		02/95	H/L Speci	VOL		0.60	3RD TSP	+4.30
16	75	02/95	Bobbin	ODI	18	0.24	2ND TSP	+0.07
16	78	02/95	Bobbin	NQI		3.26	1AVB	+6.87
		02/95	U-Bend	VOL		0.95	1AVB	+6.83
16	91	02/95	Bobbin	NQI		0.20	7TH TSP	+13.24
		02/95	H/L Speci	VOL		0.20	7TH TSP	+12.76
16	95	02/95	Bobbin	ODI	10	1.23	5TH TSP	+21.95
		02/95	H/L Speci	VOL		2.32	5TH TSP	+22.61
16	96	02/95	Bobbin	ODI	8	0.39	7TH TSP	-0.13
16	98	02/95	Bobbin	ODI	47	0.14	7TH TSP	+0.10
16	103	02/95	Bobbin	ODI	4	0.85	8TH TSP	+0.13
16	109	02/95	Bobbin	ODI	29	0.45	4TH TSP	+0.10
17	6	02/95	Bobbin	ODI	12	0.82	5TH TSP	+0.00
		02/95	Bobbin	ODI	15	0.51	7TH TSP	+7.58
		02/95	H/L Speci	VOL		0.51	7TH TSP	+8.10
17	15	02/95	Bobbin	ODI	23	0.52	4TH TSP	+0.00
		02/95	Bobbin	ODI	30	0.55	5TH TSP	+0.00
17	16	02/95	C/L Speci	VOL		0.52	17TH TSP	-6.12
17	21	02/95	Bobbin	ODI	4	1.03	6TH TSP	+8.92
		02/95	Bobbin	ODI	15	1.20	6TH TSP	+11.19
		02/95	H/L Speci	VOL		1.30	6TH TSP	+9.75
		02/95	H/L Speci	VOL		1.44	6TH TSP	+12.24
17	24	02/95	Bobbin	ODI	13	0.25	3RD TSP	+0.12
17	25	02/95	Bobbin	ODI	14	1.05	5TH TSP	+40.56
		02/95	H/L Speci	VOL		10.38	6TH TSP	-2.22
17	36	02/95	H/L Speci	VOL		0.13	5TH TSP	+14.72
17	37	02/95	C/L Speci	VOL		0.18	12TH TSP	+11.26
17	41	02/95	Bobbin	NQI		0.46	13TH TSP	+8.52
		02/95	C/L Speci	VOL		0.71	13TH TSP	+8.30
17	47	02/95	Bobbin	ODI	22	0.92	3RD TSP	+0.00
17	48	02/95	Bobbin	ODI	30	1.89	15TH TSP	+3.86
		02/95	C/L Speci	VOL		1.03	15TH TSP	+3.73
17	55	02/95	Bobbin	ODI	31	0.20	7TH TSP	+0.13
17	56	02/95	Bobbin	ODI	7	0.46	18TH TSP	+5.28
		02/95	C/L Speci	VOL		0.34	18TH TSP	+5.35
17	59	02/95	U-Bend	VOL		1.84	1AVB	+7.79
17	64	02/95	Bobbin	ODI	22	0.41	14TH TSP	+1.28
		02/95	C/L Speci	VOL		0.10	14TH TSP	+1.29
17	71	02/95	Bobbin	ODI	1	0.33	3RD TSP	+0.02
17	76	02/95	Bobbin	ODI	12	0.62	4TH TSP	+26.42
		02/95	Bobbin	ODI	35	0.36	3RD TSP	-0.07
		02/95	H/L Speci	VOL		0.44	2ND TSP	+8.54
		02/95	H/L Speci	VOL		0.49	5TH TSP	-17.93
17	79	02/95	Bobbin	NQI		0.71	5TH TSP	+32.15
		02/95	H/L Speci	VOL		0.67	6TH TSP	-11.74
17	80	02/95	Bobbin	ODI	17	0.14	2ND TSP	+0.24
		02/95	Bobbin	ODI	23	0.98	3RD TSP	+2.76
		02/95	Bobbin	ODI	46	0.29	7TH TSP	+0.07
		02/95	H/L Speci	VOL		0.57	3RD TSP	+2.99
17	82	02/95	Bobbin	ODI	31	0.30	2ND TSP	+0.14
17	85	02/95	Bobbin	NQI		0.74	4TH TSP	+11.87
		02/95	Bobbin	ODI	6	0.83	4TH TSP	+15.43
		02/95	Bobbin	ODI	7	0.88	4TH TSP	+24.10
		02/95	Bobbin	ODI	8	0.65	4TH TSP	+28.03
		02/95	Bobbin	ODI	77	0.51	2ND TSP	+0.12
		02/95	H/L Speci	VOL		0.67	4TH TSP	+23.61
		02/95	H/L Speci	VOL		1.06	4TH TSP	+27.90
		02/95	H/L Speci	VOL		1.07	4TH TSP	+23.60
		02/95	H/L Speci	VOL		1.12	4TH TSP	+11.77

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
		02/95	H/L Speci	VOL		1.47	4TH TSP	+15.63
17	86	02/95	Bobbin	ODI	3	0.50	13TH TSF	+9.73
		02/95	C/L Speci	VOL		0.18	13TH TSP	+9.41
17	102	02/95	Bobbin	ODI	16	0.41	3RD TSP	-0.05
		02/95	Bobbin	ODI	30	0.45	2ND TSP	+0.05
		02/95	Bobbin	ODI	72	0.32	7TH TSP	+0.05
17	106	02/95	Bobbin	NQI		29.89	TTS-CL	-0.13
18	5	02/95	Bobbin	ODI	11	2.40	7TH TSP	+30.39
		02/95	H/L Speci	VOL		1.34	8TH TSP	-14.37
18	6	02/95	Bobbin	ODI	12	0.82	10TH TSP	+16.15
18	15	02/95	Bobbin	ODI	16	0.21	3RD TSP	+0.12
18	20	02/95	Bobbin	ODI	14	1.29	18TH TSP	+18.07
		02/95	C/L Speci	VOL		0.70	17TH TSP	-4.10
18	27	02/95	Bobbin	ODI	20	1.71	15TH TSP	+9.22
18	36	02/95	Bobbin	NQI		0.33	18TH TSP	+5.06
		02/95	C/L Speci	VOL		0.20	18TH TSP	+5.35
		02/95	C/L Speci	VOL		0.26	18TH TSP	+2.39
18	38	02/95	Bobbin	ODI	16	0.77	21ST TSP	+2.41
		02/95	C/L Speci	VOL		0.35	21ST TSP	+2.61
18	39	02/95	Bobbin	ODI	2	0.29	5TH TSP	-0.29
		02/95	C/L Speci	VOL		0.31	21ST TSP	-5.80
18	40	02/95	Bobbin	ODI	7	0.59	7TH TSP	+3.91
		02/95	Bobbin	ODI	12	0.55	7TH TSP	+5.16
		02/95	H/L Speci	VOL		0.14	7TH TSP	+4.26
		02/95	H/L Speci	VOL		0.19	7TH TSP	+7.15
		02/95	H/L Speci	VOL		0.26	7TH TSP	+5.33
18	41	02/95	Bobbin	ODI	4	0.52	2ND TSP	+0.13
18	44	02/95	H/L Tubes	SAI		2.68	TTS-HL	-2.32
18	49	02/95	Bobbin	ODI	50	0.22	7TH TSP	+0.10
		02/95	H/L Speci	VOL		0.16	2ND TSP	-0.94
18	50	02/95	Bobbin	ODI	39	0.40	8TH TSP	-0.11
18	51	02/95	Bobbin	NQI		10.54	TE-HL	+4.67
		02/95	Bobbin	NQI		22.58	TE-HL	+2.45
		02/95	H/L Speci	VOL		12.51	TE-HL	+2.91
		02/95	H/L Speci	SAI		14.76	TE-HL	+5.24
18	53	02/95	Bobbin	ODI	16	0.32	2ND TSP	-0.02
		02/95	Bobbin	ODI	18	1.71	6TH TSP	+32.08
		02/95	H/L Speci	VOL		1.45	7TH TSP	-12.09
18	54	02/95	Bobbin	NQI		0.42	12TH TSP	+33.95
		02/95	C/L Speci	VOL		0.14	11TH TSP	-10.39
18	56	02/95	Bobbin	NQI		9.47	9TH TSP	+8.44
		02/95	Bobbin	NQI		9.68	8TH TSP	+14.48
		02/95	Bobbin	NQI		25.97	8TH TSP	+17.03
		02/95	U-Bend	NQI		4.78	8TH TSP	+15.67
18	57	02/95	Bobbin	ODI	9	1.97	18TH TSP	+19.70
		02/95	C/L Speci	VOL		1.22	17TH TSP	-2.03
18	60	02/95	H/L Speci	VOL		0.98	4TH TSP	-20.38
18	67	02/95	Bobbin	ODI	85	0.35	2ND TSP	+0.11
18	80	02/95	H/L Speci	VOL		0.53	2ND TSP	+6.10
18	81	02/95	Bobbin	ODI	9	0.66	3RD TSP	+20.92
18	91	02/95	H/L Speci	VOL		1.79	4TH TSP	-11.59
18	99	02/95	Bobbin	NQI		0.42	3RD TSP	+0.12
18	106	02/95	Bobbin	ODI	3	1.40	4TH TSP	+11.43
		02/95	H/L Speci	VOL		0.91	4TH TSP	+7.34
		02/95	H/L Speci	VOL		1.65	4TH TSP	+12.79
19	7	02/95	Bobbin	NQI		0.17	13TH TSP	+12.84
		02/95	Bobbin	NQI		0.24	14TH TSP	+5.77
		02/95	Bobbin	NQI		0.51	18TH TSP	+14.57
		02/95	Bobbin	NQI		0.51	18TH TSP	+15.86
		02/95	Bobbin	NQI		0.57	18TH TSP	+11.86
		02/95	Bobbin	ODI	11	0.75	22ND TSP	+14.28
		02/95	Bobbin	ODI	15	1.21	18TH TSP	+7.86
		02/95	C/L Speci	VOL		0.22	18TH TSP	+15.46
		02/95	C/L Speci	VOL		0.28	21ST TSP	-5.91
		02/95	C/L Speci	VOL		0.41	18TH TSP	+7.08

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.45	18TH TSP	+11.62
		02/95	C/L Speci	VOL		0.45	18TH TSP	+14.37
19	9	02/95	Bobbin	ODI	45	0.21	2ND TSP	+0.20
19	10	02/95	Bobbin	ODI	85	0.46	5TH TSP	-0.25
19	12	02/95	Bobbin	ODI	31	0.25	3RD TSP	+0.15
		02/95	Bobbin	ODI	69	0.25	2ND TSP	+0.00
19	27	02/95	Bobbin	NQI		0.86	4AVB	-1.14
		02/95	U-Bend	VOL		0.84	4AVB	-1.23
19	30	02/95	Bobbin	ODI	18	0.59	2ND TSP	+0.21
		02/95	C/L Speci	VOL		0.14	22ND TSP	+0.77
		02/95	C/L Speci	VOL		0.34	22ND TSP	+6.99
19	37	02/95	Bobbin	ODI	62	0.29	3RD TSP	+0.20
19	42	02/95	Bobbin	ODI	21	0.28	3RD TSP	+0.15
19	47	02/95	Bobbin	ODI	13	0.62	10TH TSP	+18.52
		02/95	C/L Speci	VOL		0.29	10TH TSP	+18.79
19	59	02/95	Bobbin	ODI	11	0.15	7TH TSP	+0.00
19	65	02/95	Bobbin	ODI	15	1.43	6TH TSP	+32.28
		02/95	H/L Speci	VOL		0.43	7TH TSP	-4.06
		02/95	H/L Speci	VOL		0.57	7TH TSP	-11.05
19	66	02/95	Bobbin	ODI	19	0.59	4TH TSP	+9.95
		02/95	H/L Speci	VOL		0.27	4TH TSP	+10.47
19	68	02/95	Bobbin	ODI	1	1.80	3RD TSP	+19.48
		02/95	H/L Speci	VOL		0.59	3RD TSP	+21.54
19	77	02/95	Bobbin	ODI	18	0.23	3RD TSP	+0.00
19	86	02/95	Bobbin	ODI	12	3.05	6TH TSP	+19.25
		02/95	H/L Speci	VOL		1.15	6TH TSP	+19.91
19	90	02/95	Bobbin	ODI	3	1.27	4TH TSP	+30.12
		02/95	H/L Speci	VOL		0.60	5TH TSP	-7.83
19	94	02/95	Bobbin	ODI	6	1.58	4TH TSP	+6.29
		02/95	H/L Speci	VOL		1.23	4TH TSP	+6.86
19	101	02/95	Bobbin	ODI	56	0.37	3RD TSP	+0.07
20	8	02/95	Bobbin	ODI	23	0.67	12TH TSP	+37.53
		02/95	C/L Speci	VOL		0.49	11TH TSP	-6.52
20	10	02/95	Bobbin	ODI	19	1.05	18TH TSP	+5.37
		02/95	C/L Speci	VOL		0.69	18TH TSP	+5.35
20	14	02/95	Bobbin	ODI	1	0.38	17TH TSP	+6.71
		02/95	Bobbin	ODI	9	0.86	16TH TSP	+1.94
		02/95	C/L Speci	VOL		0.05	16TH TSP	+1.94
		02/95	C/L Speci	VOL		0.25	17TH TSP	+6.62
20	15	02/95	Bobbin	ODI	16	1.15	7TH TSP	+7.50
		02/95	H/L Speci	VOL		13.81	7TH TSP	+6.65
20	18	02/95	U-Bend	NQI		0.56	4AVB	+7.69
		02/95	Bobbin	ODI	8	0.44	2ND TSP	+0.15
20	24	02/95	U-Bend	VOL		0.51	9TH TSP	+7.37
20	27	02/95	Bobbin	ODI	32	0.39	3RD TSP	-0.02
20	28	02/95	Bobbin	ODI	58	0.49	2ND TSP	+0.19
		02/95	Bobbin	ODI	83	0.39	3RD TSP	+0.00
20	39	02/95	U-Bend	VOL		0.28	8TH TSP	+7.09
20	40	02/95	Bobbin	ODI	21	0.35	2ND TSP	+0.04
20	44	02/95	Bobbin	ODI	1	0.27	2ND TSP	-0.02
20	47	02/95	Bobbin	NQI		6.90	9TH TSP	+4.75
		02/95	Bobbin	NQI		15.09	9TH TSP	+7.36
		02/95	Bobbin	ODI	8	0.47	8TH TSP	-0.03
20	48	02/95	Bobbin	ODI	76	0.24	8TH TSP	+0.00
20	49	02/95	Bobbin	ODI	15	0.33	7TH TSP	+0.10
20	59	02/95	Bobbin	ODI	28	0.36	7TH TSP	+0.00
20	61	02/95	Bobbin	ODI	55	0.19	7TH TSP	+0.05
20	62	02/95	Bobbin	ODI	40	0.19	7TH TSP	+0.00
20	63	02/95	Bobbin	ODI	20	0.18	7TH TSP	+0.00
20	65	02/95	Bobbin	ODI	1	0.63	6TH TSP	+0.00
20	66	02/95	Bobbin	ODI	3	0.86	3RD TSP	+36.57
		02/95	Bobbin	ODI	1	1.78	10TH TSP	+24.52
		02/95	C/L Speci	VOL		0.56	10TH TSP	+24.28
20	78	02/95	Bobbin	NQI		24.25	TE-HL	+13.15
		02/95	H/L Speci	MAI		2.12	TE-HL	+13.68

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

20	80	02/95	Bobbin	ODI	24	2.85	21ST TSP	+6.29
		02/95	C/L Spec	VOL		1.04	21ST TSP	+6.09
20	96	02/95	Bobbin	NQI	23.73		TE-HL	+11.85
		02/95	Bobbin	ODI	7	1.18	4TH TSP	+27.46
		02/95	H/L Spec	MAI		5.96	TE-HL	+11.62
		02/95	H/L Spec	VOL		1.06	5TH TSP	-14.18
20	100	02/95	Bobbin	ODI	1	0.28	3RD TSP	-0.08
21	7	02/95	Bobbin	NQI		0.30	12TH TSP	+3.55
		02/95	C/L Spec	VOL		0.08	12TH TSP	+3.39
21	11	02/95	Bobbin	ODI	4	1.00	1ST TSP	+4.80
		02/95	H/L Spec	VOL		1.43	1ST TSP	+5.13
21	20	02/95	Bobbin	ODI	67	0.50	4TH TSP	+0.12
21	22	02/95	Bobbin	ODI	72	0.49	3RD TSP	+0.09
21	28	02/95	C/L Spec	VOL		0.48	17TH TSP	-6.19
		02/95	C/L Spec	VOL		0.72	17TH TSP	-6.41
21	42	02/95	Bobbin	ODI	5	0.62	3RD TSP	+0.19
21	49	02/95	Bobbin	ODI	13	1.42	17TH TSP	+2.45
		02/95	C/L Spec	VOL		0.95	17TH TSP	+2.74
21	50	02/95	Bobbin	NQI		1.68	TE-HL	+15.20
21	54	02/95	Bobbin	ODI	19	0.38	7TH TSP	+0.17
21	55	02/95	Bobbin	ODI	13	0.56	4TH TSP	+0.26
21	62	02/95	Bobbin	ODI	1	0.48	4TH TSP	+0.23
21	65	02/95	Bobbin	ODI	11	0.34	4TH TSP	+14.41
		02/95	H/L Spec	VOL		0.45	4TH TSP	+14.15
21	66	02/95	Bobbin	ODI	18	2.91	TTS-HL	+0.91
21	70	02/95	Bobbin	ODI	5	0.81	7TH TSP	+39.68
		02/95	H/L Spec	VOL		0.21	7TH TSP	+37.98
		02/95	H/L Spec	VOL		0.30	7TH TSP	+40.87
21	78	02/95	Bobbin	ODI	13	0.48	4TH TSP	+9.36
		02/95	H/L Spec	VOL		0.24	4TH TSP	+7.90
		02/95	H/L Spec	VOL		0.29	4TH TSP	+4.11
		02/95	H/L Spec	VOL		0.67	4TH TSP	+9.11
21	95	02/95	Bobbin	ODI	9	0.59	3RD TSP	+19.72
		02/95	H/L Spec	VOL		0.25	3RD TSP	+20.67
21	103	02/95	Bobbin	ODI	2	0.80	7TH TSP	+11.60
		02/95	Bobbin	ODI	5	0.86	7TH TSP	+29.16
		02/95	Bobbin	ODI	6	1.23	7TH TSP	+27.76
		02/95	H/L Spec	VOL		0.13	7TH TSP	+11.33
		02/95	H/L Spec	VOL		0.46	7TH TSP	+29.08
		02/95	H/L Spec	VOL		0.69	7TH TSP	+27.65
21	109	02/95	Bobbin	ODI	23	1.17	4TH TSP	+36.54
		02/95	Bobbin	ODI	28	1.37	2ND TSP	+8.87
		02/95	H/L Spec	VOL		0.80	5TH TSP	-11.77
		02/95	H/L Spec	VOL		0.90	2ND TSP	+9.75
		02/95	H/L Spec	VOL		1.10	5TH TSP	-7.68
		02/95	H/L Spec	VOL		1.12	2ND TSP	+12.01
22	10	02/95	Bobbin	NQI		5.87	9TH TSP	+7.63
		02/95	Bobbin	NQI		11.99	8TH TSP	+19.99
		02/95	Bobbin	NQI		12.17	9TH TSP	+6.10
		02/95	Bobbin	NQI		16.09	9TH TSP	+13.31
		02/95	Bobbin	NQI		17.50	8TH TSP	-0.69
22	12	02/95	Bobbin	ODI	4	0.66	11TH TSP	+28.37
		02/95	C/L Spec	VOL		0.54	10TH TSP	-15.33
22	17	02/95	Bobbin	ODI	38	0.32	2ND TSP	-0.07
22	21	02/95	Bobbin	NQI		12.98	TE-HL	+6.29
		02/95	H/L Spec	MAI		2.02	TE-HL	+6.63
22	28	02/95	Bobbin	ODI	22	0.53	2ND TSP	+0.24
22	52	02/95	Bobbin	ODI	26	0.17	6TH TSP	+0.21
22	54	02/95	Bobbin	ODI	15	0.30	6TH TSP	+0.24
22	62	02/95	Bobbin	ODI	29	0.44	7TH TSP	+0.00
22	64	02/95	Bobbin	ODI	25	0.21	7TH TSP	+0.08
		02/95	Bobbin	ODI	13	0.93	12TH TSP	+7.11
		02/95	C/L Spec	VOL		0.31	12TH TSP	+3.20
		02/95	C/L Spec	VOL		0.35	12TH TSP	+8.47
		02/95	C/L Spec	VOL		0.50	12TH TSP	+5.55

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.51	12TH TSP	+7.68
22	70	02/95	Bobbin	ODI	9	0.28	8TH TSP	+0.00
		02/95	Bobbin	ODI	24	0.64	4TH TSP	+0.02
22	74	02/95	Bobbin	ODI	11	0.32	7TH TSP	+0.10
22	86	02/95	Bobbin	ODI	1	3.23	7TH TSP	+26.35
		02/95	H/L Speci	VOL		0.78	8TH TSP	-17.69
22	95	02/95	Bobbin	ODI	11	0.86	2ND TSP	+10.94
		02/95	H/L Speci	VOL		0.48	2ND TSP	+12.35
22	99	02/95	Bobbin	ODI	9	0.44	7TH TSP	+0.05
22	102	02/95	Bobbin	ODI	13	1.99	3RD TSP	+17.05
		02/95	Bobbin	ODI	14	0.70	2ND TSP	+5.46
		02/95	Bobbin	ODI	15	1.34	4TH TSP	+33.77
		02/95	H/L Speci	VOL		0.84	2ND TSP	+5.77
		02/95	H/L Speci	VOL		0.93	3RD TSP	+18.41
		02/95	H/L Speci	VOL		1.63	5TH TSP	-7.48
22	103	02/95	Bobbin	ODI	3	0.49	3RD TSP	+10.29
		02/95	Bobbin	ODI	4	0.89	3RD TSP	+14.28
		02/95	Bobbin	ODI	12	0.39	3RD TSP	+7.93
		02/95	H/L Speci	VOL		0.27	3RD TSP	+8.19
		02/95	H/L Speci	VOL		0.33	3RD TSP	+10.73
23	11	02/95	Bobbin	ODI	4	0.41	4TH TSP	+0.02
23	14	02/95	Bobbin	ODI	13	0.81	22ND TSP	+6.31
23	16	02/95	Bobbin	ODI	10	0.26	3RD TSP	+0.07
23	19	02/95	Bobbin	NQI		0.22	11TH TSP	+12.79
		02/95	C/L Speci	VOL		0.14	11TH TSP	+12.60
23	20	02/95	Bobbin	ODI	4	0.68	21ST TSP	+1.70
23	26	02/95	Bobbin	ODI	21	0.27	17TH TSP	+5.57
23	28	02/95	Bobbin	ODI	13	0.44	12TH TSP	+36.00
23	30	02/95	H/L Tubes	SAI		1.03	TTS-HL	-4.52
23	37	02/95	Bobbin	NQI	40.02		TE-HL	+3.32
		02/95	H/L Speci	MAI		3.03	TE-HL	+3.23
23	38	02/95	C/L Speci	VOL		0.28	13TH TSP	+3.71
23	46	02/95	Bobbin	ODI	10	1.05	18TH TSP	+19.55
		02/95	C/L Speci	VOL		0.50	17TH TSP	-2.39
23	48	02/95	Bobbin	ODI	7	0.72	8TH TSP	-0.07
		02/95	Bobbin	ODI	27	0.15	18TH TSP	+0.00
		02/95	C/L Speci	VOL		0.10	17TH TSP	+0.07
23	57	02/95	Bobbin	ODI	12	0.44	6TH TSP	+0.19
		02/95	Bobbin	ODI	35	0.24	7TH TSP	-0.05
23	58	02/95	Bobbin	NQI		9.37	TE-HL	+8.72
		02/95	H/L Speci	MAI		5.85	TE-HL	+9.62
		02/95	H/L Speci	MAI		1.11	TTS-HL	-4.94
23	59	02/95	U-Bend	VOL		0.51	1AVB	+9.50
		02/95	Bobbin	ODI	7	1.71	1AVB	+8.42
		02/95	Bobbin	ODI	9	1.71	1AVB	+8.42
		02/95	Bobbin	ODI	8	0.67	6TH TSP	+10.84
		02/95	H/L Speci	VOL		0.66	6TH TSP	+10.50
23	60	02/95	Bobbin	ODI	9	1.08	2ND TSP	+0.31
		02/95	Bobbin	ODI	11	0.56	4TH TSP	+0.14
		02/95	Bobbin	ODI	33	0.33	7TH TSP	+0.05
23	61	02/95	Bobbin	ODI	15	1.09	3RD TSP	+20.25
		02/95	Bobbin	ODI	19	0.71	3RD TSP	+22.76
		02/95	H/L Speci	VOL		0.47	4TH TSP	-21.25
		02/95	H/L Speci	VOL		0.62	4TH TSP	-23.66
23	62	02/95	Bobbin	ODI	6	0.37	7TH TSP	+0.14
23	65	02/95	Bobbin	ODI	7	0.91	5TH TSP	+14.17
		02/95	H/L Tubes	SAI		0.49	TTS-HL	+0.01
		02/95	H/L Speci	VOL		0.45	5TH TSP	+11.78
		02/95	H/L Speci	VOL		0.46	5TH TSP	+11.86
		02/95	H/L Speci	VOL		0.54	5TH TSP	+14.18
23	73	02/95	Bobbin	ODI	25	1.54	19TH TSP	+3.97
		02/95	H/L Tubes	VOL		0.38	TTS-HL	-0.10
23	76	02/95	Bobbin	ODI	35	1.11	18TH TSP	+5.39
23	78	02/95	Bobbin	ODI	15	1.23	3RD TSP	+16.31
		02/95	H/L Speci	VOL		0.09	3RD TSP	+15.21

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.18	3RD TSP	+17.76
23	81	02/95	H/L Speci	VOL		0.47	7TH TSP	+19.69
23	91	02/95	Bobbin	ODI	4	0.80	3RD TSP	+12.14
		02/95	Bobbin	ODI	6	0.82	3RD TSP	+6.54
		02/95	Bobbin	ODI	15	0.50	4TH TSP	-0.07
		02/95	H/L Speci	VOL		0.22	3RD TSP	+6.88
23	94	02/95	Bobbin	ODI	7	0.47	5TH TSP	-0.23
23	95	02/95	Bobbin	ODI	4	0.47	5TH TSP	+0.03
23	102	02/95	Bobbin	ODI	6	0.77	5TH TSP	+16.56
		02/95	H/L Speci	VOL		0.52	5TH TSP	+16.23
24	8	02/95	Bobbin	NQI		0.97	4AVB	+2.65
		02/95	U-Bend	VOL		0.44	4AVB	+2.88
		02/95	Bobbin	NQI		1.75	22ND TSP	+17.01
		02/95	C/L Speci	VOL		0.35	21ST TSP	-2.99
24	14	02/95	Bobbin	ODI	45	0.22	5TH TSP	+0.10
		02/95	C/L Speci	VOL		1.10	22ND TSP	+1.40
24	15	02/95	Bobbin	ODI	27	0.39	17TH TSP	-0.17
		02/95	H/L Tubes	VOL		0.25	TTS-HL	+1.56
24	16	02/95	Bobbin	ODI	65	0.37	3RD TSP	-0.05
24	17	02/95	Bobbin	ODI	5	0.67	2ND TSP	+0.11
		02/95	Bobbin	ODI	31	0.20	3RD TSP	+0.00
24	23	02/95	Bobbin	ODI	76	0.29	3RD TSP	-0.05
24	30	02/95	Bobbin	NQI		0.53	TTS-HL	+4.18
		02/95	H/L Speci	VOL		1.79	TTS-HL	+3.98
24	33	02/95	Bobbin	ODI	6	1.30	15TH TSP	+2.58
24	34	02/95	Bobbin	ODI	10	1.18	15TH TSP	+2.56
		02/95	C/L Speci	VOL		0.46	15TH TSP	+2.62
24	37	02/95	Bobbin	ODI	10	0.22	11TH TSP	+38.65
		02/95	C/L Speci	VOL		0.07	10TH TSP	-5.49
24	42	02/95	H/L Tubes	VOL		0.75	TTS-HL	-1.57
24	51	02/95	Bobbin	ODI	15	0.26	6TH TSP	+0.14
		02/95	Bobbin	ODI	42	0.30	7TH TSP	-0.05
24	54	02/95	Bobbin	NQI		0.50	13TH TSP	+16.75
		02/95	Bobbin	ODI	19	1.38	3RD TSP	+27.67
		02/95	Bobbin	ODI	7	0.84	13TH TSP	+15.78
		02/95	H/L Speci	VOL		0.45	3RD TSP	+26.96
		02/95	C/L Speci	VOL		0.46	12TH TSP	-5.09
		02/95	C/L Speci	VOL		0.62	12TH TSP	-6.07
24	55	02/95	Bobbin	ODI	7	0.59	4TH TSP	+0.21
24	57	02/95	Bobbin	ODI	51	0.27	7TH TSP	+0.21
24	59	02/95	Bobbin	ODI	14	0.86	5TH TSP	+22.42
		02/95	H/L Speci	VOL		0.50	6TH TSP	-21.99
24	60	02/95	U-Bend	VOL		0.42	8TH TSP	+14.58
24	70	02/95	Bobbin	ODI	13	0.20	8TH TSP	+0.06
24	71	02/95	Bobbin	ODI	7	0.69	5TH TSP	+27.92
		02/95	H/L Speci	VOL		0.71	6TH TSP	-16.89
24	74	02/95	Bobbin	ODI	7	1.17	2ND TSP	+22.49
		02/95	Bobbin	ODI	14	2.06	12TH TSP	+25.06
		02/95	C/L Speci	VOL		1.82	12TH TSP	+24.74
24	75	02/95	Bobbin	ODI	16	0.34	2ND TSP	+0.20
24	76	02/95	Bobbin	ODI	68	0.29	3RD TSP	+0.03
24	86	02/95	Bobbin	ODI	17	0.90	14TH TSP	+4.60
		02/95	C/L Speci	VOL		0.58	14TH TSP	+4.74
24	90	02/95	Bobbin	ODI	29	0.71	6TH TSP	-0.14
24	92	02/95	Bobbin	ODI	8	0.35	2ND TSP	-0.03
24	94	02/95	Bobbin	ODI	9	1.10	11TH TSP	+42.30
		02/95	C/L Speci	VOL		0.62	11TH TSP	+42.51
24	95	02/95	C/L Speci	VOL		0.25	11TH TSP	+7.99
		02/95	C/L Speci	VOL		0.27	11TH TSP	+9.61
24	106	02/95	Bobbin	ODI	1	2.59	3RD TSP	+8.11
		02/95	H/L Speci	VOL		0.48	3RD TSP	+8.69
25	8	02/95	Bobbin	ODI	13	1.13	18TH TSP	+6.29
		02/95	C/L Speci	VOL		0.91	18TH TSP	+6.39
25	9	02/95	Bobbin	ODI	18	0.57	11TH TSP	+31.56
		02/95	C/L Speci	VOL		0.13	11TH TSP	+9.48

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.55	11TH TSP	+31.35
25	17	02/95	Bobbin	ODI	81	0.53	4TH TSP	+0.22
25	19	02/95	Bobbin	ODI	62	0.25	4TH TSP	+0.27
25	30	02/95	Bobbin	ODI	13	0.75	2ND TSP	+0.20
25	33	02/95	Bobbin	ODI	23	0.59	14TH TSP	+1.35
		02/95	Bobbin	ODI	23	1.02	14TH TSP	+1.76
		02/95	C/L Speci	VOL		0.77	14TH TSP	+1.86
25	41	02/95	Bobbin	ODI	32	0.20	6TH TSP	+0.08
25	48	02/95	Bobbin	ODI	15	0.54	3RD TSP	+0.22
		02/95	Bobbin	ODI	7	0.63	11TH TSP	+36.30
		02/95	Bobbin	ODI	8	0.66	11TH TSP	+40.98
		02/95	Bobbin	ODI	12	0.62	11TH TSP	+38.55
		02/95	C/L Speci	VOL		0.29	10TH TSP	-5.70
		02/95	C/L Speci	VOL		0.31	10TH TSP	-3.08
		02/95	C/L Speci	VOL		0.39	10TH TSP	-8.10
25	56	02/95	Bobbin	ODI	9	0.57	4TH TSP	+35.57
		02/95	H/L Speci	VOL		0.75	5TH TSP	-7.46
25	57	02/95	Bobbin	ODI	16	0.40	8TH TSP	-0.19
25	59	02/95	Bobbin	NQI		0.49	21ST TSP	+4.65
		02/95	Bobbin	ODI	29	0.48	8TH TSP	+0.00
		02/95	Bobbin	ODI	30	0.63	22ND TSP	+8.76
		02/95	C/L Speci	VOL		0.09	22ND TSP	+15.20
		02/95	C/L Speci	VOL		0.12	21ST TSP	+4.48
		02/95	C/L Speci	VOL		0.20	22ND TSP	+8.47
25	62	02/95	Bobbin	ODI	1	1.06	3RD TSP	+0.11
25	63	02/95	Bobbin	ODI	28	0.75	2ND TSP	+8.14
		02/95	H/L Speci	VOL		0.41	2ND TSP	+7.93
25	65	02/95	Bobbin	ODI	44	0.23	2ND TSP	+0.08
25	74	02/95	Bobbin	ODI	82	0.29	2ND TSP	+0.08
25	77	02/95	Bobbin	ODI	20	0.88	1ST TSP	+11.24
		02/95	H/L Speci	VOL		0.45	1ST TSP	+11.57
25	92	02/95	Bobbin	ODI	23	1.28	7TH TSP	+8.65
		02/95	H/L Speci	VOL		1.68	7TH TSP	+8.67
25	94	02/95	Bobbin	ODI	3	0.22	7TH TSP	-0.05
		02/95	Bobbin	ODI	27	0.39	6TH TSP	-0.03
26	41	02/95	Bobbin	ODI	15	0.94	20TH TSP	+5.98
		02/95	C/L Speci	VOL		0.45	17TH TSP	-7.58
		02/95	C/L Speci	VOL		0.92	20TH TSP	+6.09
26	52	02/95	Bobbin	ODI	10	0.81	2ND TSP	+0.19
		02/95	C/L Speci	VOL		0.19	10TH TSP	+10.47
26	53	02/95	Bobbin	ODI	86	0.47	4TH TSP	+0.27
26	55	02/95	Bobbin	ODI	14	0.28	4TH TSP	+0.24
		02/95	Bobbin	ODI	23	0.54	3RD TSP	+0.21
26	56	02/95	Bobbin	ODI	3	0.60	5TH TSP	+0.22
26	59	02/95	Bobbin	ODI	9	0.57	4TH TSP	+29.45
		02/95	H/L Speci	VOL		0.33	5TH TSP	-14.62
26	61	02/95	Bobbin	ODI	10	0.64	4TH TSP	+0.22
26	69	02/95	Bobbin	NQI		3.13	TE-CL	+17.88
26	75	02/95	Bobbin	ODI	16	0.68	7TH TSP	+23.88
		02/95	H/L Speci	VOL		1.02	8TH TSP	-20.35
26	85	02/95	Bobbin	ODI	33	0.35	7TH TSP	+0.08
26	86	02/95	Bobbin	ODI	7	0.60	4TH TSP	+39.11
26	89	02/95	Bobbin	ODI	10	0.44	5TH TSP	+13.94
		02/95	Bobbin	ODI	28	0.48	5TH TSP	+14.29
		02/95	H/L Speci	VOL		0.40	5TH TSP	+13.60
26	92	02/95	Bobbin	ODI	7	0.85	3RD TSP	+25.69
		02/95	H/L Speci	VOL		0.44	4TH TSP	-17.19
26	95	02/95	Bobbin	NQI		0.52	22ND TSP	+17.07
		02/95	Bobbin	ODI	20	0.33	20TH TSP	+3.55
		02/95	C/L Speci	VOL		0.20	21ST TSP	+3.00
		02/95	C/L Speci	VOL		0.28	20TH TSP	+4.02
		02/95	C/L Speci	VOL		0.54	22ND TSP	+16.73
26	96	02/95	Bobbin	ODI	5	0.44	11TH TSP	+22.27
		02/95	C/L Speci	VOL		0.45	11TH TSP	+21.76
26	98	02/95	Bobbin	ODI	11	0.40	4TH TSP	+13.31

BWNT TUBAN II (Version 2.1) 05/01/1995 07:15:15

Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

26	101	02/95	Bobbin	ODI	16	3.10	5TH TSP	+20.92
		02/95	H/L Speci	VOL		1.94	6TH TSP	-23.03
26	105	02/95	Bobbin	ODI	19	1.63	TTS-HL	+1.44
		02/95	H/L Tubes	VOL		0.47	TTS-HL	+1.08
		02/95	H/L Speci	VOL		0.46	TTS-HL	+0.92
27	10	02/95	Bobbin	ODI	5	0.62	5TH TSP	+0.00
		02/95	Bobbin	ODI	8	0.54	4TH TSP	+0.02
		02/95	Bobbin	ODI	13	0.55	3RD TSP	+0.00
27	12	02/95	Bobbin	ODI	25	0.47	21ST TSP	+2.67
		02/95	C/L Speci	VOL		0.60	21ST TSP	+2.63
27	27	02/95	Bobbin	ODI	7	0.87	14TH TSP	+5.54
		02/95	Bobbin	ODI	34	0.29	15TH TSP	+1.45
		02/95	C/L Speci	VOL		0.42	14TH TSP	+5.40
27	30	02/95	Bobbin	ODI	96	0.29	2ND TSP	+0.00
27	35	02/95	Bobbin	ODI	11	0.35	6TH TSP	+0.22
27	36	02/95	Bobbin	ODI	1	1.37	4TH TSP	-0.15
		02/95	Bobbin	ODI	7	0.77	2ND TSP	+0.00
		02/95	Bobbin	ODI	15	1.17	6TH TSP	+0.00
		02/95	Bobbin	ODI	66	1.05	5TH TSP	+0.00
27	42	02/95	Bobbin	ODI	7	0.69	6TH TSP	-0.19
27	43	02/95	Bobbin	ODI	20	0.26	6TH TSP	+0.00
27	44	02/95	Bobbin	ODI	69	0.27	7TH TSP	-0.02
27	51	02/95	Bobbin	ODI	15	0.64	16TH TSP	+2.43
		02/95	C/L Speci	VOL		0.49	16TH TSP	+2.57
27	52	02/95	Bobbin	NQI		0.30	15TH TSP	+2.71
		02/95	Bobbin	ODI	24	0.78	2ND TSP	+14.82
		02/95	C/L Speci	VOL		0.26	15TH TSP	+2.67
27	54	02/95	Bobbin	ODI	4	0.42	2ND TSP	+0.24
		02/95	Bobbin	ODI	11	0.38	4TH TSP	+0.17
		02/95	Bobbin	ODI	27	0.34	7TH TSP	+0.17
		02/95	Bobbin	ODI	33	0.30	6TH TSP	+0.12
27	55	02/95	Bobbin	ODI	30	0.31	7TH TSP	+0.22
27	56	02/95	Bobbin	ODI	11	0.69	3RD TSP	+0.28
27	58	02/95	Bobbin	ODI	8	0.61	6TH TSP	+0.21
27	76	02/95	Bobbin	NQI		1.03	11TH TSP	+4.31
		02/95	Bobbin	ODI	7	0.41	4TH TSP	-0.08
		02/95	Bobbin	ODI	12	2.64	11TH TSP	+10.54
		02/95	Bobbin	ODI	14	1.56	11TH TSP	+13.48
		02/95	H/L Tubes	VOL		1.08	TTS-HL	+0.13
		02/95	C/L Speci	VOL		0.61	11TH TSP	+4.18
		02/95	C/L Speci	VOL		0.91	11TH TSP	+10.32
		02/95	C/L Speci	VOL		0.97	11TH TSP	+8.70
		02/95	C/L Speci	VOL		1.89	11TH TSP	+13.16
27	78	02/95	Bobbin	ODI	10	1.36	2ND TSP	+8.16
		02/95	H/L Speci	VOL		1.55	2ND TSP	+8.38
27	93	02/95	Bobbin	ODI	7	0.95	7TH TSP	-0.20
27	107	02/95	Bobbin	ODI	10	0.88	12TH TSP	+12.42
		02/95	C/L Speci	VOL		0.61	12TH TSP	+12.28
28	13	02/95	Bobbin	ODI	13	0.42	4TH TSP	+13.34
		02/95	H/L Speci	VOL		0.54	4TH TSP	+12.89
28	17	02/95	Bobbin	ODI	2	0.68	6TH TSP	-0.02
		02/95	Bobbin	ODI	97	0.59	4TH TSP	+0.14
28	20	02/95	Bobbin	NQI		0.45	12TH TSP	+21.22
		02/95	C/L Speci	VOL		0.20	12TH TSP	+20.71
28	25	02/95	Bobbin	ODI	19	0.44	15TH TSP	+4.68
28	26	02/95	Bobbin	ODI	12	0.47	7TH TSP	-0.18
28	28	02/95	Bobbin	ODI	24	0.70	2ND TSP	-0.02
		02/95	Bobbin	ODI	97	0.42	3RD TSP	+0.12
28	30	02/95	Bobbin	ODI	18	0.33	7TH TSP	+0.10
28	32	02/95	Bobbin	ODI	22	0.59	5TH TSP	+12.81
		02/95	Bobbin	ODI	21	0.40	12TH TSP	+25.68
		02/95	H/L Speci	VOL		0.81	5TH TSP	+12.97
		02/95	C/L Speci	VOL		0.29	12TH TSP	+25.32
28	42	02/95	Bobbin	ODI	4	0.31	16TH TSP	+6.96
		02/95	C/L Speci	VOL		0.30	16TH TSP	+6.75

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

28	45	02/95	Bobbin	ODI	7	0.59	8TH TSP	-2.03
		02/95	Bobbin	ODI	11	0.58	17TH TSP	+6.68
		02/95	H/L Spec	VOL		0.31	8TH TSP	+2.02
		02/95	C/L Spec	VOL		0.53	17TH TSP	+2.94
		02/95	C/L Spec	VOL		0.77	17TH TSP	+6.69
28	49	02/95	Bobbin	ODI	7	1.37	10TH TSP	+28.30
		02/95	C/L Spec	VOL		0.32	10TH TSP	+27.75
28	58	02/95	Bobbin	ODI	42	0.27	8TH TSP	+0.08
		02/95	Bobbin	ODI	72	0.18	2ND TSP	+0.14
28	60	02/95	Bobbin	ODI	40	0.43	7TH TSP	+0.24
28	61	02/95	Bobbin	ODI	5	1.73	7TH TSP	+32.14
		02/95	H/L Spec	VOL		1.04	8TH TSP	-12.44
28	64	02/95	Bobbin	ODI	13	2.18	2ND TSP	+21.97
		02/95	H/L Spec	VOL		0.66	3RD TSP	-2.48
28	68	02/95	Bobbin	ODI	5	0.87	5TH TSP	+30.88
		02/95	H/L Spec	VOL		0.98	6TH TSP	-13.72
28	75	02/95	U-Bend	VOL		0.63	9TH TSP	+6.30
28	76	02/95	Bobbin	ODI	1	0.87	6TH TSP	+34.23
		02/95	H/L Spec	VOL		0.35	7TH TSP	-10.08
		02/95	H/L Spec	VOL		1.03	2ND TSP	+4.46
28	90	02/95	Bobbin	NQI		3.82	6TH TSP	+5.79
		02/95	Bobbin	ODI	37	0.56	3RD TSP	+0.00
28	98	02/95	Bobbin	ODI	16	0.97	3RD TSP	+13.43
		02/95	H/L Spec	VOL		0.51	3RD TSP	+13.78
28	100	02/95	Bobbin	NQI		1.20	2ND TSP	+17.15
		02/95	Bobbin	ODI	5	1.46	2ND TSP	+22.00
		02/95	H/L Spec	VOL		0.38	2ND TSP	+17.09
28	101	02/95	Bobbin	ODI	5	0.58	8TH TSP	-0.17
28	103	02/95	Bobbin	ODI	10	1.85	17TH TSP	+6.11
		02/95	C/L Spec	VOL		1.12	17TH TSP	+6.04
28	106	02/95	Bobbin	ODI	10	2.16	10TH TSP	+28.46
		02/95	C/L Spec	VOL		0.42	9TH TSP	-15.64
29	12	02/95	C/L Spec	VOL		0.36	22ND TSP	+7.65
29	14	02/95	Bobbin	ODI	18	0.29	6TH TSP	-0.29
29	21	02/95	H/L Spec	VOL		0.30	7TH TSP	+15.35
		02/95	C/L Spec	VOL		0.35	17TH TSP	-5.66
29	27	02/95	C/L Spec	VOL		0.48	13TH TSP	+10.16
29	32	02/95	Bobbin	ODI	14	0.33	4TH TSP	+35.98
		02/95	Bobbin	ODI	5	0.54	14TH TSP	+4.89
		02/95	Bobbin	ODI	6	0.37	18TH TSP	+14.37
		02/95	H/L Spec	VOL		0.44	5TH TSP	-7.59
		02/95	C/L Spec	VOL		0.22	17TH TSP	-7.52
		02/95	C/L Spec	VOL		0.47	14TH TSP	+4.17
29	39	02/95	Bobbin	ODI	15	0.64	8TH TSP	-0.18
29	44	02/95	C/L Spec	VOL		0.11	10TH TSP	+18.24
29	45	02/95	Bobbin	ODI	9	0.74	3RD TSP	+0.00
29	51	02/95	Bobbin	ODI	3	2.82	10TH TSP	+28.31
		02/95	C/L Spec	VOL		0.12	10TH TSP	+27.24
29	55	02/95	Bobbin	ODI	28	0.26	7TH TSP	+0.10
29	57	02/95	Bobbin	ODI	8	0.19	8TH TSP	-0.13
		02/95	Bobbin	ODI	23	0.23	7TH TSP	+0.14
29	69	02/95	Bobbin	ODI	61	0.28	6TH TSP	+0.03
29	71	02/95	Bobbin	ODI	61	0.53	7TH TSP	+0.05
29	76	02/95	Bobbin	ODI	33	0.69	3RD TSP	+14.83
		02/95	Bobbin	ODI	89	0.58	3RD TSP	+0.08
29	97	02/95	Bobbin	ODI	12	0.50	3RD TSP	+31.04
		02/95	H/L Spec	VOL		0.42	4TH TSP	-12.79
29	102	02/95	Bobbin	ODI	15	2.02	7TH TSP	+35.76
		02/95	H/L Spec	VOL		0.38	8TH TSP	-8.23
30	12	02/95	Bobbin	NQI		13.94	TE-CL	+6.12
		02/95	Bobbin	NQI		15.41	TE-CL	+16.86
30	25	02/95	Bobbin	ODI	66	0.42	2ND TSP	+0.16
		02/95	Bobbin	ODI	13	0.75	16TH TSP	+3.10
		02/95	C/L Spec	VOL		0.17	16TH TSP	+3.47
		02/95	C/L Spec	VOL		0.25	16TH TSP	+1.22

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

30	26	02/95	Bobbin	ODI	1	0.54	18TH TSP	+18.95
		02/95	Bobbin	ODI	7	0.40	17TH TSP	+7.38
		02/95	Bobbin	ODI	12	1.09	10TH TSP	+27.13
		02/95	C/L Speci	VOL		0.15	10TH TSP	+25.79
		02/95	C/L Speci	VOL		0.15	10TH TSP	+27.51
		02/95	C/L Speci	VOL		0.24	17TH TSP	+7.23
		02/95	C/L Speci	VOL		0.30	18TH TSP	+19.04
30	28	02/95	Bobbin	ODI	14	2.44	12TH TSP	+5.68
		02/95	C/L Speci	VOL		0.27	12TH TSP	+5.56
30	36	02/95	Bobbin	ODI	4	0.40	2ND TSP	+0.25
30	40	02/95	Bobbin	ODI	9	0.55	22ND TSP	+4.58
		02/95	C/L Speci	VOL		0.32	22ND TSP	+4.57
30	43	02/95	Bobbin	ODI	5	0.95	5TH TSP	+2.71
		02/95	H/L Speci	VOL		0.39	5TH TSP	+2.95
30	49	02/95	Bobbin	NQI		0.82	8TH TSP	+7.70
		02/95	U-Bend	VOL		0.66	8TH TSP	+7.28
		02/95	Bobbin	ODI	6	0.38	11TH TSP	+6.78
		02/95	C/L Speci	VOL		0.05	11TH TSP	+6.72
30	53	02/95	Bobbin	ODI	1	0.58	6TH TSP	+0.28
30	54	02/95	Bobbin	ODI	12	0.48	7TH TSP	+14.62
		02/95	Bobbin	ODI	13	0.62	7TH TSP	+7.88
		02/95	Bobbin	ODI	18	0.44	7TH TSP	+19.78
		02/95	Bobbin	ODI	18	0.80	7TH TSP	+11.03
		02/95	Bobbin	ODI	19	0.79	8TH TSP	-0.05
		02/95	Bobbin	ODI	20	0.61	7TH TSP	+4.26
		02/95	H/L Speci	VOL		0.44	7TH TSP	+7.93
		02/95	H/L Speci	VOL		0.44	7TH TSP	+14.51
		02/95	H/L Speci	VOL		0.51	7TH TSP	+19.52
		02/95	H/L Speci	VOL		0.58	7TH TSP	+10.88
		02/95	H/L Speci	VOL		0.59	7TH TSP	+4.24
30	66	02/95	Bobbin	ODI	89	0.27	6TH TSP	+0.08
30	69	02/95	Bobbin	ODI	1	0.99	6TH TSP	+6.61
		02/95	Bobbin	ODI	10	1.53	6TH TSP	+3.12
		02/95	Bobbin	ODI	25	1.56	4TH TSP	+34.16
		02/95	H/L Speci	VOL		0.16	6TH TSP	+7.30
		02/95	H/L Speci	VOL		0.31	6TH TSP	+3.83
		02/95	H/L Speci	VOL		0.54	6TH TSP	+3.67
		02/95	H/L Speci	VOL		1.74	5TH TSP	-9.82
30	70	02/95	Bobbin	ODI	9	0.54	11TH TSP	+22.41
		02/95	Bobbin	ODI	11	1.04	11TH TSP	+11.54
30	73	02/95	Bobbin	ODI	9	0.62	2ND TSP	+9.15
		02/95	H/L Speci	VOL		0.40	2ND TSP	+9.69
30	79	02/95	Bobbin	ODI	20	0.80	5TH TSP	+18.52
		02/95	H/L Speci	VOL		0.40	5TH TSP	+18.63
		02/95	H/L Speci	VOL		0.43	7TH TSP	+10.11
30	83	02/95	Bobbin	ODI	17	2.62	5TH TSP	+2.30
		02/95	Bobbin	ODI	26	2.26	5TH TSP	+3.25
		02/95	Bobbin	ODI	29	0.68	5TH TSP	+5.19
		02/95	H/L Speci	VOL		0.39	5TH TSP	+5.04
		02/95	H/L Speci	VOL		1.96	5TH TSP	+2.10
30	85	02/95	Bobbin	ODI	16	0.66	3RD TSP	+28.07
		02/95	Bobbin	ODI	18	1.87	3RD TSP	+27.34
		02/95	H/L Speci	VOL		0.70	4TH TSP	-16.32
30	91	02/95	Bobbin	ODI	12	0.84	3RD TSP	+16.70
		02/95	Bobbin	ODI	14	0.38	6TH TSP	+12.48
		02/95	Bobbin	ODI	16	1.35	3RD TSP	+20.28
		02/95	H/L Speci	VOL		0.11	6TH TSP	+12.79
		02/95	H/L Speci	VOL		0.22	3RD TSP	+10.43
		02/95	H/L Speci	VOL		0.26	3RD TSP	+16.92
		02/95	H/L Speci	VOL		0.33	3RD TSP	+20.73
		02/95	H/L Speci	VOL		0.40	3RD TSP	+28.40
30	99	02/95	Bobbin	ODI	5	0.70	3RD TSP	+0.16
		02/95	Bobbin	ODI	72	0.25	4TH TSP	+0.13
30	102	02/95	Bobbin	ODI	15	0.58	7TH TSP	-0.11
31	18	02/95	Bobbin	ODI	11	0.50	3RD TSP	+0.25

to *

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

31	19	02/95	Bobbin	ODI	3	0.52	7TH TSP	+0.14
31	23	02/95	Bobbin	ODI	2	0.70	2ND TSP	+0.11
		02/95	Bobbin	ODI	38	0.19	7TH TSP	+0.17
31	27	02/95	Bobbin	ODI	14	0.76	22ND TSP	+14.23
		02/95	C/L Speci	VOL		0.43	22ND TSP	+14.39
31	29	02/95	Bobbin	ODI	1	0.49	2ND TSP	+0.11
31	31	02/95	Bobbin	ODI	6	0.40	22ND TSP	+10.07
31	32	02/95	Bobbin	ODI	13	0.31	2ND TSP	+0.06
31	34	02/95	Bobbin	ODI	11	0.45	5TH TSP	-0.22
31	42	02/95	Bobbin	ODI	10	1.83	12TH TSP	+23.51
		02/95	C/L Speci	VOL		0.46	12TH TSP	+22.33
31	44	02/95	Bobbin	ODI	46	0.24	2ND TSP	+0.05
31	46	02/95	Bobbin	ODI	4	0.38	10TH TSP	+21.14
		02/95	Bobbin	ODI	6	0.84	17TH TSP	+5.73
		02/95	Bobbin	ODI	15	1.10	10TH TSP	+23.69
		02/95	C/L Speci	VOL		0.11	17TH TSP	+6.84
		02/95	C/L Speci	VOL		0.12	17TH TSP	+5.47
		02/95	C/L Speci	VOL		0.48	10TH TSP	+23.42
31	47	02/95	Bobbin	NQI	28.56		TE-HL	+14.13
		02/95	H/L Speci	MAI	4.68		TTS-HL	-6.57
31	54	02/95	Bobbin	ODI	6	0.77	2ND TSP	+0.26
		02/95	Bobbin	ODI	8	0.90	8TH TSP	-0.05
31	57	02/95	Bobbin	ODI	11	1.64	7TH TSP	+14.52
		02/95	Bobbin	ODI	15	1.37	7TH TSP	+16.52
		02/95	H/L Speci	VOL		0.68	7TH TSP	+16.18
		02/95	H/L Speci	VOL		0.91	7TH TSP	+14.09
		02/95	H/L Speci	VOL		0.42	7TH TSP	+20.90 to **
31	70	02/95	Bobbin	ODI	1	0.90	6TH TSP	-0.13
		02/95	Bobbin	ODI	1	1.06	2ND TSP	+0.05
31	75	02/95	Bobbin	ODI	8	0.52	13TH TSP	+16.95
		02/95	C/L Speci	VOL		0.57	12TH TSP	-4.84
31	88	02/95	Bobbin	ODI	6	1.12	5TH TSP	+17.93
		02/95	H/L Speci	VOL		0.33	5TH TSP	+1.00
31	89	02/95	Bobbin	ODI	4	1.96	6TH TSP	+26.82
		02/95	Bobbin	ODI	9	1.21	6TH TSP	+28.72
		02/95	Bobbin	ODI	9	1.43	6TH TSP	+23.49
		02/95	H/L Speci	VOL		0.42	7TH TSP	-20.25
		02/95	H/L Speci	VOL		0.45	7TH TSP	-18.91
		02/95	H/L Speci	VOL		0.47	7TH TSP	-15.08
		02/95	H/L Speci	VOL		0.48	7TH TSP	-16.69
31	94	02/95	U-Bend	VOL		4.23	1AVE	+6.61
		02/95	Bobbin	ODI	1	3.42	1AVE	+7.35
31	102	02/95	Bobbin	ODI	15	1.73	5TH TSP	+30.41
		02/95	H/L Speci	VOL		0.80	6TH TSP	-13.93
31	103	02/95	Bobbin	NQI		1.01	9TH TSP	+4.84
		02/95	U-Bend	VOL		1.29	9TH TSP	+3.87
32	17	02/95	Bobbin	ODI	22	0.31	8TH TSP	-0.06
32	23	02/95	Bobbin	ODI	48	0.24	2ND TSP	+0.11
32	25	02/95	Bobbin	ODI	30	0.50	8TH TSP	-0.11
32	28	02/95	Bobbin	NQI		0.11	10TH TSP	+35.14
		02/95	Bobbin	ODI	19	0.49	17TH TSP	+7.06
		02/95	C/L Speci	VOL		0.52	17TH TSP	+1.52
		02/95	C/L Speci	VOL		0.60	17TH TSP	+7.24
32	41	02/95	Bobbin	ODI	8	0.54	6TH TSP	-0.03
32	43	02/95	Bobbin	ODI	4	0.70	11TH TSP	+7.67
		02/95	C/L Speci	VOL		0.20	11TH TSP	+7.19
32	52	02/95	Bobbin	NQI		3.34	TE-HL	+8.30
32	55	02/95	Bobbin	ODI	25	0.15	12TH TSP	+36.45
		02/95	C/L Speci	VOL		0.24	11TH TSP	-7.67
32	56	02/95	Bobbin	ODI	1	0.80	4TH TSP	+0.21
32	63	02/95	Bobbin	ODI	10	0.54	6TH TSP	-0.15
32	65	02/95	Bobbin	ODI	10	0.88	17TH TSP	+3.77
		02/95	Bobbin	ODI	14	1.04	17TH TSP	+4.84
		02/95	C/L Speci	VOL		0.50	17TH TSP	+4.82
		02/95	C/L Speci	VOL		0.58	17TH TSP	+3.85

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
32	67	02/95	Bobbin	ODI	12	0.66	7TH TSP	+5.52
		02/95	H/L Speci	VOL		0.37	7TH TSP	+6.00
32	78	02/95	H/L Tubes	SAI		9.72	TTS-HL	-4.35
32	80	02/95	Bobbin	ODI	8	0.78	12TH TSP	+7.33
		02/95	C/L Speci	VOL		0.15	12TH TSP	+6.78
32	89	02/95	Bobbin	ODI	7	0.53	8TH TSP	+0.21
32	95	02/95	Bobbin	ODI	21	1.67	3RD TSP	+2.92
		02/95	H/L Speci	VOL		1.00	3RD TSP	+3.02
32	98	02/95	Bobbin	ODI	11	1.27	10TH TSP	+37.84
		02/95	Bobbin	ODI	16	0.55	10TH TSP	+1.69
		02/95	C/L Speci	VOL		0.77	9TH TSP	-6.35
		02/95	C/L Speci	VOL		0.44	10TH TSP	+1.45
32	99	02/95	Bobbin	ODI	12	1.24	3RD TSP	+7.60
		02/95	H/L Speci	VOL		0.57	3RD TSP	+7.49
32	100	02/95	Bobbin	ODI	9	0.81	3RD TSP	-0.17
33	14	02/95	Bobbin	ODI	14	1.36	8TH TSP	-1.60
		02/95	Bobbin	ODI	9	0.38	11TH TSP	+9.24
		02/95	Bobbin	ODI	19	0.49	11TH TSP	+8.35
		02/95	H/L Speci	VOL		1.89	8TH TSP	-1.85
		02/95	C/L Speci	VOL		0.17	11TH TSP	+9.39
		02/95	C/L Speci	VOL		0.21	11TH TSP	+8.39
33	15	02/95	Bobbin	ODI	14	0.93	21ST TSP	+4.56
		02/95	C/L Speci	VOL		0.42	21ST TSP	+4.69
33	16	02/95	Bobbin	NQI		0.45	4AVB	+15.36
		02/95	U-Bend	VOL		0.40	4AVB	+17.18
33	32	02/95	Bobbin	ODI	1	0.34	3RD TSP	-0.08
		02/95	Bobbin	ODI	18	0.44	7TH TSP	+12.99
		02/95	Bobbin	ODI	53	0.26	7TH TSP	+0.11
		02/95	H/L Speci	VOL		0.41	7TH TSP	+13.24
33	36	02/95	Bobbin	ODI	23	0.32	2ND TSP	+0.22
33	42	02/95	Bobbin	ODI	23	0.45	2ND TSP	+0.14
33	51	02/95	Bobbin	ODI	8	0.29	4TH TSP	+0.20
33	55	02/95	Bobbin	NQI		4.82	TE-HL	+9.37
		02/95	H/L Speci	MAI		3.00	TE-HL	+9.46
33	56	02/95	Bobbin	ODI	6	1.01	1ST TSP	+11.60
		02/95	H/L Speci	VOL		0.45	1ST TSP	+12.08
33	63	02/95	Bobbin	ODI	1	0.56	5TH TSP	-0.02
33	65	02/95	Bobbin	ODI	29	0.55	3RD TSP	-0.07
33	70	02/95	Bobbin	ODI	90	0.76	3RD TSP	+0.07
33	80	02/95	Bobbin	ODI	33	0.23	3RD TSP	+0.10
		02/95	Bobbin	ODI	23	2.52	10TH TSP	+16.96
		02/95	C/L Speci	VOL		0.23	10TH TSP	+7.42
		02/95	C/L Speci	VOL		1.61	10TH TSP	+17.02
33	86	02/95	Bobbin	ODI	10	0.58	6TH TSP	+10.91
		02/95	Bobbin	ODI	13	1.04	6TH TSP	+9.34
		02/95	H/L Speci	VOL		0.29	6TH TSP	+10.98
		02/95	H/L Speci	VOL		0.32	6TH TSP	+9.05
33	88	02/95	Bobbin	ODI	15	1.20	4TH TSP	+41.53
		02/95	H/L Speci	VOL		0.90	5TH TSP	-1.85
33	98	02/95	Bobbin	ODI	5	0.77	3RD TSP	+11.36
		02/95	H/L Speci	VOL		0.74	3RD TSP	+12.23
34	16	02/95	Bobbin	ODI	31	1.63	7TH TSP	+11.43
		02/95	H/L Speci	VOL		2.62	7TH TSP	+11.22
34	18	02/95	Bobbin	ODI	14	1.43	6TH TSP	+25.42
		02/95	H/L Speci	VOL		1.23	7TH TSP	-18.39
34	19	02/95	Bobbin	ODI	7	0.32	4TH TSP	+0.08
34	21	02/95	Bobbin	ODI	1	0.49	3RD TSP	+0.00
		02/95	Bobbin	ODI	53	0.26	6TH TSP	+0.06
34	25	02/95	Bobbin	ODI	5	1.12	13TH TSP	+16.19
		02/95	Bobbin	ODI	10	0.37	13TH TSP	+18.66
		02/95	Bobbin	ODI	11	0.42	12TH TSP	+14.73
		02/95	Bobbin	ODI	19	0.35	12TH TSP	+24.42
		02/95	C/L Speci	VOL		0.23	12TH TSP	+14.53
		02/95	C/L Speci	VOL		0.28	12TH TSP	+24.42
		02/95	C/L Speci	VOL		0.30	12TH TSP	-6.25

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
		02/95	C/L Speci	VOL		0.39	12TH TSP	-3.41
34	26	02/95	Bobbin	ODI	1	0.10	8TH TSP	-0.06
34	29	02/95	Bobbin	ODI	17	0.08	3RD TSP	+0.14
34	35	02/95	Bobbin	ODI	7	4.58	17TH TSP	+6.00
		02/95	C/L Speci	VOL		0.43	17TH TSP	+5.16
34	36	02/95	Bobbin	ODI	6	0.73	2ND TSP	+0.17
34	39	02/95	Bobbin	ODI	1	0.28	3RD TSP	+0.17
		02/95	Bobbin	ODI	1	0.62	2ND TSP	+0.22
		02/95	Bobbin	ODI	35	0.23	7TH TSP	+0.03
34	41	02/95	Bobbin	ODI	1	0.54	2ND TSP	+0.11
34	51	02/95	Bobbin	ODI	17	0.54	13TH TSP	+3.28
		02/95	C/L Speci	VOL		0.38	13TH TSP	+3.16
34	67	02/95	Bobbin	ODI	14	2.60	2ND TSP	+2.80
		02/95	H/L Speci	VOL		1.44	2ND TSP	+3.06
34	78	02/95	Bobbin	ODI	16	0.66	5TH TSP	+13.71
		02/95	H/L Speci	VOL		0.63	5TH TSP	+14.06
34	79	02/95	Bobbin	ODI	1	0.97	7TH TSP	-0.15
34	88	02/95	Bobbin	ODI	6	0.44	4TH TSP	+9.70
34	96	02/95	Bobbin	ODI	13	0.62	13TH TSP	-1.12
		02/95	C/L Speci	VOL		0.63	13TH TSP	-1.09
34	100	02/95	Bobbin	ODI	13	1.98	4TH TSP	+18.26
		02/95	H/L Speci	VOL		1.03	4TH TSP	+18.35
35	17	02/95	Bobbin	ODI	5	0.20	6TH TSP	+0.00
		02/95	Bobbin	ODI	62	0.23	4TH TSP	+0.08
35	19	02/95	Bobbin	ODI	24	0.34	4TH TSP	+0.05
		02/95	Bobbin	ODI	40	0.46	3RD TSP	+0.14
35	21	02/95	Bobbin	ODI	23	0.47	15TH TSP	+4.20
		02/95	C/L Speci	VOL		0.32	15TH TSP	+4.24
35	29	02/95	Bobbin	ODI	61	0.40	2ND TSP	+0.08
35	31	02/95	Bobbin	ODI	14	0.65	8TH TSP	-0.23
35	32	02/95	Bobbin	ODI	9	0.46	4TH TSP	+3.82
		02/95	Bobbin	ODI	3	0.39	13TH TSP	+18.23
		02/95	Bobbin	ODI	9	0.38	13TH TSP	+7.37
		02/95	Bobbin	ODI	11	0.63	12TH TSP	+38.53
		02/95	H/L Speci	VOL		0.22	4TH TSP	+3.83
		02/95	C/L Speci	VOL		0.28	13TH TSP	+17.70
		02/95	C/L Speci	VOL		0.39	11TH TSP	-5.61
		02/95	C/L Speci	VOL		0.40	13TH TSP	+7.15
35	33	02/95	Bobbin	ODI	19	0.19	3RD TSP	+0.16
35	34	02/95	Bobbin	ODI	17	0.90	11TH TSP	+12.49
		02/95	Bobbin	ODI	21	0.60	11TH TSP	+10.34
		02/95	C/L Speci	VOL		0.57	11TH TSP	+10.58
		02/95	C/L Speci	VOL		0.65	11TH TSP	+12.73
35	37	02/95	Bobbin	ODI	41	0.16	2ND TSP	+0.11
35	39	02/95	Bobbin	ODI	21	0.18	7TH TSP	+0.11
35	47	02/95	Bobbin	ODI	6	1.11	5TH TSP	+9.22
		02/95	H/L Speci	VOL		0.56	5TH TSP	+9.59
35	49	02/95	Bobbin	ODI	13	0.56	5TH TSP	+33.61
35	53	02/95	U-Bend	VOL		0.79	8TH TSP	+11.51
		02/95	Bobbin	ODI	4	1.32	8TH TSP	+10.73
		02/95	Bobbin	ODI	18	1.88	8TH TSP	+12.00
35	55	02/95	Bobbin	ODI	8	0.45	4TH TSP	+13.27
		02/95	Bobbin	ODI	9	1.45	3RD TSP	+23.80
		02/95	Bobbin	ODI	12	0.69	3RD TSP	+39.14
		02/95	H/L Speci	VOL		0.25	3RD TSP	+23.04
		02/95	H/L Speci	VOL		1.21	4TH TSP	+13.74
35	61	02/95	Bobbin	ODI	16	1.01	2ND TSP	+9.47
		02/95	Bobbin	ODI	1	0.47	10TH TSP	+6.78
		02/95	Bobbin	ODI	6	0.54	10TH TSP	+3.35
		02/95	Bobbin	ODI	15	0.42	10TH TSP	+11.37
		02/95	H/L Speci	VOL		0.56	2ND TSP	+10.36
		02/95	C/L Speci	VOL		0.15	10TH TSP	+6.48
		02/95	C/L Speci	VOL		0.24	10TH TSP	+3.72
		02/95	C/L Speci	VOL		0.53	10TH TSP	+11.01
35	62	02/95	Bobbin	ODI	7	0.91	5TH TSP	+10.68

BWNT TUBAN II (Version 2.1) 05/01/1995 07:15:15

Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TES' TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	12	0.83	5TH TSP	+12.83
		02/95	H/L Spec	VOL		0.49	5TH TSP	+12.59
		02/95	H/L Spec	VOL		0.54	5TH TSP	+10.67
35	82	02/95	Bobbin	ODI	12	2.81	10TH TSP	+23.56
		02/95	C/L Spec	VOL		0.86	10TH TSP	+22.88
35	84	02/95	Bobbin	ODI	4	0.66	12TH TSP	+36.02
		02/95	C/L Spec	VOL		0.15	11TH TSP	-8.09
35	89	02/95	Bobbin	ODI	12	0.73	8TH TSP	-0.18
		02/95	Bobbin	ODI	24	0.19	3RD TSP	+0.10
35	97	02/95	Bobbin	ODI	63	0.37	3RD TSP	-0.02
36	16	02/95	Bobbin	ODI	10	0.69	10TH TSP	+2.60
		02/95	C/L Spec	VOL		0.32	10TH TSP	+2.84
36	21	02/95	Bobbin	ODI	4	0.40	2ND TSP	+0.14
36	22	02/95	Bobbin	ODI	10	0.47	8TH TSP	-0.11
36	26	02/95	Bobbin	ODI	15	1.02	10TH TSP	+14.79
		02/95	C/L Spec	VOL		0.83	10TH TSP	+14.53
36	31	02/95	Bobbin	ODI	6	0.74	4TH TSP	+4.06
		02/95	Bobbin	ODI	4	0.52	12TH TSP	+23.20
		02/95	Bobbin	ODI	7	0.73	16TH TSP	+2.80
		02/95	H/L Spec	VOL		0.77	4TH TSP	+4.13
		02/95	C/L Spec	VOL		0.31	12TH TSP	+19.48
		02/95	C/L Spec	VOL		0.32	12TH TSP	+15.47
		02/95	C/L Spec	VOL		0.34	12TH TSP	+23.21
		02/95	C/L Spec	VOL		0.49	16TH TSP	+2.83
36	33	02/95	Bobbin	ODI	2	0.72	2ND TSP	+0.25
36	34	02/95	Bobbin	ODI	67	0.27	2ND TSP	+0.14
36	35	02/95	Bobbin	ODI	23	1.30	21ST TSP	+4.50
		02/95	C/L Spec	VOL		0.86	21ST TSP	+4.77
36	36	02/95	Bobbin	ODI	12	0.20	4TH TSP	-0.03
		02/95	Bobbin	ODI	14	0.36	3RD TSP	+0.11
		02/95	Bobbin	ODI	79	0.32	2ND TSP	+0.14
36	39	02/95	Bobbin	ODI	8	0.75	8TH TSP	-0.20
36	40	02/95	Bobbin	ODI	8	0.80	5TH TSP	-1.37
		02/95	H/L Spec	VOL		0.89	5TH TSP	-1.36
36	49	02/95	Bobbin	ODI	65	0.42	7TH TSP	+0.05
36	71	02/95	Bobbin	ODI	8	1.66	6TH TSP	+6.51
		02/95	Bobbin	ODI	13	2.00	14TH TSP	+6.44
		02/95	Bobbin	ODI	25	0.72	14TH TSP	+7.16
		02/95	H/L Spec	VOL		1.84	6TH TSP	+6.33
		02/95	C/L Spec	VOL		1.11	14TH TSP	+6.09
36	84	02/95	Bobbin	NQI		0.79	1ST TSP	+6.84
		02/95	H/L Spec	VOL		0.47	1ST TSP	+6.43
36	87	02/95	Bobbin	ODI	10	0.71	4TH TSP	+6.02
		02/95	H/L Spec	VOL		0.70	4TH TSP	+6.26
36	88	02/95	Bobbin	ODI	5	0.64	7TH TSP	-0.24
36	95	02/95	Bobbin	ODI	13	1.34	5TH TSP	+11.56
		02/95	H/L Spec	VOL		2.02	5TH TSP	+11.80
36	98	02/95	Bobbin	ODI	9	1.12	3RD TSP	+24.44
		02/95	H/L Spec	VOL		0.55	3RD TSP	+24.20
37	17	02/95	Bobbin	ODI	24	0.50	4TH TSP	+0.05
37	22	02/95	Bobbin	NQI		6.59	TE-CL	+9.05
37	28	02/95	Bobbin	ODI	17	0.44	2ND TSP	+6.78
		02/95	H/L Spec	VOL		1.09	2ND TSP	+6.77
37	35	02/95	Bobbin	NQI		1.56	21ST TSP	+2.24
37	40	02/95	Bobbin	ODI	5	0.29	2ND TSP	+0.03
37	46	02/95	Bobbin	ODI	3	0.85	22ND TSP	+9.52
		02/95	C/L Spec	VOL		0.18	22ND TSP	+9.57
37	57	02/95	H/L Spec	SAI		0.13	3RD TSP	-0.09
37	60	02/95	Bobbin	ODI	9	0.93	10TH TSP	+8.62
		02/95	C/L Spec	VOL		0.24	10TH TSP	+8.55
37	62	02/95	Bobbin	ODI	14	1.12	10TH TSP	+4.53
37	67	02/95	Bobbin	ODI	12	1.02	7TH TSP	+1.77
		02/95	H/L Spec	VOL		1.39	7TH TSP	+1.87
37	69	02/95	Bobbin	ODI	24	0.54	22ND TSP	+11.04
		02/95	C/L Spec	VOL		0.56	22ND TSP	+10.88

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
37	72	02/95	Bobbin	WAR	10	0.70	2AVB	+0.00
37	76	02/95	Bobbin	ODI	41	0.60	7TH TSP	-0.16
37	73	02/95	Bobbin	ODI	3	0.71	6TH TSP	+25.79
		02/95	H/L Speci	VOL		0.47	7TH TSP	-18.01
37	60	02/95	Bobbin	NQI		0.43	5TH TSP	+4.57
		02/95	H/L Speci	VOL		1.43	5TH TSP	+4.44
37	90	02/95	Bobbin	ODI	2	0.69	3RD TSP	+34.89
		02/95	H/L Speci	VOL		0.52	4TH TSP	-8.82
		02/95	H/L Speci	VOL		0.67	4TH TSP	-3.44
37	96	02/95	Bobbin	NQI		42.35	TTS-CL	-0.20
38	20	02/95	Bobbin	ODI	21	0.35	3RD TSP	+0.21
38	23	02/95	Bobbin	NQI		1.43	TTS-CL	+3.48
		02/95	C/L Speci	VOL		0.78	TTS-CL	+3.40
38	25	02/95	Bobbin	ODI	51	0.34	5TH TSP	-0.29
		02/95	Bobbin	ODI	16	1.30	12TH TSP	+11.73
		02/95	C/L Speci	VOL		0.55	12TH TSP	+11.72
38	26	02/95	Bobbin	ODI	1	0.63	2ND TSP	+0.20
		02/95	Bobbin	ODI	41	0.24	3RD TSP	+0.05
38	27	02/95	Bobbin	ODI	5	0.40	2ND TSP	+0.13
38	32	02/95	Bobbin	ODI	9	0.33	3RD TSP	+0.13
38	37	02/95	Bobbin	ODI	9	0.35	7TH TSP	-0.08
38	38	02/95	Bobbin	ODI	14	1.60	22ND TSP	+9.95
		02/95	C/L Speci	VOL		0.22	10TH TSP	-8.76
		02/95	C/L Speci	VOL		0.76	22ND TSP	+9.41
38	39	02/95	Bobbin	ODI	15	0.50	6TH TSP	+13.39
		02/95	H/L Speci	VOL		0.48	6TH TSP	+13.30
38	55	02/95	Bobbin	ODI	33	0.46	15TH TSP	+3.70
		02/95	C/L Speci	VOL		0.11	15TH TSP	+3.68
		02/95	C/L Speci	VOL		0.38	15TH TSP	+0.76
38	60	02/95	H/L Tubes	MAI		3.19	TTS-HL	-3.15
38	62	02/95	Bobbin	ODI	10	0.39	2ND TSP	-0.03
38	66	02/95	H/L Speci	VOL		0.56	4TH TSP	-24.47
		02/95	H/L Speci	VOL		0.57	4TH TSP	-23.13
		02/95	H/L Speci	VOL		1.60	4TH TSP	-7.46
		02/95	C/L Speci	VOL		0.39	11TH TSP	+23.10
38	67	02/95	Bobbin	ODI	91	0.66	3RD TSP	+0.11
38	71	02/95	H/L Speci	VOL		1.36	5TH TSP	-12.64
38	75	02/95	Bobbin	ODI	8	1.12	4TH TSP	+27.42
		02/95	H/L Speci	VOL		1.65	5TH TSP	-16.85
38	85	02/95	Bobbin	ODI	8	1.30	7TH TSP	+34.20
		02/95	Bobbin	ODI	10	0.76	7TH TSP	+33.69
		02/95	H/L Speci	VOL		1.78	8TH TSP	-9.72
38	95	02/95	Bobbin	ODI	8	0.80	3RD TSP	+0.18
39	29	02/95	Bobbin	ODI	1	0.90	5TH TSP	+0.16
		02/95	Bobbin	ODI	22	0.92	1ST TSP	+0.93
		02/95	H/L Speci	VOL		1.40	1ST TSP	+0.94
39	33	02/95	Bobbin	ODI	3	0.48	13TH TSP	+6.80
		02/95	Bobbin	ODI	15	0.28	13TH TSP	+2.18
		02/95	Bobbin	ODI	24	1.27	13TH TSP	+0.86
		02/95	C/L Speci	VOL		0.42	13TH TSP	+0.75
39	34	02/95	Bobbin	ODI	8	0.53	10TH TSP	+4.56
		02/95	Bobbin	ODI	25	0.46	11TH TSP	+4.29
		02/95	C/L Speci	VOL		0.14	11TH TSP	+39.86
		02/95	C/L Speci	VOL		0.41	10TH TSP	+4.74
		02/95	C/L Speci	VOL		0.42	11TH TSP	+4.34
39	37	02/95	Bobbin	ODI	4	0.25	7TH TSP	-0.03
39	39	02/95	Bobbin	ODI	3	0.43	12TH TSP	+14.55
		02/95	C/L Speci	VOL		0.26	12TH TSP	+14.93
39	40	02/95	H/L Speci	VOL		0.70	3RD TSP	+18.43
39	44	02/95	Bobbin	NQI		3.22	TE-HL	+5.64
39	49	02/95	Bobbin	ODI	53	0.25	7TH TSP	-0.05
39	50	02/95	Bobbin	ODI	11	0.69	12TH TSP	+33.50
		02/95	C/L Speci	VOL		0.34	11TH TSP	-10.93
39	56	02/95	Bobbin	ODI	7	0.25	6TH TSP	+0.05
39	60	02/95	Bobbin	ODI	10	1.56	1ST TSP	+13.48

BWNT TUBA II (Version 2.1) 05/01/1995 07:15:15

Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		2.44	2ND TSP	-5.63
39	61	02/95	Bobbin	ODI	4	0.72	6TH TSP	+25.89
		02/95	H/L Speci	VOL		0.16	7TH TSP	-18.62
39	63	02/95	Bobbin	ODI	13	1.26	2ND TSP	+13.80
39	80	02/95	Bobbin	ODI	29	0.29	7TH TSP	+0.00
39	94	02/95	Bobbin	ODI	22	1.03	10TH TSP	+2.34
		02/95	C/L Speci	VOL		0.43	10TH TSP	+2.07
40	20	02/95	H/L Tubes	VOL		0.47	TTS-HL	+0.11
40	28	02/95	Bobbin	NQI		0.52	7TH TSP	+40.42
		02/95	Bobbin	ODI	39	0.29	18TH TSP	+12.49
		02/95	H/L Speci	VOL		0.86	8TH TSP	-2.69
		02/95	C/L Speci	VOL		0.14	18TH TSP	+12.22
40	41	02/95	Bobbin	ODI	3	0.53	2ND TSP	+0.03
		02/95	Bobbin	ODI	29	0.44	6TH TSP	+0.00
40	42	02/95	Bobbin	ODI	7	0.89	3RD TSP	+12.53
		02/95	H/L Speci	VOL		2.11	3RD TSP	+12.29
40	45	02/95	Bobbin	ODI	74	0.31	4TH TSP	+0.03
40	47	02/95	H/L Tubes	VOL		0.50	TTS-HL	-2.36
40	50	02/95	H/L Tubes	VOL		0.54	TTS-HL	-4.21
40	57	02/95	Bobbin	NQI		4.19	TE-CL	+10.97
40	58	02/95	C/L Speci	VOL		0.23	12TH TSP	+9.97
40	60	02/95	H/L Speci	VOL		0.86	3RD TSP	-10.48
40	89	02/95	Bobbin	ODI	45	0.30	3RD TSP	+0.05
		02/95	Bobbin	ODI	75	0.48	4TH TSP	-0.15
40	90	02/95	Bobbin	ODI	16	0.36	6TH TSP	+0.11
		02/95	Bobbin	ODI	21	0.29	7TH TSP	-0.03
40	92	02/95	H/L Tubes	SAI		0.79	TTS-HL	-2.60
40	93	02/95	Bobbin	NQI		0.26	5TH TSP	+4.29
		02/95	H/L Speci	VOL		0.71	5TH TSP	+4.43
41	21	02/95	Bobbin	ODI	6	1.39	12TH TSP	+17.33
		02/95	C/L Speci	VOL		0.49	12TH TSP	+16.23
41	27	02/95	Bobbin	ODI	38	0.31	2ND TSP	+0.10
		02/95	H/L Tubes	SAI		1.86	TTS-HL	+0.07
41	29	02/95	Bobbin	ODI	14	0.31	2ND TSP	+0.10
41	31	02/95	Bobbin	ODI	16	0.49	2ND TSP	+0.13
41	35	02/95	Bobbin	ODI	6	0.42	11TH TSP	+29.74
		02/95	C/L Speci	VOL		0.30	11TH TSP	+27.98
41	37	02/95	Bobbin	NQI		2.14	TE-HL	+5.26
		02/95	Bobbin	NQI		4.05	TE-HL	+4.42
		02/95	Bobbin	NQI		10.00	TE-HL	+6.46
41	42	02/95	Bobbin	ODI	10	0.43	6TH TSP	+35.77
		02/95	H/L Speci	VOL		0.74	6TH TSP	+34.84
41	53	02/95	Bobbin	WAR	4	0.86	18TH TSP	+0.00
		02/95	Bobbin	WAR	6	1.55	15TH TSP	+0.00
		02/95	C/L Speci	NQI		0.21	18TH TSP	-0.24
41	54	02/95	C/L Speci	NQI		0.17	18TH TSP	-0.28
41	55	02/95	Bobbin	ODI	44	0.67	18TH TSP	+0.31
		02/95	Bobbin	WAR	11	2.67	15TH TSP	+0.00
		02/95	C/L Speci	NQI		0.33	18TH TSP	+0.46
41	57	02/95	Bobbin	ODI	4	0.80	10TH TSP	+35.29
		02/95	C/L Speci	VOL		0.32	9TH TSP	-8.71
41	58	02/95	Bobbin	NQI		0.33	12TH TSP	+14.50
		02/95	Bobbin	ODI	21	0.28	12TH TSP	+16.17
		02/95	C/L Speci	VOL		0.15	12TH TSP	+14.39
		02/95	C/L Speci	VOL		0.26	12TH TSP	+15.86
41	62	02/95	Bobbin	WAR	5	0.96	15TH TSP	+0.00
41	63	02/95	Bobbin	ODI	49	1.59	18TH TSP	+0.38
		02/95	C/L Speci	VOL		1.01	18TH TSP	+0.00
41	65	02/95	Bobbin	NQI		0.79	18TH TSP	+0.32
		02/95	C/L Speci	VOL		1.21	18TH TSP	+0.00
41	66	02/95	Bobbin	NQI		0.56	17TH TSP	+0.29
		02/95	C/L Speci	VOL		0.92	17TH TSP	+0.00
41	69	02/95	H/L Speci	VOL		0.91	6TH TSP	-8.25
41	75	02/95	Bobbin	NQI		0.54	4TH TSP	+38.69
		02/95	H/L Speci	VOL		1.70	5TH TSP	-5.44

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
41	76	02/95	Bobbin	ODI	14	0.77	6TH TSP	+22.40
		02/95	H/L Spec	VOL		1.32	7TH TSP	-21.84
41	81	02/95	Bobbin	ODI	51	0.41	3RD TSP	+0.05
41	88	02/95	Bobbin	ODI	30	1.15	6TH TSP	+32.60
		02/95	Bobbin	ODI	69	0.37	3RD TSP	+0.08
		02/95	H/L Spec	VOL		2.49	7TH TSP	-12.16
41	93	02/95	Bobbin	ODI	22	0.25	4TH TSP	-0.13
		02/95	Bobbin	ODI	31	1.08	2ND TSP	+0.10
		02/95	Bobbin	ODI	50	0.43	3RD TSP	+0.18
42	31	02/95	Bobbin	ODI	3	0.22	5TH TSP	-0.24
		02/95	Bobbin	ODI	32	0.40	17TH TSP	+4.02
42	32	02/95	Bobbin	NQI		0.48	TTS-CL	+3.99
		02/95	C/L Spec	VOL		0.23	TTS-CL	+3.70
42	34	02/95	Bobbin	ODI	10	0.16	7TH TSP	+0.17
		02/95	Bobbin	ODI	11	0.35	6TH TSP	-0.14
42	42	02/95	Bobbin	ODI	14	1.47	7TH TSP	+9.84
		02/95	H/L Spec	VOL		1.50	7TH TSP	+9.77
42	55	02/95	Bobbin	ODI	3	1.89	4TH TSP	+27.36
		02/95	Bobbin	ODI	32	1.04	18TH TSP	+0.38
		02/95	H/L Spec	VOL		4.50	5TH TSP	-16.37
		02/95	C/L Spec	NQI		0.30	18TH TSP	+0.30
42	60	02/95	Bobbin	WAR	3	0.63	15TH TSP	+0.00
42	61	02/95	Bobbin	WAR	11	2.15	15TH TSP	+0.00
42	62	02/95	Bobbin	WAR	2	0.42	15TH TSP	+0.00
42	64	02/95	Bobbin	WAR	9	1.78	15TH TSP	+0.00
42	65	02/95	Bobbin	ODI	35	1.43	18TH TSP	+0.40
		02/95	Bobbin	WAR	3	2.29	15TH TSP	+0.00
		02/95	C/L Spec	VOL		0.67	18TH TSP	+0.00
42	66	02/95	Bobbin	ODI	60	0.62	17TH TSP	+0.27
		02/95	C/L Spec	VOL		0.87	17TH TSP	+0.00
42	68	02/95	Bobbin	ODI	90	0.86	3RD TSP	+0.18
42	71	02/95	Bobbin	ODI	21	0.25	3RD TSP	+0.15
42	80	02/95	Bobbin	ODI	34	0.17	2ND TSP	+0.02
		02/95	Bobbin	ODI	36	0.46	4TH TSP	-0.24
42	84	02/95	Bobbin	ODI	20	0.22	6TH TSP	-0.12
		02/95	Bobbin	ODI	23	0.45	4TH TSP	-0.17
42	86	02/95	Bobbin	ODI	34	0.27	6TH TSP	-0.02
		02/95	Bobbin	ODI	35	0.22	4TH TSP	+0.06
		02/95	Bobbin	ODI	36	0.34	3RD TSP	+0.10
42	88	02/95	Bobbin	ODI	14	0.51	3RD TSP	+0.02
42	91	02/95	Bobbin	ODI	76	0.53	2ND TSP	+0.10
		02/95	Bobbin	ODI	85	0.41	4TH TSP	+0.10
42	92	02/95	Bobbin	ODI	11	0.34	4TH TSP	+0.10
		02/95	Bobbin	ODI	73	0.53	3RD TSP	+0.07
42	93	02/95	Bobbin	ODI	1	0.34	2ND TSP	+0.10
		02/95	Bobbin	ODI	14	0.23	3RD TSP	+0.00
		02/95	Bobbin	ODI	41	0.40	5TH TSP	+0.08
		02/95	Bobbin	ODI	45	0.28	4TH TSP	+0.08
43	24	02/95	Bobbin	ODI	8	1.14	6TH TSP	+26.90
		02/95	H/L Spec	VOL		0.46	6TH TSP	+25.78
43	47	02/95	Bobbin	ODI	43	0.47	4TH TSP	+0.20
		02/95	H/L Spec	SAI		0.37	4TH TSP	+0.13
43	50	02/95	Bobbin	NQI		0.36	18TH TSP	+0.36
		02/95	Bobbin	ODI	1	1.02	22ND TSP	+2.59
		02/95	C/L Spec	VOL		0.13	18TH TSP	+0.00
		02/95	C/L Spec	VOL		0.18	22ND TSP	+2.38
43	54	02/95	Bobbin	NQI		0.43	7TH TSP	+18.48
		02/95	Bobbin	NQI		0.55	18TH TSP	+0.39
		02/95	H/L Spec	VOL		0.93	7TH TSP	+17.40
		02/95	H/L Spec	VOL		1.29	6TH TSP	+22.07
		02/95	C/L Spec	NQI		0.48	18TH TSP	+0.38
		02/95	C/L Spec	VOL		0.46	18TH TSP	+0.00
43	55	02/95	Bobbin	NQI		0.31	13TH TSP	+3.81
		02/95	Bobbin	WAR	10	2.56	15TH TSP	+0.00
		02/95	C/L Spec	NQI		0.21	18TH TSP	+0.36

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.32	13TH TSP	+3.88
43	61	02/95	Bobbin	NQI		1.53	TTS-CL	-0.82
		02/95	Bobbin	ODI	19	0.35	18TH TSP	+0.57
		02/95	C/L Speci	VOL		0.34	18TH TSP	+0.00
43	64	02/95	C/L Speci	VOL		0.42	21ST TSP	+1.77
43	65	02/95	Bobbin	NQI		0.84	18TH TSP	+0.35
		02/95	Bobbin	WAR	12	3.23	15TH TSP	+0.00
		02/95	C/L Speci	NQI		1.69	18TH TSP	+0.37
43	74	02/95	H/L Speci	VOL		0.39	1ST TSP	+7.73
43	80	02/95	H/L Speci	VOL		0.51	8TH TSP	+0.04
43	82	02/95	Bobbin	NQI		0.70	17TH TSP	+7.89
		02/95	C/L Speci	VOL		0.62	17TH TSP	+7.33
44	26	02/95	H/L Speci	VOL		0.63	1ST TSP	+17.13
44	34	02/95	Bobbin	ODI	10	0.70	13TH TSP	+16.98
		02/95	C/L Speci	VOL		0.36	12TH TSP	-4.90
44	49	02/95	U-Bend	VOL		0.22	3AVB	+4.31
		02/95	Bobbin	ODI	36	0.66	18TH TSP	+0.33
		02/95	C/L Speci	NQI		0.80	18TH TSP	+0.26
44	51	02/95	Bobbin	ODI	35	1.48	18TH TSP	+0.43
		02/95	C/L Speci	NQI		1.12	18TH TSP	+0.43
44	53	02/95	C/L Speci	NQI		0.24	18TH TSP	+0.34
44	54	02/95	Bobbin	WAR	9	2.17	17TH TSP	+0.00
		02/95	C/L Speci	NQI		0.07	18TH TSP	+0.41
44	55	02/95	Bobbin	NQI		0.55	18TH TSP	+0.32
		02/95	C/L Speci	NQI		0.70	18TH TSP	+0.33
44	57	02/95	Bobbin	WAR	6	1.49	17TH TSP	+0.00
		02/95	Bobbin	WAR	10	2.40	20TH TSP	+0.00
44	66	02/95	H/L Speci	VOL		0.58	4TH TSP	-13.74
44	70	02/95	Bobbin	ODI	9	2.67	22ND TSP	+9.18
		02/95	C/L Speci	VOL		0.78	22ND TSP	+8.69
44	72	02/95	Bobbin	ODI	7	1.44	4TH TSP	+1.93
		02/95	H/L Speci	VOL		0.14	4TH TSP	+14.79
		02/95	H/L Speci	VOL		0.75	4TH TSP	+2.16
		02/95	H/L Speci	VOL		0.99	4TH TSP	-0.97
44	77	02/95	H/L Speci	SAI		0.25	3RD TSP	+0.11
		02/95	H/L Speci	VOL		0.15	5TH TSP	+0.89
		02/95	H/L Speci	VOL		0.25	5TH TSP	+2.27
		02/95	H/L Speci	VOL		0.86	2ND TSP	-1.36
44	78	02/95	Bobbin	ODI	29	1.27	1ST TSP	+11.07
		02/95	H/L Speci	VOL		0.37	2ND TSP	-6.95
		02/95	H/L Speci	VOL		0.56	2ND TSP	-7.86
44	79	02/95	Bobbin	ODI	7	0.32	3RD TSP	+0.08
44	80	02/95	Bobbin	ODI	61	0.37	2ND TSP	+0.14
44	82	02/95	Bobbin	ODI	6	0.38	2ND TSP	+0.25
44	85	02/95	Bobbin	ODI	24	0.34	2ND TSP	-0.25
44	92	02/95	Bobbin	ODI	4	0.73	2ND TSP	+18.79
		02/95	H/L Speci	VOL		0.49	3RD TSP	-5.66
45	28	02/95	Bobbin	NQI		0.92	4AVB	+15.34
		02/95	U-Bend	VOL		0.52	4AVB	+15.70
45	37	02/95	Bobbin	ODI	8	1.08	10TH TSP	+20.98
		02/95	C/L Speci	VOL		0.17	10TH TSP	+20.62
45	39	02/95	H/L Speci	VOL		0.82	5TH TSP	-8.33
45	41	02/95	Bobbin	ODI	11	1.79	12TH TSP	+8.45
		02/95	C/L Speci	VOL		0.59	12TH TSP	+8.32
45	48	02/95	Bobbin	ODI	2	0.40	2ND TSP	+0.03
		02/95	Bobbin	ODI	52	0.56	4TH TSP	-0.05
45	59	02/95	Bobbin	ODI	8	0.62	2ND TSP	+0.05
		02/95	Bobbin	ODI	13	0.57	18TH TSP	+0.43
		02/95	C/L Speci	NQI		0.20	18TH TSP	+0.35
45	60	02/95	Bobbin	NQI		0.33	18TH TSP	+0.38
		02/95	C/L Speci	NQI		0.31	18TH TSP	+0.40
45	62	02/95	Bobbin	ODI	14	0.44	2ND TSP	+0.19
45	63	02/95	Bobbin	WAR	5	1.24	14TH TSP	+0.00
		02/95	Bobbin	WAR	6	1.50	15TH TSP	+0.00
45	64	02/95	Bobbin	NQI		0.57	18TH TSP	+0.37

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION
		02/95	Bobbin	WAR	4	0.98	15TH TSP +0.00
		02/95	C/L Speci	NQI		0.41	18TH TSP +0.52
45	65	02/95	Bobbin	ODI	51	1.57	18TH TSP +0.39
		02/95	Bobbin	WAR	15	4.04	17TH TSP +0.00
		02/95	C/L Speci	VOL		1.12	18TH TSP +0.00
45	66	02/95	Bobbin	WAR	4	1.17	17TH TSP +0.00
45	78	02/95	U-Bend	VOL		0.67	8TH TSP +9.03
45	80	02/95	H/L Speci	VOL		0.27	5TH TSP +12.79
45	81	02/95	U-Bend	VOL		0.69	4AVB +15.25
45	86	02/95	H/L Speci	VOL		0.17	2ND TSP +13.48
		02/95	H/L Speci	VOL		0.47	2ND TSP -6.18
46	30	02/95	Bobbin	ODI	16	0.57	1ST TSP +8.76
		02/95	Bobbin	ODI	52	0.32	5TH TSP +0.09
		02/95	H/L Speci	VOL		1.37	1ST TSP +8.07
46	34	02/95	Bobbin	ODI	7	0.70	1ST TSP +6.54
		02/95	H/L Speci	VOL		0.50	1ST TSP +6.81
46	37	02/95	Bobbin	ODI	13	0.36	7TH TSP +20.83
		02/95	H/L Speci	VOL		0.20	7TH TSP +20.47
46	41	02/95	Bobbin	ODI	1	0.55	4TH TSP +0.02
		02/95	Bobbin	ODI	23	0.57	2ND TSP +0.08
46	43	02/95	Bobbin	ODI	33	0.39	4TH TSP +0.00
		02/95	Bobbin	ODI	50	0.42	7TH TSP +0.08
		02/95	Bobbin	ODI	13	2.07	18TH TSP +5.86
		02/95	C/L Speci	VOL		0.86	18TH TSP +6.05
46	50	02/95	Bobbin	ODI	16	0.32	7TH TSP +0.13
		02/95	Bobbin	WAR	12	2.34	17TH TSP +0.00
46	51	02/95	Bobbin	ODI	72	0.40	2ND TSP +0.02
		02/95	Bobbin	ODI	80	0.25	4TH TSP +0.02
		02/95	Bobbin	WAR	11	2.07	17TH TSP +0.00
46	52	02/95	Bobbin	WAR	8	1.50	17TH TSP +0.00
46	53	02/95	Bobbin	ODI	94	0.47	4TH TSP -0.05
		02/95	Bobbin	WAR	14	2.77	17TH TSP +0.00
46	54	02/95	Bobbin	WAR	5	1.05	17TH TSP +0.00
46	57	02/95	Bobbin	WAR	15	3.14	15TH TSP +0.00
46	58	02/95	Bobbin	WAR	6	1.73	15TH TSP +0.00
46	60	02/95	Bobbin	WAR	3	0.79	15TH TSP +0.00
		02/95	Bobbin	WAR	4	0.39	17TH TSP +0.00
46	61	02/95	Bobbin	WAR	2	0.49	15TH TSP +0.00
46	62	02/95	Bobbin	WAR	6	1.51	17TH TSP +0.00
46	64	02/95	Bobbin	WAR	10	2.65	15TH TSP +0.00
47	29	02/95	Bobbin	ODI	50	0.64	2ND TSP +0.02
47	40	02/95	Bobbin	ODI	15	0.54	12TH TSP +8.96
		02/95	C/L Speci	VOL		0.58	12TH TSP +9.12
47	49	02/95	Bobbin	WAR	9	2.32	17TH TSP +0.00
47	50	02/95	Bobbin	WAR	7	1.73	15TH TSP +0.00
		02/95	Bobbin	WAR	18	4.93	17TH TSP +0.00
47	52	02/95	Bobbin	NQI		0.47	18TH TSP +0.34
		02/95	C/L Speci	VOL		0.37	18TH TSP +0.00
47	53	02/95	Bobbin	WAR	5	1.12	15TH TSP +0.00
		02/95	Bobbin	WAR	24	7.35	17TH TSP +0.00
47	54	02/95	Bobbin	ODI	6	0.29	11TH TSP +3.75
		02/95	Bobbin	WAR	5	1.23	17TH TSP +0.00
		02/95	Bobbin	WAR	10	2.66	20TH TSP +0.00
		02/95	C/L Speci	VOL		0.68	11TH TSP +3.72
47	55	02/95	Bobbin	WAR	6	1.36	15TH TSP +0.00
47	56	02/95	Bobbin	WAR	10	2.55	17TH TSP +0.00
47	57	02/95	Bobbin	WAR	10	2.43	15TH TSP -0.10
47	59	02/95	Bobbin	ODI	49	0.52	18TH TSP +0.36
		02/95	Bobbin	WAR	12	3.35	17TH TSP +0.00
		02/95	C/L Speci	VOL		0.64	18TH TSP +0.00
47	60	02/95	Bobbin	WAR	13	3.65	15TH TSP +0.00
		02/95	Bobbin	WAR	21	6.28	17TH TSP +0.00
47	61	02/95	Bobbin	ODI	51	2.56	18TH TSP +0.34
		02/95	Bobbin	WAR	7	1.83	15TH TSP +0.00
		02/95	Bobbin	WAR	12	3.25	17TH TSP +0.00

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
		02/95	C/L Speci	VOL		0.28	18TH TSP	+0.59	
		02/95	C/L Speci	VOL		1.56	18TH TSP	+0.00	
47	65	02/95	Bobbin	WAR	7	1.76	15TH TSP	+0.00	
47	66	02/95	Bobbin	WAR	8	2.04	15TH TSP	+0.00	
		02/95	Bobbin	WAR	13	3.67	17TH TSP	+0.00	
47	74	02/95	H/L Speci	VOL		0.72	5TH TSP	-3.17	
		02/95	H/L Speci	VOL		0.73	5TH TSP	-6.90	
		02/95	H/L Speci	VOL		0.77	5TH TSP	-5.52	
47	85	02/95	H/L Speci	VOL		0.30	2ND TSP	-0.01	
47	86	02/95	H/L Speci	VOL		0.23	2ND TSP	+0.20	
48	30	02/95	Bobbin	ODI	3	0.71	2ND TSP	+0.05	
48	33	02/95	Bobbin	NQI		0.48	17TH TSP	+5.43	
		02/95	C/L Speci	VOL		0.52	17TH TSP	+5.34	
48	35	02/95	Bobbin	NQI		8.30	TE-HL	+12.17	
48	36	02/95	Bobbin	ODI	28	0.28	3RD TSP	+0.06	
48	37	02/95	Bobbin	ODI	37	0.46	3RD TSP	+0.08	
48	41	02/95	Bobbin	ODI	3	0.21	2ND TSP	+0.13	
		02/95	Bobbin	ODI	6	0.66	3RD TSP	+0.10	
48	52	02/95	Bobbin	WAR	14	3.47	15TH TSP	+0.00	
		02/95	Bobbin	WAR	22	5.85	17TH TSP	+0.00	
48	53	02/95	Bobbin	WAR	10	2.31	17TH TSP	+0.00	
48	55	02/95	Bobbin	WAR	15	3.51	15TH TSP	+0.00	
		02/95	Bobbin	WAR	22	5.75	17TH TSP	+0.00	
48	56	02/95	Bobbin	WAR	5	1.14	15TH TSP	-0.17	
		02/95	Bobbin	WAR	7	1.74	12TH TSP	+0.00	
		02/95	Bobbin	WAR	12	3.11	17TH TSP	+0.00	
48	57	02/95	Bobbin	ODI	9	0.90	5TH TSP	+0.07	
		02/95	Bobbin	WAR	24	7.16	17TH TSP	+0.00	
48	58	02/95	Bobbin	WAR	13	3.63	15TH TSP	+0.00	
		02/95	Bobbin	WAR	20	6.04	17TH TSP	+0.00	
48	59	02/95	Bobbin	ODI	71	0.19	5TH TSP	+0.00	
		02/95	Bobbin	WAR	15	4.15	18TH TSP	+0.00	
		02/95	Bobbin	WAR	24	7.63	17TH TSP	+0.00	
		02/95	Bobbin	WAR	30	10.28	15TH TSP	+0.00	
48	60	02/95	Bobbin	WAR	7	1.81	17TH TSP	+0.00	
48	62	02/95	Bobbin	NQI		0.62	18TH TSP	+0.39	
		02/95	Bobbin	ODI	35	0.96	2ND TSP	+14.83	
		02/95	Bobbin	ODI	67	0.80	4TH TSP	-0.03	
		02/95	Bobbin	WAR	9	2.39	18TH TSP	+0.00	
		02/95	Bobbin	WAR	21	6.48	17TH TSP	+0.00	
		02/95	Bobbin	WAR	24	7.51	15TH TSP	+0.00	
		02/95	H/L Speci	VOL		1.46	2ND TSP	+14.97	
		02/95	C/L Speci	NQI		0.58	18TH TSP	+0.43	
		02/95	C/L Speci	VOL		0.74	18TH TSP	+0.00	
48	64	02/95	Bobbin	WAR	7	1.89	17TH TSP	+0.00	
		02/95	Bobbin	WAR	25	8.05	15TH TSP	+0.00	
48	67	02/95	Bobbin	ODI	1	0.72	2ND TSP	+0.10	
48	71	02/95	H/L Tubes	VOL		0.84	TTS-HL	-2.79	
48	75	02/95	U-Bend	VOL		0.58	9TH TSP	+32.46	
		02/95	Bobbin	ODI	1	0.54	4TH TSP	+0.05	
		02/95	Bobbin	ODI	79	1.68	3RD TSP	+0.10	
		02/95	H/L Speci	SAI		2.14	3RD TSP	+0.08	
48	80	02/95	Bobbin	ODI	8	0.53	5TH TSP	+13.31	
		02/95	Bobbin	ODI	11	0.69	5TH TSP	+17.97	
		02/95	Bobbin	ODI	19	0.64	5TH TSP	+21.05	
		02/95	Bobbin	ODI	23	0.59	5TH TSP	+25.12	
		02/95	H/L Speci	VOL		0.26	5TH TSP	+17.82	
		02/95	H/L Speci	VOL		0.30	5TH TSP	+21.96	
		02/95	H/L Speci	VOL		0.44	5TH TSP	+13.76	
		02/95	H/L Speci	VOL		1.64	5TH TSP	+25.33	
48	86	02/95	Bobbin	ODI	19	0.40	5TH TSP	+5.53	
		02/95	Bobbin	ODI	26	0.53	5TH TSP	+7.80	
		02/95	H/L Speci	VOL		0.30	5TH TSP	+11.28	
		02/95	H/L Speci	VOL		0.32	5TH TSP	+5.86	
		02/95	H/L Speci	VOL		0.44	5TH TSP	+7.85	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION
49	31	02/95	Bobbin	ODI	24	0.54	2ND TSP -0.21
49	36	02/95	Bobbin	NQI		0.55	11TH TSP +39.11
		02/95	C/L Spec	VOL		0.37	10TH TSP -6.78
49	38	02/95	Bobbin	ODI	3	0.46	6TH TSP +37.67
		02/95	Bobbin	ODI	6	0.63	17TH TSP +6.58
		02/95	Bobbin	ODI	12	0.95	10TH TSP +26.95
		02/95	C/L Spec	VOL		0.17	17TH TSP +6.44
		02/95	C/L Spec	VOL		0.29	17TH TSP +10.51
		02/95	C/L Spec	VOL		0.74	10TH TSP +26.94
49	40	02/95	Bobbin	NQI		2.83	3RD TSP +19.00
		02/95	H/L Spec	VOL		1.06	3RD TSP +19.60
49	46	02/95	Bobbin	WAR	30	3.11	4AVB +0.00
		02/95	Bobbin	ODI	62	0.83	4TH TSP +0.02
		02/95	H/L Spec	SAI		0.30	4TH TSP +0.08
49	47	02/95	H/L Spec	VOL		0.72	7TH TSP -0.11
49	48	02/95	Bobbin	NQI		0.81	5TH TSP +27.98
		02/95	Bobbin	NQI		1.35	9TH TSP +3.32
		02/95	U-Bend	VOL		0.20	9TH TSP +3.35
		02/95	U-Bend	VOL		0.23	9TH TSP +0.57
		02/95	Bobbin	NQI		0.89	10TH TSP +38.03
		02/95	C/L Spec	VOL		0.54	9TH TSP -6.15
		02/95	H/L Spec	VOL		0.27	6TH TSP -16.43
49	49	02/95	Bobbin	WAR	9	2.19	16TH TSP +0.00
49	52	02/95	Bobbin	NQI		0.49	6TH TSP +7.88
		02/95	H/L Spec	VOL		0.26	6TH TSP +8.07
49	53	02/95	Bobbin	WAR	8	2.12	18TH TSP +0.00
		02/95	Bobbin	WAR	10	2.77	15TH TSP +0.00
		02/95	Bobbin	WAR	20	6.08	17TH TSP +0.00
		02/95	H/L Spec	SAI		0.19	5TH TSP +0.00
49	54	02/95	Bobbin	WAR	28	2.65	4AVB +0.00
		02/95	Bobbin	WAR	13	3.57	15TH TSP +0.00
		02/95	Bobbin	WAR	15	4.19	18TH TSP +0.00
		02/95	Bobbin	WAR	25	8.22	17TH TSP +0.00
		02/95	H/L Spec	SAI		0.33	4TH TSP -0.04
49	55	02/95	Bobbin	WAR	6	1.58	15TH TSP +0.00
		02/95	Bobbin	WAR	10	2.68	17TH TSP +0.00
49	56	02/95	Bobbin	WAR	23	6.98	17TH TSP +0.00
49	61	02/95	Bobbin	ODI	3	0.82	5TH TSP +27.54
		02/95	Bobbin	WAR	18	5.10	15TH TSP +0.00
		02/95	Bobbin	WAR	30	10.16	17TH TSP +0.00
		02/95	H/L Spec	VOL		0.32	5TH TSP +27.75
49	62	02/95	Bobbin	WAR	23	7.08	17TH TSP +0.00
49	63	02/95	Bobbin	WAR	11	2.90	15TH TSP +0.00
		02/95	Bobbin	WAR	30	10.38	17TH TSP +0.00
49	64	02/95	Bobbin	WAR	10	2.68	15TH TSP +0.00
49	66	02/95	Bobbin	WAR	6	1.44	17TH TSP +0.00
49	68	02/95	Bobbin	ODI	13	0.83	6TH TSP +24.56
		02/95	Bobbin	ODI	27	0.26	6TH TSP +24.83
		02/95	H/L Spec	VOL		0.39	6TH TSP +3.74
		02/95	H/L Spec	VOL		0.64	6TH TSP +24.66
49	69	02/95	H/L Tubes	VOL		0.50	TTS-HL -1.39
		02/95	H/L Tubes	VOL		0.84	TTS-HL -2.32
49	70	02/95	Bobbin	ODI	70	0.67	4TH TSP +0.15
49	71	02/95	Bobbin	WAR	6	1.50	19TH TSP +0.00
		02/95	H/L Tubes	MAI		0.99	TTS-HL -2.48
49	72	02/95	Bobbin	NQI		0.83	9TH TSP +14.73
49	73	02/95	H/L Tubes	VOL		0.34	TTS-HL -3.31
		02/95	H/L Tubes	VOL		0.54	TTS-HL -1.68
49	74	02/95	Bobbin	ODI	8	0.88	2ND TSP +0.03
49	76	02/95	Bobbin	ODI	33	0.39	5TH TSP +0.48
49	79	02/95	Bobbin	ODI	27	0.61	6TH TSP +14.47
		02/95	H/L Spec	VOL		0.95	6TH TSP +14.31
49	80	02/95	Bobbin	ODI	2	1.05	2ND TSP +0.05
		02/95	C/L Spec	VOL		0.29	15TH TSP -3.72
49	82	02/95	Bobbin	ODI	19	0.88	1AVB +28.15

BWNT TUBAN II (Version 2.1) 05/01/1995 07:15:15

Catawba Nuclear Station - Unit One

S/G A

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G A - ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

49	84	02/95	Bobbin	WAR	8	1.97	19TH TSP	+0.00
		02/95	Bobbin	WAR	9	2.33	16TH TSP	+0.00

Total Indications Found = 2212

Total Tubes Found = 1018

ATTACHMENT 2

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
1	7	02/95	C/L Speci	VOL		0.20	22ND TSP	+3.69	
1	30	02/95	C/L Speci	VOL		0.17	21ST TSP	+8.84	
1	32	02/95	C/L Speci	VOL		0.20	12TH TSP	+16.92	
		02/95	C/L Speci	VOL		0.26	11TH TSP	+16.63	
1	39	02/95	Bobbin	NQI		1.30	TE-HL	+13.99	
1	49	02/95	H/L Tubes	MAI		0.96	TTS-HL	-2.22	
1	51	02/95	Bobbin	ODI	6	0.43	3RD TSP	+17.62	
		02/95	Bobbin	ODI	4	0.69	21ST TSP	+9.35	
		02/95	Bobbin	ODI	8	0.41	21ST TSP	+7.02	
		02/95	H/L Speci	VOL		0.21	3RD TSP	+17.62	
		02/95	C/L Speci	VOL		0.22	21ST TSP	+6.95	
		02/95	C/L Speci	VOL		0.31	21ST TSP	+9.22	
1	53	02/95	Bobbin	ODI	13	0.38	21ST TSP	+2.72	
		02/95	C/L Speci	SAI		0.17	21ST TSP	+2.93	
1	64	02/95	Bobbin	NQI		0.32	3RD TSP	+6.07	
		02/95	H/L Speci	VOL		0.40	3RD TSP	+6.01	
1	65	02/95	C/L Speci	VOL		0.58	12TH TSP	+6.64	
		02/95	C/L Speci	VOL		1.52	12TH TSP	-2.43	
1	70	02/95	Bobbin	NQI		0.39	7TH TSP	+13.86	
		02/95	H/L Speci	VOL		0.39	7TH TSP	+6.78	
		02/95	H/L Speci	VOL		0.44	7TH TSP	+13.71	
		02/95	H/L Speci	VOL		0.69	7TH TSP	+9.43	
1	73	02/95	Bobbin	NQI		0.24	7TH TSP	+5.28	
		02/95	H/L Speci	VOL		0.33	7TH TSP	+5.19	
1	86	02/95	Bobbin	NQI		7.57	TE-HL	+11.15	
1	87	02/95	Bobbin	ODI	9	2.23	3RD TSP	+13.62	
		02/95	H/L Speci	VOL		1.31	3RD TSP	+14.03	
1	99	02/95	Bobbin	NQI		3.61	TE-HL	+14.23	
1	108	02/95	Bobbin	ODI	7	0.37	5TH TSP	+4.67	
1	113	02/95	Bobbin	NQI		0.21	3RD TSP	+8.75	
2	2	02/95	Bobbin	ODI	12	0.59	22ND TSP	+6.60	
		02/95	C/L Speci	VOL		0.37	22ND TSP	+6.79	
2	4	02/95	Bobbin	NQI		0.80	6TH TSP	+22.45	
		02/95	H/L Speci	VOL		1.27	6TH TSP	+22.44	
2	7	02/95	C/L Speci	VOL		0.43	21ST TSP	+4.10	
2	10	02/95	Bobbin	ODI	1	1.57	13TH TSP	+15.57	
		02/95	Bobbin	ODI	7	1.34	13TH TSP	+9.01	
		02/95	C/L Speci	VOL		0.18	13TH TSP	+7.04	
		02/95	C/L Speci	VOL		0.22	13TH TSP	+1.68	
		02/95	C/L Speci	VOL		0.23	13TH TSP	+3.25	
		02/95	C/L Speci	VOL		0.25	13TH TSP	+5.34	
		02/95	C/L Speci	VOL		0.30	21ST TSP	+4.75	
		02/95	C/L Speci	VOL		0.36	12TH TSP	-6.87	
		02/95	C/L Speci	VOL		0.44	13TH TSP	+8.88	
		02/95	C/L Speci	VOL		0.45	13TH TSP	-0.88	
2	15	02/95	Bobbin	ODI	10	0.89	22ND TSP	+18.06	
		02/95	C/L Speci	VOL		0.48	21ST TSP	-2.02	
2	23	02/95	H/L Tubes	SAI		1.40	TTS-HL	+0.00	
		02/95	H/L Speci	VOL		3.96	7TH TSP	+4.77	
2	25	02/95	H/L Speci	VOL		0.44	2ND TSP	+12.59	
2	27	02/95	Bobbin	ODI	12	0.46	10TH TSP	+9.22	
		02/95	C/L Speci	VOL		0.87	10TH TSP	+9.13	
2	48	02/95	Bobbin	ODI	6	0.59	15TH TSP	+5.96	
		02/95	C/L Speci	VOL		0.30	15TH TSP	+6.83	
2	57	02/95	Bobbin	ODI	5	0.44	3RD TSP	+11.98	
		02/95	H/L Speci	VOL		0.64	3RL TSP	+11.99	
2	82	02/95	Bobbin	ODI	7	1.10	21ST TSP	+13.13	
		02/95	C/L Speci	VOL		0.49	21ST TSP	+14.56	
2	85	02/95	Bobbin	ODI	8	0.96	3RD TSP	+26.20	
		02/95	H/L Speci	VOL		0.34	3RD TSP	+25.26	
2	91	02/95	Bobbin	ODI	2	3.42	5TH TSP	+32.95	
		02/95	H/L Speci	VOL		0.84	6TH TSP	-11.98	
2	97	02/95	Bobbin	ODI	21	1.01	5TH TSP	+16.80	
		02/95	H/L Speci	VOL		0.60	5TH TSP	+16.75	
2	110	02/95	Bobbin	NQI		0.36	3RD TSP	+24.97	

BWNT TUBAN II (Version 2.1) 05/01/1995 07:46:50
 Catawba Nuclear Station - Unit One
 S/G B
 02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION
		02/95	H/L Spec	VOL		0.87	4TH TSP -19.18
2	112	02/95	Bobbin	NQI		0.28	7TH TSP +37.21
		02/95	H/L Spec	VOL		0.18	8TH TSP -8.08
3	4	02/95	Bobbin	NQI		5.82	TE-HL +5.29
3	6	02/95	Bobbin	NQI		3.20	TE-HL +6.32
3	10	02/95	Bobbin	NQI		4.85	TE-HL +4.18
3	12	02/95	Bobbin	NQI		2.45	TE-HL +8.29
		02/95	Bobbin	NQI		4.42	TE-HL +9.24
3	14	02/95	Bobbin	ODI	53	0.24	6TH TSP -0.05
		02/95	Bobbin	ODI	77	0.21	2ND TSP -0.07
3	19	02/95	Bobbin	ODI	61	0.24	5TH TSP -0.07
3	50	02/95	Bobbin	ODI	82	0.22	8TH TSP +0.00
3	53	02/95	Bobbin	NQI		2.35	19TH TSP +18.27
3	57	02/95	Bobbin	ODI	13	1.09	4TH TSP +23.45
		02/95	H/L Spec	VOL		0.36	4TH TSP +23.65
3	63	02/95	Bobbin	NQI		0.78	7TH TSP +23.98
		02/95	Bobbin	ODI	12	0.93	6TH TSP +36.57
		02/95	H/L Spec	VOL		0.94	7TH TSP +23.76
3	73	02/95	H/L Spec	VOL		0.53	4TH TSP -11.77
		02/95	H/L Spec	VOL		0.56	4TH TSP -10.48
		02/95	H/L Spec	VOL		0.62	4TH TSP -1.96
		02/95	H/L Spec	VOL		0.63	4TH TSP -5.22
		02/95	H/L Spec	VOL		0.66	4TH TSP +0.45
3	74	02/95	Bobbin	NQI		4.36	TE-HL +10.72
3	77	02/95	Bobbin	ODI	4	1.35	5TH TSP +32.92
		02/95	H/L Spec	VOL		1.16	6TH TSP -11.35
3	100	02/95	Bobbin	ODI	4	0.88	19TH TSP +8.89
		02/95	C/L Spec	VOL		0.22	19TH TSP +9.34
3	104	02/95	Bobbin	ODI	10	1.40	2ND TSP +12.89
		02/95	H/L Spec	VOL		0.32	3RD TSP -11.87
4	2	02/95	C/L Spec	VOL		0.71	21ST TSP +3.07
4	8	02/95	Bobbin	ODI	10	0.70	4TH TSP +19.35
		02/95	Bobbin	ODI	11	0.31	4TH TSP +20.21
		02/95	H/L Spec	VOL		0.19	4TH TSP +20.56
		02/95	H/L Spec	VOL		0.52	4TH TSP +19.63
4	9	02/95	Bobbin	NQI		5.27	TE-HL +14.96
4	15	02/95	Bobbin	ODI	33	0.33	5TH TSP +0.51
4	19	02/95	C/L Spec	VOL		0.29	16TH TSP -4.57
		02/95	C/L Spec	VOL		0.31	10TH TSP -10.19
		02/95	C/L Spec	VOL		0.35	10TH TSP -8.77
		02/95	C/L Spec	VOL		0.36	10TH TSP -12.20
4	20	02/95	Bobbin	ODI	1	0.28	6TH TSP -0.29
		02/95	Bobbin	ODI	79	0.16	2ND TSP +0.05
		02/95	Bobbin	ODI	82	0.37	5TH TSP +0.02
4	26	02/95	Bobbin	NQI		0.31	14TH TSP +6.61
		02/95	C/L Spec	VOL		0.16	13TH TSP -2.55
		02/95	C/L Spec	VOL		0.29	13TH TSP -4.69
4	43	02/95	Bobbin	ODI	11	1.02	19TH TSP +2.59
		02/95	C/L Spec	VOL		0.26	19TH TSP +2.13
4	47	02/95	Bobbin	NQI		0.33	22ND TSP +12.25
		02/95	C/L Spec	VOL		0.26	22ND TSP +12.52
		02/95	C/L Spec	VOL		0.50	22ND TSP +1.29
4	76	02/95	Bobbin	ODI	16	0.64	4TH TSP +21.63
		02/95	H/L Spec	VOL		0.56	4TH TSP +21.58
4	82	02/95	H/L Spec	VOL		0.18	4TH TSP -17.91
		02/95	H/L Spec	VOL		0.56	4TH TSP -15.27
4	92	02/95	Bobbin	NQI		0.20	6TH TSP -0.53
		02/95	Bobbin	NQI		1.15	18TH TSP +10.51
4	99	02/95	Bobbin	ODI	64	0.50	2ND TSP +0.00
5	5	02/95	Bobbin	NQI		6.20	TE-HL +3.00
5	15	02/95	H/L Spec	VOL		0.38	5TH TSP +17.93
		02/95	H/L Spec	VOL		0.58	5TH TSP +17.18
5	17	02/95	Bobbin	NQI		5.64	TE-HL +8.99
5	20	02/95	C/L Spec	VOL		0.22	11TH TSP +4.99
5	29	02/95	H/L Spec	VOL		0.27	3RD TSP +14.28

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02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

5	31	02/95	Bobbin	NQI		2.11	TE-CL	+13.98
5	37	02/95	Bobbin	NQI		6.36	TE-CL	+14.43
5	54	02/95	Bobbin	ODI	85	0.40	3RD TSP	-0.10
5	71	02/95	Bobbin	ODI	16	1.46	4TH TSP	+40.61
		02/95	H/L Speci	VOL		0.65	5TH TSP	-3.40
5	85	02/95	Bobbin	ODI	24	0.20	2ND TSP	-0.07
5	91	02/95	Bobbin	NQI		6.29	TE-HL	+8.08
		02/95	Bobbin	ODI	5	1.30	5TH TSP	+31.72
		02/95	Bobbin	ODI	10	2.70	2ND TSP	+10.17
		02/95	H/L Speci	VOL		0.44	6TH TSP	-11.49
		02/95	H/L Speci	VOL		1.39	2ND TSP	+9.47
5	94	02/95	Bobbin	ODI	99	0.47	2ND TSP	+0.07
5	97	02/95	Bobbin	ODI	5	0.58	4TH TSP	+21.75
		02/95	H/L Speci	VOL		0.27	4TH TSP	+20.33
5	99	02/95	Bobbin	ODI	59	0.23	6TH TSP	-0.26
5	102	02/95	Bobbin	ODI	10	0.34	3RD TSP	-0.07
		02/95	Bobbin	ODI	35	0.51	5TH TSP	-0.07
		02/95	Bobbin	ODI	72	0.34	4TH TSP	-0.05
5	103	02/95	Bobbin	ODI	33	0.27	5TH TSP	-0.07
		02/95	Bobbin	ODI	85	0.39	4TH TSP	+0.07
5	104	02/95	Bobbin	ODI	18	0.41	4TH TSP	+0.02
		02/95	Bobbin	ODI	23	0.57	5TH TSP	-0.07
		02/95	Bobbin	ODI	36	0.14	3RD TSP	-0.05
5	107	02/95	Bobbin	ODI	53	0.38	5TH TSP	-0.05
6	6	02/95	Bobbin	ODI	10	1.65	7TH TSP	+13.03
		02/95	H/L Speci	VOL		0.44	7TH TSP	+12.57
6	16	02/95	H/L Speci	VOL		0.97	7TH TSP	+20.66
		02/95	C/L Speci	VOL		0.13	21ST TSP	+3.26
6	22	02/95	Bobbin	ODI	85	0.97	2ND TSP	+0.00
6	44	02/95	C/L Speci	VOL		1.16	9TH TSP	-2.99
6	49	02/95	Bobbin	ODI	38	0.49	2ND TSP	+0.09
6	54	02/95	H/L Speci	VOL		0.26	3RD TSP	+11.96
6	58	02/95	Bobbin	ODI	26	0.69	8TH TSP	+4.06
6	63	02/95	Bobbin	ODI	12	1.04	3RD TSP	+29.35
6	67	02/95	Bobbin	ODI	29	0.37	2ND TSP	+0.14
6	77	02/95	H/L Tubes	VOL		0.95	TTS-HL	+1.12
6	86	02/95	Bobbin	ODI	37	0.23	5TH TSP	+0.00
6	88	02/95	Bobbin	ODI	10	0.60	2ND TSP	+0.14
		02/95	Bobbin	ODI	14	2.34	3RD TSP	+4.45
		02/95	Bobbin	ODI	42	0.35	5TH TSP	-0.09
		02/95	H/L Speci	VOL		0.64	3RD TSP	+3.99
6	90	02/95	Bobbin	ODI	10	0.74	3RD TSP	+22.20
		02/95	Bobbin	ODI	11	1.08	2ND TSP	+12.48
		02/95	Bobbin	ODI	60	0.16	2ND TSP	+0.14
		02/95	H/L Speci	VOL		0.19	2ND TSP	+12.90
		02/95	H/L Speci	VOL		0.22	2ND TSP	+11.31
		02/95	H/L Speci	VOL		0.23	3RD TSP	+22.48
6	92	02/95	Bobbin	ODI	21	0.61	2ND TSP	+20.55
		02/95	H/L Speci	VOL		0.65	3RD TSP	-3.40
6	95	02/95	Bobbin	ODI	28	0.32	2ND TSP	-0.02
6	101	02/95	Bobbin	ODI	11	0.38	3RD TSP	-0.14
		02/95	Bobbin	ODI	20	0.65	2ND TSP	+0.07
		02/95	Bobbin	ODI	61	0.44	5TH TSP	+0.00
6	102	02/95	Bobbin	ODI	54	0.17	3RD TSP	-0.05
		02/95	Bobbin	ODI	64	0.20	2ND TSP	-0.07
6	103	02/95	Bobbin	ODI	31	0.69	3RD TSP	+0.02
		02/95	Bobbin	ODI	32	0.50	4TH TSP	+0.24
		02/95	Bobbin	ODI	47	0.48	5TH TSP	+0.00
6	105	02/95	Bobbin	ODI	40	0.43	5TH TSP	+0.00
6	114	02/95	Bobbin	ODI	8	0.97	7TH TSP	+35.23
		02/95	H/L Speci	VOL		0.18	8TH TSP	-8.00
7	6	02/95	C/L Speci	VOL		0.12	TTS-CL	+2.34
		02/95	C/L Speci	VOL		0.24	TTS-CL	+2.32
7	7	02/95	Bobbin	NQI		2.51	TE-CL	+3.37
7	27	02/95	Bobbin	ODI	1	0.39	2ND TSP	+0.09

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

7	28	02/95	Bobbin	ODI	34	0.13	2ND TSP	+0.02
7	29	02/95	Bobbin	ODI	1	0.36	2ND TSP	+0.12
		02/95	Bobbin	ODI	3	0.85	3RD TSP	+0.12
7	30	02/95	Bobbin	ODI	8	0.72	18TH TSP	+7.73
		02/95	C/L Spec	VOL		0.20	18TH TSP	+7.27
		02/95	C/L Spec	VOL		0.21	18TH TSP	+14.62
		02/95	C/L Spec	VOL		0.22	18TH TSP	+12.76
		02/95	C/L Spec	VOL		0.23	18TH TSP	+0.61
		02/95	C/L Spec	VOL		0.57	18TH TSP	+7.73
		02/95	C/L Spec	VOL		0.68	18TH TSP	+2.20
		02/95	C/L Spec	VOL		0.73	18TH TSP	+5.46
7	32	02/95	Bobbin	ODI	72	0.42	2ND TSP	+0.12
7	46	02/95	Bobbin	ODI	57	0.30	2ND TSP	+0.10
7	58	02/95	Bobbin	ODI	20	0.61	13TH TSP	+8.41
7	65	02/95	Bobbin	ODI	1	0.79	2ND TSP	+0.22
7	67	02/95	H/L Spec	VOL		0.40	5TH TSP	-3.12
		02/95	H/L Spec	VOL		0.45	5TH TSP	-7.82
		02/95	H/L Spec	VOL		0.48	5TH TSP	-4.84
		02/95	H/L Spec	VOL		0.68	5TH TSP	-8.54
		02/95	H/L Spec	VOL		0.70	5TH TSP	+1.39
		02/95	H/L Spec	VOL		0.71	5TH TSP	-5.56
7	72	02/95	Bobbin	ODI	1	0.64	2ND TSP	+0.14
7	73	02/95	Bobbin	NQI		0.43	11TH TSP	+22.61
		02/95	C/L Spec	VOL		0.61	11TH TSP	+23.93
7	88	02/95	Bobbin	ODI	20	0.40	3RD TSP	+0.21
7	89	02/95	Bobbin	ODI	61	0.36	2ND TSP	+0.14
7	92	02/95	Bobbin	ODI	42	0.48	5TH TSP	-0.10
		02/95	Bobbin	ODI	54	0.43	3RD TSP	+0.21
7	94	02/95	Bobbin	ODI	36	0.57	3RD TSP	+0.17
7	97	02/95	Bobbin	NQI		0.95	6TH TSP	+24.85
		02/95	Bobbin	ODI	1	0.27	3RD TSP	+0.10
		02/95	H/L Spec	VOL		0.82	6TH TSP	+23.29
7	100	02/95	Bobbin	ODI	40	0.51	3RD TSP	+0.47
7	107	02/95	Bobbin	ODI	99	0.28	2ND TSP	+0.11
8	9	02/95	Bobbin	ODI	8	0.54	12TH TSP	+21.86
		02/95	Bobbin	ODI	14	0.32	12TH TSP	+37.87
		02/95	C/L Spec	VOL		0.30	12TH TSP	+38.18
		02/95	C/L Spec	VOL		0.33	12TH TSP	+21.97
8	10	02/95	Bobbin	ODI	39	0.26	2ND TSP	+0.07
		02/95	Bobbin	ODI	48	0.25	5TH TSP	+0.05
		02/95	Bobbin	ODI	55	0.37	3RD TSP	+0.05
8	12	02/95	Bobbin	NQI		1.74	TTS-CL	-1.26
		02/95	Bobbin	ODI	12	0.72	21ST TSP	+3.56
		02/95	C/L Spec	VOL		0.34	21ST TSP	+3.61
8	14	02/95	Bobbin	ODI	11	0.72	3RD TSP	+0.07
8	15	02/95	Bobbin	NQI		4.09	TE-CL	+16.99
8	21	02/95	Bobbin	NQI		2.25	TE-CL	+8.10
8	26	02/95	Bobbin	ODI	30	0.52	3RD TSP	+0.07
		02/95	Bobbin	ODI	77	0.23	2ND TSP	+0.00
8	29	02/95	Bobbin	ODI	14	0.31	12TH TSP	+27.47
		02/95	C/L Spec	VOL		0.24	12TH TSP	+27.89
8	33	02/95	Bobbin	ODI	20	0.45	10TH TSP	+18.62
		02/95	C/L Spec	VOL		0.89	10TH TSP	+18.62
8	34	02/95	Bobbin	ODI	35	0.38	6TH TSP	+0.02
		02/95	Bobbin	ODI	44	0.51	2ND TSP	-0.02
8	49	02/95	Bobbin	ODI	46	0.42	2ND TSP	+0.00
8	52	02/95	Bobbin	ODI	73	0.26	2ND TSP	+0.07
8	53	02/95	Bobbin	ODI	89	0.51	2ND TSP	+0.02
8	59	02/95	Bobbin	ODI	12	1.22	6TH TSP	+26.58
		02/95	H/L Spec	VOL		0.96	6TH TSP	+26.59
8	61	02/95	Bobbin	ODI	92	1.05	2ND TSP	-0.02
		02/95	H/L Spec	SAI		1.06	2ND TSP	+0.08
8	62	02/95	Bobbin	ODI	60	0.30	2ND TSP	+0.07
8	64	02/95	Bobbin	ODI	87	0.51	2ND TSP	+0.05
8	73	02/95	Bobbin	ODI	17	0.38	17TH TSP	+5.06

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Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	C/L Speci	VOL		0.68	17TH TSP	+5.25
8 74	02/95	Bobbin	NQI		0.37	18TH TSP	+1.20
	02/95	C/L Speci	VOL		0.63	18TH TSP	+1.09
8 76	02/95	Bobbin	ODI	20	0.37	5TH TSP	+0.05
8 80	02/95	Bobbin	ODI	63	0.41	2ND TSP	+0.08
	02/95	Bobbin	ODI	73	0.43	3RD TSP	+0.12
8 83	02/95	Bobbin	WAR	11	2.21	19TH TSP	+0.00
8 84	02/95	Bobbin	ODI	1	0.49	3RD TSP	+0.12
	02/95	H/L Speci	VOL		0.27	2ND TSP	+16.81
	02/95	H/L Speci	VOL		0.28	2ND TSP	+6.60
	02/95	H/L Speci	VOL		0.32	2ND TSP	+8.75
	02/95	H/L Speci	VOL		0.37	2ND TSP	+7.73
	02/95	H/L Speci	VOL		0.43	2ND TSP	+13.98
8 87	02/95	Bobbin	ODI	1	0.54	3RD TSP	+0.12
	02/95	Bobbin	ODI	35	0.67	2ND TSP	+0.07
8 90	02/95	Bobbin	ODI	23	0.40	3RD TSP	+0.05
	02/95	Bobbin	ODI	59	0.21	2ND TSP	+0.10
8 92	02/95	Bobbin	ODI	95	0.28	2ND TSP	+0.28
	02/95	Bobbin	ODI	2	1.19	12TH TSP	+19.46
8 95	02/95	Bobbin	ODI	8	0.46	3RD TSP	+0.18
8 101	02/95	Bobbin	ODI	8	0.45	3RD TSP	+0.10
8 105	02/95	Bobbin	ODI	69	0.50	5TH TSP	-0.17
9 6	02/95	Bobbin	NQI		9.49	TTS-HL	-0.90
	02/95	H/L Tubes	MAI		1.04	TTS-HL	-1.18
9 10	02/95	Bobbin	ODI	13	0.58	3RD TSP	+0.19
9 11	02/95	Bobbin	ODI	69	0.51	3RD TSP	+0.20
	02/95	Bobbin	ODI	73	0.50	4TH TSP	+0.55
9 23	02/95	Bobbin	ODI	74	0.54	3RD TSP	+0.12
	02/95	Bobbin	ODI	80	1.34	2ND TSP	+0.07
	02/95	H/L Speci	SAI		0.86	2ND TSP	+0.01
9 25	02/95	Bobbin	ODI	90	0.26	3RD TSP	+0.05
	02/95	Bobbin	ODI	95	1.10	2ND TSP	+0.00
	02/95	H/L Speci	SAI		0.56	2ND TSP	-0.02
9 27	02/95	Bobbin	ODI	88	0.57	3RD TSP	+0.07
9 28	02/95	Bobbin	ODI	99	0.88	2ND TSP	-0.07
9 30	02/95	C/L Speci	VOL		0.27	12TH TSP	+30.80
	02/95	C/L Speci	VOL		0.37	12TH TSP	+17.96
9 35	02/95	Bobbin	ODI	4	0.59	11TH TSP	+41.96
	02/95	Bobbin	ODI	8	0.44	11TH TSP	+39.42
	02/95	Bobbin	ODI	11	0.86	11TH TSP	+23.49
	02/95	C/L Speci	VOL		0.21	11TH TSP	+41.96
	02/95	C/L Speci	VOL		0.25	11TH TSP	+23.49
	02/95	C/L Speci	VOL		0.35	11TH TSP	+31.36
	02/95	C/L Speci	VOL		0.39	11TH TSP	+39.42
	02/95	C/L Speci	VOL		0.53	11TH TSP	+29.71
9 36	02/95	Bobbin	ODI	29	0.35	2ND TSP	+0.07
9 40	02/95	C/L Speci	VOL		0.54	9TH TSP	-13.48
9 43	02/95	Bobbin	ODI	59	0.43	2ND TSP	+0.07
9 44	02/95	Bobbin	ODI	84	0.42	3RD TSP	+0.14
	02/95	Bobbin	ODI	23	0.58	11TH TSP	+25.45
	02/95	C/L Speci	VOL		0.57	11TH TSP	+25.45
9 45	02/95	Bobbin	ODI	11	0.39	3RD TSP	+0.14
9 50	02/95	Bobbin	ODI	16	1.04	12TH TSP	+23.63
	02/95	C/L Speci	VOL		1.19	12TH TSP	+23.63
9 57	02/95	Bobbin	NQI		0.78	21ST TSP	+2.56
	02/95	C/L Speci	VOL		0.52	21ST TSP	+2.73
9 58	02/95	Bobbin	NQI		0.36	11TH TSP	+4.81
	02/95	H/L Speci	VOL		0.26	2ND TSP	+0.50
	02/95	H/L Speci	VOL		0.45	2ND TSP	-1.10
	02/95	C/L Speci	VOL		0.11	11TH TSP	+4.69
9 59	02/95	Bobbin	ODI	43	0.34	2ND TSP	+0.11
9 68	02/95	U-Bend	VOL		1.91	1AVB	+3.97
	02/95	Bobbin	ODI	33	0.45	5TH TSP	+0.11
	02/95	Bobbin	ODI	8	2.12	15TH TSP	+2.19
	02/95	C/L Speci	VOL		0.35	15TH TSP	+2.23

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

9	69	02/95	Bobbin	ODI	17	0.94	2ND TSP	+0.06
		02/95	Bobbin	ODI	66	0.43	5TH TSP	+0.04
9	70	02/95	Bobbin	ODI	7	0.61	2ND TSP	-0.04
9	71	02/95	Bobbin	ODI	93	0.70	2ND TSP	+0.04
9	72	02/95	Bobbin	ODI	1	0.83	2ND TSP	-0.04
		02/95	Bobbin	ODI	20	0.71	3RD TSP	+0.15
		02/95	Bobbin	ODI	24	0.83	5TH TSP	+0.02
9	73	02/95	Bobbin	ODI	3	0.60	2ND TSP	+0.00
9	74	02/95	Bobbin	ODI	46	0.63	2ND TSP	+0.13
		02/95	Bobbin	ODI	59	0.63	3RD TSP	+0.20
		02/95	Bobbin	ODI	82	0.57	5TH TSP	+0.17
9	79	02/95	Bobbin	ODI	30	0.90	2ND TSP	+0.04
		02/95	Bobbin	ODI	36	0.65	5TH TSP	+0.09
		02/95	Bobbin	ODI	67	0.55	6TH TSP	-0.02
9	82	02/95	Bobbin	ODI	9	1.22	1ST TSP	+14.30
		02/95	H/L Speci	VOL		0.53	2ND TSP	-6.44
		02/95	H/L Speci	VOL		0.54	2ND TSP	-7.93
		02/95	H/L Speci	VOL		1.08	2ND TSP	-4.69
9	84	02/95	Bobbin	ODI	36	0.55	2ND TSP	-0.04
9	85	02/95	Bobbin	ODI	77	0.52	2ND TSP	+0.22
9	87	02/95	C/L Speci	VOL		0.43	9TH TSP	-6.56
9	91	02/95	Bobbin	ODI	8	0.39	3RD TSP	+0.17
9	95	02/95	Bobbin	ODI	51	0.54	3RD TSP	+0.19
		02/95	H/L Speci	VOL		1.10	8TH TSP	-8.67
9	97	02/95	Bobbin	ODI	1	0.64	4TH TSP	-0.24
		02/95	Bobbin	ODI	33	0.44	3RD TSP	+0.14
		02/95	Bobbin	ODI	69	0.26	2ND TSP	+0.07
9	98	02/95	Bobbin	ODI	26	0.46	3RD TSP	-0.05
9	99	02/95	Bobbin	ODI	56	0.51	3RD TSP	+0.07
9	100	02/95	Bobbin	ODI	78	0.51	2ND TSP	+0.27
9	102	02/95	Bobbin	NQI		0.48	4TH TSP	+32.67
		02/95	Bobbin	ODI	99	0.82	2ND TSP	+0.15
		02/95	H/L Speci	MAI		0.64	2ND TSP	+0.01
		02/95	H/L Speci	VOL		0.22	5TH TSP	-10.39
9	105	02/95	Bobbin	ODI	1	0.47	3RD TSP	+0.00
		02/95	Bobbin	ODI	83	0.54	4TH TSP	+0.02
9	106	02/95	Bobbin	ODI	1	0.15	4TH TSP	+0.07
		02/95	Bobbin	ODI	97	0.27	3RD TSP	+0.12
9	111	02/95	Bobbin	ODI	80	0.64	2ND TSP	+0.12
10	15	02/95	Bobbin	NQI		6.20	TE-CL	+4.07
		02/95	Bobbin	NQI		8.51	TE-CL	+14.01
10	25	02/95	Bobbin	ODI	8	1.01	17TH TSP	+6.61
		02/95	C/L Speci	VOL		0.64	17TH TSP	+6.53
10	28	02/95	Bobbin	ODI	96	0.39	2ND TSP	+0.05
10	31	02/95	Bobbin	ODI	73	0.31	2ND TSP	+0.22
10	38	02/95	Bobbin	NQI		0.59	14TH TSP	+1.67
		02/95	C/L Speci	VOL		1.26	14TH TSP	+1.67
10	40	02/95	Bobbin	ODI	14	0.29	2ND TSP	-0.12
10	44	02/95	Bobbin	ODI	32	0.79	15TH TSP	+6.27
		02/95	C/L Speci	VOL		0.33	15TH TSP	+6.27
		02/95	C/L Speci	VOL		0.42	16TH TSP	+4.24
10	49	02/95	Bobbin	ODI	8	0.42	4TH TSP	+0.02
		02/95	Bobbin	ODI	33	0.30	3RD TSP	-0.07
10	50	02/95	Bobbin	ODI	73	0.30	2ND TSP	-0.05
10	51	02/95	Bobbin	ODI	93	0.18	2ND TSP	+0.00
10	52	02/95	Bobbin	ODI	55	0.22	6TH TSP	-0.12
		02/95	Bobbin	ODI	72	0.71	2ND TSP	-0.02
10	58	02/95	Bobbin	ODI	40	0.50	3RD TSP	-0.02
		02/95	Bobbin	ODI	90	0.30	2ND TSP	+0.07
10	63	02/95	Bobbin	ODI	7	1.47	4TH TSP	+26.64
		02/95	Bobbin	ODI	7	1.09	10TH TSP	+19.12
		02/95	H/L Speci	VOL		0.59	4TH TSP	+23.39
		02/95	H/L Speci	VOL		0.61	4TH TSP	+28.80
		02/95	H/L Speci	VOL		0.64	4TH TSP	+27.13
		02/95	C/L Speci	VOL		0.66	10TH TSP	+20.34

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

10	64	02/95	Bobbin	ODI	39	0.56	2ND TSP	+0.18
		02/95	Bobbin	ODI	62	0.32	3RD TSP	+0.05
10	65	02/95	Bobbin	ODI	30	0.19	3RD TSP	+0.14
		02/95	Bobbin	ODI	36	0.82	2ND TSP	+0.21
		02/95	H/L Speci	NQI		0.28	2ND TSP	+0.10
10	66	02/95	Bobbin	NQI		0.62	3RD TSP	+5.32
		02/95	Bobbin	ODI	73	0.25	2ND TSP	-0.02
		02/95	Bobbin	ODI	86	0.35	4TH TSP	+0.09
		02/95	H/L Speci	VOL		0.58	3RD TSP	+5.38
10	67	02/95	Bobbin	ODI	44	0.26	3RD TSP	+0.07
		02/95	Bobbin	ODI	62	0.39	2ND TSP	+0.14
10	68	02/95	Bobbin	ODI	29	0.42	3RD TSP	+0.09
		02/95	Bobbin	ODI	39	0.24	2ND TSP	+0.11
10	70	02/95	Bobbin	ODI	30	0.50	2ND TSP	+0.05
10	71	02/95	Bobbin	ODI	13	0.76	3RD TSP	+0.07
10	74	02/95	Bobbin	ODI	21	0.44	2ND TSP	+0.05
10	75	02/95	Bobbin	ODI	1	0.39	2ND TSP	+0.07
		02/95	Bobbin	ODI	44	0.33	5TH TSP	+0.07
10	77	02/95	Bobbin	ODI	14	0.30	2ND TSP	-0.02
10	79	02/95	Bobbin	ODI	6	0.59	3RD TSP	+0.09
		02/95	Bobbin	ODI	39	0.49	4TH TSP	+0.14
10	81	02/95	Bobbin	ODI	65	0.29	3RD TSP	+0.00
10	86	02/95	Bobbin	ODI	7	0.97	4TH TSP	+16.20
		02/95	Bobbin	ODI	32	0.88	12TH TSP	+5.65
		02/95	H/L Speci	VOL		0.62	4TH TSP	+16.21
		02/95	C/L Speci	VOL		0.98	12TH TSP	+5.87
10	91	02/95	Bobbin	NQI		2.36	TE-HL	+15.54
		02/95	Bobbin	ODI	77	0.87	2ND TSP	+0.08
		02/95	Bobbin	ODI	39	0.41	16TH TSP	+1.78
		02/95	C/L Speci	VOL		0.21	16TH TSP	+2.00
10	97	02/95	Bobbin	ODI	95	0.44	3RD TSP	-0.04
10	98	02/95	Bobbin	ODI	36	0.81	2ND TSP	+0.08
		02/95	Bobbin	ODI	39	0.93	3RD TSP	+0.06
		02/95	Bobbin	ODI	73	0.96	4TH TSP	+0.10
10	99	02/95	Bobbin	ODI	20	0.57	2ND TSP	-0.02
		02/95	Bobbin	ODI	38	0.67	5TH TSP	+0.00
10	100	02/95	Bobbin	ODI	51	0.79	2ND TSP	+0.10
10	102	02/95	Bobbin	ODI	15	0.88	10TH TSP	+5.74
		02/95	C/L Speci	VOL		0.49	10TH TSP	+5.74
10	103	02/95	Bobbin	ODI	63	0.43	2ND TSP	+0.06
10	105	02/95	Bobbin	ODI	71	0.32	4TH TSP	+0.04
		02/95	Bobbin	ODI	77	0.76	2ND TSP	+0.15
10	106	02/95	Bobbin	ODI	48	0.45	4TH TSP	+0.06
		02/95	Bobbin	ODI	65	0.53	3RD TSP	+0.00
10	110	02/95	Bobbin	ODI	1	0.50	6TH TSP	+0.00
		02/95	H/L Tubes	VOL		0.28	TTS-HL	-1.38
11	2	02/95	Bobbin	NQI		1.45	TE-CL	+18.93
11	11	02/95	Bobbin	NQI		0.51	19TH TSP	+3.36
		02/95	C/L Speci	VOL		0.24	19TH TSP	+3.47
11	12	02/95	Bobbin	NQI		0.31	18TH TSP	+15.55
		02/95	Bobbin	ODI	53	0.51	2ND TSP	-0.07
		02/95	H/L Speci	VOL		0.41	7TH TSP	+0.00
11	18	02/95	Bobbin	NQI		0.34	12TH TSP	+33.01
		02/95	C/L Speci	VOL		0.34	11TH TSP	-11.66
11	19	02/95	C/L Speci	VOL		0.37	10TH TSP	+23.96
11	22	02/95	Bobbin	ODI	64	0.17	2ND TSP	-0.02
11	27	02/95	Bobbin	NQI		27.26	TE-HL	+18.33
		02/95	H/L Speci	SAI		13.41	TTS-HL	-4.67
11	30	02/95	C/L Speci	VOL		0.47	21ST TSP	-3.43
11	39	02/95	Bobbin	ODI	39	0.16	2ND TSP	+0.02
		02/95	Bobbin	ODI	93	0.30	3RD TSP	+0.07
		02/95	Bobbin	ODI	64	0.17	4TH TSP	-0.09
11	44	02/95	Bobbin	ODI	13	0.44	3RD TSP	+0.02
11	52	02/95	H/L Tubes	VOL		1.12	TTS-HL	+0.00
11	59	02/95	Bobbin	ODI	54	0.32	3RD TSP	+0.13

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
11	61	02/95	Bobbin	ODI	1	0.18	2ND TSP		+0.14
11	63	02/95	Bobbin	ODI	1	0.44	2ND TSP		+0.02
		02/95	Bobbin	ODI	50	0.41	3RD TSP		-0.02
11	65	02/95	Bobbin	ODI	1	0.42	2ND TSP		+0.12
11	67	02/95	Bobbin	ODI	59	0.20	3RD TSP		+0.00
11	69	02/95	Bobbin	ODI	1	0.15	2ND TSP		+0.10
		02/95	Bobbin	ODI	25	0.28	3RD TSP		+0.17
		02/95	Bobbin	ODI	73	0.19	4TH TSP		+0.12
11	71	02/95	Bobbin	ODI	84	0.61	3RD TSP		+0.00
11	72	02/95	Bobbin	ODI	54	0.33	5TH TSP		+0.02
		02/95	Bobbin	ODI	67	0.22	4TH TSP		+0.02
11	73	02/95	Bobbin	ODI	13	0.42	3RD TSP		-0.02
11	75	02/95	Bobbin	ODI	40	0.44	4TH TSP		+0.17
11	76	02/95	Bobbin	ODI	17	0.31	4TH TSP		+0.12
11	77	02/95	Bobbin	ODI	55	0.25	5TH TSP		+0.17
11	80	02/95	Bobbin	ODI	14	0.31	3RD TSP		+0.12
11	81	02/95	Bobbin	ODI	35	0.19	2ND TSP		+0.07
		02/95	Bobbin	ODI	77	0.18	5TH TSP		+0.07
11	83	02/95	Bobbin	ODI	1	0.57	3RD TSP		-0.10
11	91	02/95	H/L Speci	VOL		0.32	TTS-HL		+2.67
11	96	02/95	Bobbin	ODI	32	0.49	3RD TSP		+0.07
11	99	02/95	Bobbin	ODI	12	0.29	4TH TSP		+0.02
		02/95	Bobbin	ODI	67	0.77	2ND TSP		-0.02
11	100	02/95	Bobbin	ODI	58	0.22	2ND TSP		+0.15
11	103	02/95	Bobbin	ODI	17	0.32	12TH TSP		+21.47
11	104	02/95	Bobbin	ODI	1	0.63	3RD TSP		+9.99
		02/95	H/L Speci	VOL		0.49	3RD TSP		+9.23
11	107	02/95	Bobbin	ODI	5	0.59	4TH TSP		+10.88
		02/95	H/L Speci	VOL		0.48	4TH TSP		+10.10
11	108	02/95	Bobbin	ODI	4	0.22	4TH TSP		+26.87
		02/95	H/L Speci	VOL		0.30	4TH TSP		+25.86
11	110	02/95	H/L Tubes	VOL		0.96	TTS-HL		-1.16
12	4	02/95	Bobbin	ODI	12	1.91	TTS-CL		+5.10
		02/95	C/L Speci	VOL		0.75	TTS-CL		+5.09
12	6	02/95	Bobbin	ODI	1	0.74	5TH TSP		+0.00
		02/95	Bobbin	ODI	1	0.94	2ND TSP		+0.05
12	9	02/95	Bobbin	ODI	35	0.41	3RD TSP		-0.20
		02/95	Bobbin	ODI	6	1.74	18TH TSP		+11.38
		02/95	C/L Speci	VOL		0.28	18TH TSP		+11.81
12	10	02/95	Bobbin	ODI	1	0.83	2ND TSP		+0.05
		02/95	Bobbin	ODI	1	0.95	3RD TSP		+0.05
12	12	02/95	Bobbin	ODI	1	0.99	2ND TSP		-0.02
		02/95	H/L Speci	VOL		0.24	8TH TSP		-0.21
12	13	02/95	H/L Speci	VOL		0.46	8TH TSP		-0.19
12	17	02/95	Bobbin	ODI	15	0.38	19TH TSP		+4.69
12	18	02/95	Bobbin	ODI	33	0.74	2ND TSP		+0.00
		02/95	Bobbin	ODI	37	0.61	3RD TSP		-0.15
12	25	02/95	Bobbin	ODI	87	0.70	2ND TSP		+0.02
12	31	02/95	Bobbin	ODI	2	0.56	7TH TSP		-0.25
12	34	02/95	Bobbin	ODI	97	0.35	2ND TSP		-0.07
12	35	02/95	Bobbin	ODI	7	0.73	2ND TSP		-0.07
		02/95	Bobbin	ODI	41	0.80	3RD TSP		-0.02
12	36	02/95	Bobbin	ODI	36	0.64	3RD TSP		-0.12
		02/95	Bobbin	ODI	62	0.43	4TH TSP		+0.00
12	40	02/95	Bobbin	ODI	90	0.73	2ND TSP		+0.10
12	42	02/95	Bobbin	ODI	1	0.61	2ND TSP		-0.27
		02/95	Bobbin	ODI	17	0.76	4TH TSP		+11.60
		02/95	H/L Speci	VOL		0.41	4TH TSP		+11.66
12	44	02/95	Bobbin	ODI	41	0.56	3RD TSP		+0.05
		02/95	Bobbin	ODI	53	0.60	2ND TSP		-0.15
12	51	02/95	Bobbin	ODI	1	1.02	4TH TSP		-0.02
		02/95	Bobbin	ODI	1	1.40	2ND TSP		-0.05
		02/95	Bobbin	ODI	91	0.76	5TH TSP		-0.05
		02/95	Bobbin	ODI	97	1.39	3RD TSP		-0.17
		02/95	H/L Speci	VOL		1.35	3RD TSP		+14.10

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

12	54	02/95	Bobbin	ODI	22	0.69	2ND TSP	+0.00
		02/95	Bobbin	ODI	45	0.46	3RD TSP	-0.02
		02/95	Bobbin	ODI	60	0.45	4TH TSP	+0.02
		02/95	Bobbin	ODI	88	0.31	5TH TSP	+0.02
12	55	02/95	Bobbin	ODI	1	0.53	2ND TSP	-0.05
		02/95	Bobbin	ODI	9	0.73	3RD TSP	-0.10
		02/95	H/L Tubes	SCI		0.45	TTS-HL	-0.06
12	56	02/95	Bobbin	ODI	21	0.33	16TH TSP	+7.79
		02/95	C/L Speci	VOL		0.66	16TH TSP	+7.79
12	58	02/95	Bobbin	ODI	22	0.41	2ND TSP	+0.24
		02/95	Bobbin	ODI	43	0.17	4TH TSP	+0.12
		02/95	Bobbin	ODI	79	0.40	5TH TSP	-0.12
12	59	02/95	Bobbin	ODI	13	0.92	6TH TSP	+12.46
		02/95	H/L Speci	VOL		0.55	7TH TSP	+0.01
		02/95	H/L Speci	VOL		1.11	6TH TSP	+12.51
12	84	02/95	Bobbin	ODI	95	0.51	4TH TSP	+0.05
12	86	02/95	Bobbin	ODI	24	0.21	4TH TSP	+0.00
12	87	02/95	Bobbin	NQI		0.35	7TH TSP	+14.99
		02/95	Bobbin	NQI		0.41	7TH TSP	+18.17
		02/95	Bobbin	ODI	25	0.52	3RD TSP	+19.29
		02/95	H/L Speci	VOL		0.30	7TH TSP	+15.45
		02/95	H/L Speci	VOL		0.44	3RD TSP	+19.07
		02/95	H/L Speci	VOL		0.65	7TH TSP	+18.68
12	91	02/95	Bobbin	NQI		0.59	3RD TSP	+36.62
		02/95	H/L Speci	VOL		0.78	4TH TSP	-6.77
12	94	02/95	Bobbin	ODI	16	0.78	22ND TSP	+2.85
		02/95	C/L Speci	VOL		1.47	22ND TSP	+2.85
12	95	02/95	Bobbin	ODI	1	0.29	5TH TSP	+0.02
		02/95	Bobbin	ODI	20	0.62	3RD TSP	+0.02
12	98	02/95	Bobbin	ODI	25	0.40	3RD TSP	+0.02
		02/95	Bobbin	ODI	56	0.20	2ND TSP	+0.02
12	100	02/95	Bobbin	ODI	7	1.48	4TH TSP	+24.46
		02/95	Bobbin	ODI	2	0.59	12TH TSP	+21.28
		02/95	H/L Speci	VOL		0.65	3RD TSP	+18.34
		02/95	H/L Speci	VOL		2.17	4TH TSP	+23.68
		02/95	C/L Speci	VOL		0.59	12TH TSP	+22.09
12	102	02/95	Bobbin	ODI	10	0.43	3RD TSP	+20.69
		02/95	Bobbin	ODI	8	2.47	12TH TSP	+23.90
		02/95	H/L Speci	VOL		0.26	4TH TSP	-13.41
12	104	02/95	Bobbin	ODI	33	0.65	3RD TSP	+15.96
		02/95	Bobbin	ODI	73	0.31	4TH TSP	+0.17
		02/95	H/L Speci	VOL		0.70	3RD TSP	+14.55
		02/95	H/L Speci	VOL		0.91	1ST TSP	+8.41
13	8	02/95	C/L Speci	VOL		0.63	17TH TSP	-2.56
13	19	02/95	H/L Speci	VOL		0.12	5TH TSP	+8.62
13	23	02/95	Bobbin	ODI	1	0.46	2ND TSP	+0.38
		02/95	Bobbin	ODI	97	0.64	3RD TSP	-0.07
13	25	02/95	Bobbin	ODI	5	0.69	22ND TSP	+16.08
		02/95	C/L Speci	VOL		0.47	21ST TSP	-4.67
13	26	02/95	Bobbin	ODI	54	0.20	6TH TSP	-0.02
13	29	02/95	Bobbin	ODI	36	0.51	3RD TSP	+0.00
13	31	02/95	Bobbin	ODI	54	0.46	4TH TSP	+0.05
		02/95	Bobbin	ODI	62	0.91	2ND TSP	-0.21
13	37	02/95	Bobbin	NQI		8.43	9TH TSP	+9.80
		02/95	U-Bend	VOL		0.59	9TH TSP	+8.94
		02/95	Bobbin	ODI	1	0.50	2ND TSP	-0.05
13	38	02/95	Bobbin	ODI	1	0.59	2ND TSP	-0.07
13	40	02/95	Bobbin	ODI	1	0.38	6TH TSP	-0.12
		02/95	Bobbin	ODI	1	0.54	5TH TSP	-0.05
		02/95	Bobbin	ODI	39	0.40	4TH TSP	-0.02
		02/95	Bobbin	ODI	72	0.44	2ND TSP	-0.05
13	41	02/95	Bobbin	ODI	16	0.24	3RD TSP	+0.05
13	43	02/95	Bobbin	ODI	9	0.57	2ND TSP	+0.02
		02/95	Bobbin	ODI	35	0.41	3RD TSP	-0.17
13	46	02/95	Bobbin	ODI	1	0.70	2ND TSP	+0.02

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

13	47	02/95	Bobbin	ODI	47	0.40	3RD TSP	-0.02
13	48	02/95	Bobbin	ODI	1	0.70	2ND TSP	-0.07
13	50	02/95	Bobbin	ODI	15	0.87	2ND TSP	-0.02
13	51	02/95	Bobbin	ODI	1	0.55	2ND TSP	+0.02
		02/95	Bobbin	ODI	1	0.68	5TH TSP	-0.02
		02/95	Bobbin	ODI	22	0.65	3RD TSP	+0.02
		02/95	Bobbin	ODI	75	0.31	4TH TSP	+0.00
13	52	02/95	Bobbin	ODI	1	0.46	2ND TSP	+0.02
		02/95	Bobbin	ODI	4	0.48	3RD TSP	-0.07
		02/95	Bobbin	ODI	70	0.34	5TH TSP	-0.25
13	54	02/95	Bobbin	ODI	22	0.44	2ND TSP	-0.20
		02/95	Bobbin	ODI	41	0.56	3RD TSP	-0.05
		02/95	Bobbin	ODI	62	0.41	4TH TSP	+0.12
13	60	02/95	Bobbin	ODI	12	0.61	2ND TSP	+0.10
13	65	02/95	Bobbin	ODI	1	0.62	3RD TSP	+0.15
		02/95	Bobbin	ODI	6	1.58	4TH TSP	+36.10
		02/95	H/L Speci	VOL		0.43	5TH TSP	-7.42
13	67	02/95	Bobbin	ODI	96	0.51	5TH TSP	+0.07
13	72	02/95	Bobbin	ODI	32	0.38	3RD TSP	+0.10
		02/95	Bobbin	ODI	37	0.23	4TH TSP	+0.10
13	77	02/95	Bobbin	ODI	50	0.44	3RD TSP	+0.00
13	78	02/95	Bobbin	ODI	11	1.13	6TH TSP	+21.85
		02/95	H/L Speci	VOL		1.93	5TH TSP	+20.62
13	80	02/95	Bobbin	ODI	13	0.62	3RD TSP	+0.07
		02/95	Bobbin	ODI	25	0.35	4TH TSP	+0.03
		02/95	Bobbin	ODI	69	0.26	5TH TSP	+0.10
		02/95	Bobbin	ODI	71	0.32	2ND TSP	-0.02
13	83	02/95	Bobbin	ODI	23	0.39	2ND TSP	-0.15
13	87	02/95	Bobbin	ODI	28	0.36	5TH TSP	+0.17
		02/95	Bobbin	ODI	55	0.27	4TH TSP	+0.00
		02/95	Bobbin	ODI	59	0.58	3RD TSP	+0.00
14	4	02/95	Bobbin	ODI	97	0.39	3RD TSP	-0.07
14	22	02/95	Bobbin	ODI	21	0.37	4TH TSP	+0.16
14	25	02/95	Bobbin	ODI	7	0.49	10TH TSP	+9.33
		02/95	C/L Speci	VOL		0.45	10TH TSP	+9.33
14	40	02/95	Bobbin	ODI	56	0.26	4TH TSP	-0.02
14	41	02/95	Bobbin	ODI	22	0.66	3RD TSP	-0.23
		02/95	Bobbin	ODI	51	0.92	2ND TSP	+0.02
14	46	02/95	Bobbin	ODI	16	4.74	10TH TSP	+38.85
		02/95	C/L Speci	VOL		0.97	9TH TSP	-4.16
14	47	02/95	Bobbin	ODI	82	0.33	2ND TSP	-0.07
14	59	02/95	Bobbin	ODI	81	0.53	5TH TSP	+0.10
14	61	02/95	Bobbin	ODI	1	1.81	4TH TSP	+34.62
		02/95	H/L Speci	VOL		0.65	5TH TSP	-8.90
14	69	02/95	Bobbin	ODI	36	0.34	3RD TSP	+0.15
14	72	02/95	Bobbin	ODI	57	0.45	2ND TSP	+0.05
14	73	02/95	Bobbin	ODI	4	1.70	2ND TSP	+17.93
		02/95	H/L Speci	VOL		0.49	3RD TSP	-5.86
14	75	02/95	Bobbin	ODI	82	0.43	2ND TSP	+0.02
14	87	02/95	Bobbin	ODI	14	0.86	4TH TSP	+24.94
		02/95	H/L Speci	VOL		0.63	4TH TSP	+25.09
14	88	02/95	Bobbin	ODI	20	0.59	1ST TSP	+14.16
		02/95	H/L Speci	VOL		0.37	2ND TSP	-6.30
14	89	02/95	Bobbin	ODI	37	0.60	3RD TSP	+0.10
14	90	02/95	Bobbin	ODI	25	0.59	3RD TSP	+0.00
		02/95	Bobbin	ODI	44	0.39	4TH TSP	+0.10
14	93	02/95	Bobbin	ODI	7	0.22	3RD TSP	+0.15
		02/95	Bobbin	ODI	13	1.62	3RD TSP	+13.70
		02/95	Bobbin	ODI	32	0.32	2ND TSP	+0.15
		02/95	H/L Speci	VOL		0.74	3RD TSP	+13.52
14	94	02/95	Bobbin	ODI	66	0.38	4TH TSP	+0.10
		02/95	Bobbin	ODI	80	0.68	3RD TSP	-0.02
		02/95	Bobbin	ODI	86	0.74	2ND TSP	+0.23
14	95	02/95	Bobbin	ODI	33	0.41	3RD TSP	-0.02
		02/95	Bobbin	ODI	45	0.44	4TH TSP	-0.10

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

14	102	02/95	Bobbin	ODI	1	0.21	8TH TSP	-0.05
15	10	02/95	C/L Speci	VOL		0.29	12TH TSP	+8.68
		02/95	C/L Speci	VOL		0.29	12TH TSP	+23.03
15	25	02/95	Bobbin	NQI		0.31	17TH TSP	+2.30
15	42	02/95	Bobbin	ODI	75	1.03	2ND TSP	-0.05
		02/95	H/L Speci	MAI		0.35	2ND TSP	+0.00
15	47	02/95	Bobbin	ODI	34	0.26	5TH TSP	-0.21
		02/95	Bobbin	ODI	86	0.41	2ND TSP	-0.05
15	50	02/95	Bobbin	NQI		0.37	11TH TSP	+8.12
		02/95	C/L Speci	VOL		0.26	11TH TSP	+7.80
		02/95	C/L Speci	VOL		0.72	11TH TSP	+2.87
15	52	02/95	Bobbin	ODI	72	0.48	2ND TSP	-0.05
		02/95	Bobbin	ODI	73	0.53	3RD TSP	-0.14
15	64	02/95	Bobbin	ODI	12	2.56	2ND TSP	+14.85
		02/95	H/L Speci	VOL		0.58	3RD TSP	-9.08
15	72	02/95	Bobbin	ODI	11	0.88	7TH TSP	+21.49
		02/95	H/L Speci	VOL		0.19	7TH TSP	+21.49
15	74	02/95	Bobbin	ODI	29	0.34	5TH TSP	-0.03
		02/95	Bobbin	ODI	59	0.23	2ND TSP	+0.03
		02/95	Bobbin	ODI	83	0.92	3RD TSP	+0.13
15	87	02/95	Bobbin	ODI	95	0.36	4TH TSP	+0.03
		02/95	Bobbin	ODI	3	0.44	16TH TSP	-0.10
15	90	02/95	Bobbin	ODI	53	0.25	4TH TSP	+0.00
		02/95	Bobbin	ODI	95	0.37	3RD TSP	+0.05
		02/95	H/L Speci	VOL		0.15	4TH TSP	-8.75
15	91	02/95	Bobbin	ODI	33	0.28	3RD TSP	+0.05
		02/95	Bobbin	ODI	38	0.26	4TH TSP	+0.05
15	95	02/95	Bobbin	ODI	1	0.47	2ND TSP	+0.13
		02/95	Bobbin	ODI	42	0.67	4TH TSP	+0.13
15	96	02/95	Bobbin	ODI	1	0.54	3RD TSP	+0.08
15	97	02/95	Bobbin	ODI	30	0.62	3RD TSP	+0.10
15	98	02/95	Bobbin	ODI	92	0.41	4TH TSP	-0.05
15	101	02/95	Bobbin	NQI		0.42	4TH TSP	+11.44
		02/95	Bobbin	ODI	21	0.63	4TH TSP	+15.47
		02/95	H/L Speci	VOL		0.57	4TH TSP	+16.28
		02/95	H/L Speci	VOL		1.75	4TH TSP	+10.20
16	14	02/95	Bobbin	ODI	1	0.56	4TH TSP	+0.05
16	17	02/95	Bobbin	ODI	10	0.22	5TH TSP	-0.35
16	24	02/95	Bobbin	ODI	23	1.51	5TH TSP	+35.18
		02/95	H/L Speci	VOL		0.35	6TH TSP	-10.28
16	27	02/95	Bobbin	ODI	20	1.48	13TH TSP	+19.12
		02/95	C/L Speci	VOL		0.29	13TH TSP	+19.12
16	40	02/95	Bobbin	ODI	80	1.08	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.63	2ND TSP	-0.14
16	41	02/95	Bobbin	ODI	90	0.29	2ND TSP	-0.02
16	55	02/95	Bobbin	ODI	75	0.50	3RD TSP	+0.17
16	57	02/95	Bobbin	ODI	1	0.47	2ND TSP	+0.00
16	59	02/95	Bobbin	ODI	55	0.27	2ND TSP	+0.07
16	69	02/95	Bobbin	ODI	5	0.67	16TH TSP	+7.55
		02/95	C/L Speci	VOL		0.21	16TH TSP	+8.13
16	70	02/95	Bobbin	ODI	8	0.30	2ND TSP	+0.00
		02/95	H/L Speci	VOL		0.43	5TH TSP	-4.93
16	73	02/95	Bobbin	ODI	1	0.27	3RD TSP	+0.19
		02/95	Bobbin	ODI	63	0.43	4TH TSP	+0.17
		02/95	Bobbin	ODI	74	0.33	2ND TSP	+0.05
16	74	02/95	Bobbin	ODI	8	1.57	7TH TSP	+23.40
		02/95	Bobbin	ODI	33	0.24	4TH TSP	+0.10
		02/95	Bobbin	ODI	70	0.45	3RD TSP	+0.00
		02/95	H/L Speci	VOL		0.76	7TH TSP	+23.06
		02/95	C/L Speci	VOL		0.26	22ND TSP	+2.23
16	75	02/95	Bobbin	ODI	32	0.27	2ND TSP	+0.05
		02/95	Bobbin	ODI	93	0.57	3RD TSP	+0.07
16	76	02/95	Bobbin	ODI	40	0.66	2ND TSP	+0.05
		02/95	Bobbin	ODI	6	0.74	22ND TSP	+11.68
		02/95	C/L Speci	VOL		0.18	22ND TSP	+11.98

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS
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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
16	77	02/95	Bobbin	ODI	93	0.35	4TH TSP	+0.05	
16	78	02/95	Bobbin	ODI	52	0.32	4TH TSP	+0.12	
		02/95	Bobbin	ODI	97	0.38	2ND TSP	+0.05	
16	79	02/95	Bobbin	ODI	72	0.29	3RD TSP	+0.05	
16	80	02/95	Bobbin	ODI	45	0.71	3RD TSP	+0.15	
		02/95	Bobbin	ODI	52	0.55	5TH TSP	+0.17	
		02/95	Bobbin	ODI	89	0.50	4TH TSP	+0.22	
16	81	02/95	Bobbin	ODI	82	0.35	4TH TSP	+0.07	
16	82	02/95	Bobbin	ODI	10	0.88	10TH TSP	+5.17	
		02/95	H/L Speci	VOL		0.34	3RD TSP	+18.37	
		02/95	C/L Speci	VOL		0.47	10TH TSP	+4.25 to *	
16	83	02/95	Bobbin	ODI	24	0.58	2ND TSP	-0.02	
		02/95	Bobbin	ODI	90	0.19	5TH TSP	+0.12	
16	84	02/95	Bobbin	ODI	1	0.75	2ND TSP	+0.10	
		02/95	Bobbin	ODI	96	0.68	3RD TSP	+0.19	
16	85	02/95	Bobbin	ODI	3	0.62	3RD TSP	-0.05	
		02/95	Bobbin	ODI	53	0.17	7TH TSP	+0.05	
		02/95	Bobbin	ODI	4	1.18	21ST TSP	+4.62	
		02/95	C/L Speci	VOL		0.23	21ST TSP	+4.94	
16	90	02/95	Bobbin	ODI	60	0.49	3RD TSP	+0.17	
		02/95	Bobbin	ODI	90	0.35	4TH TSP	+0.05	
16	91	02/95	Bobbin	ODI	39	0.50	3RD TSP	+0.10	
16	92	02/95	Bobbin	ODI	10	0.33	4TH TSP	-0.02	
		02/95	Bobbin	ODI	68	0.33	3RD TSP	+0.10	
16	93	02/95	Bobbin	ODI	81	0.43	3RD TSP	+0.14	
		02/95	Bobbin	ODI	93	0.23	4TH TSP	+0.07	
16	94	02/95	Bobbin	ODI	27	0.26	2ND TSP	-0.10	
		02/95	Bobbin	ODI	70	0.28	4TH TSP	+0.07	
16	98	02/95	Bobbin	ODI	11	0.78	4TH TSP	+13.45	
		02/95	H/L Speci	VOL		0.32	4TH TSP	+18.02	
		02/95	H/L Speci	VOL		0.34	4TH TSP	+13.51	
16	100	02/95	Bobbin	ODI	7	1.26	13TH TSP	+9.44	
		02/95	Bobbin	ODI	16	0.97	12TH TSP	+21.24	
		02/95	C/L Speci	VOL		0.47	13TH TSP	+10.10	
		02/95	C/L Speci	VOL		0.59	12TH TSP	+22.46	
16	104	02/95	Bobbin	ODI	11	0.26	4TH TSP	+0.02	
16	105	02/95	Bobbin	NQI		0.65	13TH TSP	+19.25	
		02/95	C/L Speci	VOL		0.30	12TH TSP	-2.85	
16	107	02/95	Bobbin	ODI	3	1.06	4TH TSP	+26.76	
		02/95	Bobbin	ODI	13	0.73	4TH TSP	+24.43	
		02/95	H/L Speci	VOL		0.57	4TH TSP	+24.23	
		02/95	H/L Speci	VOL		0.68	4TH TSP	+26.64	
16	109	02/95	Bobbin	NQI		0.86	8TH TSP	+19.61	
		02/95	U-Bend	VOL		0.63	8TH TSP	+19.02	
17	5	02/95	Bobbin	ODI	80	0.29	2ND TSP	+0.05	
17	9	02/95	Bobbin	ODI	10	2.49	11TH TSP	+24.64	
		02/95	C/L Speci	VOL		0.34	11TH TSP	+24.64	
17	11	02/95	Bobbin	ODI	39	0.38	17TH TSP	+0.00	
17	13	02/95	H/L Tubes	SAI		0.44	TTS-HL	+0.11	
17	15	02/95	Bobbin	ODI	90	0.15	4TH TSP	+0.00	
17	21	02/95	Bobbin	ODI	1	1.05	5TH TSP	+0.05	
17	24	02/95	Bobbin	ODI	24	0.39	21ST TSP	+4.57	
		02/95	C/L Speci	VOL		0.30	21ST TSP	+4.57	
		02/95	C/L Speci	VOL		0.42	21ST TSP	-2.01	
		02/95	C/L Speci	VOL		0.43	21ST TSP	-1.00	
17	26	02/95	Bobbin	ODI	1	0.66	2ND TSP	-0.12	
17	34	02/95	Bobbin	ODI	16	0.17	7TH TSP	+0.00	
17	35	02/95	Bobbin	ODI	41	0.41	5TH TSP	+0.00	
		02/95	H/L Speci	VOL		0.36	3RD TSP	+20.77	
17	40	02/95	Bobbin	ODI	1	0.37	3RD TSP	+0.00	
		02/95	Bobbin	ODI	73	0.51	2ND TSP	-0.02	
		02/95	Bobbin	ODI	79	0.19	4TH TSP	+0.02	
17	41	02/95	Bobbin	ODI	9	1.75	13TH TSP	+16.79	
		02/95	C/L Speci	VOL		0.53	12TH TSP	-4.29	
17	42	02/95	Bobbin	ODI	87	0.63	2ND TSP	+0.00	

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
17	43	02/95	Bobbin	ODI	40	0.49	2ND TSP	+0.02
		02/95	Bobbin	ODI	14	1.19	22ND TSP	+17.49
		02/95	C/L Speci	VOL		1.12	21ST TSP	-2.48
17	45	02/95	Bobbin	ODI	2	0.32	4TH TSP	-0.05
		02/95	Bobbin	ODI	55	0.27	3RD TSP	-0.02
17	49	02/95	Bobbin	ODI	28	0.30	8TH TSP	-0.12
		02/95	Bobbin	ODI	78	0.33	2ND TSP	+0.17
17	50	02/95	Bobbin	ODI	22	0.45	4TH TSP	-0.07
		02/95	Bobbin	ODI	51	0.22	8TH TSP	-0.12
		02/95	Bobbin	ODI	96	0.35	3RD TSP	-0.31
17	51	02/95	Bobbin	ODI	28	0.64	2ND TSP	-0.12
		02/95	Bobbin	ODI	75	0.31	3RD TSP	-0.10
		02/95	Bobbin	ODI	83	0.48	4TH TSP	-0.24
17	55	02/95	Bobbin	ODI	26	0.69	3RD TSP	+0.00
		02/95	Bobbin	ODI	40	0.74	2ND TSP	-0.14
17	56	02/95	Bobbin	ODI	97	0.28	3RD TSP	+0.00
17	71	02/95	Bobbin	ODI	18	1.04	3RD TSP	+29.68
		02/95	H/L Speci	VOL		1.54	4TH TSP	-13.72
17	85	02/95	Bobbin	NQI		3.15	TTS-CL	-1.32
17	94	02/95	Bobbin	ODI	3	3.88	4TH TSP	+13.90
		02/95	H/L Speci	VOL		0.80	4TH TSP	+13.66
17	96	02/95	Bobbin	ODI	8	0.65	6TH TSP	+9.60
		02/95	H/L Speci	VOL		0.27	6TH TSP	+7.36
		02/95	H/L Speci	VOL		0.36	6TH TSP	+11.33
		02/95	H/L Speci	VOL		0.52	6TH TSP	+7.64
		02/95	H/L Speci	VOL		1.26	6TH TSP	+9.65
17	99	02/95	H/L Tubes	VOL		1.01	TTS-HL	+0.34
		02/95	H/L Tubes	VOL		1.09	TTS-HL	+1.87
17	104	02/95	Bobbin	ODI	8	1.21	4TH TSP	+20.78
		02/95	H/L Speci	VOL		1.00	4TH TSP	+20.72
17	107	02/95	Bobbin	ODI	1	1.09	3RD TSP	+26.47
		02/95	H/L Speci	VOL		0.63	3RD TSP	+26.15
17	111	02/95	Bobbin	ODI	5	2.23	3RD TSP	+18.61
18	9	02/95	Bobbin	ODI	24	0.93	20TH TSP	+5.90
		02/95	C/L Speci	VOL		0.60	20TH TSP	+5.90
18	14	02/95	Bobbin	ODI	28	0.30	8TH TSP	-0.07
18	18	02/95	Bobbin	ODI	1	0.27	4TH TSP	-0.02
18	20	02/95	C/L Speci	VOL		0.17	19TH TSP	+5.65
18	31	02/95	C/L Speci	VOL		0.61	11TH TSP	+14.62
18	34	02/95	Bobbin	ODI	12	0.94	21ST TSP	+4.96
		02/95	H/L Speci	VOL		0.29	3RD TSP	+5.15
		02/95	C/L Speci	VOL		0.55	21ST TSP	+4.96
18	39	02/95	Bobbin	ODI	72	0.46	2ND TSP	+0.00
18	41	02/95	Bobbin	ODI	35	0.74	3RD TSP	+0.05
18	47	02/95	Bobbin	ODI	27	1.33	3RD TSP	+37.74
		02/95	H/L Speci	VOL		0.46	4TH TSP	-6.83
18	48	02/95	Bobbin	ODI	69	0.32	4TH TSP	-0.02
18	50	02/95	Bobbin	ODI	1	0.62	2ND TSP	+0.17
		02/95	Bobbin	ODI	50	0.32	3RD TSP	-0.22
18	51	02/95	Bobbin	ODI	1	0.52	8TH TSP	-0.05
		02/95	Bobbin	ODI	36	0.98	3RD TSP	+30.78
		02/95	H/L Speci	VOL		0.44	4TH TSP	-13.58
18	52	02/95	H/L Speci	VOL		0.79	6TH TSP	-3.52
		02/95	H/L Speci	VOL		1.01	6TH TSP	-4.49
18	55	02/95	Bobbin	ODI	65	0.43	6TH TSP	-0.05
		02/95	Bobbin	ODI	11	1.81	15TH TSP	+9.09
		02/95	C/L Speci	VOL		0.43	14TH TSP	-1.69
18	58	02/95	H/L Speci	VOL		0.85	4TH TSP	+34.49
18	70	02/95	Bobbin	ODI	1	0.28	5TH TSP	+0.12
18	77	02/95	Bobbin	ODI	1	0.32	3RD TSP	-0.05
18	84	02/95	H/L Speci	NQI		0.18	3RD TSP	+20.03
18	92	02/95	Bobbin	ODI	23	1.99	1ST TSP	+3.88
		02/95	Bobbin	ODI	27	0.76	1ST TSP	+5.42
		02/95	Bobbin	ODI	27	0.95	1ST TSP	+2.55
		02/95	H/L Speci	VOL		1.02	1ST TSP	+5.12

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		1.50	1ST TSP	+2.47
		02/95	H/L Speci	VOL		2.09	1ST TSP	+3.67
18	104	02/95	Bobbin	ODI	7	1.82	4TH TSP	+24.54
		02/95	H/L Speci	VOL		1.04	4TH TSP	+24.38
18	107	02/95	Bobbin	ODI	10	1.77	11TH TSP	+31.70
		02/95	C/L Speci	VOL		0.35	10TH TSP	-12.74
18	109	02/95	Bobbin	ODI	1	0.16	2ND TSP	+0.02
19	6	02/95	Bobbin	ODI	16	0.38	4TH TSP	-0.09
		02/95	Bobbin	ODI	37	0.43	5TH TSP	-0.02
		02/95	Bobbin	ODI	67	0.25	3RD TSP	+0.02
19	8	02/95	Bobbin	ODI	1	1.02	2ND TSP	+15.67
		02/95	H/L Speci	VOL		1.17	3RD TSP	-8.51
		02/95	C/L Speci	VOL		0.52	10TH TSP	-4.25
19	9	02/95	Bobbin	ODI	19	0.99	12TH TSP	+39.42
		02/95	C/L Speci	VOL		0.71	11TH TSP	-5.02
19	13	02/95	Bobbin	ODI	49	0.21	5TH TSP	-0.09
19	15	02/95	Bobbin	ODI	11	0.67	12TH TSP	+10.90
		02/95	C/L Speci	VOL		0.58	12TH TSP	+10.33
19	17	02/95	Bobbin	ODI	80	0.70	2ND TSP	-0.12
19	21	02/95	Bobbin	ODI	54	0.46	5TH TSP	+0.07
19	23	02/95	Bobbin	ODI	80	0.27	4TH TSP	-0.02
19	25	02/95	Bobbin	ODI	8	0.65	3RD TSP	+0.21
		02/95	Bobbin	ODI	10	0.47	4TH TSP	+0.05
		02/95	Bobbin	ODI	93	0.70	2ND TSP	+0.00
19	28	02/95	Bobbin	NQI		1.07	18TH TSP	+17.06
		02/95	C/L Speci	VOL		0.74	17TH TSP	-4.98
19	29	02/95	Bobbin	NQI	25.41		TTS-CL	-0.94
		02/95	H/L Speci	VOL		0.69	2ND TSP	+10.57
19	37	02/95	Bobbin	ODI	13	0.46	20TH TSP	+5.50
		02/95	C/L Speci	VOL		0.25	20TH TSP	+5.31
19	40	02/95	Bobbin	ODI	20	0.72	19TH TSP	+5.58
		02/95	C/L Speci	VOL		0.45	19TH TSP	+5.47
19	46	02/95	Bobbin	ODI	6	0.23	7TH TSP	-0.09
		02/95	Bobbin	ODI	91	0.30	4TH TSP	+0.00
19	54	02/95	Bobbin	NQI		0.23	15TH TSP	+6.61
		02/95	C/L Speci	VOL		0.21	15TH TSP	+6.57
19	55	02/95	Bobbin	ODI	11	2.49	11TH TSP	+25.13
		02/95	C/L Speci	VOL		0.72	11TH TSP	+23.89
19	62	02/95	Bobbin	ODI	8	0.29	6TH TSP	+0.00
		02/95	Bobbin	ODI	30	0.22	4TH TSP	+0.14
19	63	02/95	Bobbin	ODI	6	0.70	7TH TSP	+11.55
		02/95	Bobbin	ODI	10	0.49	7TH TSP	+13.10
		02/95	H/L Speci	VOL		0.35	7TH TSP	+11.82
		02/95	H/L Speci	VOL		0.49	7TH TSP	+13.65
19	71	02/95	Bobbin	ODI	16	0.20	7TH TSP	+0.00
19	72	02/95	Bobbin	ODI	1	0.34	4TH TSP	+0.00
19	76	02/95	Bobbin	ODI	10	1.07	13TH TSP	+3.52
		02/95	C/L Speci	VOL		0.65	13TH TSP	+4.02
20	9	02/95	H/L Speci	VOL		0.25	TTS-HL	+1.56
20	11	02/95	H/L Speci	VOL		1.13	7TH TSP	+26.98
		02/95	H/L Speci	VOL		1.18	7TH TSP	+24.22
20	12	02/95	Bobbin	ODI	13	0.26	4TH TSP	+0.02
		02/95	Bobbin	ODI	69	0.23	2ND TSP	+0.00
		02/95	C/L Speci	VOL		0.11	14TH TSP	-4.43
20	14	02/95	H/L Speci	VOL		1.25	7TH TSP	+25.98
20	15	02/95	H/L Speci	VOL		0.74	6TH TSP	+6.18
20	24	02/95	U-Bend	VOL		0.94	9TH TSP	+10.44
		02/95	Bobbin	NQI		0.53	18TH TSP	+0.00
		02/95	Bobbin	ODI	97	0.39	2ND TSP	+0.02
		02/95	H/L Speci	VOL		0.39	3RD TSP	+15.42
20	26	02/95	Bobbin	ODI	21	0.40	2ND TSP	-0.09
		02/95	Bobbin	ODI	55	0.39	3RD TSP	+0.00
20	33	02/95	Bobbin	ODI	44	0.25	4TH TSP	+0.02
20	35	02/95	Bobbin	ODI	23	0.26	5TH TSP	-0.26
20	39	02/95	Bobbin	ODI	21	0.30	4TH TSP	+0.00

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

20	41	02/95	Bobbin	ODI	1	0.28	6TH TSP	-0.14
20	42	02/95	C/L Spec	VOL		0.24	12TH TSP	+28.30
20	47	02/95	Bobbin	ODI	1	0.64	8TH TSP	-0.28
20	51	02/95	Bobbin	ODI	1	0.54	6TH TSP	-0.26
		02/95	Bobbin	ODI	1	0.63	8TH TSP	-0.26
		02/95	Bobbin	ODI	7	0.44	7TH TSP	-0.28
20	53	02/95	Bobbin	ODI	1	0.50	4TH TSP	+0.07
20	54	02/95	C/L Spec	VOL		0.14	13TH TSP	+13.95
20	55	02/95	Bobbin	ODI	1	0.45	4TH TSP	+0.12
20	57	02/95	C/L Spec	VOL		0.54	10TH TSP	-9.39
20	62	02/95	Bobbin	ODI	79	0.16	4TH TSP	+0.07
20	65	02/95	Bobbin	NQI		0.64	7TH TSP	-0.14
		02/95	Bobbin	ODI	63	0.45	3RD TSP	+0.18
20	67	02/95	Bobbin	ODI	34	0.17	5TH TSP	+0.12
20	71	02/95	Bobbin	ODI	23	1.04	10TH TSP	+22.00
		02/95	C/L Spec	VOL		0.85	10TH TSP	+23.13
20	76	02/95	Bobbin	ODI	18	0.39	3RD TSP	+0.05
		02/95	Bobbin	ODI	81	0.17	8TH TSP	-0.05
20	86	02/95	Bobbin	NQI		0.24	12TH TSP	+8.55
20	97	02/95	Bobbin	ODI	8	1.12	7TH TSP	+2.99
		02/95	H/L Spec	VOL		0.93	7TH TSP	+2.91
20	103	02/95	Bobbin	NQI		0.61	10TH TSP	+2.35
		02/95	Bobbin	ODI	9	0.27	10TH TSP	+3.50
		02/95	C/L Spec	VOL		0.14	10TH TSP	+3.64
		02/95	C/L Spec	VOL		0.29	10TH TSP	+2.14
20	107	02/95	Bobbin	ODI	73	0.28	5TH TSP	+0.08
21	5	02/95	C/L Spec	VOL		1.38	22ND TSP	+1.26
21	6	02/95	Bobbin	ODI	1	0.68	2ND TSP	+0.02
21	7	02/95	U-Bend	VOL		0.64	9TH TSP	+12.18
		02/95	H/L Spec	VOL		0.32	7TH TSP	+8.79
		02/95	H/L Spec	VOL		0.36	7TH TSP	+16.10
		02/95	H/L Spec	VOL		0.58	7TH TSP	+17.68
21	17	02/95	Bobbin	ODI	1	0.66	7TH TSP	-0.27
21	18	02/95	Bobbin	ODI	3	0.94	3RD TSP	+0.06
21	24	02/95	Bobbin	ODI	1	0.56	8TH TSP	+0.19
		02/95	Bobbin	ODI	29	0.38	4TH TSP	+0.02
		02/95	Bobbin	ODI	43	0.35	3RD TSP	+0.19
		02/95	Bobbin	ODI	7	1.42	18TH TSP	+9.06
		02/95	C/L Spec	VOL		0.19	18TH TSP	+10.40
		02/95	C/L Spec	VOL		0.20	18TH TSP	+5.99
		02/95	C/L Spec	VOL		0.22	18TH TSP	+8.84
21	28	02/95	Bobbin	ODI	32	0.49	4TH TSP	-0.15
		02/95	C/L Spec	SAI		0.31	11TH TSP	+8.39
21	29	02/95	Bobbin	ODI	95	0.42	2ND TSP	-0.02
21	31	02/95	C/L Spec	VOL		0.42	16TH TSP	-2.37
21	32	02/95	C/L Spec	VOL		0.32	12TH TSP	+9.26
21	35	02/95	Bobbin	ODI	18	2.02	4TH TSP	+28.34
		02/95	H/L Spec	VOL		0.74	4TH TSP	+27.88
21	36	02/95	Bobbin	ODI	16	0.91	5TH TSP	+33.49
		02/95	Bobbin	ODI	25	0.92	5TH TSP	+38.38
		02/95	H/L Spec	VOL		1.26	6TH TSP	-5.56
		02/95	H/L Spec	VOL		1.31	6TH TSP	-10.87
21	38	02/95	Bobbin	ODI	74	0.38	3RD TSP	+0.07
		02/95	Bobbin	ODI	25	0.94	11TH TSP	+32.34
		02/95	C/L Spec	VOL		0.13	10TH TSP	-11.64
21	42	02/95	Bobbin	ODI	64	0.28	3RD TSP	-0.05
21	44	02/95	Bobbin	ODI	19	2.14	6TH TSP	+14.99
		02/95	H/L Spec	VOL		0.72	6TH TSP	+12.80
		02/95	H/L Spec	VOL		0.88	6TH TSP	+15.17
21	46	02/95	C/L Spec	VOL		0.64	10TH TSP	+14.97
21	62	02/95	Bobbin	NQI		1.85	TE-CL	+15.29
		02/95	Bobbin	NQI		4.58	TE-CL	+11.32
21	64	02/95	Bobbin	ODI	3	0.25	3RD TSP	+0.18
21	66	02/95	Bobbin	ODI	1	0.37	6TH TSP	-0.14
21	69	02/95	Bobbin	ODI	8	0.30	3RD TSP	+17.67

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.21	3RD TSP	+17.10
21	71	02/95	Bobbin	ODI	62	0.34	4TH TSP	+0.13
21	73	02/95	Bobbin	ODI	40	0.24	5TH TSP	+0.14
		02/95	Bobbin	ODI	7	0.87	13TH TSP	+11.22
		02/95	C/L Speci	VOL		0.31	13TH TSP	+11.94
21	75	02/95	Bobbin	ODI	14	0.13	5TH TSP	+0.14
21	85	02/95	Bobbin	ODI	59	0.27	3RD TSP	+0.12
21	88	02/95	Bobbin	ODI	1	0.70	3RD TSP	+0.07
		02/95	Bobbin	ODI	18	0.32	6TH TSP	+0.20
		02/95	Bobbin	ODI	85	0.18	2ND TSP	+0.11
21	90	02/95	Bobbin	ODI	4	0.56	3RD TSP	+0.04
		02/95	Bobbin	ODI	20	0.23	8TH TSP	-0.09
21	91	02/95	Bobbin	ODI	39	0.48	4TH TSP	+0.69
21	94	02/95	Bobbin	ODI	3	0.55	2ND TSP	+6.56
		02/95	H/L Speci	VOL		1.19	2ND TSP	+6.47
21	99	02/95	Bobbin	ODI	16	0.29	11TH TSP	+38.72
21	101	02/95	Bobbin	ODI	17	0.32	5TH TSP	+25.80
		02/95	H/L Speci	VOL		0.71	5TH TSP	+26.38
21	103	02/95	Bobbin	NQI		0.41	6TH TSP	+23.29
		02/95	Bobbin	NQI		0.51	5TH TSP	+2.85
		02/95	H/L Speci	VOL		1.13	6TH TSP	+23.23
		02/95	H/L Speci	VOL		1.70	5TH TSP	+2.94
21	104	02/95	Bobbin	ODI	59	0.20	3RD TSP	-0.08
		02/95	Bobbin	ODI	93	0.49	2ND TSP	+0.00
21	107	02/95	H/L Speci	VOL		0.20	7TH TSP	+32.09
		02/95	H/L Speci	VOL		0.24	7TH TSP	+27.49
		02/95	H/L Speci	VOL		0.28	7TH TSP	+36.39
		02/95	H/L Speci	VOL		0.54	7TH TSP	+37.92
		02/95	H/L Speci	VOL		0.68	7TH TSP	+29.04
21	109	02/95	Bobbin	ODI	13	0.84	6TH TSP	+7.95
		02/95	H/L Speci	VOL		0.49	6TH TSP	-9.28
		02/95	H/L Speci	VOL		0.97	6TH TSP	+8.28
22	18	02/95	H/L Speci	VOL		0.48	7TH TSP	+10.74
		02/95	H/L Speci	VOL		0.79	7TH TSP	+8.56
22	23	02/95	Bobbin	ODI	1	0.58	2ND TSP	+0.08
22	40	02/95	Bobbin	ODI	90	0.28	2ND TSP	+0.00
22	41	02/95	Bobbin	ODI	46	0.24	2ND TSP	-0.12
22	42	02/95	Bobbin	ODI	15	0.48	2ND TSP	+0.22
22	47	02/95	Bobbin	ODI	1	0.37	4TH TSP	+0.04
22	52	02/95	C/L Speci	VOL		0.47	9TH TSP	-10.46
22	57	02/95	Bobbin	ODI	50	0.25	2ND TSP	+0.22
22	58	02/95	Bobbin	ODI	1	0.14	4TH TSP	+0.07
		02/95	Bobbin	ODI	12	0.18	6TH TSP	+0.12
22	59	02/95	Bobbin	ODI	6	0.45	4TH TSP	+0.16
22	61	02/95	Bobbin	ODI	3	0.50	4TH TSP	+0.19
		02/95	Bobbin	ODI	8	0.54	3RD TSP	+0.20
22	63	02/95	Bobbin	ODI	16	0.24	5TH TSP	+0.17
22	64	02/95	Bobbin	NQI		0.41	10TH TSP	+36.78
		02/95	C/L Speci	VOL		0.28	10TH TSP	+37.05
22	67	02/95	Bobbin	ODI	1	0.75	2ND TSP	+0.00
		02/95	Bobbin	ODI	42	0.38	3RD TSP	+0.05
		02/95	Bobbin	ODI	62	0.40	4TH TSP	-0.09
22	68	02/95	Bobbin	ODI	1	0.28	2ND TSP	-0.02
		02/95	Bobbin	ODI	5	0.59	7TH TSP	-0.07
22	71	02/95	Bobbin	ODI	2	0.23	2ND TSP	-0.02
22	72	02/95	Bobbin	ODI	1	0.76	3RD TSP	+0.07
		02/95	Bobbin	ODI	18	0.75	2ND TSP	+0.06
		02/95	Bobbin	ODI	67	0.38	4TH TSP	+0.20
22	73	02/95	Bobbin	ODI	15	0.26	5TH TSP	+0.14
		02/95	Bobbin	ODI	81	0.26	2ND TSP	+0.02
		02/95	Bobbin	ODI	85	0.22	4TH TSP	+0.09
		02/95	Bobbin	ODI	90	0.37	3RD TSP	+0.16
22	74	02/95	Bobbin	ODI	4	0.75	TTS-HL	+18.19
		02/95	Bobbin	ODI	32	0.43	3RD TSP	+0.19
		02/95	Bobbin	ODI	92	0.53	2ND TSP	+0.29

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.45	TTS-HL	+16.77
22	79	02/95	C/L Speci	VOL		0.29	11TH TSP	-9.10
22	80	02/95	Bobbin	ODI	7	0.69	12TH TSP	+3.47
		02/95	C/L Speci	VOL		0.43	12TH TSP	+4.82
		02/95	C/L Speci	VOL		0.59	12TH TSP	+3.68
22	86	02/95	Bobbin	ODI	11	0.36	12TH TSP	+10.70
		02/95	C/L Speci	VOL		0.30	12TH TSP	+11.36
22	107	02/95	Bobbin	ODI	1	0.47	2ND TSP	+0.03
23	7	02/95	Bobbin	ODI	26	0.27	4TH TSP	+0.02
23	13	02/95	C/L Speci	VOL		0.18	13TH TSP	-0.25
		02/95	C/L Speci	VOL		0.35	14TH TSP	+9.20
		02/95	C/L Speci	VOL		0.50	13TH TSP	+11.65
		02/95	C/L Speci	VOL		0.59	14TH TSP	+6.70
23	14	02/95	Bobbin	ODI	20	1.24	5TH TSP	+23.27
		02/95	H/L Speci	VOL		0.82	5TH TSP	+22.85
23	19	02/95	Bobbin	ODI	1	0.19	6TH TSP	-0.11
23	32	02/95	Bobbin	ODI	9	1.97	22ND TSP	+5.24
		02/95	C/L Speci	VOL		0.59	22ND TSP	+5.31
23	34	02/95	H/L Speci	VOL		1.04	4TH TSP	+27.27
23	35	02/95	Bobbin	ODI	12	1.36	12TH TSP	+20.05
		02/95	C/L Speci	VOL		0.21	12TH TSP	+20.34
23	50	02/95	Bobbin	ODI	1	0.51	4TH TSP	+0.14
		02/95	Bobbin	ODI	6	2.26	3RD TSP	+34.08
		02/95	H/L Speci	VOL		0.81	4TH TSP	-10.11
23	52	02/95	Bobbin	ODI	20	0.36	3RD TSP	+0.00
23	73	02/95	Bobbin	ODI	1	0.20	4TH TSP	+0.07
23	93	02/95	Bobbin	ODI	62	0.22	3RD TSP	+0.09
24	3	02/95	Bobbin	NQI		0.33	7TH TSP	+10.99
		02/95	Bobbin	NQI		.40	6TH TSP	+26.74
24	17	02/95	Bobbin	ODI	12	.16	5TH TSP	+5.13
		02/95	H/L Speci	VOL		1.13	5TH TSP	+5.25
24	21	02/95	Bobbin	ODI	29	0.31	4TH TSP	+0.02
		02/95	H/L Speci	VC		0.35	2ND TSP	+18.50
		02/95	H/L Speci	VOL		0.43	3RD TSP	+5.09
24	26	02/95	Bobbin	ODI	1	0.45	4TH TSP	-0.05
		02/95	Bobbin	ODI	26	0.26	2ND TSP	+0.07
		02/95	Bobbin	ODI	84	0.50	5TH TSP	-0.12
24	27	02/95	Bobbin	ODI	96	0.92	3RD TSP	-0.21
24	28	02/95	Bobbin	ODI	6	0.20	3RD TSP	+0.05
		02/95	Bobbin	ODI	20	0.24	4TH TSP	+0.00
24	30	02/95	Bobbin	ODI	75	0.24	4TH TSP	-0.05
24	36	02/95	Bobbin	ODI	1	0.40	5TH TSP	+0.02
		02/95	Bobbin	ODI	44	0.44	4TH TSP	+0.00
24	40	02/95	Bobbin	ODI	2	0.28	2ND TSP	-0.09
		02/95	Bobbin	ODI	41	0.41	4TH TSP	+0.02
24	42	02/95	Bobbin	ODI	2	0.49	3RD TSP	-0.23
24	44	02/95	Bobbin	ODI	12	2.94	11TH TSP	+8.26
		02/95	Bobbin	ODI	14	0.89	11TH TSP	+10.41
		02/95	Bobbin	ODI	14	1.61	11TH TSP	-1.46
		02/95	Bobbin	ODI	20	1.20	12TH TSP	+39.62
		02/95	C/L Speci	VOL		0.19	11TH TSP	+14.66
		02/95	C/L Speci	VOL		0.25	11TH TSP	+16.44
		02/95	C/L Speci	VOL		0.33	11TH TSP	+13.37
		02/95	C/L Speci	VOL		0.43	11TH TSP	+10.38
		02/95	C/L Speci	VOL		0.45	11TH TSP	+20.09
		02/95	C/L Speci	VOL		0.47	11TH TSP	+17.79
		02/95	C/L Speci	VOL		0.52	11TH TSP	-8.49
		02/95	C/L Speci	VOL		0.56	11TH TSP	-15.93
		02/95	C/L Speci	VOL		0.57	11TH TSP	-4.46
		02/95	C/L Speci	VOL		0.58	11TH TSP	-1.49
		02/95	C/L Speci	VOL		0.91	11TH TSP	+8.21
24	56	02/95	Bobbin	ODI	48	0.40	3RD TSP	-0.24
24	58	02/95	Bobbin	ODI	16	0.35	4TH TSP	+0.18
24	59	02/95	Bobbin	ODI	19	0.44	6TH TSP	-0.02
24	62	02/95	H/L Tubes	SAI		1.92	TTS-HL	+0.06

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

24	72	02/95	Bobbin	ODI	15	1.03	5TH TSP	+6.93	
		02/95	Bobbin	ODI	23	0.64	5TH TSP	+25.23	
		02/95	H/L Speci	VOL		0.61	5TH TSP	+24.49	
		02/95	H/L Speci	VOL		1.58	5TH TSP	+6.42	
24	88	02/95	Bobbin	ODI	18	0.27	5TH TSP	+0.10	
24	92	02/95	Bobbin	ODI	83	0.30	2ND TSP	+0.03	
24	102	02/95	Bobbin	ODI	13	0.27	3RD TSP	+0.00	
25	11	02/95	Bobbin	ODI	17	1.67	12TH TSP	+22.99	
		02/95	C/L Speci	VOL		0.38	12TH TSP	+22.31	
25	12	02/95	Bobbin	ODI	82	0.63	2ND TSP	-0.03	
25	19	02/95	H/L Speci	VOL		0.54	7TH TSP	+2.56	
25	20	02/95	Bobbin	ODI	16	1.41	6TH TSP	+18.13	
		02/95	H/L Speci	VOL		0.56	6TH TSP	+17.81	
		02/95	C/L Speci	VOL		0.24	22ND TSP	+14.16	
		02/95	C/L Speci	VOL		0.35	22ND TSP	+13.01	
25	23	02/95	C/L Speci	VOL		0.46	11TH TSP	+19.98	
25	26	02/95	Bobbin	NQI		0.28	4TH TSP	-0.20	
		02/95	C/L Speci	VOL		0.39	10TH TSP	+2.11	
25	37	02/95	C/L Speci	VOL		0.40	11TH TSP	+23.70	
25	43	02/95	H/L Speci	VOL		1.04	7TH TSP	+25.34	
25	52	02/95	Bobbin	ODI	9	0.47	6TH TSP	-0.18	
		02/95	Bobbin	ODI	8	1.44	18TH TSP	+17.73	
		02/95	Bobbin	ODI	16	0.35	18TH TSP	+4.30	
		02/95	Bobbin	ODI	16	2.01	18TH TSP	+16.47	
		02/95	Bobbin	ODI	22	0.67	18TH TSP	+8.13	
		02/95	C/L Speci	VOL		0.65	18TH TSP	+17.25	
		02/95	C/L Speci	VOL		0.68	18TH TSP	+13.98	
		02/95	C/L Speci	VOL		0.79	18TH TSP	+16.14	
25	65	02/95	Bobbin	ODI	54	0.50	7TH TSP	+0.00	
		02/95	Bobbin	ODI	60	0.23	2ND TSP	+0.05	
25	66	02/95	Bobbin	ODI	58	0.24	4TH TSP	+0.10	
25	69	02/95	Bobbin	ODI	65	0.43	4TH TSP	+0.23	
25	70	02/95	Bobbin	ODI	1	0.60	7TH TSP	-0.05	
25	71	02/95	Bobbin	ODI	3	3.37	TTS-CL	+4.03	
		02/95	Bobbin	ODI	2	0.53	7TH TSP	-0.15	
		02/95	C/L Speci	VOL		1.29	TTS-CL	+2.38	to *
25	72	02/95	Bobbin	ODI	18	0.61	3RD TSP	+0.20	
25	74	02/95	Bobbin	ODI	17	0.77	2ND TSP	-0.10	
25	92	02/95	Bobbin	ODI	3	1.46	6TH TSP	+34.93	
		02/95	H/L Speci	VOL		0.84	7TH TSP	-9.17	
25	93	02/95	H/L Speci	VOL		0.56	1ST TSP	-3.07	
25	96	02/95	Bobbin	ODI	6	1.92	21ST TSP	+1.84	
		02/95	C/L Speci	VOL		0.78	21ST TSP	+1.46	
25	98	02/95	Bobbin	ODI	67	0.27	3RD TSP	-0.27	
25	101	02/95	Bobbin	ODI	29	0.25	3RD TSP	-0.04	
26	9	02/95	C/L Speci	VOL		0.32	10TH TSP	+14.35	
26	13	02/95	Bobbin	ODI	92	0.16	3RD TSP	-0.13	
26	19	02/95	C/L Speci	VOL		0.29	14TH TSP	+4.95	
26	23	02/95	H/L Speci	VOL		0.57	7TH TSP	+22.31	
26	25	02/95	C/L Speci	VOL		0.21	20TH TSP	+1.72	
26	37	02/95	C/L Speci	VOL		0.45	18TH TSP	+2.06	
		02/95	C/L Speci	VOL		0.29	18TH TSP	+4.54	to *
26	39	02/95	H/L Speci	VOL		0.38	3RD TSP	+28.08	
26	45	02/95	Bobbin	ODI	90	0.34	3RD TSP	-0.10	
26	50	02/95	Bobbin	ODI	68	0.54	4TH TSP	-0.13	
26	52	02/95	Bobbin	ODI	1	1.10	3RD TSP	-0.16	
		02/95	Bobbin	ODI	1	1.50	2ND TSP	+0.16	
		02/95	Bobbin	ODI	20	0.53	4TH TSP	-0.29	
		02/95	Bobbin	ODI	84	0.33	5TH TSP	-0.24	
		02/95	Bobbin	ODI	99	0.35	7TH TSP	-0.08	
26	54	02/95	Bobbin	ODI	69	0.25	6TH TSP	-0.08	
26	55	02/95	Bobbin	ODI	18	1.29	2ND TSP	-0.08	
		02/95	Bobbin	ODI	25	1.07	3RD TSP	-0.16	
		02/95	Bobbin	ODI	41	0.30	7TH TSP	-0.05	
26	56	02/95	Bobbin	ODI	10	0.89	3RD TSP	-0.18	

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

26	59	02/95	Bobbin	ODI	6	1.29	3RD TSP	+35.93	
		02/95	H/L Speci	VOL		0.25	4TH TSP	-4.72	
26	62	02/95	Bobbin	ODI	16	4.13	2ND TSP	-0.73	
		02/95	H/L Speci	VOL		1.50	2ND TSP	-0.68	
26	65	02/95	Bobbin	ODI	9	0.92	5TH TSP	+31.14	
		02/95	H/L Speci	VOL		0.73	6TH TSP	-12.60	
26	68	02/95	Bobbin	ODI	1	5.02	13TH TSP	+3.68	
		02/95	Bobbin	ODI	4	3.03	12TH TSP	+7.7	
		02/95	Bobbin	ODI	5	2.93	12TH TSP	-1.42	
		02/95	C/L Speci	VOL		0.28	13TH TSP	+0.52	
		02/95	C/L Speci	VOL		0.96	12TH TSP	-1.80	
		02/95	C/L Speci	VOL		1.08	12TH TSP	+6.91	
		02/95	C/L Speci	VOL		1.40	13TH TSP	+3.32	
26	71	02/95	H/L Speci	VOL		0.87	2ND TSP	+0.84	to **
26	72	02/95	Bobbin	ODI	5	0.36	8TH TSP	-0.05	
26	73	02/95	Bobbin	ODI	2	0.96	4TH TSP	+40.37	
		02/95	Bobbin	ODI	7	0.55	3RD TSP	+9.20	
		02/95	H/L Speci	VOL		0.55	3RD TSP	+9.64	
		02/95	H/L Speci	VOL		0.68	5TH TSP	-3.89	
26	74	02/95	Bobbin	ODI	11	2.36	4TH TSP	+29.08	
		02/95	H/L Speci	VOL		0.64	5TH TSP	-15.50	
26	76	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.18	
26	77	02/95	Bobbin	ODI	4	0.28	5TH TSP	+0.00	
26	84	02/95	Bobbin	NQI		4.72	TE-CL	+5.17	
26	85	02/95	Bobbin	ODI	1	0.38	3RD TSP	+0.23	
26	87	02/95	Bobbin	ODI	17	0.29	7TH TSP	+40.76	
		02/95	H/L Speci	VOL		0.25	8TH TSP	-2.23	
26	98	02/95	U-Bend	VOL		2.04	8TH TSP	+2.06	
		02/95	Bobbin	ODI	26	1.57	8TH TSP	+1.48	
26	107	02/95	Bobbin	ODI	1	0.38	2ND TSP	+0.16	
27	13	02/95	Bobbin	ODI	1	0.58	3RD TSP	+0.03	
27	14	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.03	
27	21	02/95	Bobbin	ODI	17	1.20	4TH TSP	+7.48	
		02/95	Bobbin	ODI	81	1.02	2ND TSP	-0.05	
		02/95	H/L Speci	VOL		1.88	4TH TSP	+8.07	
27	32	02/95	Bobbin	ODI	18	0.33	5TH TSP	-0.13	
27	38	02/95	Bobbin	ODI	3	0.61	3RD TSP	+6.21	
		02/95	Bobbin	ODI	20	0.86	13TH TSP	+5.50	
		02/95	C/L Speci	VOL		0.17	13TH TSP	+5.74	
		02/95	C/L Speci	VOL		0.17	13TH TSP	+7.31	
		02/95	C/L Speci	VOL		0.26	13TH TSP	+8.64	
27	44	02/95	Bobbin	ODI	11	0.36	3RD TSP	+0.00	
27	49	02/95	Bobbin	ODI	12	0.79	TTS-HL	+14.40	
		02/95	Bobbin	ODI	51	0.22	3RD TSP	+0.08	
		02/95	H/L Speci	VOL		0.39	TTS-HL	+15.37	
27	58	02/95	Bobbin	ODI	2	0.57	7TH TSP	-0.09	
27	61	02/95	Bobbin	NQI		1.75	TE-HL	+11.95	
		02/95	Bobbin	ODI	5	0.43	8TH TSP	+0.10	
		02/95	Bobbin	ODI	28	0.31	7TH TSP	+0.05	
27	64	02/95	Bobbin	ODI	2	0.33	3RD TSP	+0.04	
27	74	02/95	Bobbin	ODI	2	1.16	7TH TSP	+12.99	
		02/95	H/L Speci	VOL		0.22	3RD TSP	-9.03	
		02/95	H/L Speci	VOL		0.87	7TH TSP	+13.12	
27	82	02/95	C/L Speci	VOL		0.46	15TH TSP	-2.91	
27	88	02/95	Bobbin	ODI	5	0.43	4TH TSP	+38.94	
		02/95	H/L Speci	VOL		0.37	5TH TSP	-4.85	
27	96	02/95	Bobbin	ODI	3	0.90	7TH TSP	+38.21	
		02/95	H/L Speci	VOL		1.00	8TH TSP	-4.48	
27	97	02/95	Bobbin	ODI	1	0.66	3RD TSP	-0.25	
27	106	02/95	Bobbin	ODI	15	2.15	16TH TSP	+2.80	
		02/95	C/L Speci	VOL		0.67	16TH TSP	+2.73	
28	10	02/95	Bobbin	ODI	14	1.37	7TH TSP	+36.75	
		02/95	Bobbin	ODI	29	1.81	2ND TSP	+10.46	
		02/95	Bobbin	ODI	20	1.51	11TH TSP	+27.27	
		02/95	Bobbin	ODI	29	0.72	10TH TSP	+20.91	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Spec	VOL		0.32	8TH TSP	-10.56
		02/95	H/L Spec	VOL		0.58	8TH TSP	-8.64
		02/95	H/L Spec	VOL		2.02	2ND TSP	+12.71
		02/95	C/L Spec	VOL		0.46	10TH TSP	+20.36
		02/95	C/L Spec	VOL		0.47	11TH TSP	+26.58
28	11	02/95	Bobbin	ODI	29	0.60	2ND TSP	-0.13
		02/95	Bobbin	ODI	67	0.30	3RD TSP	-0.33
28	27	02/95	Bobbin	ODI	87	0.28	4TH TSP	-0.03
28	28	02/95	Bobbin	ODI	18	0.46	2ND TSP	-0.13
28	30	02/95	Bobbin	NQI		1.11	22ND TSP	+13.30
		02/95	Bobbin	ODI	55	0.61	2ND TSP	-0.20
		02/95	C/L Spec	VOL		0.45	22ND TSP	+14.66
28	32	02/95	Bobbin	ODI	99	0.74	2ND TSP	-0.20
28	37	02/95	Bobbin	ODI	1	0.41	4TH TSP	-0.10
28	38	02/95	Bobbin	NQI		0.54	7TH TSP	-0.33
		02/95	Bobbin	ODI	1	0.75	3RD TSP	-0.23
28	39	02/95	Bobbin	ODI	94	0.46	2ND TSP	-0.28
		02/95	Bobbin	ODI	99	0.89	3RD TSP	-0.08
28	41	02/95	Bobbin	ODI	96	0.34	4TH TSP	-0.10
28	47	02/95	Bobbin	NQI		1.15	2ND TSP	+2.10
		02/95	H/L Spec	VOL		0.77	2ND TSP	+2.38
28	48	02/95	Bobbin	ODI	19	0.87	2ND TSP	+17.81
		02/95	Bobbin	ODI	26	1.41	5TH TSP	+38.31
		02/95	Bobbin	ODI	14	1.89	10TH TSP	+4.16
		02/95	Bobbin	ODI	21	2.42	11TH TSP	+40.15
		02/95	H/L Spec	VOL		0.73	6TH TSP	-6.11
		02/95	H/L Spec	VOL		1.45	2ND TSP	+18.60
		02/95	C/L Spec	VOL		0.24	10TH TSP	-4.14
		02/95	C/L Spec	VOL		0.56	10TH TSP	+4.04
		02/95	C/L Spec	VOL		0.78	10TH TSP	-3.59
28	49	02/95	Bobbin	ODI	93	0.38	4TH TSP	-0.31
28	52	02/95	C/L Spec	VOL		1.21	22ND TSP	+6.24
28	57	02/95	Bobbin	ODI	94	0.22	3RD TSP	+0.00
28	59	02/95	Bobbin	ODI	1	0.43	4TH TSP	+0.06
		02/95	Bobbin	ODI	5	0.23	7TH TSP	-0.04
		02/95	Bobbin	ODI	61	0.20	8TH TSP	-0.10
28	61	02/95	Bobbin	WAR	27	1.36	2AVB	+0.00
28	65	02/95	Bobbin	ODI	1	0.32	3RD TSP	-0.04
28	66	02/95	Bobbin	ODI	13	1.42	16TH TSP	+3.96
		02/95	C/L Spec	VOL		0.52	16TH TSP	+3.91
28	70	02/95	Bobbin	ODI	1	0.23	7TH TSP	+0.00
28	74	02/95	Bobbin	ODI	13	1.41	22ND TSP	+12.46
		02/95	C/L Spec	VOL		0.50	22ND TSP	+11.87
28	85	02/95	Bobbin	ODI	31	0.51	2ND TSP	+10.36
		02/95	H/L Spec	VOL		0.47	2ND TSP	+10.51
28	87	02/95	U-Bend	VOL		0.28	8TH TSP	-0.19
28	92	02/95	Bobbin	ODI	6	0.51	TTS-HL	+6.15
		02/95	Bobbin	ODI	3	0.53	3RD TSP	+23.76
		02/95	H/L Spec	VOL		0.31	3RD TSP	+23.60
28	93	02/95	Bobbin	ODI	27	0.18	3RD TSP	+0.12
29	10	02/95	Bobbin	ODI	8	0.51	7TH TSP	+27.16
		02/95	H/L Spec	VOL		0.45	7TH TSP	+28.23
		02/95	H/L Spec	VOL		0.65	7TH TSP	+22.68
		02/95	C/L Spec	VOL		0.22	22ND TSP	+3.26
29	25	02/95	Bobbin	ODI	30	0.25	3RD TSP	+0.00
29	31	02/95	Bobbin	WAR	10	0.45	4AVB	+0.00
		02/95	Bobbin	WAR	11	0.46	2AVB	+0.00
29	34	02/95	Bobbin	NQI		24.46	TE-HL	+12.27
		02/95	H/L Spec	MAI		4.57	TTS-HL	-9.02
29	36	02/95	Bobbin	ODI	14	0.66	22ND TSP	+13.66
		02/95	C/L Spec	VOL		0.52	22ND TSP	+12.99
29	38	02/95	Bobbin	ODI	17	2.32	5TH TSP	+38.84
		02/95	H/L Spec	VOL		1.17	6TH TSP	-5.91
29	43	02/95	H/L Spec	VOL		1.41	4TH TSP	+16.43
29	45	02/95	Bobbin	ODI	6	0.65	13TH TSP	+12.17

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		0.41	13TH TSP	+12.49
29	77	02/95	Bobbin	ODI	67	0.17	2ND TSP	-0.04
29	83	02/95	Bobbin	ODI	10	1.04	7TH TSP	+32.81
		02/95	H/L Speci	VOL		1.15	8TH TSP	-11.42
29	95	02/95	Bobbin	ODI	54	0.34	3RD TSP	+0.00
29	98	02/95	Bobbin	ODI	1	0.35	3RD TSP	+0.09
30	13	02/95	Bobbin	ODI	12	1.23	7TH TSP	+4.38
		02/95	H/L Speci	VOL		0.76	7TH TSP	+3.76
30	21	02/95	Bobbin	ODI	17	0.55	21ST TSP	+6.46
		02/95	H/L Speci	VOL		0.66	5TH TSP	+27.85
		02/95	C/L Speci	VOL		0.43	21ST TSP	+6.37
		02/95	C/L Speci	VOL		0.51	20TH TSP	-0.31
30	22	02/95	Bobbin	ODI	6	0.54	21ST TSP	+3.59
		02/95	C/L Speci	VOL		0.23	21ST TSP	+6.24
		02/95	C/L Speci	VOL		0.31	21ST TSP	+1.87
		02/95	C/L Speci	VOL		0.46	21ST TSP	+3.76
30	25	02/95	Bobbin	ODI	25	0.39	17TH TSP	+0.05
30	27	02/95	Bobbin	NQI		0.31	6TH TSP	-0.34
		02/95	Bobbin	ODI	28	0.43	17TH TSP	+8.13
		02/95	C/L Speci	VOL		0.36	17TH TSP	+7.83
30	29	02/95	H/L Speci	VOL		0.49	2ND TSP	-4.55
30	35	02/95	Bobbin	ODI	5	1.07	2ND TSP	-0.10
30	37	02/95	Bobbin	ODI	9	0.84	1ST TSP	+8.44
		02/95	H/L Speci	VOL		0.42	1ST TSP	+8.95
30	39	02/95	Bobbin	ODI	10	0.79	13TH TSP	+12.00
		02/95	C/L Speci	VOL		0.35	12TH TSP	-9.49
30	41	02/95	Bobbin	ODI	23	0.47	3RD TSP	+0.00
30	45	02/95	Bobbin	ODI	33	0.30	7TH TSP	-0.21
		02/95	Bobbin	ODI	6	0.79	15TH TSP	+4.78
		02/95	H/L Speci	VOL		0.50	8TH TSP	-12.39
		02/95	C/L Speci	VOL		0.52	15TH TSP	+4.96
30	46	02/95	Bobbin	ODI	27	0.27	2ND TSP	-0.13
30	48	02/95	Bobbin	ODI	13	1.06	6TH TSP	+9.71
		02/95	H/L Speci	VOL		0.75	6TH TSP	+9.47
30	49	02/95	Bobbin	ODI	1	0.45	6TH TSP	-0.23
30	51	02/95	Bobbin	ODI	20	0.34	4TH TSP	+0.18
30	52	02/95	Bobbin	ODI	1	0.56	4TH TSP	+0.13
		02/95	Bobbin	ODI	20	0.39	3RD TSP	+0.05
		02/95	Bobbin	ODI	25	4.11	11TH TSP	+30.74
		02/95	C/L Speci	VOL		1.29	10TH TSP	-13.39
30	53	02/95	Bobbin	ODI	93	0.19	7TH TSP	-0.08
30	54	02/95	C/L Speci	VOL		0.14	15TH TSP	+8.50
30	55	02/95	Bobbin	ODI	74	0.28	3RD TSP	+0.05
30	60	02/95	Bobbin	ODI	36	0.66	5TH TSP	-0.15
30	75	02/95	Bobbin	ODI	8	1.54	6TH TSP	+7.24
		02/95	H/L Speci	VOL		1.06	6TH TSP	+7.45
30	82	02/95	C/L Speci	VOL		1.10	10TH TSP	-18.10
31	13	02/95	Bobbin	ODI	32	0.19	4TH TSP	-0.05
		02/95	Bobbin	ODI	8	0.73	22ND TSP	+3.57
		02/95	C/L Speci	VOL		0.30	22ND TSP	+3.63
31	17	02/95	Bobbin	ODI	1	0.51	2ND TSP	-0.03
31	20	02/95	Bobbin	ODI	10	0.16	4TH TSP	-0.03
		02/95	Bobbin	ODI	79	0.97	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.39	2ND TSP	+0.02
31	21	02/95	Bobbin	ODI	99	0.32	2ND TSP	+0.00
31	22	02/95	Bobbin	ODI	1	0.55	3RD TSP	-0.08
		02/95	Bobbin	ODI	87	0.79	2ND TSP	-0.10
31	25	02/95	Bobbin	ODI	33	1.66	10TH TSP	+35.46
		02/95	C/L Speci	VOL		0.56	9TH TSP	-8.43
31	26	02/95	Bobbin	ODI	10	2.94	12TH TSP	+16.40
		02/95	C/L Speci	VOL		0.37	11TH TSP	+6.96
		02/95	C/L Speci	VOL		0.82	12TH TSP	+16.08
31	28	02/95	Bobbin	ODI	8	0.23	3RD TSP	+0.00
31	37	02/95	Bobbin	ODI	1	0.50	6TH TSP	+0.13
		02/95	Bobbin	ODI	4	0.26	5TH TSP	-0.05

BWNT TUBAN II (Version 2.1) 05/01/1995 07:38:37

Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	76	0.79	4TH	TSP	+0.05
		02/95	Bobbin	ODI	79	1.00	2ND	TSP	-0.09
		02/95	H/L Speci	SAI		0.16	2ND	TSP	-0.02
		02/95	H/L Speci	VOL		0.44	4TH	TSP	+0.08
		02/95	H/L Speci	VOL		0.44	4TH	TSP	+5.92
7	85	02/95	Bobbin	ODI	41	0.85	4TH	TSP	+0.07
		02/95	Bobbin	ODI	81	1.10	2ND	TSP	+0.07
		02/95	Bobbin	ODI	86	0.78	5TH	TSP	+0.11
		02/95	Bobbin	ODI	92	0.21	7TH	TSP	+0.02
		02/95	H/L Speci	VOL		0.65	4TH	TSP	-14.52
		02/95	H/L Speci	VOL		0.70	4TH	TSP	-5.37
		02/95	H/L Speci	VOL		0.72	4TH	TSP	-2.85
7	88	02/95	H/L Speci	SAI		0.23	2ND	TSP	-0.06
7	89	02/95	Bobbin	ODI	64	0.21	2ND	TSP	+0.09
7	90	02/95	H/L Speci	VOL		0.75	3RD	TSP	+0.03
7	93	02/95	Bobbin	ODI	83	0.37	6TH	TSP	+0.02
		02/95	Bobbin	ODI	91	0.45	2ND	TSP	+0.07
		02/95	Bobbin	ODI	94	0.34	7TH	TSP	+0.00
		02/95	Bobbin	ODI	97	1.23	3RD	TSP	+0.05
		02/95	H/L Speci	MAI		0.52	3RD	TSP	-0.01
7	96	02/95	Bobbin	ODI	71	0.73	2ND	TSP	+0.00
7	97	02/95	Bobbin	ODI	87	0.94	2ND	TSP	+0.07
		02/95	H/L Speci	SAI		0.81	2ND	TSP	+0.00
7	100	02/95	Bobbin	ODI	93	0.38	2ND	TSP	+0.09
8	2	02/95	Bobbin	ODI	3	0.54	6TH	TSP	+9.72
		02/95	H/L Speci	VOL		1.06	6TH	TSP	+9.83
8	8	02/95	Bobbin	ODI	73	0.84	2ND	TSP	+0.17
		02/95	H/L Speci	MAI		0.28	2ND	TSP	+0.06
8	12	02/95	Bobbin	ODI	66	0.59	2ND	TSP	+0.02
8	14	02/95	Bobbin	ODI	88	0.47	3RD	TSP	+0.09
8	25	02/95	Bobbin	ODI	80	0.80	2ND	TSP	+0.15
		02/95	H/L Speci	MAI		1.01	2ND	TSP	+0.09
8	26	02/95	Bobbin	ODI	90	0.50	5TH	TSP	+0.08
		02/95	Bobbin	ODI	99	0.82	2ND	TSP	+0.15
		02/95	H/L Speci	SAI		0.50	2ND	TSP	-0.14
8	28	02/95	Bobbin	NQI		0.53	3RD	TSP	+16.19
		02/95	Bobbin	ODI	35	0.47	3RD	TSP	+30.45
		02/95	Bobbin	ODI	16	1.15	22ND	TSP	+2.56
		02/95	H/L Speci	VOL		0.31	3RD	TSP	+16.25
		02/95	H/L Speci	VOL		0.67	4TH	TSP	-14.36
8	29	02/95	Bobbin	ODI	61	0.71	2ND	TSP	-0.09
		02/95	Bobbin	ODI	71	0.51	3RD	TSP	+0.05
8	30	02/95	Bobbin	ODI	14	0.95	12TH	TSP	+22.40
		02/95	Bobbin	ODI	20	1.17	12TH	TSP	+15.40
		02/95	Bobbin	ODI	29	0.23	12TH	TSP	+25.25
		02/95	Bobbin	ODI	37	0.86	12TH	TSP	+12.73
		02/95	C/L Speci	VOL		1.24	12TH	TSP	+21.75
		02/95	C/L Speci	VOL		1.32	12TH	TSP	+24.52
		02/95	C/L Speci	VOL		1.39	12TH	TSP	+15.00
		02/95	C/L Speci	VOL		1.51	12TH	TSP	+12.60
8	31	02/95	Bobbin	ODI	30	0.85	22ND	TSP	+4.57
		02/95	C/L Speci	VOL		0.60	22ND	TSP	+4.52
8	33	02/95	Bobbin	ODI	77	0.23	3RD	TSP	+0.02
8	37	02/95	Bobbin	ODI	88	0.68	2ND	TSP	+0.11
8	44	02/95	Bobbin	ODI	93	0.73	2ND	TSP	+0.00
8	48	02/95	Bobbin	ODI	99	0.60	2ND	TSP	+0.00
8	54	02/95	Bobbin	ODI	43	0.38	2ND	TSP	+0.17
8	59	02/95	Bobbin	ODI	63	0.29	4TH	TSP	+0.09
		02/95	Bobbin	ODI	97	0.21	3RD	TSP	+0.09
8	67	02/95	Bobbin	ODI	8	0.34	2ND	TSP	+0.00
		02/95	Bobbin	ODI	66	0.29	5TH	TSP	+0.12
		02/95	Bobbin	ODI	80	0.34	3RD	TSP	+0.02
8	73	02/95	Bobbin	ODI	4	0.69	3RD	TSP	+0.19
		02/95	Bobbin	ODI	48	0.40	2ND	TSP	+0.14
8	77	02/95	Bobbin	ODI	34	0.50	3RD	TSP	+0.15

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	52	0.86	2ND TSP	+0.12
		02/95	H/L Speci	SAI		0.73	2ND TSP	+0.00
8	83	02/95	H/L Speci	VOL		0.29	4TH TSP	-18.26
		02/95	C/L Speci	VOL		0.29	12TH TSP	+16.24
8	88	02/95	Bobbin	ODI	93	0.36	2ND TSP	+0.07
8	89	02/95	Bobbin	ODI	89	0.49	2ND TSP	+0.05
8	90	02/95	H/L Speci	VOL		0.95	7TH TSP	+21.16
8	92	02/95	Bobbin	ODI	80	0.37	2ND TSP	+0.17
8	102	02/95	Bobbin	ODI	74	0.56	3RD TSP	+0.12
8	104	02/95	Bobbin	ODI	93	1.09	3RD TSP	+0.02
		02/95	Bobbin	ODI	3	0.82	11TH TSP	+40.92
		02/95	H/L Speci	SAI		0.77	3RD TSP	+0.01
		02/95	C/L Speci	VOL		0.97	10TH TSP	-3.06
8	105	02/95	Bobbin	ODI	75	1.04	2ND TSP	+0.02
		02/95	H/L Speci	SAI		0.94	2ND TSP	-0.08
8	108	02/95	Bobbin	NQI		0.60	7TH TSP	+19.43
		02/95	Bobbin	ODI	10	0.49	4TH TSP	+22.84
		02/95	Bobbin	ODI	98	0.58	3RD TSP	+0.05
		02/95	H/L Speci	VOL		0.96	4TH TSP	+22.08
		02/95	H/L Speci	VOL		1.71	7TH TSP	+19.49
8	110	02/95	Bobbin	NQI		0.37	5TH TSP	+35.41
		02/95	H/L Speci	VOL		0.47	6TH TSP	-8.19
8	113	02/95	H/L Speci	VOL		0.60	6TH TSP	+12.41
9	7	02/95	H/L Speci	SAI		0.23	2ND TSP	-0.14
9	9	02/95	Bobbin	ODI	74	0.36	2ND TSP	+0.07
9	12	02/95	Bobbin	ODI	99	0.39	2ND TSP	+0.05
9	14	02/95	Bobbin	ODI	74	0.72	2ND TSP	+0.10
9	16	02/95	Bobbin	ODI	74	0.69	2ND TSP	+0.02
9	17	02/95	Bobbin	ODI	65	0.49	2ND TSP	+0.05
9	18	02/95	Bobbin	ODI	41	1.24	2ND TSP	+0.21
9	19	02/95	Bobbin	ODI	76	0.70	3RD TSP	+0.14
9	28	02/95	Bobbin	ODI	96	1.34	2ND TSP	-0.01
		02/95	H/L Speci	MAI		0.79	2ND TSP	-0.01
9	38	02/95	Bobbin	NQI		1.25	18TH TSP	+1.67
9	41	02/95	Bobbin	ODI	14	1.61	13TH TSP	+17.96
		02/95	C/L Speci	VOL		0.39	12TH TSP	-3.29
9	42	02/95	Bobbin	ODI	20	1.89	14TH TSP	+8.15
		02/95	C/L Speci	VOL		1.12	13TH TSP	-3.22
9	45	02/95	Bobbin	ODI	93	0.45	3RD TSP	-0.09
9	46	02/95	Bobbin	ODI	74	0.33	2ND TSP	+0.12
9	47	02/95	Bobbin	ODI	1	1.07	5TH TSP	+8.10
		02/95	H/L Speci	VOL		0.62	5TH TSP	+8.15
9	54	02/95	Bobbin	NQI		0.39	2ND TSP	+3.44
9	56	02/95	Bobbin	ODI	48	0.76	3RD TSP	-0.11
		02/95	Bobbin	ODI	88	0.52	2ND TSP	+0.04
9	58	02/95	Bobbin	ODI	29	2.84	1ST TSP	+20.18
		02/95	H/L Speci	SAI		3.17	2ND TSP	-1.14
9	62	02/95	Bobbin	NQI		0.45	6TH TSP	+16.48
		02/95	H/L Speci	VOL		0.51	6TH TSP	+16.14
9	63	02/95	Bobbin	ODI	5	0.55	4TH TSP	+0.09
9	66	02/95	Bobbin	ODI	20	0.47	5TH TSP	+0.05
		02/95	Bobbin	ODI	25	0.97	2ND TSP	-0.01
		02/95	Bobbin	ODI	67	0.44	4TH TSP	+0.03
		02/95	Bobbin	ODI	67	0.47	3RD TSP	+0.06
		02/95	H/L Speci	SAI		0.40	4TH TSP	-0.01
		02/95	H/L Speci	SAI		0.84	2ND TSP	+0.00
9	72	02/95	Bobbin	ODI	62	0.59	4TH TSP	+0.12
		02/95	Bobbin	ODI	66	0.44	2ND TSP	+0.00
		02/95	Bobbin	ODI	75	0.36	3RD TSP	+0.00
9	74	02/95	Bobbin	ODI	44	0.70	2ND TSP	+0.05
9	77	02/95	Bobbin	ODI	95	0.43	2ND TSP	+0.07
9	79	02/95	Bobbin	ODI	8	0.87	4TH TSP	+0.04
		02/95	Bobbin	ODI	17	0.85	5TH TSP	+0.02
		02/95	Bobbin	ODI	88	0.42	3RD TSP	+0.06
		02/95	Bobbin	ODI	96	1.90	2ND TSP	+0.09

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
31	40	02/95	Bobbin	ODI	82	0.39	4TH TSP	+0.00	
31	50	02/95	Bobbin	ODI	4	0.20	4TH TSP	-0.21	
		02/95	Bobbin	ODI	94	0.42	2ND TSP	-0.08	
31	51	02/95	Bobbin	ODI	17	0.40	6TH TSP	-0.16	
31	52	02/95	Bobbin	NQI		0.42	13TH TSP	+17.33	
		02/95	Bobbin	NQI		0.71	12TH TSP	+11.93	
		02/95	Bobbin	ODI	1	0.33	4TH TSP	-0.10	
		02/95	Bobbin	ODI	53	0.21	7TH TSP	+0.05	
		02/95	Bobbin	ODI	9	1.32	11TH TSP	+4.33	
		02/95	C/L Spec	VOL		0.20	16TH TSP	+4.99	
		02/95	C/L Spec	VOL		0.24	11TH TSP	+4.48	
		02/95	C/L Spec	VOL		0.44	12TH TSP	+11.61	
31	53	02/95	Bobbin	NQI		0.37	4TH TSP	+39.89	
		02/95	Bobbin	ODI	1	0.27	6TH TSP	-0.18	
		02/95	Bobbin	ODI	8	2.90	13TH TSP	+16.19	
		02/95	H/L Spec	VOL		0.13	5TH TSP	-4.53	
		02/95	C/L Spec	VOL		0.49	12TH TSP	-5.44	
31	54	02/95	Bobbin	ODI	86	0.36	2ND TSP	-0.13	
31	55	02/95	Bobbin	ODI	1	0.41	3RD TSP	-0.24	
		02/95	Bobbin	ODI	1	0.65	4TH TSP	+0.21	
31	56	02/95	Bobbin	ODI	1	1.18	3RD TSP	+0.00	
		02/95	Bobbin	ODI	25	0.60	2ND TSP	+0.16	
31	58	02/95	Bobbin	ODI	4	0.56	3RD TSP	-0.13	
31	60	02/95	Bobbin	ODI	1	0.26	6TH TSP	-0.16	
		02/95	Bobbin	ODI	4	1.05	2ND TSP	+10.80	
		02/95	H/L Spec	VOL		0.33	2ND TSP	+11.63	
31	61	02/95	Bobbin	ODI	10	0.22	7TH TSP	+0.05	
31	62	02/95	Bobbin	ODI	75	0.20	7TH TSP	+0.12	
31	66	02/95	Bobbin	ODI	1	0.36	2ND TSP	+0.05	
		02/95	Bobbin	ODI	16	0.19	3RD TSP	-0.26	
31	67	02/95	Bobbin	ODI	1	0.31	4TH TSP	-0.30	
31	73	02/95	Bobbin	ODI	14	0.28	3RD TSP	+0.10	
31	75	02/95	Bobbin	ODI	1	0.12	6TH TSP	-0.02	
31	76	02/95	Bobbin	ODI	38	0.17	2ND TSP	+0.04	
31	80	02/95	Bobbin	ODI	1	0.34	7TH TSP	-0.07	
31	82	02/95	Bobbin	ODI	10	0.18	6TH TSP	+0.05	
		02/95	Bobbin	ODI	39	0.20	3RD TSP	+0.12	
31	85	02/95	Bobbin	ODI	16	1.44	3RD TSP	+21.04	
31	89	02/95	Bobbin	ODI	2	0.37	4TH TSP	+0.10	
31	90	02/95	Bobbin	ODI	1	0.62	3RD TSP	+0.00	
31	98	02/95	Bobbin	ODI	9	1.14	7TH TSP	+6.70	
		02/95	Bobbin	ODI	10	1.95	13TH TSP	-1.30	
		02/95	H/L Spec	VOL		1.01	7TH TSP	+6.91	
		02/95	C/L Spec	VOL		0.46	13TH TSP	-1.63	
31	99	02/95	Bobbin	ODI	95	0.41	3RD TSP	-0.09	
31	101	02/95	Bobbin	ODI	14	0.39	4TH TSP	+0.20	
31	102	02/95	Bobbin	ODI	15	1.19	1ST TSP	+1.26	
		02/95	H/L Spec	VOL		0.34	1ST TSP	+1.65	
31	104	02/95	Bobbin	NQI		0.21	5TH TSP	+25.13	
		02/95	Bobbin	ODI	2	0.70	5TH TSP	+22.34	
		02/95	Bobbin	ODI	12	0.62	5TH TSP	+23.60	
		02/95	H/L Spec	VOL		0.40	5TH TSP	+24.13	
		02/95	H/L Spec	VOL		0.66	5TH TSP	+22.99	
32	12	02/95	Bobbin	ODI	26	0.25	4TH TSP	-0.03	
32	13	02/95	H/L Spec	VOL		1.01	8TH TSP	-15.94	
32	15	02/95	Bobbin	ODI	12	2.21	11TH TSP	+4.33	
		02/95	C/L Spec	VOL		1.02	11TH TSP	+4.27	
32	19	02/95	H/L Spec	VOL		0.37	4TH TSP	-5.18	
		02/95	H/L Spec	VOL		0.84	4TH TSP	+6.79	
		02/95	C/L Spec	VOL		0.19	11TH TSP	+7.32	
32	22	02/95	Bobbin	ODI	8	0.99	12TH TSP	+16.11	
		02/95	Bobbin	ODI	17	0.82	17TH TSP	+7.63	
		02/95	Bobbin	ODI	28	0.93	12TH TSP	+21.28	
		02/95	C/L Spec	VOL		0.16	12TH TSP	+10.41	
		02/95	C/L Spec	VOL		0.28	12TH TSP	+15.65	

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
		02/95	C/L Speci	VOL		0.29	12TH TSP	+20.71
		02/95	C/L Speci	VOL		0.33	16TH TSP	-3.48
32	24	02/95	Bobbin	ODI	68	0.32	7TH TSP	-0.29
32	25	02/95	Bobbin	ODI	81	0.21	4TH TSP	-0.23
32	28	02/95	Bobbin	ODI	6	1.50	5TH TSP	+2.78
		02/95	H/L Speci	VOL		0.77	5TH TSP	+3.51
32	29	02/95	Bobbin	NQI		0.48	7TH TSP	+6.73
		02/95	Bobbin	NQI		0.56	12TH TSP	+41.66
		02/95	H/L Speci	VOL		0.56	7TH TSP	+7.18
		02/95	C/L Speci	VOL		0.33	11TH TSP	-2.70
32	30	02/95	Bobbin	ODI	15	0.67	TTS-HL	+3.43
		02/95	H/L Speci	VOL		0.73	TTS-HL	+2.35
32	32	02/95	Bobbin	ODI	11	1.63	15TH TSP	+2.99
		02/95	C/L Speci	VOL		0.20	15TH TSP	+3.18
32	33	02/95	Bobbin	ODI	1	0.30	5TH TSP	-0.08
		02/95	Bobbin	ODI	19	0.87	10TH TSP	+40.07
		02/95	C/L Speci	VOL		0.19	9TH TSP	-3.48
		02/95	H/L Speci	VOL		1.04	2ND TSP	+5.10
32	37	02/95	Bobbin	NQI		0.84	20TH TSP	-0.96
		02/95	Bobbin	ODI	1	0.22	5TH TSP	+0.00
		02/95	C/L Speci	VOL		0.55	20TH TSP	-0.93
32	40	02/95	Bobbin	ODI	12	1.77	22ND TSP	+4.63
		02/95	C/L Speci	VOL		0.84	22ND TSP	+4.73
32	42	02/95	Bobbin	NQI		0.73	11TH TSP	+37.12
		02/95	Bobbin	ODI	1	0.70	4TH TSP	+0.03
		02/95	Bobbin	ODI	12	1.14	11TH TSP	+31.48
		02/95	Bobbin	ODI	20	1.46	18TH TSP	+2.26
		02/95	Bobbin	ODI	26	0.90	22ND TSP	+13.35
		02/95	C/L Speci	VOL		0.49	10TH TSP	-7.20
		02/95	C/L Speci	VOL		0.52	21ST TSP	-6.37
		02/95	C/L Speci	VOL		0.54	18TH TSP	+2.77
		02/95	C/L Speci	VOL		0.61	10TH TSP	-12.92
32	43	02/95	Bobbin	NQI		1.07	2AVB	-0.93
		02/95	U-Bend	VOL		0.77	2AVB	-1.88
		02/95	Bobbin	NQI		2.40	9TH TSP	+18.02
		02/95	U-Bend	VOL		0.56	9TH TSP	+18.87
		02/95	Bobbin	ODI	5	1.99	18TH TSP	+2.73
		02/95	C/L Speci	VOL		0.78	18TH TSP	+2.87
32	44	02/95	Bobbin	ODI	59	0.16	4TH TSP	+0.05
		02/95	Bobbin	ODI	76	1.77	2ND TSP	-0.08
		02/95	H/L Speci	SAI		1.06	2ND TSP	+0.03
32	48	02/95	Bobbin	ODI	1	0.33	6TH TSP	-0.31
		02/95	Bobbin	ODI	1	0.73	8TH TSP	-0.31
		02/95	Bobbin	ODI	24	0.56	22ND TSP	+1.95
		02/95	C/L Speci	VOL		0.66	22ND TSP	+1.82
32	49	02/95	Bobbin	ODI	13	0.43	5TH TSP	+0.00
		02/95	Bobbin	ODI	13	1.20	22ND TSP	+2.00
		02/95	C/L Speci	VOL		0.28	22ND TSP	+1.94
32	50	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.13
32	51	02/95	Bobbin	ODI	33	0.70	1ST TSP	-1.27
		02/95	H/L Speci	VOL		0.23	1ST TSP	-1.31
32	53	02/95	Bobbin	ODI	62	0.31	7TH TSP	-0.13
32	54	02/95	Bobbin	ODI	1	0.43	3RD TSP	+0.21
		02/95	Bobbin	ODI	23	0.28	6TH TSP	-0.18
32	56	02/95	Bobbin	ODI	1	0.53	3RD TSP	+0.03
		02/95	Bobbin	ODI	1	0.73	8TH TSP	-0.15
		02/95	Bobbin	ODI	36	0.52	7TH TSP	-0.05
		02/95	Bobbin	ODI	84	0.20	5TH TSP	-0.05
32	57	02/95	Bobbin	ODI	1	0.47	3RD TSP	-0.13
		02/95	Bobbin	ODI	6	0.81	2ND TSP	+0.18
		02/95	Bobbin	ODI	22	0.21	7TH TSP	-0.13
		02/95	Bobbin	ODI	78	0.29	6TH TSP	-0.26
32	65	02/95	H/L Speci	VOL		0.26	2ND TSP	+3.01
32	70	02/95	H/L Speci	VOL		0.22	6TH TSP	-0.19
32	86	02/95	Bobbin	NQI		0.44	17TH TSP	+0.29

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
32	97	02/95	Bobbin	ODI	7	1.25	3RD TSP	+3.79	
		02/95	H/L Speci	VOL		0.19	3RD TSP	+4.00	
33	13	02/95	Bobbin	NQI		0.27	1ST TSP	+0.52	
		02/95	H/L Speci	VOL		0.22	1ST TSP	+0.60	
33	15	02/95	Bobbin	ODI	7	1.04	12TH TSP	+4.45	
		02/95	Bobbin	ODI	11	0.97	19TH TSP	+4.90	
		02/95	Bobbin	ODI	15	1.36	12TH TSP	+2.50	
		02/95	C/L Speci	VOL		0.13	12TH TSP	+6.18	
		02/95	C/L Speci	VOL		0.14	12TH TSP	-5.52	
		02/95	C/L Speci	VOL		0.16	12TH TSP	-6.54	
		02/95	C/L Speci	VOL		0.17	12TH TSP	+10.32	
		02/95	C/L Speci	VOL		0.25	12TH TSP	+4.59	
		02/95	C/L Speci	VOL		0.27	12TH TSP	+2.68	
		02/95	C/L Speci	VOL		0.41	18TH TSP	-2.72	
		02/95	C/L Speci	VOL		0.42	15TH TSP	-4.56	
		02/95	C/L Speci	VOL		0.44	15TH TSP	-0.84	
33	18	02/95	Bobbin	ODI	28	1.76	4TH TSP	+23.11	
		02/95	H/L Speci	VOL		1.02	4TH TSP	+22.25	
33	20	02/95	Bobbin	ODI	1	0.57	3RD TSP	+0.03	
33	25	02/95	Bobbin	ODI	8	0.60	15TH TSP	+5.63	
		02/95	C/L Speci	VOL		0.15	14TH TSP	-1.45	
		02/95	C/L Speci	VOL		0.30	15TH TSP	+6.54	
33	27	02/95	Bobbin	ODI	33	0.51	3RD TSP	-0.32	
33	30	02/95	Bobbin	ODI	20	0.19	2ND TSP	-0.08	
33	32	02/95	Bobbin	WAR	27	0.79	4AVB	+0.00	
33	34	02/95	Bobbin	ODI	24	0.50	1ST TSP	+12.96	
33	39	02/95	H/L Speci	VOL		0.54	7TH TSP	+0.00	
33	46	02/95	Bobbin	ODI	63	0.34	3RD TSP	-0.32	
		02/95	Bobbin	ODI	76	0.27	4TH TSP	-0.32	
		02/95	Bobbin	ODI	94	0.19	8TH TSP	-0.05	
33	48	02/95	Bobbin	ODI	4	0.25	4TH TSP	+0.00	
33	50	02/95	Bobbin	ODI	10	0.41	4TH TSP	-0.05	
		02/95	Bobbin	ODI	13	0.30	5TH TSP	-0.29	
		02/95	Bobbin	ODI	48	0.61	3RD TSP	+0.00	
33	51	02/95	Bobbin	ODI	1	0.37	5TH TSP	-0.05	
		02/95	Bobbin	ODI	1	0.40	4TH TSP	+0.00	
		02/95	Bobbin	ODI	1	0.48	7TH TSP	-0.08	
33	52	02/95	Bobbin	ODI	18	0.86	4TH TSP	+25.83	
		02/95	Bobbin	ODI	60	0.21	4TH TSP	+0.00	
		02/95	H/L Speci	VOL		0.52	4TH TSP	+26.95	
33	53	02/95	Bobbin	ODI	4	0.28	5TH TSP	-0.05	
		02/95	Bobbin	ODI	51	0.24	4TH TSP	-0.23	
		02/95	Bobbin	ODI	53	0.28	3RD TSP	+0.00	
		02/95	Bobbin	ODI	8	4.15	18TH TSP	+12.89	
		02/95	Bobbin	ODI	14	2.63	17TH TSP	+7.39	
		02/95	C/L Speci	VOL		0.35	12TH TSP	-7.97	
		02/95	C/L Speci	VOL		0.44	16TH TSP	-3.12	
		02/95	C/L Speci	VOL		0.83	17TH TSP	-9.34	
33	54	02/95	Bobbin	ODI	1	0.21	3RD TSP	+0.03	
		02/95	Bobbin	ODI	15	0.25	8TH TSP	+0.08	
33	56	02/95	Bobbin	ODI	91	0.66	7TH TSP	-0.08	
33	57	02/95	U-Bend	VOL		0.80	4AVB	+1.91	
		02/95	Bobbin	ODI	17	0.47	3RD TSP	+0.03	
33	63	02/95	H/L Speci	VOL		0.41	5TH TSP	+11.44	
33	65	02/95	C/L Speci	VOL		0.73	12TH TSP	-3.15	
33	72	02/95	Bobbin	ODI	9	0.57	4TH TSP	-0.14	
		02/95	H/L Speci	VOL		0.26	5TH TSP	-5.22	
33	73	02/95	Bobbin	ODI	31	0.54	3RD TSP	+0.59	
		02/95	Bobbin	ODI	75	0.23	2ND TSP	+0.14	
33	78	02/95	Bobbin	ODI	15	1.96	6TH TSP	+34.13	
		02/95	Bobbin	ODI	29	1.15	4TH TSP	+15.17	
		02/95	H/L Speci	VOL		0.12	4TH TSP	+10.05	
		02/95	H/L Speci	VOL		0.17	4TH TSP	+13.82	
		02/95	H/L Speci	VOL		0.22	4TH TSP	+18.16	
		02/95	H/L Speci	VOL		0.23	4TH TSP	+8.99	

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.27	4TH TSP	-15.98
		02/95	H/L Speci	VOL		0.46	4TH TSP	+15.98
		02/95	H/L Speci	VOL		0.65	7TH TSP	-10.24
		02/95	H/L Speci	VOL		0.81	4TH TSP	+6.15
33	101	02/95	U-Bend	VOL		1.28	9TH TSP	+26.23
		02/95	Bobbin	ODI	10	2.81	3RD TSP	+18.76
		02/95	H/L Speci	VOL		0.85	3RD TSP	+19.67
34	14	02/95	Bobbin	ODI	47	1.03	2ND TSP	-0.07
		02/95	Bobbin	ODI	97	0.25	5TH TSP	-0.02
		02/95	H/L Speci	VOL		0.14	2ND TSP	+0.00
34	13	02/95	Bobbin	ODI	11	0.81	17TH TSP	+3.64
		02/95	C/L Speci	VOL		0.56	17TH TSP	+4.20
34	24	02/95	Bobbin	ODI	7	1.19	12TH TSP	+5.25
		02/95	Bobbin	ODI	22	1.10	10TH TSP	+16.11
		02/95	C/L Speci	VOL		0.34	12TH TSP	+5.55
		02/95	C/L Speci	VOL		0.44	10TH TSP	+16.34
34	29	02/95	Bobbin	ODI	54	0.32	2ND TSP	-0.39
34	32	02/95	H/L Speci	VOL		0.19	2ND TSP	-3.00
34	35	02/95	Bobbin	ODI	1	0.62	3RD TSP	-0.21
34	37	02/95	Bobbin	ODI	97	0.48	3RD TSP	-0.28
34	38	02/95	Bobbin	ODI	72	0.17	8TH TSP	+0.00
34	42	02/95	Bobbin	ODI	1	0.88	3RD TSP	-0.17
		02/95	Bobbin	ODI	10	0.18	5TH TSP	-0.16
		02/95	Bobbin	ODI	99	0.50	2ND TSP	+0.05
34	44	02/95	Bobbin	ODI	1	0.43	4TH TSP	-0.18
34	45	02/95	Bobbin	ODI	8	0.28	4TH TSP	+0.00
34	51	02/95	Bobbin	ODI	18	0.63	3RD TSP	+30.15
34	52	02/95	Bobbin	ODI	98	0.25	7TH TSP	-0.05
34	56	02/95	Bobbin	ODI	17	0.41	3RD TSP	+6.27
		02/95	H/L Speci	VOL		0.22	3RD TSP	+6.94
34	57	02/95	Bobbin	ODI	98	0.21	7TH TSP	-0.03
34	63	02/95	H/L Speci	VOL		0.68	6TH TSP	+7.01
34	65	02/95	H/L Speci	VOL		0.13	5TH TSP	+12.68
34	68	02/95	Bobbin	ODI	11	1.70	13TH TSP	+18.95
		02/95	C/L Speci	VOL		0.17	13TH TSP	+18.72
34	76	02/95	H/L Speci	VOL		1.90	6TH TSP	+18.96
34	77	02/95	Bobbin	NQI		0.84	3RD TSP	+0.07
34	87	02/95	Bobbin	ODI	7	1.27	17TH TSP	+7.72
		02/95	C/L Speci	VOL		0.26	16TH TSP	-3.28
34	90	02/95	Bobbin	ODI	64	0.39	2ND TSP	-0.02
		02/95	H/L Speci	VOL		1.34	6TH TSP	-11.68
35	16	02/95	Bobbin	ODI	13	3.07	20TH TSP	+6.11
		02/95	C/L Speci	VOL		0.77	20TH TSP	+6.78
35	18	02/95	Bobbin	ODI	13	1.25	5TH TSP	+36.51
		02/95	H/L Speci	VOL		0.42	6TH TSP	-7.55
35	23	02/95	C/L Speci	VOL		0.16	12TH TSP	+22.53
		02/95	C/L Speci	VOL		0.29	12TH TSP	+18.34
35	31	02/95	Bobbin	ODI	14	0.34	4TH TSP	+0.08
35	33	02/95	Bobbin	ODI	22	0.42	13TH TSP	+9.56
35	35	02/95	Bobbin	ODI	1	0.73	3RD TSP	-0.18
		02/95	Bobbin	ODI	49	0.55	4TH TSP	-0.26
35	36	02/95	Bobbin	ODI	24	1.85	11TH TSP	+9.03
		02/95	C/L Speci	VOL		0.60	11TH TSP	+9.34
35	38	02/95	Bobbin	ODI	52	0.29	8TH TSP	-0.18
35	39	02/95	H/L Speci	VOL		0.35	8TH TSP	-7.60
35	40	02/95	Bobbin	ODI	1	0.85	4TH TSP	+0.02
		02/95	Bobbin	ODI	1	1.26	2ND TSP	+0.00
35	42	02/95	Bobbin	ODI	38	0.31	2ND TSP	+0.00
		02/95	Bobbin	ODI	60	0.28	3RD TSP	-0.10
35	47	02/95	Bobbin	ODI	18	0.58	3RD TSP	-0.12
		02/95	Bobbin	ODI	80	0.60	2ND TSP	-0.09
35	48	02/95	Bobbin	NQI		5.68	TE-HL	+7.24
		02/95	Bobbin	ODI	35	0.33	3RD TSP	-0.08
		02/95	C/L Speci	VOL		0.62	11TH TSP	-10.61
35	50	02/95	Bobbin	ODI	56	0.22	8TH TSP	-0.08

BWNT TUBAN II (Version 2.1) 05/01/1995 07:46:50

Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

35	55	02/95	Bobbin	ODI	56	0.20	8TH TSP	-0.10
35	56	02/95	H/L Speci	VOL		0.32	4TH TSP	-9.09
		02/95	H/L Speci	VOL		0.37	4TH TSP	-11.90
35	60	02/95	Bobbin	CDI	29	0.21	2ND TSP	+0.09
35	64	02/95	Bobbin	ODI	13	0.90	5TH TSP	+30.27
		02/95	H/L Speci	VOL		0.48	6TH TSP	-14.18
35	77	02/95	Bobbin	ODI	86	0.31	4TH TSP	-0.14
35	78	02/95	Bobbin	ODI	16	0.97	12TH TSP	+9.20
		02/95	C/L Speci	VOL		0.26	12TH TSP	+8.13
35	85	02/95	Bobbin	ODI	12	0.33	4TH TSP	+0.17
		02/95	Bobbin	ODI	57	0.47	2ND TSP	+0.12
35	88	02/95	Bobbin	ODI	18	0.38	3RD TSP	+0.05
35	95	02/95	Bobbin	ODI	3	1.44	10TH TSP	+24.04
		02/95	C/L Speci	VOL		1.61	9TH TSP	-20.13
36	17	02/95	Bobbin	WAR	23	0.60	3AVB	-0.02
		02/95	Bobbin	ODI	17	0.40	4TH TSP	+0.07
		02/95	Bobbin	ODI	36	0.31	6TH TSP	+0.07
36	19	02/95	Bobbin	ODI	92	0.22	4TH TSP	+0.08
		02/95	Bobbin	ODI	92	0.24	6TH TSP	+0.00
36	23	02/95	Bobbin	ODI	25	1.06	21ST TSP	+1.83
		02/95	C/L Speci	VOL		1.00	21ST TSP	+1.82
36	36	02/95	Bobbin	ODI	17	0.28	5TH TSP	+0.05
36	40	02/95	Bobbin	ODI	48	1.11	3RD TSP	+0.00
36	41	02/95	Bobbin	ODI	12	1.14	7TH TSP	+37.46
		02/95	H/L Speci	VOL		0.53	8TH TSP	-6.69
36	48	02/95	Bobbin	ODI	1	0.19	4TH TSP	+0.03
		02/95	Bobbin	ODI	80	0.24	7TH TSP	-0.03
		02/95	H/L Speci	VOL		0.53	6TH TSP	+19.50
36	49	02/95	C/L Speci	VOL		0.63	9TH TSP	-4.70
36	57	02/95	Bobbin	ODI	97	0.22	5TH TSP	+0.00
36	59	02/95	Bobbin	ODI	41	0.25	3TH TSP	+0.02
36	60	02/95	Bobbin	ODI	5	1.18	7TH TSP	+5.78
		02/95	H/L Speci	VOL		0.94	7TH TSP	+5.78
36	65	02/95	Bobbin	NQI		0.68	11TH TSP	+35.69
		02/95	C/L Speci	VOL		0.76	10TH TSP	-8.51
36	68	02/95	Bobbin	ODI	88	0.18	2ND TSP	+0.07
36	92	02/95	Bobbin	ODI	33	0.58	2ND TSP	+0.22
		02/95	Bobbin	ODI	56	0.47	5TH TSP	-0.02
		02/95	Bobbin	ODI	58	0.38	4TH TSP	+0.00
36	95	02/95	Bobbin	ODI	30	0.24	6TH TSP	+0.00
		02/95	Bobbin	ODI	80	1.13	5TH TSP	+0.00
		02/95	Bobbin	ODI	83	0.25	2ND TSP	+0.09
		02/95	H/L Speci	VOL		0.57	5TH TSP	-0.10
37	19	02/95	Bobbin	NQI		2.25	4AVB	+16.70
		02/95	U-Bend	VOL		2.47	4AVB	+16.51
37	20	02/95	Bobbin	NQI		2.04	7TH TSP	+22.24
37	23	02/95	Bobbin	ODI	48	0.32	3RD TSP	-0.05
37	32	02/95	Bobbin	ODI	46	0.14	5TH TSP	+0.00
37	37	02/95	Bobbin	ODI	75	0.13	2ND TSP	-0.10
37	49	02/95	Bobbin	ODI	27	0.52	5TH TSP	+0.10
37	51	02/95	Bobbin	ODI	7	0.29	5TH TSP	+0.03
37	52	02/95	Bobbin	ODI	90	0.21	5TH TSP	+0.03
37	62	02/95	Bobbin	ODI	3	0.49	3RD TSP	+17.15
		02/95	H/L Speci	VOL		0.38	3RD TSP	+17.15
37	71	02/95	C/L Speci	VOL		0.20	13TH TSP	-4.68
37	72	02/95	H/L Speci	VOL		0.71	5TH TSP	-13.97
		02/95	H/L Speci	VOL		0.75	5TH TSP	-11.89
37	83	02/95	U-Bend	VOL		1.86	4AVB	+18.19
		02/95	Bobbin	ODI	17	1.73	11TH TSP	+7.30
		02/95	C/L Speci	VOL		0.82	11TH TSP	+7.16
37	98	02/95	Bobbin	ODI	5	0.52	4TH TSP	+0.14
38	19	02/95	Bobbin	WAR	11	0.48	3AVB	+0.00
38	20	02/95	Bobbin	ODI	95	0.48	2ND TSP	-0.09
38	28	02/95	Bobbin	ODI	1	0.58	3RD TSP	+0.07
		02/95	Bobbin	ODI	19	0.81	2ND TSP	-0.07

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
38	31	02/95	Bobbin	ODI	18	0.32	4TH TSP	-0.02	
38	41	02/95	Bobbin	ODI	15	0.52	3RD TSP	-0.22	
		02/95	Bobbin	ODI	25	0.72	2ND TSP	-0.05	
38	43	02/95	Bobbin	ODI	14	1.40	5TH TSP	+9.71	
		02/95	Bobbin	ODI	16	1.18	6TH TSP	+8.15	
		02/95	H/L Spec	VOL		0.23	5TH TSP	+8.94	
		02/95	H/L Spec	VOL		0.79	6TH TSP	+7.73	
38	50	02/95	Bobbin	ODI	16	0.63	21ST TSP	+3.61	
		02/95	H/L Spec	VOL		0.32	4TH TSP	-9.20	
		02/95	C/L Spec	VOL		0.15	21ST TSP	+3.98	
38	61	02/95	Bobbin	ODI	5	0.99	11TH TSP	+10.19	
		02/95	C/L Spec	VOL		0.41	11TH TSP	+9.52	
38	64	02/95	Bobbin	ODI	70	0.20	7TH TSP	+0.02	
38	65	02/95	Bobbin	ODI	10	0.33	7TH TSP	-0.07	
38	67	02/95	Bobbin	NQI		0.46	12TH TSP	+12.91	
		02/95	C/L Spec	VOL		0.58	12TH TSP	+12.82	
38	69	02/95	Bobbin	ODI	8	0.78	7TH TSP	+27.24	
		02/95	H/L Spec	VOL		0.68	8TH TSP	-16.31	
38	76	02/95	Bobbin	NQI		0.34	4TH TSP	+24.14	
		02/95	H/L Spec	VOL		0.63	4TH TSP	+24.14	
38	78	02/95	Bobbin	NQI		0.28	6TH TSP	+32.22	
		02/95	H/L Spec	VOL		0.47	7TH TSP	-8.51	
		02/95	H/L Spec	VOL		0.59	7TH TSP	-11.56	
		02/95	H/L Spec	VOL		0.67	7TH TSP	-9.83	
38	80	02/95	Bobbin	ODI	23	0.39	3RD TSP	+0.02	
38	82	02/95	Bobbin	ODI	72	0.29	3RD TSP	+0.02	
38	84	02/95	Bobbin	ODI	13	0.38	5TH TSP	+37.11	
		02/95	H/L Spec	VOL		0.40	6TH TSP	-6.96	
38	96	02/95	Bobbin	ODI	16	0.72	3RD TSP	+24.78	
		02/95	H/L Spec	VOL		0.37	4TH TSP	-16.47	
		02/95	H/L Spec	VOL		0.52	4TH TSP	-18.48	
39	21	02/95	Bobbin	NQI		2.69	TE-HL	+4.72	
39	41	02/95	Bobbin	ODI	14	1.11	14TH TSP	+2.89	
		02/95	C/L Spec	VOL		0.18	14TH TSP	+3.27	
39	42	02/95	H/L Spec	SAI		0.14	2ND TSP	+0.00	
39	44	02/95	Bobbin	ODI	16	1.43	4TH TSP	+6.76	
		02/95	H/L Spec	VOL		0.87	2ND TSP	-3.36	
		02/95	C/L Spec	VOL		0.23	11TH TSP	-5.73	
39	51	02/95	Bobbin	ODI	35	0.62	6TH TSP	+16.21	
		02/95	H/L Spec	VOL		0.37	6TH TSP	+9.39	
		02/95	H/L Spec	VOL		0.43	6TH TSP	+14.95	
		02/95	C/L Spec	VOL		0.51	13TH TSP	+11.59	
39	53	02/95	H/L Spec	VOL		0.36	1ST TSP	+3.21	
		02/95	C/L Spec	VOL		0.36	18TH TSP	+12.23	
39	55	02/95	Bobbin	ODI	13	1.29	6TH TSP	+20.89	
		02/95	Bobbin	ODI	16	0.36	6TH TSP	+25.28	
		02/95	H/L Spec	VOL		0.30	6TH TSP	+23.59	
		02/95	H/L Spec	VOL		0.44	6TH TSP	+19.46	
		02/95	H/L Spec	VOL		0.54	5TH TSP	+4.76	
39	60	02/95	U-Bend	VOL		1.30	8TH TSP	+1.42	
		02/95	Bobbin	ODI	8	0.80	8TH TSP	+1.51	
39	61	02/95	Bobbin	NQI		2.18	TE-CL	+17.15	
		02/95	Bobbin	NQI		8.02	TE-CL	+19.06	
39	62	02/95	H/L Spec	VOL		0.57	4TH TSP	+4.21	to *
39	64	02/95	Bobbin	ODI	1	0.29	6TH TSP	+0.02	
39	65	02/95	Bobbin	WAR	9	0.37	1AVB	+0.00	
39	68	02/95	Bobbin	NQI		2.89	TE-HL	+15.28	
39	69	02/95	Bobbin	ODI	1	0.82	14TH TSP	+2.38	
		02/95	Bobbin	ODI	8	1.33	17TH TSP	+7.76	
		02/95	C/L Spec	VOL		0.60	14TH TSP	+2.38	
		02/95	C/L Spec	VOL		0.92	16TH TSP	-3.14	
39	72	02/95	Bobbin	ODI	10	0.65	4TH TSP	+27.39	
		02/95	Bobbin	ODI	24	0.52	3RD TSP	+41.57	
		02/95	H/L Spec	VOL		0.24	4TH TSP	-2.10	
		02/95	H/L Spec	VOL		1.72	4TH TSP	+27.39	

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

39	73	02/95	Bobbin	WAR	7	0.30	2AVB	+0.00
39	75	02/95	Bobbin	ODI	26	0.22	4TH TSP	+0.16
39	76	02/95	Bobbin	ODI	20	0.18	8TH TSP	-0.05
39	78	02/95	Bobbin	NQI		0.50	6TH TSP	+6.16
		02/95	Bobbin	ODI	1	0.97	6TH TSP	+25.49
		02/95	H/L Speci	VOL		1.71	6TH TSP	+25.49
39	87	02/95	Bobbin	ODI	9	0.59	3RD TSP	+19.33
		02/95	H/L Speci	VOL		0.40	3RD TSP	+19.33
39	89	02/95	Bobbin	ODI	83	0.90	2ND TSP	+0.07
		02/95	H/L Speci	SAI		0.91	2ND TSP	+0.06
39	93	02/95	Bobbin	ODI	10	1.98	3RD TSP	+3.72
		02/95	H/L Speci	VOL		0.74	3RD TSP	+4.14
39	97	02/95	Bobbin	ODI	97	0.49	5TH TSP	+0.23
40	20	02/95	U-Bend	VOL		0.75	3AVB	+0.00
		02/95	Bobbin	ODI	25	0.74	3AVB	-0.07
40	32	02/95	Bobbin	ODI	17	2.00	18TH TSP	+13.07
		02/95	C/L Speci	VOL		0.22	18TH TSP	+15.17
		02/95	C/L Speci	VOL		0.31	15TH TSP	+7.74
		02/95	C/L Speci	VOL		0.51	18TH TSP	+8.27
		02/95	C/L Speci	VOL		0.54	18TH TSP	+13.03
40	35	02/95	H/L Tubes	SAI		1.32	TTS-HL	-0.92
40	42	02/95	Bobbin	ODI	39	0.21	16TH TSP	+0.00
40	44	02/95	H/L Speci	VOL		1.35	7TH TSP	-0.06
40	51	02/95	Bobbin	ODI	25	0.20	5TH TSP	+0.02
		02/95	Bobbin	ODI	41	0.29	2ND TSP	-0.33
40	67	02/95	Bobbin	NQI		0.36	22ND TSP	+7.06
		02/95	C/L Speci	VOL		0.39	22ND TSP	+7.38
40	73	02/95	Bobbin	ODI	1	0.55	3RD TSP	-0.05
		02/95	Bobbin	ODI	17	0.36	4TH TSP	-0.23
40	81	02/95	Bobbin	ODI	99	0.30	2ND TSP	+0.07
40	83	02/95	Bobbin	ODI	17	0.93	4TH TSP	+33.02
		02/95	H/L Speci	VOL		0.77	5TH TSP	-10.73
40	84	02/95	Bobbin	ODI	1	0.70	3RD TSP	+28.13
		02/95	H/L Speci	VOL		0.31	2ND TSP	+18.36
		02/95	H/L Speci	VOL		0.50	2ND TSP	+13.93
		02/95	H/L Speci	VOL		0.57	2ND TSP	+6.94
		02/95	H/L Speci	VOL		0.59	2ND TSP	+8.00
		02/95	H/L Speci	VOL		0.66	2ND TSP	+10.02
		02/95	H/L Speci	VOL		0.95	4TH TSP	-15.50
		02/95	H/L Speci	VOL		1.12	4TH TSP	-9.41
40	87	02/95	Bobbin	ODI	6	1.51	6TH TSP	+35.79
		02/95	Bobbin	ODI	7	0.73	6TH TSP	+32.22
		02/95	Bobbin	ODI	10	0.57	6TH TSP	+26.56
		02/95	Bobbin	ODI	10	1.37	6TH TSP	+27.65
		02/95	H/L Speci	VOL		0.48	7TH TSP	-17.14
		02/95	H/L Speci	VOL		1.13	7TH TSP	-11.66
		02/95	H/L Speci	VOL		1.61	7TH TSP	-8.20
		02/95	H/L Speci	VOL		1.62	7TH TSP	-16.05
40	88	02/95	Bobbin	NQI		2.29	4AVB	+19.43
		02/95	U-Bend	VOL		2.85	4AVB	+19.20
40	91	02/95	Bobbin	ODI	2	0.66	11TH TSP	+3.09
		02/95	C/L Speci	VOL		0.25	11TH TSP	+3.08
40	95	02/95	Bobbin	ODI	43	0.48	4TH TSP	+0.12
		02/95	Bobbin	ODI	16	0.96	21ST TSP	+5.57
		02/95	C/L Speci	VOL		0.32	20TH TSP	-2.53
41	24	02/95	Bobbin	ODI	10	0.47	2ND TSP	+0.05
41	26	02/95	Bobbin	NQI		0.33	12TH TSP	+14.14
		02/95	C/L Speci	VOL		0.34	12TH TSP	+13.64
41	35	02/95	Bobbin	ODI	13	3.23	12TH TSP	+34.61
		02/95	C/L Speci	VOL		0.98	12TH TSP	+34.68
41	39	02/95	Bobbin	ODI	86	0.46	4TH TSP	-0.29
41	40	02/95	Bobbin	ODI	55	0.47	4TH TSP	-0.29
		02/95	Bobbin	ODI	79	0.46	3RD TSP	-0.12
41	45	02/95	Bobbin	ODI	86	0.47	2ND TSP	+0.00
41	52	02/95	Bobbin	ODI	31	0.42	2ND TSP	-0.29

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

41	54	02/95	Bobbin	ODI	20	1.62	22ND TSP	+11.13
		02/95	H/L Spec	VOL		0.81	4TH TSP	+16.60
		02/95	C/L Spec	VOL		0.71	21ST TSP	-8.39
41	56	02/95	Bobbin	ODI	4	1.17	3RD TSP	+37.09
		02/95	H/L Spec	VOL		1.94	4TH TSP	-7.05
41	57	02/95	C/L Spec	VOL		0.70	9TH TSP	-7.24
41	59	02/95	Bobbin	ODI	11	2.86	5TH TSP	+36.98
		02/95	H/L Spec	VOL		1.52	6TH TSP	-7.24
41	64	02/95	H/L Spec	VOL		0.51	5TH TSP	-9.11
41	72	02/95	Bobbin	ODI	11	0.29	5TH TSP	+0.07
41	74	02/95	Bobbin	NQI		4.36	TE-CL	+9.93
		02/95	Bobbin	NQI		6.88	TE-CL	+18.86
41	78	02/95	Bobbin	ODI	10	1.80	4TH TSP	+18.51
		02/95	H/L Spec	VOL		1.76	4TH TSP	+18.51
41	79	02/95	Bobbin	NQI		0.25	3RD TSP	+25.63
		02/95	H/L Spec	VOL		0.30	3RD TSP	+25.63
41	83	02/95	Bobbin	NQI		6.28	TE-CL	+14.03
41	91	02/95	Bobbin	ODI	5	1.03	5TH TSP	+4.90
		02/95	Bobbin	ODI	13	1.37	5TH TSP	+19.82
		02/95	H/L Spec	VOL		0.34	5TH TSP	+4.90
		02/95	H/L Spec	VOL		0.37	6TH TSP	+15.77
		02/95	H/L Spec	VOL		0.55	5TH TSP	+19.82
		02/95	H/L Spec	VOL		0.81	6TH TSP	+28.39
41	93	02/95	Bobbin	ODI	9	0.29	6TH TSP	+0.14
		02/95	Bobbin	ODI	26	0.34	4TH TSP	+0.21
41	94	02/95	Bobbin	ODI	73	0.21	4TH TSP	+0.14
41	95	02/95	Bobbin	ODI	17	0.89	3RD TSP	+9.15
		02/95	H/L Spec	VOL		0.29	3RD TSP	+8.13
		02/95	H/L Spec	VOL		0.36	3RD TSP	+9.15
42	22	02/95	Bobbin	ODI	3	0.71	12TH TSP	+9.64
		02/95	Bobbin	ODI	26	0.70	12TH TSP	+14.91
		02/95	C/L Spec	VOL		0.23	12TH TSP	+14.60
42	33	02/95	H/L Spec	VOL		0.74	8TH TSP	-8.89
42	40	02/95	Bobbin	ODI	3	0.28	4TH TSP	+0.00
42	45	02/95	Bobbin	NQI		2.10	12TH TSP	+9.57
42	46	02/95	Bobbin	ODI	99	0.49	7TH TSP	-0.02
42	47	02/95	Bobbin	ODI	5	0.27	15TH TSP	-0.02
		02/95	Bobbin	ODI	23	1.60	12TH TSP	+24.49
42	50	02/95	Bobbin	NQI		0.67	4TH TSP	+33.25
		02/95	Bobbin	ODI	18	0.32	17TH TSP	+0.16
		02/95	H/L Spec	VOL		1.07	5TH TSP	-12.08
42	59	02/95	Bobbin	ODI	83	0.37	2ND TSP	+0.07
42	69	02/95	H/L Spec	VOL		0.98	8TH TSP	+0.00
42	71	02/95	Bobbin	NQI		0.32	5TH TSP	+5.79
		02/95	Bobbin	NQI		0.49	4TH TSP	+36.60
		02/95	H/L Spec	VOL		0.59	5TH TSP	+5.79
		02/95	H/L Spec	VOL		0.91	5TH TSP	-6.49
42	73	02/95	Bobbin	ODI	19	0.47	22ND TSP	+14.58
		02/95	C/L Spec	VOL		0.33	21ST TSP	-6.00
42	74	02/95	Bobbin	ODI	43	0.27	4TH TSP	+0.09
42	76	02/95	Bobbin	ODI	11	3.77	10TH TSP	+41.55
		02/95	C/L Spec	VOL		0.82	9TH TSP	-3.36
		02/95	H/L Spec	VOL		0.58	7TH TSP	+4.65
42	79	02/95	Bobbin	ODI	97	0.42	4TH TSP	-0.22
42	84	02/95	Bobbin	NQI		3.51	TE-CL	+8.37
		02/95	Bobbin	ODI	90	0.22	5TH TSP	+0.11
42	89	02/95	Bobbin	ODI	47	0.38	5TH TSP	-0.03
43	24	02/95	Bobbin	ODI	89	0.36	3RD TSP	-0.05
43	26	02/95	Bobbin	ODI	21	0.75	2ND TSP	+0.00
43	30	02/95	C/L Spec	VOL		0.44	10TH TSP	+16.54
43	31	02/95	Bobbin	NQI		0.37	22ND TSP	+2.76
43	34	02/95	Bobbin	WAR	18	0.36	2AVB	+0.00
		02/95	Bobbin	WAR	25	0.65	3AVB	+0.00
43	40	02/95	Bobbin	ODI	27	0.22	3RD TSP	-0.03
43	44	02/95	Bobbin	ODI	52	0.28	4TH TSP	-0.05

BWNT TUBAN II (Version 2.1) 05/01/1995 07:46:50

Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

43	58	02/95	Bobbin	ODI	34	0.50	2ND TSP	-0.30
43	60	02/95	Bobbin	ODI	4	0.28	6TH TSP	+33.19
		02/95	Bobbin	ODI	6	0.43	6TH TSP	+3.53
		02/95	Bobbin	ODI	23	0.71	5TH TSP	+39.75
		02/95	Bobbin	ODI	30	0.63	5TH TSP	+34.36
		02/95	Bobbin	ODI	37	0.68	5TH TSP	-0.10
		02/95	H/L Spec	VOL		0.36	6TH TSP	+3.53
		02/95	H/L Spec	VOL		0.40	5TH TSP	+34.36
		02/95	H/L Spec	VOL		0.57	7TH TSP	-11.42
		02/95	H/L Spec	VOL		0.58	5TH TSP	+39.75
		02/95	H/L Spec	VOL		0.59	7TH TSP	-4.48
		02/95	H/L Spec	VOL		0.70	6TH TSP	+4.64
		02/95	C/L Spec	VOL		0.65	11TH TSP	+11.23
43	61	02/95	Bobbin	NQI		1.70	TE-HL	+13.14
43	62	02/95	Bobbin	NQI		0.27	4TH TSP	+18.13
		02/95	H/L Spec	VOL		1.15	4TH TSP	+18.13
43	63	02/95	Bobbin	ODI	21	0.50	7TH TSP	+13.24
		02/95	H/L Spec	VOL		0.51	7TH TSP	+13.24
		02/95	H/L Spec	VOL		0.56	7TH TSP	+9.48
43	64	02/95	Bobbin	ODI	41	0.43	7TH TSP	-0.18
43	71	02/95	Bobbin	NQI		1.10	11TH TSP	+42.36
		02/95	C/L Spec	VOL		0.74	10TH TSP	-1.87
		02/95	C/L Spec	VOL		0.86	10TH TSP	-0.08
43	75	02/95	Bobbin	ODI	32	0.48	4TH TSP	-0.10
43	76	02/95	Bobbin	ODI	1	0.40	2ND TSP	+0.18
		02/95	Bobbin	ODI	63	0.37	3RD TSP	+0.03
43	77	02/95	Bobbin	ODI	65	0.34	5TH TSP	+0.08
		02/95	Bobbin	ODI	94	0.36	6TH TSP	-0.15
43	78	02/95	Bobbin	ODI	13	0.27	3RD TSP	-0.13
		02/95	Bobbin	ODI	23	0.34	4TH TSP	+0.20
		02/95	Bobbin	ODI	61	0.62	5TH TSP	-0.03
43	79	02/95	Bobbin	ODI	93	0.31	4TH TSP	+0.10
43	80	02/95	Bobbin	ODI	81	0.51	3RD TSP	+0.00
43	82	02/95	Bobbin	ODI	15	0.36	5TH TSP	-0.34
43	85	02/95	Bobbin	ODI	63	0.45	4TH TSP	+0.15
		02/95	Bobbin	ODI	94	0.62	3RD TSP	+0.10
		02/95	Bobbin	ODI	95	0.79	2ND TSP	+0.21
43	87	02/95	Bobbin	NQI		4.20	TE-CL	+19.31
43	90	02/95	Bobbin	ODI	5	0.56	3RD TSP	+0.08
43	91	02/95	Bobbin	NQI		0.71	7TH TSP	+6.65
		02/95	H/L Spec	VOL		0.78	7TH TSP	+6.65
44	23	02/95	Bobbin	ODI	17	0.42	3RD TSP	-0.02
		02/95	H/L Spec	VOL		1.42	8TH TSP	+0.49
44	24	02/95	U-Bend	VOL		0.74	8TH TSP	+26.31
44	31	02/95	Bobbin	ODI	77	0.31	5TH TSP	-0.28
44	33	02/95	Bobbin	ODI	56	0.29	3RD TSP	+0.05
		02/95	Bobbin	ODI	93	0.33	5TH TSP	-0.38
44	39	02/95	Bobbin	ODI	20	0.38	4TH TSP	-0.27
		02/95	Bobbin	ODI	29	0.61	6TH TSP	-0.10
		02/95	Bobbin	ODI	81	0.26	3RD TSP	-0.02
44	43	02/95	Bobbin	ODI	53	0.40	5TH TSP	+0.00
44	44	02/95	Bobbin	ODI	19	1.04	3RD TSP	-0.07
44	48	02/95	Bobbin	ODI	8	0.46	4TH TSP	-0.05
44	52	02/95	Bobbin	WAR	4	0.64	18TH TSP	+0.00
44	57	02/95	C/L Spec	VOL		0.66	15TH TSP	+15.14
44	58	02/95	Bobbin	ODI	46	0.39	5TH TSP	-0.52
		02/95	Bobbin	ODI	62	0.48	2ND TSP	-0.11
		02/95	Bobbin	ODI	73	0.54	8TH TSP	+0.19
44	59	02/95	Bobbin	ODI	77	0.29	5TH TSP	-0.27
44	60	02/95	Bobbin	ODI	11	1.75	4TH TSP	+26.14
		02/95	H/L Spec	VOL		0.59	4TH TSP	+26.14
		02/95	H/L Spec	VOL		0.62	4TH TSP	+25.68
44	61	02/95	Bobbin	NQI		14.34	TE-CL	+18.17
		02/95	Bobbin	ODI	91	0.35	2ND TSP	+0.03
44	62	02/95	Bobbin	NQI		3.25	TE-CL	+18.08

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	WAR	25	1.46	1AVB	+0.00
44	65	02/95	Bobbin	ODI	57	0.24	5TH TSP	-0.23
		02/95	Bobbin	ODI	63	0.37	6TH TSP	+0.03
44	67	02/95	Bobbin	ODI	69	0.21	3RD TSP	+0.10
		02/95	Bobbin	ODI	88	0.27	2ND TSP	-0.24
44	68	02/95	Bobbin	ODI	43	0.50	3RD TSP	-0.07
44	69	02/95	Bobbin	NQI		0.97	3RD TSP	+30.05
		02/95	Bobbin	ODI	53	0.27	4TH TSP	+0.12
44	70	02/95	Bobbin	ODI	11	0.73	12TH TSP	+19.58
		02/95	C/L Speci	VOL		0.40	12TH TSP	+19.55
44	71	02/95	Bobbin	ODI	5	0.51	3RD TSP	+14.63
		02/95	H/L Speci	VOL		1.22	3RD TSP	+14.63
44	74	02/95	Bobbin	NQI		0.32	2ND TSP	+4.71
		02/95	Bobbin	ODI	3	0.75	3RD TSP	+22.01
		02/95	H/L Speci	VOL		0.86	3RD TSP	+22.01
		02/95	H/L Speci	VOL		1.28	2ND TSP	+4.71
44	77	02/95	Bobbin	NQI		0.97	8TH TSP	+16.95
		02/95	U-Bend	VOL		0.70	8TH TSP	+16.70
44	82	02/95	Bobbin	ODI	30	1.01	2ND TSP	+6.89
		02/95	H/L Speci	VOL		0.94	2ND TSP	+6.89
44	85	02/95	Bobbin	ODI	1	0.48	5TH TSP	-0.08
		02/95	Bobbin	ODI	31	0.37	4TH TSP	+0.05
44	86	02/95	Bobbin	NQI		0.68	17TH TSP	+8.21
		02/95	C/L Speci	VOL		0.32	17TH TSP	+8.75
44	91	02/95	Bobbin	ODI	1	0.63	3RD TSP	+0.09
		02/95	H/L Speci	VOL		0.55	8TH TSP	-13.76
45	41	02/95	H/L Speci	VOL		0.44	4TH TSP	+27.08
		02/95	H/L Speci	VOL		0.80	4TH TSP	+22.80
		02/95	H/L Speci	VOL		1.83	4TH TSP	+24.92
45	44	02/95	Bobbin	WAR	29	0.95	1AVB	+0.00
45	57	02/95	Bobbin	ODI	14	2.98	5TH TSP	+21.51
		02/95	H/L Speci	VOL		0.70	6TH TSP	-2.84
45	75	02/95	Bobbin	ODI	1	0.64	3RD TSP	+0.00
45	84	02/95	Bobbin	ODI	45	0.62	3RD TSP	-0.05
45	86	02/95	Bobbin	ODI	1	0.63	3RD TSP	-0.26
46	28	02/95	U-Bend	VOL		1.58	8TH TSP	+15.78
		02/95	U-Bend	VOL		1.67	8TH TSP	+17.21
		02/95	U-Bend	VOL		1.81	8TH TSP	+14.28
		02/95	U-Bend	VOL		2.52	8TH TSP	+10.48
		02/95	Bobbin	NQI		2.27	8TH TSP	+11.14 to **
46	29	02/95	Bobbin	ODI	5	1.72	12TH TSP	+27.17
		02/95	C/L Speci	VOL		0.24	TTS-CL	+3.31
		02/95	H/L Speci	VOL		0.40	7TH TSP	-4.92
		02/95	C/L Speci	VOL		0.82	11TH TSP	-16.75
46	30	02/95	Bobbin	ODI	6	1.36	12TH TSP	+41.22
		02/95	C/L Speci	VOL		0.56	10TH TSP	+15.35
		02/95	C/L Speci	VOL		0.64	11TH TSP	-2.82
46	31	02/95	Bobbin	ODI	15	2.61	22ND TSP	+12.74
		02/95	C/L Speci	VOL		0.92	22ND TSP	+12.76
46	33	02/95	Bobbin	ODI	39	0.12	5TH TSP	-0.07
		02/95	Bobbin	ODI	99	0.46	2ND TSP	+0.07
		02/95	Bobbin	ODI	21	1.41	11TH TSP	+39.63
		02/95	C/L Speci	VOL		1.00	10TH TSP	-6.03
46	34	02/95	Bobbin	ODI	94	0.29	5TH TSP	-0.24
46	37	02/95	U-Bend	VOL		0.60	1AVB	+3.30
		02/95	U-Bend	VOL		0.70	1AVB	+1.59
46	38	02/95	C/L Speci	VOL		0.35	15TH TSP	+5.98
46	42	02/95	Bobbin	ODI	77	0.34	7TH TSP	-0.07
46	49	02/95	Bobbin	ODI	36	0.22	6TH TSP	-0.20
		02/95	C/L Speci	VOL		0.80	12TH TSP	-6.49
46	50	02/95	Bobbin	NQI		0.58	17TH TSP	+0.34
46	51	02/95	Bobbin	NQI		2.22	8TH TSP	+8.88
		02/95	U-Bend	VOL		0.63	8TH TSP	+8.32
46	58	02/95	H/L Speci	NQI		0.86	7TH TSP	-0.32
46	59	02/95	Bobbin	ODI	1	0.37	5TH TSP	+0.10

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G B

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

46	60	02/95	Bobbin	ODI	80	0.55	5TH TSP	-0.20
46	62	02/95	Bobbin	ODI	88	0.35	7TH TSP	-0.02
46	63	02/95	Bobbin	NQI		1.14	4AVB	+7.33
		02/95	U-Bend	VOL		0.43	4AVB	+7.10
		02/95	Bobbin	ODI	1	0.52	2ND TSP	+0.00
		02/95	Bobbin	ODI	86	0.22	6TH TSP	-0.14
46	68	02/95	Bobbin	ODI	1	1.13	2ND TSP	+0.02
		02/95	Bobbin	ODI	28	0.52	4TH TSP	-0.12
46	71	02/95	Bobbin	ODI	44	0.37	4TH TSP	-0.24
46	72	02/95	Bobbin	NQI		0.85	10TH TSP	+29.24
		02/95	Bobbin	ODI	16	1.20	7TH TSP	+37.75
		02/95	Bobbin	ODI	97	0.62	2ND TSP	-0.10
		02/95	C/L Speci	VOL		0.42	9TH TSP	-16.03
		02/95	H/L Speci	VOL		1.17	8TH TSP	-6.26
46	73	02/95	Bobbin	ODI	43	0.33	4TH TSP	-0.02
46	74	02/95	Bobbin	ODI	11	0.88	3RD TSP	+24.81
		02/95	H/L Speci	VOL		1.20	3RD TSP	+24.81
46	79	02/95	Bobbin	NQI		2.17	1AVB	+22.59
		02/95	U-Bend	VOL		0.58	1AVB	+22.70
46	80	02/95	Bobbin	ODI	8	0.56	3RD TSP	+0.00
46	82	02/95	Bobbin	NQI		0.43	3RD TSP	+20.22
		02/95	H/L Speci	VOL		0.48	3RD TSP	+20.22
46	83	02/95	Bobbin	ODI	13	0.53	3RD TSP	-0.02
		02/95	Bobbin	ODI	48	0.16	6TH TSP	+0.05
		02/95	Bobbin	ODI	57	0.22	2ND TSP	+0.05
		02/95	Bobbin	ODI	93	0.30	4TH TSP	+0.19
46	85	02/95	Bobbin	NQI		0.34	16TH TSP	+9.49
		02/95	C/L Speci	VOL		0.28	15TH TSP	-1.52
47	36	02/95	Bobbin	NQI		0.26	20TH TSP	+0.07
47	40	02/95	C/L Speci	VOL		0.49	10TH TSP	+30.93
47	44	02/95	Bobbin	ODI	43	0.42	4TH TSP	-0.05
		02/95	H/L Speci	VOL		0.61	7TH TSP	-21.94
		02/95	H/L Speci	VOL		0.92	7TH TSP	-6.76
		02/95	H/L Speci	VOL		0.71	6TH TSP	-21.78 to -*
47	50	02/95	Bobbin	NQI		0.47	17TH TSP	+0.43
47	52	02/95	Bobbin	ODI	49	0.25	5TH TSP	-0.05
47	53	02/95	Bobbin	WAR	13	2.10	17TH TSP	+0.00
47	55	02/95	Bobbin	ODI	16	0.77	7TH TSP	+15.22
		02/95	Bobbin	ODI	24	0.51	7TH TSP	+18.87
		02/95	Bobbin	WAR	16	2.61	17TH TSP	+0.00
		02/95	H/L Speci	VOL		0.52	7TH TSP	+17.45
		02/95	H/L Speci	VOL		0.57	7TH TSP	+19.01
		02/95	H/L Speci	VOL		0.76	7TH TSP	+15.30
47	57	02/95	Bobbin	ODI	52	0.37	6TH TSP	-0.07
47	59	02/95	Bobbin	ODI	16	0.29	8TH TSP	-0.12
47	60	02/95	Bobbin	ODI	1	0.59	5TH TSP	+0.09
		02/95	Bobbin	ODI	4	0.26	7TH TSP	-0.02
		02/95	Bobbin	ODI	97	0.49	6TH TSP	-0.07
47	62	02/95	Bobbin	ODI	13	1.81	15TH TSP	+13.47
		02/95	Bobbin	ODI	23	2.74	15TH TSP	+6.47
		02/95	C/L Speci	VOL		1.01	15TH TSP	+14.21
47	65	02/95	Bobbin	WAR	9	1.45	17TH TSP	-0.17
47	67	02/95	Bobbin	ODI	88	0.25	5TH TSP	-0.05
47	68	02/95	Bobbin	ODI	43	0.31	3RD TSP	-0.09
47	69	02/95	Bobbin	ODI	6	0.30	5TH TSP	-0.05
47	70	02/95	H/L Speci	VOL		0.27	6TH TSP	+27.98
47	73	02/95	Bobbin	NQI		0.77	1ST TSP	+4.77
		02/95	H/L Speci	VOL		1.13	1ST TSP	+4.77
47	74	02/95	Bobbin	ODI	2	0.27	3RD TSP	-0.17
47	76	02/95	Bobbin	ODI	12	0.92	4TH TSP	+28.05
47	80	02/95	Bobbin	NQI		2.58	2AVB	+25.23
		02/95	U-Bend	VOL		0.85	2AVB	+26.92
47	84	02/95	Bobbin	ODI	17	1.02	6TH TSP	+24.58
		02/95	H/L Speci	VOL		0.57	6TH TSP	+24.58
47	85	02/95	Bobbin	NQI		0.26	3RD TSP	+9.12

S/G B - ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	H/L Speci	VOL		0.43	3RD TSP	+10.03
47	87	02/95	Bobbin	ODI	5	0.30	3RD TSP
48	29	02/95	C/L Speci	VOL		0.99	11TH TSP
48	30	02/95	Bobbin	ODI	5	1.15	22ND TSP
	02/95	C/L Speci	VOL		0.98	22ND TSP	+8.61
48	39	02/95	Bobbin	ODI	2	0.39	3RD TSP
48	40	02/95	Bobbin	ODI	90	0.45	3RD TSP
48	44	02/95	Bobbin	ODI	36	0.24	4TH TSP
48	46	02/95	U-Bend	VOL		1.08	8TH TSP
	02/95	U-Bend	VOL		1.69	8TH TSP	+5.99
	02/95	Bobbin	ODI	17	2.04	4TH TSP	+41.80
	02/95	H/L Speci	VOL		1.28	5TH TSP	-1.97
48	48	02/95	Bobbin	ODI	56	0.43	5TH TSP
48	49	02/95	Bobbin	ODI	13	0.17	7TH TSP
48	52	02/95	Bobbin	WAR	13	2.12	17TH TSP
48	53	02/95	Bobbin	ODI	13	2.16	5TH TSP
	02/95	Bobbin	WAR	12	2.41	17TH TSP	+0.00
	02/95	H/L Speci	VOL		1.04	5TH TSP	-15.84
	02/95	H/L Speci	VOL		1.51	6TH TSP	-17.62
48	55	02/95	Bobbin	WAR	11	1.73	17TH TSP
48	56	02/95	Bobbin	NQI		0.39	17TH TSP
48	57	02/95	Bobbin	WAR	9	1.81	18TH TSP
48	59	02/95	Bobbin	ODI	6	1.13	6TH TSP
	02/95	Bobbin	ODI	57	0.13	5TH TSP	+0.09
	02/95	Bobbin	WAR	14	2.71	17TH TSP	+0.00
	02/95	Bobbin	WAR	17	3.54	18TH TSP	+0.00
	02/95	H/L Speci	VOL		0.91	7TH TSP	-13.35
48	61	02/95	Bobbin	WAR	12	2.16	13TH TSP
48	65	02/95	Bobbin	ODI	33	1.23	1ST TSP
	02/95	H/L Speci	NQI		1.37	7TH TSP	-0.09
48	67	02/95	Bobbin	NQI		0.93	8TH TSP
	02/95	U-Bend	VOL		0.43	8TH TSP	+31.50
48	72	02/95	Bobbin	ODI	12	0.52	4TH TSP
	02/95	H/L Speci	VOL		0.43	4TH TSP	+13.91
48	75	02/95	Bobbin	NQI		2.74	TE-CL
48	81	02/95	Bobbin	ODI	10	0.17	5TH TSP
	02/95	Bobbin	ODI	60	0.43	3RD TSP	+0.00
49	56	02/95	Bobbin	NQI		6.64	TE-HL
49	57	02/95	Bobbin	WAR	28	0.90	2AVB
	02/95	Bobbin	WAR	18	3.09	18TH TSP	+0.00
49	58	02/95	Bobbin	ODI	14	0.46	18TH TSP
	02/95	C/L Speci	VOL		1.25	18TH TSP	-0.09
49	60	02/95	Bobbin	ODI	11	0.58	17TH TSP
	02/95	C/L Speci	VOL		0.26	17TH TSP	+0.33
49	61	02/95	Bobbin	NQI		0.72	9TH TSP
	02/95	U-Bend	VOL		0.20	9TH TSP	+9.76
	02/95	Bobbin	NQI		0.39	17TH TSP	-0.07
	02/95	H/L Speci	VOL		0.33	6TH TSP	+8.68
49	62	02/95	Bobbin	ODI	16	0.30	3RD TSP
49	65	02/95	Bobbin	NQI		1.60	TE-HL
49	68	02/95	Bobbin	ODI	4	0.71	6TH TSP
	02/95	H/L Speci	VOL		1.29	7TH TSP	-11.09
49	75	02/95	Bobbin	NQI		2.75	TE-CL
49	76	02/95	H/L Speci	VOL		1.36	4TH TSP
49	80	02/95	Bobbin	NQI		0.41	7TH TSP

Total Indications Found = 2135

Total Tubes Found = 1096

ATTACHMENT 3

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

3/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08:24

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
1	1	02/95	Bobbin	NQI		2.58	TE-CL	+19.05
		02/95	Bobbin	NQI		3.47	TE-CL	+17.99
		02/95	Bobbin	NQI		6.41	TE-CL	+14.06
		02/95	Bobbin	NQI		7.72	TE-CL	+8.26
1	2	02/95	Bobbin	NQI		5.99	TE-CL	+18.05
1	3	02/95	Bobbin	NQI		0.31	6TH TSP	+38.07
		02/95	Bobbin	ODI	37	0.45	6TH TSP	+0.05
1	5	02/95	Bobbin	ODI	14	0.44	13TH TSP	-0.05
1	6	02/95	Bobbin	NQI		5.90	TE-CL	+18.96
1	7	02/95	Bobbin	NQI		3.52	TE-CL	+12.07
1	9	02/95	Bobbin	NQI		4.96	TE-CL	+18.01
1	12	02/95	Bobbin	NQI		7.64	TE-CL	+17.13
		02/95	Bobbin	ODI	1	0.55	6TH TSP	-0.05
1	13	02/95	Bobbin	NQI		5.68	TE-CL	+17.04
1	17	02/95	Bobbin	ODI	1	0.59	6TH TSP	-0.10
		02/95	Bobbin	ODI	7	2.91	11TH TSP	+11.18
		02/95	Bobbin	ODI	8	2.25	11TH TSP	+8.06
		02/95	C/L Speci	VOL		0.36	11TH TSP	+10.82
		02/95	C/L Speci	VOL		0.90	11TH TSP	+7.89
1	18	02/95	Bobbin	NQI		4.20	TE-CL	+19.03
1	26	02/95	Bobbin	NQI		1.01	TE-HL	+20.67
1	35	02/95	Bobbin	NQI		0.52	13TH TSP	+0.00
1	40	02/95	Bobbin	NQI		0.41	6TH TSP	+32.55
1	46	02/95	Bobbin	NQI		0.63	TTS-CL	+3.34
		02/95	Bobbin	ODI	99	0.44	3RD TSP	-0.05
1	50	02/95	Bobbin	ODI	18	0.78	TTS-CL	+3.31
		02/95	C/L Speci	VOL		0.50	TTS-CL	+3.25
1	51	02/95	Bobbin	ODI	31	0.46	TTS-CL	+3.24
1	53	02/95	Bobbin	ODI	21	0.38	TTS-CL	+3.27
1	54	02/95	Bobbin	NQI		1.38	10TH TSP	+40.43
		02/95	Bobbin	ODI	1	0.22	2ND TSP	-0.10
1	57	02/95	H/L Speci	VOL		0.22	4TH TSP	-0.01
1	58	02/95	Bobbin	ODI	63	0.55	6TH TSP	-0.04
		02/95	H/L Speci	VOL		0.23	4TH TSP	-0.11
1	60	02/95	Bobbin	ODI	21	0.30	2ND TSP	+0.00
1	61	02/95	H/L Speci	VOL		0.49	3RD TSP	-2.94
1	62	02/95	Bobbin	ODI	20	0.38	2ND TSP	+0.00
		02/95	Bobbin	ODJ	55	0.20	3RD TSP	-0.00
1	63	02/95	Bobbin	ODI	30	0.26	3RD TSP	-0.05
1	66	02/95	Bobbin	ODI	23	0.38	3RD TSP	-0.10
		02/95	Bobbin	ODI	26	0.62	6TH TSP	-0.03
1	67	02/95	Bobbin	ODI	74	0.27	3RD TSP	+0.03
1	68	02/95	Bobbin	ODI	43	0.49	2ND TSP	+0.05
1	70	02/95	Bobbin	ODI	71	0.30	3RD TSP	+0.00
1	71	02/95	Bobbin	ODI	44	0.40	3RD TSP	-0.07
1	72	02/95	Bobbin	ODI	97	0.52	3RD TSP	-0.08
1	78	02/95	H/L Speci	VOL		1.18	4TH TSP	+30.41
1	81	02/95	Bobbin	ODI	1	1.18	4TH TSP	+15.42
		02/95	Bobbin	ODI	80	0.71	3RD TSP	+0.00
		02/95	H/L Speci	VOL		0.54	4TH TSP	+15.20
1	86	02/95	Bobbin	ODI	1	0.72	3RD TSP	-0.02
		02/95	Bobbin	ODI	22	0.51	3RD TSP	+5.57
		02/95	Bobbin	ODI	28	0.52	5TH TSP	-0.07
		02/95	Bobbin	ODI	36	0.35	7TH TSP	+0.00
		02/95	Bobbin	ODI	42	0.55	6TH TSP	-0.07
		02/95	Bobbin	ODI	44	0.41	4TH TSP	+0.00
		02/95	H/L Speci	VOL		0.44	3RD TSP	+5.64
1	88	02/95	Bobbin	ODI	1	0.66	3RD TSP	-0.02
		02/95	Bobbin	ODI	34	0.35	5TH TSP	-0.10
1	89	02/95	Bobbin	NQI		0.48	3RD TSP	+10.84
		02/95	Bobbin	ODI	8	1.00	4TH TSP	+22.51
		02/95	H/L Speci	VOL		0.48	3RD TSP	+11.10
		02/95	H/L Speci	VOL		0.86	4TH TSP	+24.29
1	98	02/95	Bobbin	ODI	54	0.56	5TH TSP	-0.05
1	101	02/95	Bobbin	NQI		0.68	6TH TSP	+11.81

BWNT TUBAN II (Version 2.1) 05/01/1995 07:38:37
 Catawba Nuclear Station - Unit One
 S/G C
 02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

Page 2

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

QRY: 05/01/1995 07:08.24

ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

1	103	02/95	Bobbin	ODI	32	0.65	3RD TSP	+0.00
1	109	02/95	Bobbin	NQI		0.44	6TH TSP	+32.98
		02/95	H/L Speci	VOL		0.89	7TH TSP	-11.20
1	110	02/95	Bobbin	ODI	9	0.71	3RD TSP	-0.07
1	112	02/95	Bobbin	ODI	64	0.31	5TH TSP	-0.07
2	1	02/95	Bobbin	NQI		3.24	TE-CL	+8.14
		02/95	Bobbin	NQI		9.88	TE-CL	+9.07
2	4	02/95	Bobbin	NQI		4.64	TE-CL	+5.29
2	5	02/95	Bobbin	ODI	43	0.62	6TH TSP	-0.08
2	10	02/95	Bobbin	NQI		4.80	TE-CL	+17.92
		02/95	Bobbin	ODI	59	0.44	6TH TSP	-0.03
		02/95	Bobbin	ODI	60	0.51	3RD TSP	+0.00
2	18	02/95	Bobbin	ODI	41	0.32	6TH TSP	-0.08
2	33	02/95	Bobbin	ODI	97	0.38	6TH TSP	-0.08
2	34	02/95	Bobbin	ODI	97	0.69	3RD TSP	-0.10
2	39	02/95	Bobbin	ODI	53	0.24	7TH TSP	-0.03
2	40	02/95	Bobbin	ODI	35	0.38	6TH TSP	-0.08
2	41	02/95	Bobbin	ODI	90	0.39	6TH TSP	-0.03
		02/95	Bobbin	ODI	90	0.59	7TH TSP	-0.05
2	42	02/95	Bobbin	ODI	86	0.63	3RD TSP	-0.03
2	43	02/95	Bobbin	ODI	1	0.49	3RD TSP	+0.03
2	47	02/95	Bobbin	NQI		3.49	TE-HL	+13.23
2	51	02/95	Bobbin	ODI	29	0.44	3RD TSP	-0.03
2	55	02/95	Bobbin	ODI	22	0.45	2ND TSP	+0.05
		02/95	Bobbin	ODI	59	0.64	4TH TSP	+0.05
2	58	02/95	Bobbin	ODI	54	0.33	2ND TSP	+0.05
		02/95	Bobbin	ODI	73	0.52	3RD TSP	-0.03
		02/95	Bobbin	ODI	80	0.69	4TH TSP	+0.00
2	73	02/95	Bobbin	ODI	17	1.51	13TH TSP	+9.27
		02/95	C/L Speci	VOL		0.94	13TH TSP	+9.65
2	75	02/95	Bobbin	NQI		3.03	TE-CL	+17.80
2	85	02/95	Bobbin	ODI	1	0.79	4TH TSP	+5.67
		02/95	H/L Speci	VOL		0.38	4TH TSP	+5.89
2	91	02/95	Bobbin	ODI	90	0.44	3RD TSP	-0.05
2	92	02/95	Bobbin	ODI	84	0.43	2ND TSP	-0.05
2	95	02/95	Bobbin	ODI	99	0.58	2ND TSP	+0.47
2	110	02/95	Bobbin	ODI	85	0.71	3RD TSP	-0.08
2	113	02/95	Bobbin	ODI	72	0.30	3RD TSP	-0.05
3	1	02/95	Bobbin	NQI		6.95	TE-CL	+9.04
		02/95	C/L Speci	VOL		1.64	10TH TSP	-0.81
3	2	02/95	H/L Speci	VOL		1.22	7TH TSP	+0.13
3	4	02/95	Bobbin	ODI	1	0.45	3RD TSP	+0.05
		02/95	Bobbin	ODI	87	0.34	2ND TSP	+0.03
3	5	02/95	Bobbin	NQI		4.54	TE-HL	+14.22
		02/95	Bobbin	ODI	70	0.13	6TH TSP	-0.11
3	7	02/95	Bobbin	ODI	91	1.51	3RD TSP	+0.00
		02/95	H/L Speci	SAI		1.40	3RD TSP	+0.04
3	8	02/95	Bobbin	ODI	61	0.37	3RD TSP	-0.05
3	11	02/95	Bobbin	ODI	35	0.20	6TH TSP	+0.00
3	12	02/95	Bobbin	ODI	23	0.45	6TH TSP	-0.05
3	13	02/95	Bobbin	ODI	72	0.27	6TH TSP	-0.05
3	17	02/95	Bobbin	NQI		1.27	TE-HL	+11.35
3	19	02/95	Bobbin	ODI	8	0.88	5TH TSP	+2.33
		02/95	H/L Speci	VOL		2.04	5TH TSP	+2.49
3	23	02/95	Bobbin	ODI	34	0.43	6TH TSP	-0.15
3	30	02/95	Bobbin	ODI	42	0.41	6TH TSP	-0.03
3	33	02/95	Bobbin	ODI	25	0.43	2ND TSP	+0.08
3	34	02/95	Bobbin	NQI		0.67	13TH TSP	+0.03
		02/95	Bobbin	ODI	42	0.34	6TH TSP	-0.03
		02/95	Bobbin	ODI	58	0.37	2ND TSP	+0.05
3	35	02/95	Bobbin	ODI	11	0.28	5TH TSP	-0.13
		02/95	Bobbin	ODI	20	0.58	6TH TSP	-0.05
3	38	02/95	Bobbin	ODI	56	0.31	5TH TSP	-0.05
3	40	02/95	Bobbin	NQI		0.38	13TH TSP	-0.08
3	42	02/95	Bobbin	ODI	92	0.53	6TH TSP	-0.03

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	93	0.63	7TH TSP	-0.05
		02/95	H/L Speci	VOL		1.04	4TH TSP	-15.40
3	44	02/95	Bobbin	ODI	9	1.86	3RD TSP	+30.48
		02/95	Bobbin	ODI	34	0.61	3RD TSP	+0.00
		02/95	H/L Speci	VOL		0.45	4TH TSP	-14.09
3	47	02/95	Bobbin	ODI	42	0.35	7TH TSP	+0.05
		02/95	Bobbin	ODI	97	0.37	6TH TSP	-0.08
3	51	02/95	Bobbin	ODI	77	0.91	3RD TSP	-0.10
		02/95	H/L Speci	MAI		0.51	3RD TSP	-0.20
3	53	02/95	Bobbin	ODI	69	0.58	2ND TSP	+0.05
3	58	02/95	Bobbin	ODI	20	0.82	2ND TSP	-0.05
3	60	02/95	Bobbin	NQI		0.53	13TH TSP	-0.14
3	64	02/95	Bobbin	ODI	17	0.34	3RD TSP	+0.00
		02/95	Bobbin	ODI	59	0.34	6TH TSP	+0.00
3	65	02/95	Bobbin	ODI	47	0.53	4TH TSP	+0.05
		02/95	Bobbin	ODI	54	0.79	3RD TSP	+0.00
3	66	02/95	Bobbin	ODI	23	0.50	6TH TSP	-0.22
		02/95	Bobbin	ODI	36	0.48	4TH TSP	+0.00
3	70	02/95	Bobbin	ODI	32	0.37	2ND TSP	-0.02
		02/95	Bobbin	ODI	36	0.69	4TH TSP	+0.00
		02/95	Bobbin	ODI	41	0.59	3RD TSP	-0.20
3	71	02/95	Bobbin	ODI	55	0.37	3RD TSP	-0.10
		02/95	Bobbin	ODI	55	0.45	4TH TSP	+0.02
3	73	02/95	Bobbin	ODI	15	0.28	3RD TSP	-0.15
		02/95	Bobbin	ODI	29	0.60	2ND TSP	+0.12
3	74	02/95	Bobbin	ODI	12	0.47	2ND TSP	+0.17
		02/95	Bobbin	ODI	23	0.56	3RD TSP	-0.05
		02/95	Bobbin	ODI	30	0.25	7TH TSP	-0.17
		02/95	Bobbin	ODI	62	0.34	5TH TSP	-0.07
3	75	02/95	Bobbin	ODI	73	0.33	6TH TSP	+0.00
3	78	02/95	Bobbin	ODI	71	0.30	5TH TSP	-0.10
3	79	02/95	Bobbin	ODI	74	0.36	6TH TSP	-0.07
		02/95	Bobbin	ODI	87	0.39	5TH TSP	+0.02
3	82	02/95	Bobbin	ODI	57	0.38	3RD TSP	-0.17
3	84	02/95	Bobbin	ODI	16	0.87	4TH TSP	-0.02
		02/95	Bobbin	ODI	28	0.52	2ND TSP	-0.10
		02/95	Bobbin	ODI	75	0.23	7TH TSP	-0.02
		02/95	Bobbin	ODI	88	0.31	5TH TSP	+0.00
3	86	02/95	Bobbin	ODI	15	0.35	2ND TSP	-0.07
3	87	02/95	Bobbin	ODI	11	0.42	2ND TSP	-0.05
3	89	02/95	Bobbin	NQI		0.32	2ND TSP	+9.73
		02/95	Bobbin	NQI		0.44	3RD TSP	+39.73
		02/95	H/L Speci	VOL		0.24	4TH TSP	-4.65
		02/95	H/L Speci	VOL		0.25	4TH TSP	-9.05
		02/95	H/L Speci	VOL		0.29	2ND TSP	+10.00
3	94	02/95	H/L Tubes	VOL		0.47	TTS-HL	+0.45
		02/95	H/L Tubes	VOL		0.61	TTS-HL	+1.26
		02/95	H/L Tubes	VOL		0.66	TTS-HL	+1.87
3	99	02/95	Bobbin	NQI		1.37	5TH TSP	+10.19
		02/95	Bobbin	ODI	48	0.57	3RD TSP	-0.08
		02/95	H/L Speci	VOL		0.59	5TH TSP	+10.17
3	101	02/95	H/L Tubes	VOL		0.99	TTS-HL	+0.06
3	107	02/95	Bobbin	ODI	24	0.64	16TH TSP	+17.61
		02/95	C/L Speci	VOL		0.58	14TH TSP	-4.49
3	112	02/95	Bobbin	ODI	89	0.73	3RD TSP	-0.12
4	4	02/95	Bobbin	ODI	91	0.19	6TH TSP	-0.13
4	5	02/95	Bobbin	ODI	78	0.64	3RD TSP	-0.03
		02/95	Bobbin	ODI	93	0.43	6TH TSP	-0.13
4	6	02/95	Bobbin	ODI	62	0.99	3RD TSP	-0.05
		02/95	Bobbin	ODI	72	0.30	6TH TSP	+0.00
		02/95	H/L Speci	SAI		1.30	3RD TSP	+0.00
4	7	02/95	Bobbin	NQI		0.65	13TH TSP	-0.05
		02/95	Bobbin	ODI	99	1.10	3RD TSP	-0.02
		02/95	H/L Speci	SAI		0.72	3RD TSP	+0.00
4	8	02/95	Bobbin	ODI	1	0.16	6TH TSP	-0.29

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	68	1.16	3RD TSP	+0.08
		02/95	H/L Speci	SAI		0.84	3RD TSP	+0.15
4	11	02/95	Bobbin	ODI	47	0.20	6TH TSP	-0.10
		02/95	Bobbin	ODI	62	0.24	7TH TSP	-0.57
4	14	02/95	Bobbin	NQI		1.13	TE-HL	+8.49
		02/95	Bobbin	ODI	1	0.44	7TH TSP	-0.21
		02/95	Bobbin	ODI	19	0.26	6TH TSP	-0.15
4	16	02/95	Bobbin	ODI	1	0.25	5TH TSP	-0.08
		02/95	Bobbin	ODI	82	0.21	6TH TSP	-0.28
4	24	02/95	Bobbin	ODI	99	0.31	2ND TSP	+0.00
		02/95	C/L Speci	VOL		0.42	11TH TSP	-18.62
		02/95	C/L Speci	VOL		0.49	11TH TSP	-14.59
4	26	02/95	Bobbin	ODI	57	0.57	5TH TSP	-0.08
		02/95	Bobbin	ODI	75	0.27	6TH TSP	-0.05
		02/95	Bobbin	ODI	94	0.52	7TH TSP	-0.10
		02/95	C/L Speci	VOL		0.30	11TH TSP	+1.82
4	28	02/95	Bobbin	ODI	98	0.27	2ND TSP	-0.08
4	33	02/95	Bobbin	ODI	21	0.23	7TH TSP	-0.10
4	36	02/95	Bobbin	ODI	15	0.41	3RD TSP	-0.10
		02/95	Bobbin	ODI	44	0.46	5TH TSP	-0.05
4	37	02/95	Bobbin	ODI	1	0.78	2ND TSP	+0.08
		02/95	C/L Speci	VOL		0.62	12TH TSP	+3.64
4	38	02/95	Bobbin	ODI	21	0.48	3RD TSP	-0.08
		02/95	Bobbin	ODI	30	0.27	2ND TSP	+0.00
4	41	02/95	Bobbin	ODI	4	0.80	5TH TSP	+8.76
		02/95	Bobbin	ODI	13	0.98	4TH TSP	+8.53
		02/95	H/L Speci	VOL		0.36	5TH TSP	+8.82
		02/95	H/L Speci	VOL		0.53	4TH TSP	+8.31
4	42	02/95	Bobbin	ODI	64	0.39	2ND TSP	+0.03
4	43	02/95	Bobbin	ODI	1	0.70	2ND TSP	+0.03
4	45	02/95	Bobbin	ODI	2	0.76	2ND TSP	+0.08
4	46	02/95	C/L Speci	VOL		0.35	10TH TSP	-7.94
4	48	02/95	Bobbin	NQI		8.65	TE-HL	+6.10
		02/95	Bobbin	ODI	31	0.19	3RD TSP	-0.05
4	49	02/95	Bobbin	ODI	5	0.51	4TH TSP	-0.03
		02/95	Bobbin	ODI	63	0.61	2ND TSP	+0.05
		02/95	Bobbin	ODI	81	0.66	3RD TSP	-0.10
4	50	02/95	Bobbin	ODI	73	0.94	2ND TSP	+0.00
		02/95	Bobbin	ODI	80	0.25	6TH TSP	-0.03
		02/95	Bobbin	ODI	99	0.21	7TH TSP	-0.03
		02/95	H/L Speci	SAI		0.95	2ND TSP	+0.11
4	51	02/95	Bobbin	NQI		0.61	13TH TSP	+0.00
		02/95	Bobbin	ODI	1	0.73	7TH TSP	-0.10
		02/95	Bobbin	ODI	94	0.47	6TH TSP	+0.00
		02/95	Bobbin	ODI	96	0.30	2ND TSP	-0.08
		02/95	Bobbin	ODI	99	0.39	4TH TSP	-0.05
4	52	02/95	Bobbin	ODI	57	0.30	4TH TSP	+0.00
		02/95	Bobbin	ODI	64	0.93	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.91	2ND TSP	-0.01
		02/95	C/L Speci	VOL		0.83	11TH TSP	+11.35
4	58	02/95	Bobbin	ODI	14	0.34	3RD TSP	+0.05
		02/95	Bobbin	ODI	41	0.51	4TH TSP	+0.00
4	61	02/95	Bobbin	ODI	11	0.74	2ND TSP	+0.15
4	68	02/95	Bobbin	ODI	25	0.59	2ND TSP	+0.17
4	70	02/95	Bobbin	ODI	3	0.60	2ND TSP	-0.07
		02/95	Bobbin	ODI	15	0.31	4TH TSP	-0.07
4	71	02/95	Bobbin	ODI	7	0.56	2ND TSP	-0.02
		02/95	Bobbin	ODI	11	1.34	6TH TSP	+34.85
		02/95	H/L Speci	VOL		1.17	7TH TSP	-9.32
4	72	02/95	Bobbin	ODI	49	0.55	2ND TSP	-0.10
		02/95	Bobbin	ODI	75	0.67	3RD TSP	-0.18
4	73	02/95	Bobbin	ODI	1	0.17	2ND TSP	-0.02
		02/95	Bobbin	ODI	63	0.34	4TH TSP	+0.00
		02/95	H/L Speci	VOL		0.67	7TH TSP	+19.97
4	74	02/95	Bobbin	ODI	1	0.25	5TH TSP	-0.15

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/I Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

4	75	02/95	Bobbin	NQI		4.90	TE-CL	+19.06
4	76	02/95	Bobbin	ODI	30	0.43	4TH TSP	+0.00
		02/95	Bobbin	ODI	97	0.52	5TH TSP	+0.00
4	77	02/95	Bobbin	ODI	88	0.38	2ND TSP	-0.10
4	80	02/95	Bobbin	ODI	11	0.63	4TH TSP	-0.12
4	81	02/95	Bobbin	ODI	88	1.17	2ND TSP	+0.10
		02/95	H/L Speci	SAI		1.08	2ND TSP	+0.02
		02/95	H/L Speci	VOL		0.60	6TH TSP	-11.16
4	83	02/95	Bobbin	ODI	58	0.51	5TH TSP	-0.13
		02/95	Bobbin	ODI	61	0.40	4TH TSP	-0.10
		02/95	Bobbin	ODI	94	0.34	2ND TSP	-0.10
4	86	02/95	Bobbin	ODI	76	0.43	3RD TSP	-0.10
4	89	02/95	Bobbin	ODI	89	0.34	5TH TSP	+0.00
4	90	02/95	Bobbin	ODI	58	0.64	4TH TSP	-0.18
4	96	02/95	Bobbin	ODI	46	0.87	2ND TSP	+0.05
		02/95	H/L Speci	SAI		0.93	2ND TSP	+0.00
4	98	02/95	Bobbin	ODI	52	0.55	4TH TSP	+0.05
		02/95	Bobbin	ODI	73	0.97	3RD TSP	+0.00
		02/95	H/L Speci	MAI		0.58	3RD TSP	+0.00
4	99	02/95	Bobbin	ODI	1	0.50	2ND TSP	+0.08
4	100	02/95	Bobbin	ODI	7	0.55	5TH TSP	-0.05
		02/95	Bobbin	ODI	64	0.47	2ND TSP	+0.05
		02/95	Bobbin	ODI	82	0.48	4TH TSP	+0.00
		02/95	Bobbin	ODI	99	0.96	3RD TSP	+0.00
		02/95	H/L Speci	SAI		0.59	3RD TSP	-0.02
4	102	02/95	Bobbin	ODI	1	0.58	2ND TSP	-0.03
4	106	02/95	Bobbin	ODI	66	0.88	4TH TSP	-0.05
		02/95	H/L Speci	SAI		0.82	4TH TSP	+0.01
4	108	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.00
		02/95	Bobbin	ODI	74	0.60	5TH TSP	-0.05
4	109	02/95	Bobbin	ODI	3	0.39	2ND TSP	+0.08
		02/95	Bobbin	ODI	71	0.49	5TH TSP	+0.00
		02/95	Bobbin	ODI	94	0.66	3RD TSP	-0.05
4	111	02/95	Bobbin	ODI	60	0.37	3RD TSP	+0.00
4	114	02/95	Bobbin	ODI	21	0.59	3RD TSP	-0.02
5	4	02/95	Bobbin	ODI	31	0.62	6TH TSP	-0.08
		02/95	Bobbin	ODI	95	0.57	2ND TSP	-0.10
5	6	02/95	Bobbin	ODI	15	0.35	2ND TSP	-0.10
		02/95	Bobbin	ODI	45	0.69	6TH TSP	-0.05
		02/95	Bobbin	ODI	92	0.80	3RD TSP	-0.03
		02/95	H/L Speci	SAI		0.57	3RD TSP	-0.01
5	7	02/95	Bobbin	ODI	15	0.49	5TH TSP	+24.19
5	8	02/95	Bobbin	ODI	78	0.48	3RD TSP	-0.08
5	9	02/95	Bobbin	ODI	53	0.54	5TH TSP	+0.00
		02/95	Bobbin	ODI	64	0.62	7TH TSP	+0.00
		02/95	Bobbin	ODI	78	0.50	6TH TSP	-0.08
		02/95	H/L Tubes	VOL		1.08	TTS-HL	+1.30
5	10	02/95	Bobbin	NQI		4.10	TE-CL	+16.98
		02/95	Bobbin	NQI		0.78	13TH TSP	-0.10
		02/95	Bobbin	ODI	31	0.24	2ND TSP	-0.13
		02/95	Bobbin	ODI	36	0.73	7TH TSP	+0.00
		02/95	Bobbin	ODI	41	0.42	6TH TSP	-0.03
		02/95	Bobbin	ODI	90	0.49	5TH TSP	-0.03
5	13	02/95	Bobbin	ODI	1	0.50	7TH TSP	-0.12
		02/95	Bobbin	ODI	1	0.57	6TH TSP	-0.12
5	14	02/95	Bobbin	NQI		2.76	TE-HL	+7.59
		02/95	Bobbin	ODI	67	0.73	7TH TSP	-0.03
		02/95	H/L Tubes	VOL		0.45	TTS-HL	+1.83
5	15	02/95	Bobbin	ODI	1	0.67	5TH TSP	+0.00
		02/95	Bobbin	ODI	92	0.49	6TH TSP	-0.03
5	16	02/95	Bobbin	NQI		0.59	13TH TSP	+0.07
		02/95	Bobbin	ODI	1	0.74	7TH TSP	-0.17
		02/95	Bobbin	ODI	91	0.81	6TH TSP	-0.05
5	17	02/95	Bobbin	ODI	26	0.43	3RD TSP	+0.05
5	18	02/95	Bobbin	ODI	96	0.83	2ND TSP	-0.05

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S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	SAI		0.69	2ND TSP	-0.01
5	24	02/95	Bobbin	ODI	57	0.30	2ND TSP	-0.05
5	25	02/95	Bobbin	ODI	1	0.38	7TH TSP	-0.29
		02/95	Bobbin	ODI	32	0.84	2ND TSP	-0.05
		02/95	Bobbin	ODI	71	0.44	6TH TSP	-0.08
		02/95	Bobbin	ODI	77	0.58	5TH TSP	-0.05
		02/95	H/L Speci	SAI		0.89	2ND TSP	-0.02
5	27	02/95	Bobbin	ODI	74	0.14	2ND TSP	-0.03
5	28	02/95	Bobbin	NQI		0.74	13TH TSP	-0.03
		02/95	Bobbin	ODI	1	0.51	2ND TSP	-0.05
		02/95	Bobbin	ODI	50	0.38	5TH TSP	+0.00
		02/95	H/L Speci	SAI		0.41	8TH TSP	-0.16
5	29	02/95	Bobbin	ODI	31	0.43	6TH TSP	-0.08
		02/95	Bobbin	ODI	35	0.64	2ND TSP	+0.00
		02/95	Bobbin	ODI	83	0.48	5TH TSP	-0.08
5	30	02/95	Bobbin	ODI	5	0.67	2ND TSP	+0.05
		02/95	Bobbin	ODI	11	0.44	4TH TSP	-0.13
		02/95	Bobbin	ODI	14	0.30	7TH TSP	-0.29
		02/95	Bobbin	ODI	43	0.99	5TH TSP	-0.05
5	31	02/95	Bobbin	ODI	97	0.41	2ND TSP	+0.03
5	33	02/95	Bobbin	ODI	12	0.28	7TH TSP	-0.11
		02/95	Bobbin	ODI	42	0.28	2ND TSP	-0.16
		02/95	Bobbin	ODI	51	0.25	4TH TSP	+0.38
		02/95	Bobbin	ODI	99	0.31	5TH TSP	-0.05
5	34	02/95	Bobbin	ODI	15	0.86	2ND TSP	+0.08
		02/95	H/L Speci	MAI		0.61	2ND TSP	+0.14
5	35	02/95	Bobbin	ODI	84	0.48	2ND TSP	+0.03
5	37	02/95	Bobbin	ODI	18	0.48	4TH TSP	-0.13
		02/95	Bobbin	ODI	50	0.62	2ND TSP	+0.03
5	39	02/95	Bobbin	ODI	72	0.22	3RD TSP	+0.00
5	40	02/95	Bobbin	ODI	1	0.59	7TH TSP	-0.11
		02/95	Bobbin	ODI	60	0.54	3RD TSP	-0.08
		02/95	Bobbin	ODI	95	0.47	5TH TSP	-0.05
5	41	02/95	Bobbin	ODI	26	0.57	2ND TSP	+0.05
5	42	02/95	Bobbin	ODI	77	0.80	2ND TSP	-0.10
		02/95	H/L Speci	MAI		0.66	2ND TSP	-0.07
5	43	02/95	Bobbin	ODI	20	0.86	2ND TSP	+0.10
		02/95	H/L Speci	MAI		0.51	2ND TSP	+0.16
5	44	02/95	Bobbin	ODI	12	0.83	3RD TSP	-0.03
		02/95	Bobbin	ODI	15	0.73	2ND TSP	+0.03
		02/95	Bobbin	ODI	90	0.38	5TH TSP	-0.03
		02/95	Bobbin	ODI	97	0.71	4TH TSP	-0.03
		02/95	H/L Speci	SAI		0.25	3RD TSP	-0.08
5	45	02/95	Bobbin	ODI	14	0.53	7TH TSP	+0.08
		02/95	Bobbin	ODI	37	0.87	3RD TSP	-0.13
		02/95	Bobbin	ODI	78	0.86	4TH TSP	+0.03
		02/95	Bobbin	ODI	94	0.97	2ND TSP	+0.00
		02/95	H/L Speci	MAI		0.61	4TH TSP	+0.05
		02/95	H/L Speci	SAI		0.65	2ND TSP	+0.05
5	46	02/95	Bobbin	ODI	1	0.97	3RD TSP	-0.05
		02/95	Bobbin	ODI	22	0.59	4TH TSP	-0.05
		02/95	Bobbin	ODI	41	0.77	2ND TSP	-0.05
		02/95	Bobbin	ODI	62	0.49	5TH TSP	-0.05
		02/95	H/L Speci	SAI		0.64	3RD TSP	-0.04
5	49	02/95	Bobbin	ODI	60	1.01	2ND TSP	-0.05
		02/95	Bobbin	ODI	73	0.41	7TH TSP	-0.03
		02/95	Bobbin	ODI	83	1.10	3RD TSP	-0.11
		02/95	Bobbin	ODI	97	0.73	4TH TSP	-0.18
		02/95	H/L Speci	MAI		0.39	2ND TSP	+0.02
		02/95	H/L Speci	MAI		1.10	3RD TSP	-0.10
5	54	02/95	Bobbin	ODI	35	0.67	3RD TSP	-0.18
		02/95	Bobbin	ODI	70	0.21	4TH TSP	+0.03
5	55	02/95	Bobbin	ODI	51	0.54	3RD TSP	-0.24
		02/95	Bobbin	ODI	63	0.95	4TH TSP	-0.05
		02/95	Bobbin	ODI	76	0.93	2ND TSP	-0.03

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	MAI		0.24	2ND TSP	+0.03
		02/95	H/L Speci	MAI		0.37	4TH TSP	+0.00
5	56	02/95	Bobbin	ODI	1	0.37	3RD TSP	-0.05
		02/95	Bobbin	ODI	52	0.49	2ND TSP	-0.16
5	57	02/95	Bobbin	ODI	86	0.75	4TH TSP	-0.02
		02/95	Bobbin	ODI	93	0.98	2ND TSP	+0.02
		02/95	H/L Speci	MAI		0.96	2ND TSP	+0.11
5	58	02/95	Bobbin	ODI	22	0.68	3RD TSP	-0.05
		02/95	Bobbin	ODI	63	0.54	2ND TSP	+0.02
5	62	02/95	Bobbin	ODI	67	0.86	3RD TSP	-0.02
		02/95	Bobbin	ODI	75	0.75	2ND TSP	-0.02
		02/95	H/L Speci	SAI		0.67	3RD TSP	+0.06
5	63	02/95	Bobbin	ODI	34	0.74	4TH TSP	+0.00
		02/95	Bobbin	ODI	38	0.83	2ND TSP	+0.00
		02/95	Bobbin	ODI	87	0.78	3RD TSP	-0.10
		02/95	H/L Speci	MAI		0.13	2ND TSP	+0.00
		02/95	C/L Speci	VOL		0.30	16TH TSP	+2.76
5	72	02/95	Bobbin	ODI	40	0.93	2ND TSP	+0.05
		02/95	Bobbin	ODI	49	0.60	3RD TSP	-0.07
		02/95	Bobbin	ODI	69	0.40	6TH TSP	-0.10
		02/95	Bobbin	ODI	72	0.72	4TH TSP	+0.00
		02/95	Bobbin	ODI	87	0.25	5TH TSP	+0.70
		02/95	H/L Speci	SAI		0.34	2ND TSP	+0.00
5	75	02/95	Bobbin	ODI	46	0.60	6TH TSP	-0.05
		02/95	Bobbin	ODI	54	0.92	4TH TSP	+0.05
		02/95	Bobbin	ODI	92	0.44	5TH TSP	-0.07
5	76	02/95	Bobbin	NQI		1.43	12TH TSP	+24.67
		02/95	Bobbin	ODI	41	0.76	2ND TSP	+0.07
		02/95	C/L Speci	VOL		0.44	11TH TSP	-19.32
5	80	02/95	Bobbin	ODI	50	0.76	3RD TSP	-0.05
		02/95	Bobbin	ODI	58	0.66	4TH TSP	+0.00
		02/95	Bobbin	ODI	65	0.63	5TH TSP	-0.02
5	91	02/95	Bobbin	ODI	59	0.31	3RD TSP	-0.12
5	92	02/95	Bobbin	ODI	1	0.59	4TH TSP	-0.07
		02/95	Bobbin	ODI	31	0.30	5TH TSP	-0.05
		02/95	Bobbin	ODI	97	0.25	3RD TSP	-0.05
5	93	02/95	Bobbin	ODI	55	0.62	2ND TSP	+0.10
		02/95	Bobbin	ODI	78	0.39	5TH TSP	-0.05
		02/95	Bobbin	ODI	86	0.36	3RD TSP	-0.07
5	94	02/95	Bobbin	ODI	36	0.33	2ND TSP	-0.05
		02/95	Bobbin	ODI	64	0.20	7TH TSP	-0.07
		02/95	Bobbin	ODI	82	0.21	5TH TSP	-0.05
5	95	02/95	Bobbin	ODI	1	0.54	2ND TSP	-0.07
		02/95	Bobbin	ODI	12	0.37	3RD TSP	+0.02
		02/95	Bobbin	ODI	31	0.26	7TH TSP	-0.10
		02/95	Bobbin	ODI	39	0.34	4TH TSP	-0.12
5	96	02/95	Bobbin	ODI	21	0.48	5TH TSP	-0.05
		02/95	Bobbin	ODI	36	0.23	7TH TSP	-0.07
		02/95	Bobbin	ODI	67	0.71	2ND TSP	-0.05
5	97	02/95	Bobbin	ODI	34	0.59	2ND TSP	+0.07
		02/95	Bobbin	ODI	72	0.37	3RD TSP	+0.05
5	99	02/95	Bobbin	ODI	13	0.54	5TH TSP	+0.02
		02/95	Bobbin	ODI	41	0.87	3RD TSP	-0.05
		02/95	H/L Speci	NQI		0.15	2ND TSP	+0.13
		02/95	H/L Speci	SAI		1.03	3RD TSP	+0.00
5	104	02/95	Bobbin	ODI	5	0.52	2ND TSP	+0.02
		02/95	Bobbin	ODI	44	0.49	5TH TSP	-0.05
		02/95	Bobbin	ODI	80	0.35	4TH TSP	-0.02
		02/95	Bobbin	ODI	95	0.44	6TH TSP	-0.05
5	105	02/95	Bobbin	ODI	37	0.65	4TH TSP	-0.05
		02/95	Bobbin	ODI	49	0.67	3RD TSP	-0.07
		02/95	Bobbin	ODI	54	0.52	5TH TSP	-0.07
		02/95	Bobbin	ODI	56	0.37	7TH TSP	-0.10
		02/95	Bobbin	ODI	94	0.30	6TH TSP	-0.07
5	106	02/95	Bobbin	ODI	74	0.35	5TH TSP	-0.02

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

5	110	02/95	Bobbin	ODI	14	0.67	3RD TSP	+0.07
5	111	02/95	Bobbin	ODI	69	0.20	3RD TSP	-0.12
5	113	02/95	Bobbin	ODI	75	1.02	3RD TSP	+0.02
		02/95	H/L Speci	SAI		0.55	3RD TSP	+0.07
5	114	02/95	Bobbin	ODI	43	0.41	5TH TSP	-0.05
		02/95	Bobbin	ODI	76	0.74	3RD TSP	+0.00
6	1	02/95	Bobbin	ODI	1	0.83	12TH TSP	+36.73
		02/95	Bobbin	ODI	9	0.58	12TH TSP	+37.20
		02/95	C/L Speci	VOL		0.71	11TH TSP	-6.90
6	4	02/95	Bobbin	ODI	39	0.34	2ND TSP	+0.17
6	8	02/95	Bobbin	ODI	90	0.27	7TH TSP	+0.05
		02/95	Bobbin	ODI	97	0.26	3RD TSP	+0.02
6	9	02/95	Bobbin	ODI	44	0.38	2ND TSP	+0.07
6	11	02/95	Bobbin	ODI	89	0.70	2ND TSP	+0.07
6	12	02/95	Bobbin	ODI	96	1.05	2ND TSP	-0.02
		02/95	H/L Speci	SAI		0.70	2ND TSP	+0.01
6	14	02/95	Bobbin	ODI	10	0.38	2ND TSP	+0.14
		02/95	Bobbin	ODI	90	0.29	5TH TSP	+0.10
6	21	02/95	Bobbin	ODI	16	0.54	2ND TSP	+0.07
6	22	02/95	Bobbin	ODI	83	1.10	2ND TSP	+0.02
		02/95	H/L Tubes	VOL		0.43	TTS-HL	+1.88
6	24	02/95	Bobbin	ODI	16	0.31	2ND TSP	+0.05
6	30	02/95	Bobbin	ODI	21	0.60	4TH TSP	+0.07
		02/95	Bobbin	ODI	39	0.30	2ND TSP	+0.09
6	36	02/95	Bobbin	ODI	29	0.32	2ND TSP	+0.07
		02/95	Bobbin	ODI	37	0.39	3RD TSP	-0.05
6	40	02/95	Bobbin	ODI	1	0.34	4TH TSP	+0.14
		02/95	Bobbin	ODI	54	0.33	2ND TSP	+0.18
6	41	02/95	Bobbin	ODI	10	0.38	2ND TSP	+0.07
		02/95	Bobbin	ODI	89	0.43	4TH TSP	+0.05
6	42	02/95	Bobbin	ODI	4	0.53	2ND TSP	+0.02
		02/95	Bobbin	ODI	42	0.30	3RD TSP	-0.05
6	43	02/95	Bobbin	ODI	90	0.36	3RD TSP	+0.11
6	49	02/95	Bobbin	ODI	9	0.43	2ND TSP	+0.07
		02/95	Bobbin	ODI	27	0.41	4TH TSP	-0.02
		02/95	Bobbin	ODI	99	1.16	3RD TSP	+0.00
		02/95	H/L Speci	SAI		0.77	3RD TSP	-0.02
6	50	02/95	C/L Speci	VOL		0.28	13TH TSP	+1.84
6	51	02/95	Bobbin	ODI	67	0.80	4TH TSP	+0.07
		02/95	Bobbin	ODI	72	1.01	3RD TSP	+0.05
		02/95	Bobbin	ODI	80	0.78	2ND TSP	+0.11
		02/95	H/L Speci	MAI		0.75	3RD TSP	-0.04
		02/95	H/L Speci	SAI		0.90	4TH TSP	+0.06
6	52	02/95	Bobbin	ODI	22	0.46	4TH TSP	+0.05
		02/95	Bobbin	ODI	44	0.47	2ND TSP	+0.05
		02/95	Bobbin	ODI	52	0.34	5TH TSP	-0.41
		02/95	Bobbin	ODI	98	0.65	3RD TSP	+0.03
6	54	02/95	Bobbin	ODI	64	0.20	6TH TSP	+0.01
		02/95	Bobbin	ODI	72	0.36	7TH TSP	+0.04
		02/95	Bobbin	ODI	83	0.83	3RD TSP	+0.03
		02/95	Bobbin	ODI	86	0.70	2ND TSP	+0.06
		02/95	Bobbin	ODI	87	0.63	4TH TSP	+0.04
		02/95	Bobbin	ODI	92	0.66	5TH TSP	+0.08
		02/95	C/L Speci	VOL		0.72	9TH TSP	-4.85
		02/95	H/L Speci	MAI		0.54	3RD TSP	-0.15
6	56	02/95	Bobbin	ODI	19	0.42	3RD TSP	+0.23
6	57	02/95	Bobbin	ODI	91	0.52	4TH TSP	+0.03
6	60	02/95	Bobbin	ODI	42	0.39	2ND TSP	+0.16
6	63	02/95	Bobbin	NQI		10.94	22ND TSP	+16.41
		02/95	Bobbin	ODI	67	0.27	6TH TSP	+0.14
		02/95	Bobbin	ODI	74	0.53	2ND TSP	+0.09
		02/95	Bobbin	ODI	95	1.12	3RD TSP	+0.00
		02/95	Bobbin	ODI	97	0.74	4TH TSP	+0.12
		02/95	H/L Speci	MAI		0.57	3RD TSP	+0.03
		02/95	C/L Speci	VOL		2.87	21ST TSP	-3.59

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
6	64	02/95	Bobbin	ODI	67	0.46	2ND TSP		+0.14
		02/95	Bobbin	ODI	90	0.38	4TH TSP		+0.09
		02/95	Bobbin	ODI	91	1.06	3RD TSP		+0.00
		02/95	H/L Speci	MAI		0.61	3RD TSP		+0.02
6	67	02/95	Bobbin	ODI	97	1.13	4TH TSP		+0.07
		02/95	Bobbin	ODI	98	0.95	3RD TSP		+0.00
		02/95	H/L Speci	SAI		0.21	3RD TSP		+0.00
		02/95	H/L Speci	SAI		0.47	4TH TSP		+0.08
6	69	02/95	Bobbin	ODI	47	0.41	3RD TSP		+0.14
		02/95	Bobbin	ODI	57	0.45	5TH TSP		+0.05
		02/95	Bobbin	ODI	81	2.40	2ND TSP		+0.14
		02/95	Bobbin	ODI	91	0.76	4TH TSP		-0.02
		02/95	H/L Speci	SAI		3.10	2ND TSP		+0.04
6	70	02/95	Bobbin	ODI	87	0.82	2ND TSP		+0.14
		02/95	Bobbin	ODI	89	0.55	5TH TSP		+0.14
		02/95	Bobbin	ODI	91	0.50	6TH TSP		+0.07
		02/95	Bobbin	ODI	99	0.66	4TH TSP		+0.07
		02/95	Bobbin	ODI	99	0.98	3RD TSP		+0.07
		02/95	H/L Speci	MAI		0.22	3RD TSP		-0.17
		02/95	H/L Speci	MAI		0.31	2ND TSP		+0.10
6	71	02/95	Bobbin	ODI	27	0.37	3RD TSP		-0.02
		02/95	Bobbin	ODI	57	0.39	2ND TSP		+0.13
		02/95	Bobbin	ODI	64	0.53	4TH TSP		+0.09
6	74	02/95	Bobbin	NQI		0.27	6TH TSP		+36.28
		02/95	Bobbin	ODI	87	0.47	4TH TSP		+0.12
		02/95	Bobbin	ODI	87	0.48	3RD TSP		-0.02
		02/95	Bobbin	ODI	90	0.23	2ND TSP		+0.14
		02/95	H/L Speci	VOL		0.57	7TH TSP		-7.85
6	76	02/95	Bobbin	ODI	20	0.28	3RD TSP		+0.18
		02/95	Bobbin	ODI	30	0.29	5TH TSP		-0.04
		02/95	Bobbin	ODI	66	0.60	2ND TSP		+0.17
		02/95	Bobbin	ODI	81	1.58	4TH TSP		+0.11
		02/95	H/L Speci	SAI		1.54	4TH TSP		+0.00
6	81	02/95	Bobbin	ODI	51	0.49	2ND TSP		+0.04
		02/95	Bobbin	ODI	57	0.40	4TH TSP		+0.09
		02/95	H/L Speci	SAI		0.22	3RD TSP		-0.15
6	82	02/95	Bobbin	ODI	34	0.49	2ND TSP		+0.18
		02/95	Bobbin	ODI	69	0.56	3RD TSP		+0.04
		02/95	Bobbin	ODI	98	0.64	4TH TSP		+0.11
6	87	02/95	Bobbin	ODI	51	0.42	4TH TSP		+0.05
6	88	02/95	Bobbin	ODI	61	0.54	3RD TSP		+0.09
6	91	02/95	Bobbin	ODI	91	0.45	2ND TSP		+0.02
6	94	02/95	Bobbin	ODI	36	0.31	5TH TSP		+0.14
		02/95	Bobbin	ODI	49	0.32	2ND TSP		+0.00
		02/95	Bobbin	ODI	91	4.56	3RD TSP		+0.00
		02/95	H/L Speci	SAI		4.28	3RD TSP		+0.02
6	95	02/95	Bobbin	NQI		0.55	3RD TSP		+14.88
		02/95	Bobbin	ODI	15	0.50	3RD TSP		+17.53
		02/95	Bobbin	ODI	47	0.43	2ND TSP		+0.05
		02/95	Bobbin	ODI	79	0.23	4TH TSP		+0.00
		02/95	H/L Speci	VOL		0.52	3RD TSP		+17.41
		02/95	H/L Speci	VOL		0.83	3RD TSP		+14.82
6	108	02/95	Bobbin	ODI	83	0.74	5TH TSP		+0.09
6	110	02/95	Bobbin	ODI	50	0.30	5TH TSP		+0.07
6	112	02/95	H/L Tubes	VOL		0.76	TTS-HL		-4.43
		02/95	H/L Tubes	VOL		1.16	TTS-HL		-1.03
		02/95	H/L Tubes	VOL		1.19	TTS-HL		+0.80
7	3	02/95	Bobbin	ODI	41	0.36	2ND TSP		+0.04
		02/95	Bobbin	ODI	54	0.68	3RD TSP		+0.14
7	4	02/95	Bobbin	ODI	22	0.31	2ND TSP		+0.01
7	5	02/95	Bobbin	ODI	56	0.63	3RD TSP		+0.04
7	6	02/95	Bobbin	ODI	81	0.84	3RD TSP		+0.04
		02/95	H/L Speci	MAI		0.75	3RD TSP		-0.03
7	7	02/95	Bobbin	ODI	49	0.39	2ND TSP		+0.03
7	9	02/95	Bobbin	ODI	52	0.72	2ND TSP		+0.00

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

7	10	02/95	Bobbin	ODI	60	0.66	2ND TSP	-0.03
7	12	02/95	Bobbin	ODI	75	0.74	2ND TSP	+0.00
		02/95	Bobbin	ODI	99	0.41	3RD TSP	-0.01
7	13	02/95	Bobbin	ODI	66	0.85	2ND TSP	+0.01
		02/95	H/L Speci	MAI		0.59	2ND TSP	-0.02
7	16	02/95	Bobbin	NQI		0.54	12TH TSP	-0.03
		02/95	Bobbin	ODI	74	0.21	7TH TSP	+0.04
		02/95	Bobbin	ODI	80	0.54	2ND TSP	+0.12
7	18	02/95	Bobbin	ODI	83	1.19	2ND TSP	+0.06
		02/95	H/L Speci	MAI		0.32	2ND TSP	+0.02
7	25	02/95	Bobbin	ODI	83	0.58	2ND TSP	+0.07
7	30	02/95	Bobbin	ODI	77	0.63	4TH TSP	+0.07
		02/95	Bobbin	ODI	81	0.44	6TH TSP	+0.00
		02/95	Bobbin	ODI	92	0.76	2ND TSP	+0.03
7	33	02/95	Bobbin	ODI	57	0.80	4TH TSP	+0.06
		02/95	Bobbin	ODI	95	0.44	3RD TSP	+0.03
		02/95	H/L Speci	SAI		0.60	4TH TSP	-0.09
7	34	02/95	Bobbin	ODI	88	0.57	2ND TSP	+0.08
7	35	02/95	Bobbin	ODI	1	0.54	5TH TSP	+0.07
		02/95	Bobbin	ODI	33	0.73	3RD TSP	+0.07
		02/95	Bobbin	ODI	68	0.65	2ND TSP	+0.18
7	38	02/95	Bobbin	ODI	73	0.51	5TH TSP	+0.01
		02/95	Bobbin	ODI	80	0.50	4TH TSP	+0.03
		02/95	Bobbin	ODI	83	0.76	2ND TSP	+0.00
		02/95	Bobbin	ODI	96	0.65	3RD TSP	+0.09
7	42	02/95	Bobbin	ODI	68	0.87	2ND TSP	+0.07
		02/95	Bobbin	ODI	74	1.30	3RD TSP	+0.08
		02/95	H/L Speci	MAI		0.67	3RD TSP	-0.01
		02/95	H/L Speci	MAI		0.87	2ND TSP	-0.01
7	44	02/95	Bobbin	ODI	29	0.73	2ND TSP	+0.10
		02/95	Bobbin	ODI	86	0.23	5TH TSP	+0.01
		02/95	Bobbin	ODI	94	0.47	3RD TSP	+0.00
7	46	02/95	Bobbin	ODI	61	0.46	2ND TSP	+0.01
		02/95	Bobbin	ODI	92	0.69	3RD TSP	+0.01
		02/95	Bobbin	ODI	94	0.39	4TH TSP	+0.17
7	48	02/95	Bobbin	ODI	1	0.87	3RD TSP	+0.09
		02/95	Bobbin	ODI	51	0.34	4TH TSP	+0.07
		02/95	Bobbin	ODI	58	0.32	5TH TSP	+0.12
7	49	02/95	Bobbin	ODI	45	0.78	3RD TSP	+0.05
7	52	02/95	C/L Speci	VOL		0.45	18TH TSP	+2.12
7	53	02/95	Bobbin	ODI	16	1.56	22ND TSP	+1.37
		02/95	C/L Speci	VOL		0.29	22ND TSP	+1.14
7	54	02/95	Bobbin	ODI	88	0.60	2ND TSP	+0.18
7	55	02/95	Bobbin	ODI	95	0.32	2ND TSP	+0.07
7	56	02/95	Bobbin	ODI	22	0.31	2ND TSP	+0.09
		02/95	Bobbin	ODI	61	0.48	3RD TSP	-0.17
		02/95	Bobbin	ODI	63	0.67	4TH TSP	+0.06
7	63	02/95	Bobbin	ODI	53	0.43	5TH TSP	+0.12
		02/95	Bobbin	ODI	67	0.45	3RD TSP	+0.11
		02/95	Bobbin	ODI	68	0.87	2ND TSP	+0.00
		02/95	Bobbin	ODI	89	0.58	6TH TSP	+0.05
		02/95	Bobbin	ODI	99	0.82	4TH TSP	+0.12
		02/95	H/L Speci	SAI		0.97	2ND TSP	+0.00
7	74	02/95	Bobbin	ODI	86	0.37	3RD TSP	-0.04
7	79	02/95	Bobbin	ODI	62	1.21	3RD TSP	+0.00
		02/95	Bobbin	ODI	82	0.41	2ND TSP	+0.20
		02/95	Bobbin	ODI	84	0.57	4TH TSP	+0.20
		02/95	Bobbin	ODI	99	0.37	5TH TSP	+0.11
		02/95	H/L Speci	MAI		0.78	3RD TSP	-0.06
7	83	02/95	Bobbin	ODI	34	0.43	2ND TSP	+0.10
		02/95	Bobbin	ODI	39	0.26	4TH TSP	+0.02
		02/95	Bobbin	ODI	91	0.90	3RD TSP	+0.00
		02/95	H/L Speci	SAI		0.49	3RD TSP	+0.00
7	84	02/95	Bobbin	ODI	57	0.45	5TH TSP	+0.20
		02/95	Bobbin	ODI	74	1.10	3RD TSP	+0.18

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02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	H/L Speci	MAI		1.11	2ND TSP	+0.12
9	80	02/95	Bobbin	ODI	86	1.03 2ND TSP	+0.13
	02/95	Bobbin	ODI	92	1.29 3RD TSP		+0.10
	02/95	H/L Speci	MAI		0.89 2ND TSP		+0.03
	02/95	H/L Speci	SAI		0.88 3RD TSP		+0.10
9	81	02/95	Bobbin	ODI	85	0.32 2ND TSP	+0.05
	02/95	Bobbin	ODI	88	0.68 4TH TSP		+0.02
	02/95	Bobbin	ODI	96	0.42 3RD TSP		+0.14
9	85	02/95	Bobbin	ODI	33	0.23 2ND TSP	+0.09
	02/95	Bobbin	ODI	71	0.20 3RD TSP		+0.07
9	88	02/95	Bobbin	ODI	52	0.21 3RD TSP	-0.02
9	91	02/95	Bobbin	ODI	9	0.15 4TH TSP	-0.07
9	93	02/95	Bobbin	ODI	1	0.34 7TH TSP	+0.11
	02/95	Bobbin	ODI	1	1.13 2ND TSP		+0.04
	02/95	Bobbin	ODI	17	1.00 5TH TSP		+0.02
	02/95	Bobbin	ODI	63	1.29 3RD TSP		+0.00
	02/95	Bobbin	ODI	67	0.52 4TH TSP		-0.09
9	94	02/95	Bobbin	ODI	88	0.61 3RD TSP	+0.05
9	95	02/95	Bobbin	ODI	94	0.31 3RD TSP	+0.17
9	100	02/95	Bobbin	ODI	88	0.81 3RD TSP	+0.20
	02/95	H/L Speci	MAI		0.77 3RD TSP		+0.00
9	101	02/95	Bobbin	ODI	11	0.97 5TH TSP	+0.06
	02/95	H/L Speci	VOL		0.18 4TH TSP		-0.06
9	104	02/95	Bobbin	ODI	9	0.60 2ND TSP	+0.19
	02/95	Bobbin	ODI	83	0.56 3RD TSP		+0.07
9	111	02/95	Bobbin	ODI	91	0.31 3RD TSP	+0.12
	02/95	Bobbin	ODI	94	0.37 2ND TSP		+0.02
9	113	02/95	Bobbin	ODI	75	0.24 3RD TSP	+0.05
10	4	02/95	Bobbin	ODI	59	0.62 2ND TSP	+0.12
10	18	02/95	Bobbin	ODI	13	1.27 2ND TSP	-0.47
	02/95	H/L Speci	VOL		0.76 2ND TSP		-4.63
10	28	02/95	Bobbin	ODI	33	0.90 3RD TSP	+0.19
	02/95	C/L Speci	VOL		0.27 10TH TSP		+20.15
	02/95	C/L Speci	VOL		0.44 10TH TSP		+30.71
10	29	02/95	Bobbin	ODI	1	0.38 3RD TSP	+0.28
10	42	02/95	Bobbin	ODI	88	0.78 3RD TSP	+0.12
10	58	02/95	Bobbin	ODI	56	0.25 2ND TSP	+0.05
	02/95	Bobbin	ODI	93	0.44 3RD TSP		+0.00
10	59	02/95	Bobbin	ODI	32	0.86 4TH TSP	+0.00
	02/95	Bobbin	ODI	67	0.28 7TH TSP		+0.09
	02/95	Bobbin	ODI	91	1.03 3RD TSP		+0.04
	02/95	Bobbin	ODI	92	0.55 5TH TSP		+0.16
	02/95	Bobbin	ODI	93	0.47 6TH TSP		-0.06
	02/95	H/L Speci	MAI		0.45 3RD TSP		+0.00
	02/95	H/L Speci	VOL		0.60 4TH TSP		-0.14
10	61	02/95	Bobbin	ODI	11	0.73 3RD TSP	+0.19
	02/95	Bobbin	ODI	45	0.53 5TH TSP		+0.08
	02/95	Bobbin	ODI	91	0.45 4TH TSP		+0.09
	02/95	Bobbin	ODI	94	0.73 2ND TSP		+0.06
10	62	02/95	Bobbin	ODI	9	0.15 4TH TSP	+0.12
	02/95	Bobbin	ODI	27	0.16 6TH TSP		-0.24
	02/95	Bobbin	ODI	67	0.63 2ND TSP		+0.07
	02/95	Bobbin	ODI	97	0.59 3RD TSP		+0.12
10	65	02/95	Bobbin	ODI	46	0.39 2ND TSP	-0.02
	02/95	Bobbin	ODI	83	0.32 3RD TSP		+0.12
10	70	02/95	Bobbin	ODI	1	0.38 3RD TSP	+0.24
	02/95	Bobbin	ODI	46	0.33 2ND TSP		+0.10
10	71	02/95	U-Bend	VOL		0.47 8TH TSP	+4.25
	02/95	Bobbin	ODI	20	0.44 3RD TSP		+0.17
	02/95	Bobbin	ODI	40	0.89 2ND TSP		+0.05
10	76	02/95	Bobbin	ODI	29	0.43 2ND TSP	+0.10
	02/95	Bobbin	ODI	78	1.38 3RD TSP		+0.10
	02/95	Bobbin	ODI	86	0.50 4TH TSP		+0.12
	02/95	H/L Speci	MAI		0.77 3RD TSP		-0.01
10	77	02/95	Bobbin	ODI	88	0.30 4TH TSP	+0.05

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	27	1.72	11TH TSP	+21.87
		02/95	C/L Spec	VOL		0.83	11TH TSP	+21.40
10	78	02/95	Bobbin	ODI	22	0.16	2ND TSP	+0.12
10	88	02/95	Bobbin	ODI	12	1.15	5TH TSP	+1.31
		02/95	Bobbin	ODI	9	1.06	18TH TSP	+14.10
		02/95	H/L Spec	VOL		0.65	5TH TSP	+1.84
		02/95	C/L Spec	VOL		0.67	17TH TSP	-8.62
10	92	02/95	Bobbin	ODI	11	2.15	19TH TSP	+3.19
		02/95	C/L Spec	VOL		0.92	19TH TSP	+4.00
10	95	02/95	Bobbin	ODI	1	0.26	5TH TSP	-0.17
		02/95	Bobbin	ODI	1	0.41	2ND TSP	+0.00
		02/95	Bobbin	ODI	15	0.61	3RD TSP	+0.15
		02/95	Bobbin	ODI	23	0.47	4TH TSP	-0.15
		02/95	Bobbin	ODI	84	0.29	7TH TSP	-0.15
10	97	02/95	Bobbin	ODI	13	2.08	3RD TSP	+26.04
		02/95	Bobbin	ODI	5	1.20	11TH TSP	+24.77
		02/95	H/L Spec	VOL		0.95	3RD TSP	+25.80
10	98	02/95	Bobbin	ODI	15	0.80	11TH TSP	+41.99
		02/95	C/L Spec	VOL		1.56	10TH TSP	-3.44
10	102	02/95	U-Bend	VOL		0.54	8TH TSP	+4.96
10	105	02/95	Bobbin	ODI	10	1.62	3RD TSP	+1.31
		02/95	Bobbin	ODI	27	2.22	3RD TSP	+36.35
		02/95	Bobbin	ODI	93	0.33	3RD TSP	-0.23
		02/95	H/L Spec	VOL		0.37	3RD TSP	+1.81
		02/95	H/L Spec	VOL		0.72	4TH TSP	-6.17
10	106	02/95	Bobbin	ODI	44	1.01	3RD TSP	+0.10
		02/95	H/L Spec	VOL		0.80	1ST TSP	+15.31
10	108	02/95	Bobbin	ODI	1	0.56	4TH TSP	+0.07
10	109	02/95	Bobbin	ODI	28	1.14	3RD TSP	+0.00
		02/95	Bobbin	ODI	85	0.38	2ND TSP	+0.12
		02/95	Bobbin	ODI	9	0.41	18TH TSP	+0.66
		02/95	C/L Spec	VOL		0.43	18TH TSP	+0.78
10	111	02/95	Bobbin	ODI	16	2.27	11TH TSP	+31.02
		02/95	C/L Spec	VOL		0.55	10TH TSP	-13.27
10	113	02/95	Bobbin	ODI	85	0.21	5TH TSP	+0.10
11	6	02/95	Bobbin	ODI	69	0.42	3RD TSP	+0.07
		02/95	Bobbin	ODI	85	0.73	2ND TSP	+0.23
11	9	02/95	Bobbin	ODI	55	1.17	3RD TSP	+0.05
		02/95	H/L Spec	MAI		1.09	3RD TSP	-0.09
11	10	02/95	Bobbin	ODI	81	0.79	3RD TSP	+0.09
		02/95	Bobbin	ODI	90	2.13	2ND TSP	+0.11
		02/95	H/L Spec	MAI		1.71	2ND TSP	+0.01
11	11	02/95	Bobbin	ODI	8	2.78	2ND TSP	+11.93
		02/95	Bobbin	ODI	84	1.19	3RD TSP	+0.14
		02/95	H/L Spec	SAI		1.03	3RD TSP	-0.03
		02/95	H/L Spec	VOL		0.30	2ND TSP	+11.33
11	12	02/95	Bobbin	ODI	42	0.62	2ND TSP	+0.05
		02/95	Bobbin	ODI	71	0.71	3RD TSP	+0.02
11	14	02/95	Bobbin	NQI		0.68	21ST TSP	+2.02
		02/95	Bobbin	ODI	9	0.55	4TH TSP	-0.02
		02/95	Bobbin	ODI	81	0.70	3RD TSP	+0.05
		02/95	C/L Spec	VOL		0.95	21ST TSP	+2.45
11	17	02/95	Bobbin	ODI	62	0.81	5TH TSP	+0.00
		02/95	Bobbin	ODI	66	1.13	3RD TSP	+0.00
		02/95	Bobbin	ODI	95	0.30	4TH TSP	+0.05
		02/95	H/L Spec	MAI		0.87	3RD TSP	+0.00
11	18	02/95	Bobbin	ODI	35	0.18	3RD TSP	+0.02
		02/95	Bobbin	ODI	87	0.28	4TH TSP	+0.14
11	19	02/95	Bobbin	ODI	21	0.84	2ND TSP	+4.49
		02/95	H/L Spec	VOL		0.51	2ND TSP	+4.66
11	20	02/95	Bobbin	ODI	84	0.85	3RD TSP	+0.14
11	21	02/95	Bobbin	ODI	45	0.27	5TH TSP	-0.18
11	22	02/95	Bobbin	ODI	51	0.47	4TH TSP	-0.02
11	23	02/95	Bobbin	ODI	1	0.32	2ND TSP	+0.11
11	24	02/95	Bobbin	ODI	88	0.64	4TH TSP	-0.16

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	94	0.27	2ND TSP	+0.11
11	25	02/95	Bobbin	ODI	60	0.28	4TH TSP	+0.09
11	26	02/95	Bobbin	ODI	97	0.85	2ND TSP	+0.14
		02/95	H/L Speci	SAI		0.42	2ND TSP	+0.01
11	27	02/95	Bobbin	ODI	74	0.30	2ND TSP	+0.21
11	28	02/95	Bobbin	NQI		0.26	7TH TSP	+22.41
		02/95	Bobbin	NQI		0.38	7TH TSP	+19.90
		02/95	Bobbin	NQI		0.78	7TH TSP	+26.83
		02/95	Bobbin	ODI	8	0.42	7TH TSP	+23.54
		02/95	Bobbin	ODI	10	0.82	5TH TSP	+7.24
		02/95	Bobbin	ODI	10	0.82	5TH TSP	+7.40
		02/95	Bobbin	ODI	28	0.77	7TH TSP	+26.80
		02/95	H/L Speci	VOL		0.31	7TH TSP	+23.19
		02/95	H/L Speci	VOL		0.77	5TH TSP	+6.74
		02/95	H/L Speci	VOL		0.88	7TH TSP	+19.52
		02/95	H/L Speci	VOL		1.42	7TH TSP	+26.21
		02/95	H/L Speci	VOL		1.58	7TH TSP	+22.16
11	29	02/95	Bobbin	ODI	84	0.56	2ND TSP	+0.05
		02/95	Bobbin	ODI	93	0.57	3RD TSP	-0.05
11	30	02/95	H/L Speci	VOL		0.38	3RD TSP	+37.58
11	41	02/95	Bobbin	ODI	1	0.61	2ND TSP	+0.18
11	42	02/95	Bobbin	NQI		0.43	22ND TSP	+17.46
		02/95	Bobbin	ODI	1	0.59	7TH TSP	+0.00
		02/95	Bobbin	ODI	60	0.37	3RD TSP	+0.23
		02/95	Bobbin	ODI	69	0.90	2ND TSP	+0.12
		02/95	Bobbin	ODI	2	1.02	11TH TSP	+32.09
		02/95	Bobbin	ODI	10	0.73	11TH TSP	+9.04
		02/95	H/L Speci	SAI		0.48	2ND TSP	-0.05
		02/95	C/L Speci	VOL		0.23	21ST TSP	-5.13
		02/95	C/L Speci	VOL		0.26	15TH TSP	+6.73
		02/95	C/L Speci	VOL		0.54	11TH TSP	+32.53
		02/95	C/L Speci	VOL		0.65	21ST TSP	-2.57
11	43	02/95	Bobbin	ODI	68	0.48	5TH TSP	+0.02
11	45	02/95	Bobbin	ODI	25	0.16	7TH TSP	-0.21
		02/95	Bobbin	ODI	33	0.29	2ND TSP	+0.00
		02/95	Bobbin	ODI	87	0.45	3RD TSP	+0.11
11	46	02/95	Bobbin	ODI	99	0.70	2ND TSP	+0.02
11	48	02/95	Bobbin	ODI	98	0.84	3RD TSP	+0.16
		02/95	H/L Speci	SAI		0.66	3RD TSP	+0.06
11	49	02/95	Bobbin	ODI	63	0.48	3RD TSP	+0.16
		02/95	Bobbin	ODI	8	0.86	12TH TSP	+24.73
		02/95	C/L Speci	VOL		1.17	11TH TSP	-20.31
11	51	02/95	C/L Speci	VOL		0.33	12TH TSP	+7.48
11	52	02/95	Bobbin	NQI		0.29	13TH TSP	+0.02
		02/95	Bobbin	ODI	76	0.55	2ND TSP	+0.07
		02/95	H/L Speci	VOL		0.50	5TH TSP	+9.32
		02/95	H/L Speci	VOL		0.69	5TH TSP	+6.02
		02/95	H/L Speci	VOL		0.73	5TH TSP	+3.68
11	53	02/95	Bobbin	ODI	84	0.68	2ND TSP	-0.02
11	61	02/95	Bobbin	ODI	43	0.25	3RD TSP	+0.10
		02/95	Bobbin	ODI	90	0.45	4TH TSP	+0.15
11	63	02/95	Bobbin	ODI	13	0.23	4TH TSP	-0.10
		02/95	Bobbin	ODI	32	0.86	3RD TSP	+0.27
		02/95	Bobbin	ODI	98	0.49	5TH TSP	-0.15
		02/95	H/L Speci	SAI		0.39	3RD TSP	+0.02
11	64	02/95	Bobbin	ODI	4	1.66	6TH TSP	+13.63
		02/95	Bobbin	ODI	7	0.73	5TH TSP	+8.51
		02/95	H/L Speci	VOL		0.26	5TH TSP	+9.46
		02/95	H/L Speci	VOL		0.28	6TH TSP	+14.21
11	65	02/95	Bobbin	ODI	55	0.17	4TH TSP	+0.15
		02/95	Bobbin	ODI	87	0.35	3RD TSP	+0.15
		02/95	Bobbin	ODI	91	0.32	2ND TSP	+0.02
11	69	02/95	Bobbin	ODI	84	1.59	2ND TSP	+0.00
		02/95	Bobbin	ODI	16	3.57	15TH TSP	+6.26
		02/95	H/L Speci	MAI		1.25	2ND TSP	-0.01

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S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	C/L Speci	VOL		1.46	15TH TSP	+7.01
11	74	02/95	Bobbin	ODI	96	0.60	3RD TSP	+0.24
11	76	02/95	H/L Speci	VOL		0.43	4TH TSP	-13.38
11	79	02/95	Bobbin	ODI	26	0.24	2ND TSP	+0.14
11	80	02/95	Bobbin	ODI	19	1.36	13TH TSP	+8.23
		02/95	C/L Speci	VOL		0.40	12TH TSP	-13.83
11	85	02/95	Bobbin	ODI	1	0.23	7TH TSP	-0.24
		02/95	Bobbin	ODI	59	0.68	3RD TSP	+0.15
		02/95	Bobbin	ODI	61	0.41	5TH TSP	-0.07
		02/95	Bobbin	ODI	67	0.43	2ND TSP	+0.09
		02/95	Bobbin	ODI	78	0.19	4TH TSP	-0.14
11	88	02/95	Bobbin	ODI	19	0.65	6TH TSP	+1.25
		02/95	Bobbin	ODI	2	1.67	12TH TSP	+1.31
		02/95	H/L Speci	VOL		0.10	6TH TSP	+1.52
		02/95	H/L Speci	VOL		0.53	5TH TSP	+3.06
		02/95	C/L Speci	VOL		0.32	12TH TSP	+1.09
11	89	02/95	Bobbin	ODI	15	1.28	TTS-HL	+4.51
		02/95	Bobbin	ODI	91	0.16	4TH TSP	+0.00
		02/95	Bobbin	ODI	9	1.28	10TH TSP	+32.96
		02/95	H/L Speci	VOL		0.59	TTS-HL	+4.47
11	90	02/95	Bobbin	ODI	57	0.96	3RD TSP	+0.27
		02/95	H/L Speci	VOL		0.67	3RD TSP	+26.61
11	95	02/95	C/L Speci	VOL		0.32	21ST TSP	-4.09
11	96	02/95	Bobbin	ODI	42	0.23	4TH TSP	-0.17
11	100	02/95	Bobbin	ODI	43	0.19	2ND TSP	+0.13
11	104	02/95	Bobbin	ODI	11	0.59	5TH TSP	-0.10
		02/95	Bobbin	ODI	27	0.62	4TH TSP	-0.35
		02/95	Bobbin	ODI	79	0.35	2ND TSP	+0.17
11	106	02/95	Bobbin	NQI		39.59	TE-HL	+13.99
11	108	02/95	Bobbin	ODI	1	0.59	5TH TSP	-0.15
		02/95	Bobbin	ODI	12	0.60	3RD TSP	-0.30
		02/95	Bobbin	ODI	69	0.36	4TH TSP	-0.20
		02/95	Bobbin	ODI	96	0.66	2ND TSP	-0.05
11	109	02/95	Bobbin	ODI	59	0.56	2ND TSP	+0.26
		02/95	Bobbin	ODI	78	0.47	4TH TSP	-0.22
		02/95	Bobbin	ODI	88	0.49	3RD TSP	-0.17
12	5	02/95	Bobbin	ODI	64	0.56	3RD TSP	-0.04
		02/95	Bobbin	ODI	90	0.65	2ND TSP	+0.07
12	6	02/95	Bobbin	ODI	90	0.86	2ND TSP	+0.09
		02/95	Bobbin	ODI	99	0.70	3RD TSP	+0.00
		02/95	H/L Speci	SAI		0.13	2ND TSP	+0.03
12	10	02/95	Bobbin	ODI	78	0.62	2ND TSP	+0.18
12	12	02/95	Bobbin	ODI	88	0.36	3RD TSP	+0.11
		02/95	Bobbin	ODI	94	1.33	2ND TSP	+0.09
		02/95	H/L Speci	SAI		1.50	2ND TSP	+0.04
12	13	02/95	Bobbin	ODI	98	1.27	2ND TSP	+0.02
		02/95	H/L Speci	MAI		0.76	2ND TSP	-0.10
12	15	02/95	Bobbin	ODI	82	0.68	3RD TSP	+0.09
12	16	02/95	Bobbin	ODI	97	0.96	2ND TSP	+0.07
		02/95	H/L Speci	MAI		0.37	2ND TSP	-0.07
12	18	02/95	Bobbin	ODI	96	0.51	5TH TSP	-0.16
12	21	02/95	Bobbin	ODI	37	0.47	3RD TSP	+0.13
12	22	02/95	Bobbin	ODI	66	0.83	2ND TSP	+0.13
12	23	02/95	Bobbin	ODI	1	0.55	3RD TSP	+0.20
		02/95	Bobbin	ODI	69	0.45	4TH TSP	-0.26
		02/95	Bobbin	ODI	92	0.22	2ND TSP	+0.11
12	32	02/95	Bobbin	ODI	92	0.50	2ND TSP	+0.14
12	33	02/95	Bobbin	ODI	7	0.61	11TH TSP	+9.68
		02/95	C/L Speci	VOL		0.44	11TH TSP	+9.79
		02/95	C/L Speci	VOL		0.48	11TH TSP	+11.92
12	34	02/95	Bobbin	ODI	6	0.72	22ND TSP	+10.57
		02/95	Bobbin	ODI	29	0.80	20TH TSP	+3.23
		02/95	C/L Speci	VOL		0.53	20TH TSP	+3.37
		02/95	C/L Speci	VOL		1.00	22ND TSP	+10.46
12	35	02/95	Bobbin	ODI	93	0.36	2ND TSP	+0.07

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

12	39	02/95	Bobbin	ODI	60	0.35	2ND TSP	+0.18
		02/95	Bobbin	ODI	62	0.43	4TH TSP	-0.05
12	40	02/95	Bobbin	ODI	84	2.63	2ND TSP	+0.09
		02/95	H/L Speci	SAI		2.91	2ND TSP	+0.10
12	41	02/95	Bobbin	ODI	43	0.46	4TH TSP	-0.07
12	42	02/95	Bobbin	ODI	12	1.48	11TH TSP	+18.65
		02/95	Bobbin	ODI	20	0.71	22ND TSP	+12.35
		02/95	C/L Speci	VOL		0.75	22ND TSP	+12.37
		02/95	C/L Speci	VOL		0.98	11TH TSP	+18.61
		02/95	C/L Speci	VOL		1.12	22ND TSP	+9.50
		02/95	C/L Speci	VOL		1.42	22ND TSP	+7.30
12	45	02/95	Bobbin	ODI	22	0.65	4TH TSP	-0.09
		02/95	Bobbin	ODI	37	0.34	2ND TSP	+0.00
		02/95	Bobbin	ODI	56	0.29	3RD TSP	+0.07
12	47	02/95	Bobbin	ODI	6	0.36	3RD TSP	-0.02
		02/95	Bobbin	ODI	42	0.41	2ND TSP	+0.02
		02/95	Bobbin	ODI	52	0.54	4TH TSP	-0.13
		02/95	Bobbin	ODI	56	0.32	5TH TSP	+0.11
		02/95	Bobbin	ODI	9	0.78	12TH TSP	+14.23
		02/95	Bobbin	ODI	17	1.56	12TH TSP	+13.16
		02/95	C/L Speci	VOL		0.63	12TH TSP	+14.34
		02/95	C/L Speci	VOL		1.13	12TH TSP	+13.14
12	51	02/95	Bobbin	ODI	10	1.20	3RD TSP	+0.11
		02/95	Bobbin	ODI	68	0.60	2ND TSP	-0.04
12	53	02/95	Bobbin	ODI	1	1.14	2ND TSP	+0.07
		02/95	Bobbin	ODI	7	0.71	3RD TSP	+0.11
		02/95	Bobbin	ODI	32	0.53	4TH TSP	+0.11
12	54	02/95	Bobbin	ODI	73	0.47	3RD TSP	+0.00
12	60	02/95	Bobbin	ODI	43	0.26	4TH TSP	+0.15
12	63	02/95	Bobbin	NQI		1.26	7TH TSP	+41.94
		02/95	Bobbin	ODI	89	0.67	2ND TSP	+0.15
		02/95	Bobbin	ODI	96	0.30	4TH TSP	-0.05
		02/95	H/L Speci	VOL		2.33	8TH TSP	-1.64
12	65	02/95	Bobbin	ODI	1	0.42	4TH TSP	-0.27
		02/95	Bobbin	ODI	53	0.27	6TH TSP	-0.24
		02/95	Bobbin	ODI	69	0.67	2ND TSP	+0.10
12	69	02/95	Bobbin	ODI	1	0.67	6TH TSP	-0.27
		02/95	Bobbin	ODI	7	0.66	5TH TSP	-0.07
		02/95	Bobbin	ODI	55	0.44	4TH TSP	+0.12
12	72	02/95	Bobbin	ODI	84	1.25	2ND TSP	+0.17
		02/95	H/L Speci	SAI		1.01	2ND TSP	+0.00
12	73	02/95	Bobbin	ODI	70	0.40	3RD TSP	+0.05
12	74	02/95	Bobbin	ODI	32	0.29	4TH TSP	-0.07
		02/95	Bobbin	ODI	87	0.69	3RD TSP	+0.17
		02/95	Bobbin	ODI	90	0.53	2ND TSP	+0.07
12	75	02/95	Bobbin	ODI	80	0.34	2ND TSP	+0.12
		02/95	H/L Speci	VOL		1.20	6TH TSP	-8.79
		02/95	H/L Speci	VOL		1.37	6TH TSP	-7.46
12	77	02/95	Bobbin	ODI	83	0.63	3RD TSP	+0.12
12	78	02/95	Bobbin	ODI	34	0.62	3RD TSP	+0.20
		02/95	Bobbin	ODI	51	0.26	2ND TSP	+0.07
12	81	02/95	Bobbin	ODI	11	0.98	3RD TSP	+0.27
12	82	02/95	Bobbin	ODI	75	0.79	3RD TSP	+0.10
12	85	02/95	Bobbin	ODI	77	0.75	2ND TSP	+0.00
		02/95	Bobbin	ODI	81	0.30	3RD TSP	+0.02
12	86	02/95	Bobbin	ODI	3	0.44	5TH TSP	+0.10
		02/95	Bobbin	ODI	53	0.62	4TH TSP	-0.17
		02/95	Bobbin	ODI	67	0.58	3RD TSP	+0.10
		02/95	Bobbin	ODI	97	0.37	7TH TSP	+0.00
12	87	02/95	Bobbin	ODI	87	0.74	2ND TSP	+0.00
12	88	02/95	Bobbin	ODI	6	0.32	3RD TSP	+0.05
		02/95	Bobbin	ODI	10	0.93	2ND TSP	+0.17
12	91	02/95	Bobbin	ODI	66	0.44	4TH TSP	-0.12
12	92	02/95	Bobbin	ODI	1	0.81	4TH TSP	+0.02
		02/95	Bobbin	ODI	1	0.83	2ND TSP	+0.29

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	18	0.30	7TH TSP	+0.03
12	94	02/95	Bobbin	ODI	1	0.44	2ND TSP	+0.03
		02/95	Bobbin	ODI	1	0.54	5TH TSP	+0.15
12	96	02/95	Bobbin	ODI	23	0.45	4TH TSP	+0.02
		02/95	Bobbin	ODI	98	0.70	3RD TSP	+0.05
12	97	02/95	Bobbin	ODI	10	2.12	5TH TSP	+8.23
		02/95	H/L Speci	VOL		0.34	5TH TSP	+7.04
		02/95	H/L Speci	VOL		0.48	5TH TSP	+8.46
12	105	02/95	Bobbin	ODI	3	2.00	5TH TSP	+40.88
		02/95	Bobbin	ODI	14	0.93	6TH TSP	+1.89
		02/95	H/L Speci	VOL		0.23	6TH TSP	+0.34
		02/95	H/L Speci	VOL		0.41	6TH TSP	+1.75
		02/95	H/L Speci	VOL		0.59	6TH TSP	-2.52
12	108	02/95	Bobbin	ODI	53	0.96	2ND TSP	+0.10
		02/95	Bobbin	ODI	97	1.21	3RD TSP	+0.05
		02/95	H/L Speci	MAI		0.63	3RD TSP	+0.00
		02/95	H/L Speci	MAI		0.19	2ND TSP	+0.00
12	113	02/95	Bobbin	ODI	81	1.34	3RD TSP	+0.00
		02/95	H/L Speci	MAI		0.37	3RD TSP	+0.02
13	4	02/95	Bobbin	ODI	11	0.37	3RD TSP	-0.09
		02/95	Bobbin	ODI	86	0.39	5TH TSP	+0.09
		02/95	Bobbin	ODI	98	0.24	6TH TSP	+0.07
13	6	02/95	Bobbin	ODI	48	0.42	5TH TSP	+0.14
		02/95	Bobbin	ODI	96	0.66	3RD TSP	+0.05
13	7	02/95	Bobbin	ODI	54	0.49	2ND TSP	+0.21
		02/95	Bobbin	ODI	80	0.38	3RD TSP	+0.14
		02/95	Bobbin	ODI	95	0.30	5TH TSP	+0.12
13	8	02/95	Bobbin	ODI	89	0.50	2ND TSP	+0.12
13	10	02/95	Bobbin	ODI	86	0.59	3RD TSP	+0.07
		02/95	Bobbin	ODI	98	0.21	2ND TSP	+0.07
13	11	02/95	Bobbin	ODI	84	0.32	3RD TSP	+0.00
		02/95	Bobbin	ODI	96	0.45	4TH TSP	+0.05
		02/95	Bobbin	ODI	97	0.69	2ND TSP	+0.09
13	13	02/95	Bobbin	ODI	99	0.70	2ND TSP	+0.00
13	15	02/95	Bobbin	ODI	84	0.24	5TH TSP	-0.12
13	17	02/95	Bobbin	ODI	91	0.66	4TH TSP	+0.05
13	18	02/95	Bobbin	ODI	69	0.69	4TH TSP	+0.02
		02/95	Bobbin	ODI	76	0.38	2ND TSP	+0.16
		02/95	Bobbin	ODI	87	0.59	3RD TSP	+0.09
13	24	02/95	Bobbin	ODI	80	0.55	2ND TSP	-0.05
13	27	02/95	Bobbin	ODI	73	0.60	5TH TSP	-0.05
13	28	02/95	Bobbin	ODI	77	0.79	2ND TSP	+0.09
13	31	02/95	Bobbin	ODI	95	0.55	2ND TSP	+0.09
13	37	02/95	Bobbin	ODI	24	0.77	2ND TSP	+0.09
		02/95	Bobbin	ODI	46	0.31	4TH TSP	-0.06
		02/95	Bobbin	ODI	84	0.53	3RD TSP	+0.13
13	39	02/95	Bobbin	ODI	28	0.76	4TH TSP	-0.15
13	41	02/95	Bobbin	ODI	16	0.24	4TH TSP	-0.13
		02/95	Bobbin	ODI	52	0.56	2ND TSP	+0.02
		02/95	Bobbin	ODI	55	0.54	3RD TSP	+0.15
13	44	02/95	Bobbin	ODI	22	0.16	3RD TSP	+0.13
13	45	02/95	Bobbin	ODI	16	0.38	3RD TSP	+0.20
		02/95	Bobbin	ODI	24	0.64	5TH TSP	-0.07
		02/95	Bobbin	ODI	52	0.39	2ND TSP	+0.16
13	48	02/95	Bobbin	ODI	6	0.55	3RD TSP	+0.15
		02/95	Bobbin	ODI	40	0.49	4TH TSP	+0.11
		02/95	Bobbin	ODI	49	0.43	2ND TSP	+0.30
13	50	02/95	Bobbin	ODI	16	0.48	2ND TSP	+0.22
		02/95	Bobbin	ODI	65	0.47	3RD TSP	+0.15
13	52	02/95	Bobbin	NQI		0.36	13TH TSP	+0.00
13	55	02/95	Bobbin	ODI	12	0.62	3RD TSP	+0.26
13	57	02/95	Bobbin	ODI	51	0.33	2ND TSP	+0.14
13	63	02/95	Bobbin	ODI	20	1.09	1ST TSP	+7.59
		02/95	H/L Speci	VOL		0.63	1ST TSP	+8.64
13	65	02/95	Bobbin	ODI	31	0.26	3RD TSP	+0.20

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	65	0.43	2ND TSP	+0.00
13	66	02/95	Bobbin	ODI	63	0.95	4TH TSP	+0.02
		02/95	Bobbin	ODI	77	0.52	2ND TSP	+0.02
13	67	02/95	Bobbin	ODI	94	0.56	3RD TSP	+0.02
13	68	02/95	Bobbin	NQI		0.44	2ND TSP	+10.46
		02/95	Bobbin	ODI	18	1.43	2ND TSP	+9.23
		02/95	Bobbin	ODI	26	0.60	2ND TSP	+7.29
		02/95	H/L Speci	VOL		0.43	2ND TSP	+8.10
		02/95	H/L Speci	VOL		0.56	2ND TSP	+11.19
		02/95	H/L Speci	VOL		0.63	2ND TSP	+9.61
13	70	02/95	Bobbin	ODI	90	0.67	2ND TSP	-0.02
13	72	02/95	Bobbin	NQI		0.46	2ND TSP	+16.27
		02/95	Bobbin	ODI	12	1.06	3RD TSP	+39.76
		02/95	Bobbin	ODI	19	0.99	2ND TSP	+17.08
		02/95	Bobbin	ODI	47	0.47	2ND TSP	+0.02
		02/95	Bobbin	ODI	57	0.40	3RD TSP	+0.00
		02/95	H/L Speci	MAI		0.58	2ND TSP	-0.02
		02/95	H/L Speci	VOL		0.38	4TH TSP	-3.77
		02/95	H/L Speci	VOL		0.47	2ND TSP	+16.67
		02/95	H/L Speci	VOL		0.49	2ND TSP	+17.65
13	75	02/95	Bobbin	ODI	85	0.77	2ND TSP	+0.07
13	78	02/95	Bobbin	ODI	1	1.18	2ND TSP	+0.05
		02/95	Bobbin	ODI	30	1.06	3RD TSP	+0.20
		02/95	Bobbin	ODI	71	0.38	4TH TSP	+0.02
13	83	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.17
		02/95	Bobbin	ODI	47	0.44	2ND TSP	+0.19
		02/95	Bobbin	ODI	72	0.48	5TH TSP	+0.05
13	88	02/95	Bobbin	ODI	28	0.25	4TH TSP	+0.00
13	89	02/95	Bobbin	NQI		9.15	TE-HL	+5.37
		02/95	Bobbin	NQI		13.50	TE-HL	+16.02
		02/95	Bobbin	ODI	19	0.82	3RD TSP	+27.42
		02/95	H/L Speci	VOL		0.13	3RD TSP	+27.97
13	90	02/95	Bobbin	ODI	31	0.41	5TH TSP	+0.00
		02/95	Bobbin	ODI	59	0.39	4TH TSP	+0.10
13	92	02/95	Bobbin	ODI	1	0.35	4TH TSP	+0.07
		02/95	Bobbin	ODI	39	0.25	3RD TSP	+0.05
		02/95	Bobbin	ODI	63	0.33	5TH TSP	-0.17
13	96	02/95	Bobbin	ODI	73	0.22	5TH TSP	-0.22
13	97	02/95	Bobbin	ODI	92	0.49	3RD TSP	+0.07
13	99	02/95	Bobbin	ODI	28	0.45	4TH TSP	-0.05
		02/95	Bobbin	ODI	73	0.40	3RD TSP	+0.20
		02/95	Bobbin	ODI	75	0.38	5TH TSP	-0.05
		02/95	Bobbin	ODI	95	0.60	2ND TSP	+0.10
13	100	02/95	H/L Tubes	SAI		1.25	TTS-HL	-0.44
13	103	02/95	Bobbin	ODI	57	0.34	3RD TSP	+0.17
		02/95	Bobbin	ODI	78	0.70	2ND TSP	+0.10
13	105	02/95	Bobbin	ODI	1	0.46	5TH TSP	-0.20
		02/95	Bobbin	ODI	1	0.75	4TH TSP	-0.07
		02/95	Bobbin	ODI	13	0.43	3RD TSP	+0.00
		02/95	Bobbin	ODI	97	0.25	2ND TSP	+0.10
13	106	02/95	Bobbin	ODI	21	1.08	TTS-CL	+0.75
		02/95	C/L Speci	VOL		0.78	TTS-CL	+0.86
13	107	02/95	Bobbin	ODI	4	0.67	11TH TSP	+36.65
		02/95	Bobbin	ODI	9	1.01	11TH TSP	+38.98
		02/95	C/L Speci	VOL		0.36	10TH TSP	-5.43
		02/95	C/L Speci	VOL		0.47	10TH TSP	-6.94
13	108	02/95	Bobbin	ODI	95	0.41	2ND TSP	+0.12
14	3	02/95	Bobbin	ODI	94	0.46	3RD TSP	+0.14
14	6	02/95	Bobbin	ODI	89	0.26	3RD TSP	+0.02
14	7	02/95	Bobbin	ODI	63	0.53	3RD TSP	+0.02
14	11	02/95	Bobbin	ODI	6	0.37	4TH TSP	-0.14
		02/95	Bobbin	ODI	92	0.40	3RD TSP	-0.02
		02/95	Bobbin	ODI	94	0.40	2ND TSP	+0.14
14	12	02/95	Bobbin	ODI	57	0.34	6TH TSP	+0.07
14	13	02/95	Bobbin	ODI	83	0.55	3RD TSP	+0.00

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
14	15	02/95	Bobbin	ODI	51	0.51	6TH TSP	-0.02	
		02/95	Bobbin	ODI	69	0.32	2ND TSP	+0.00	
		02/95	Bobbin	ODI	82	0.35	3RD TSP	+0.07	
		02/95	Bobbin	ODI	89	0.31	5TH TSP	+0.00	
14	17	02/95	Bobbin	ODI	1	0.38	3RD TSP	+0.25	
14	19	02/95	Bobbin	ODI	31	0.20	4TH TSP	-0.07	
14	22	02/95	Bobbin	ODI	69	0.74	3RD TSP	+0.02	
		02/95	Bobbin	ODI	92	0.64	2ND TSP	+0.09	
14	25	02/95	Bobbin	ODI	59	0.35	2ND TSP	+0.09	
14	27	02/95	Bobbin	ODI	69	0.23	4TH TSP	+0.00	
14	30	02/95	Bobbin	ODI	95	0.30	2ND TSP	-0.07	
14	33	02/95	Bobbin	ODI	12	1.36	15TH TSP	+3.74	
		02/95	C/L Speci	VOL		0.23	15TH TSP	+3.61	
14	41	02/95	Bobbin	NQI		0.53	21ST TSP	+2.45	
		02/95	Bobbin	ODI	16	0.57	21ST TSP	+5.88	
		02/95	C/L Speci	VOL		0.10	21ST TSP	+5.23	
		02/95	C/L Speci	VOL		0.23	21ST TSP	+6.13	
		02/95	C/L Speci	VOL		0.32	21ST TSP	+2.52	
14	45	02/95	Bobbin	ODI	1	0.39	2ND TSP	+0.12	
		02/95	H/L Speci	VOL		0.30	7TH TSP	+34.92	
14	48	02/95	Bobbin	ODI	34	0.50	2ND TSP	+0.23	
14	49	02/95	Bobbin	ODI	12	0.38	6TH TSP	-0.08	
		02/95	Bobbin	ODI	26	0.55	5TH TSP	-0.12	
		02/95	Bobbin	ODI	66	0.69	2ND TSP	+0.10	
14	52	02/95	Bobbin	ODI	25	0.72	4TH TSP	+0.00	
14	55	02/95	Bobbin	ODI	9	0.71	4TH TSP	+0.00	
		02/95	Bobbin	ODI	21	0.52	2ND TSP	+0.07	
		02/95	Bobbin	ODI	50	0.42	3RD TSP	+0.13	
		02/95	Bobbin	ODI	62	0.40	6TH TSP	+0.00	
14	56	02/95	Bobbin	ODI	29	0.64	2ND TSP	-0.06	
		02/95	Bobbin	ODI	46	0.27	5TH TSP	+0.10	
		02/95	H/L Speci	SAI		0.52	2ND TSP	-0.10	
14	57	02/95	Bobbin	ODI	11	0.55	2ND TSP	-0.05	
		02/95	Bobbin	ODI	50	0.48	5TH TSP	-0.04	
		02/95	Bobbin	ODI	82	0.75	3RD TSP	-0.04	
14	63	02/95	C/L Speci	VOL		0.24	11TH TSP	+2.80	
		02/95	C/L Speci	VOL		0.26	11TH TSP	+21.24	
		02/95	C/L Speci	VOL		0.28	11TH TSP	+24.75	
14	67	02/95	Bobbin	ODI	69	0.60	5TH TSP	-0.05	
14	68	02/95	Bobbin	ODI	88	0.57	3RD TSP	+0.05	
14	69	02/95	Bobbin	ODI	96	0.32	2ND TSP	+0.00	
14	75	02/95	Bobbin	ODI	10	1.35	4TH TSP	+23.72	
		02/95	Bobbin	ODI	51	0.18	4TH TSP	-0.10	
		02/95	H/L Speci	VOL		0.64	4TH TSP	+24.63	
14	76	02/95	Bobbin	ODI	16	0.89	3RD TSP	+16.04	
		02/95	H/L Speci	VOL		0.28	3RD TSP	+18.36	
		02/95	H/L Speci	VOL		0.55	3RD TSP	+16.94	
14	78	02/95	Bobbin	ODI	15	0.41	4TH TSP	-0.17	
		02/95	Bobbin	ODI	73	0.75	3RD TSP	+0.15	
14	80	02/95	Bobbin	ODI	60	0.53	3RD TSP	+0.00	
14	85	02/95	Bobbin	ODI	11	0.62	4TH TSP	-0.21	
		02/95	Bobbin	ODI	19	0.69	3RD TSP	+0.21	
		02/95	Bobbin	ODI	23	0.49	5TH TSP	-0.10	
14	89	02/95	H/L Speci	VOL		1.62	5TH TSP	+30.96	
14	90	02/95	Bobbin	ODI	91	0.33	5TH TSP	+0.10	
14	95	02/95	Bobbin	ODI	1	0.68	3RD TSP	+0.12	
		02/95	H/L Speci	VOL		0.45	7TH TSP	+17.31	
		02/95	H/L Speci	VOL		0.64	7TH TSP	+20.88	
14	98	02/95	H/L Tubes	SAI		0.64	TTS-HL	+0.07	
14	101	02/95	Bobbin	ODI	1	0.47	3RD TSP	+0.12	
		02/95	Bobbin	ODI	41	0.53	4TH TSP	-0.17	
14	102	02/95	H/L Speci	VOL		0.25	5TH TSP	+27.67	
		02/95	H/L Speci	VOL		0.38	5TH TSP	+30.61	
14	105	02/95	Bobbin	ODI	94	0.27	3RD TSP	+0.02	
14	111	02/95	Bobbin	ODI	87	0.49	2ND TSP	+0.19	

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S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

15	4	02/95	Bobbin	ODI	77	0.47	3RD TSP	+0.05
15	5	02/95	Bobbin	ODI	9	1.41	6TH TSP	+23.98
		02/95	H/L Spec	VOL		0.84	6TH TSP	+25.55
15	7	02/95	Bobbin	ODI	52	0.98	3RD TSP	+0.01
		02/95	Bobbin	ODI	97	0.53	2ND TSP	+0.14
15	9	02/95	C/L Spec	VOL		0.39	16TH TSP	+5.62
15	14	02/95	Bobbin	ODI	86	0.60	3RD TSP	+0.00
		02/95	Bobbin	ODI	92	0.68	2ND TSP	+0.00
		02/95	H/L Spec	MAI		0.34	2ND TSP	-0.04
		02/95	H/L Spec	SAI		0.41	3RD TSP	+0.00
15	22	02/95	Bobbin	ODI	76	0.20	2ND TSP	+0.02
		02/95	H/L Spec	VOL		0.78	1ST TSP	+14.82
15	23	02/95	Bobbin	ODI	90	0.43	3RD TSP	+0.12
		02/95	Bobbin	ODI	98	0.64	2ND TSP	+0.09
15	24	02/95	Bobbin	ODI	22	0.39	5TH TSP	+0.00
		02/95	C/L Spec	VOL		0.90	18TH TSP	+5.28
15	41	02/95	Bobbin	ODI	85	0.37	2ND TSP	+0.04
15	48	02/95	C/L Spec	VOL		0.31	11TH TSP	+15.09
		02/95	C/L Spec	VOL		0.49	11TH TSP	+26.98
15	51	02/95	Bobbin	ODI	21	0.30	2ND TSP	+0.04
15	60	02/95	Bobbin	ODI	32	0.29	4TH TSP	+0.05
15	61	02/95	Bobbin	ODI	63	0.22	2ND TSP	+0.09
		02/95	Bobbin	ODI	72	0.49	3RD TSP	+0.19
15	68	02/95	Bobbin	ODI	1	0.77	3RD TSP	+0.05
		02/95	Bobbin	ODI	9	0.68	2ND TSP	+0.07
15	71	02/95	Bobbin	ODI	37	0.75	2ND TSP	+0.09
		02/95	Bobbin	ODI	40	0.49	3RD TSP	+0.14
15	73	02/95	Bobbin	ODI	55	0.61	2ND TSP	+0.19
15	74	02/95	Bobbin	ODI	1	0.49	2ND TSP	+0.05
15	80	02/95	Bobbin	ODI	25	0.86	4TH TSP	+3.56
		02/95	H/L Spec	VOL		0.39	4TH TSP	+4.41
		02/95	H/L Spec	VOL		0.49	4TH TSP	+10.92
15	85	02/95	Bobbin	ODI	48	0.58	2ND TSP	+0.15
15	92	02/95	H/L Spec	VOL		0.67	7TH TSP	-12.05
15	95	02/95	Bobbin	ODI	16	0.57	3RD TSP	+7.58
		02/95	H/L Spec	VOL		0.63	3RD TSP	+8.05
15	97	02/95	H/L Spec	VOL		0.26	8TH TSP	-13.36
16	9	02/95	Bobbin	ODI	9	1.50	6TH TSP	+13.91
		02/95	H/L Spec	VOL		1.08	6TH TSP	+13.69
16	14	02/95	Bobbin	ODI	87	0.62	4TH TSP	+0.00
16	19	02/95	Bobbin	NQI		0.79	11TH TSP	+30.27
		02/95	C/L Spec	VOL		0.46	10TH TSP	-13.61
16	20	02/95	Bobbin	ODI	35	0.38	4TH TSP	-0.05
16	23	02/95	Bobbin	ODI	71	0.43	3RD TSP	+0.05
16	24	02/95	Bobbin	ODI	56	0.74	2ND TSP	+0.02
16	27	02/95	Bobbin	ODI	65	0.68	4TH TSP	+0.02
16	30	02/95	Bobbin	ODI	69	0.56	4TH TSP	+0.00
		02/95	Bobbin	ODI	94	0.30	2ND TSP	-0.02
16	31	02/95	Bobbin	NQI		0.61	13TH TSP	+12.61
		02/95	Bobbin	ODI	20	0.24	3RD TSP	+0.07
		02/95	C/L Spec	VOL		0.54	12TH TSP	-8.89
16	33	02/95	Bobbin	ODI	7	1.29	7TH TSP	+33.40
		02/95	Bobbin	ODI	9	2.34	10TH TSP	+8.86
		02/95	H/L Spec	VOL		1.39	8TH TSP	-11.10
		02/95	C/L Spec	VOL		1.02	10TH TSP	+8.75
16	35	02/95	Bobbin	ODI	81	0.69	2ND TSP	+0.02
16	36	02/95	Bobbin	ODI	83	0.73	2ND TSP	-0.07
		02/95	C/L Spec	VOL		0.52	14TH TSP	+4.97
16	38	02/95	Bobbin	ODI	11	0.30	2ND TSP	+0.07
16	43	02/95	Bobbin	ODI	69	0.63	4TH TSP	+0.10
		02/95	Bobbin	ODI	73	0.42	2ND TSP	-0.02
16	44	02/95	Bobbin	ODI	93	0.29	2ND TSP	+0.15
16	48	02/95	Bobbin	ODI	17	0.32	4TH TSP	+0.10
16	49	02/95	H/L Spec	VOL		0.19	3RD TSP	+15.98
16	50	02/95	Bobbin	ODI	99	0.55	3RD TSP	+0.05

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

16	51	02/95	H/L Speci	VOL		0.27	5TH TSP	-5.32
16	52	02/95	Bobbin	ODI	98	0.78	3RD TSP	+0.02
16	53	02/95	Bobbin	NQI		0.73	12TH TSP	+40.54
		02/95	Bobbin	ODI	9	0.93	13TH TSP	+9.70
		02/95	C/L Speci	VOL		0.24	11TH TSP	-3.57
		02/95	C/L Speci	VOL		0.34	13TH TSP	+9.43
16	55	02/95	Bobbin	ODI	9	1.19	5TH TSP	+12.55
		02/95	H/L Speci	VOL		0.84	5TH TSP	+12.32
16	56	02/95	Bobbin	NQI		0.47	5TH TSP	+14.53
		02/95	Bobbin	ODI	33	0.78	TTS-HL	+6.18
		02/95	H/L Speci	VOL		0.72	TTS-HL	+6.55
		02/95	H/L Speci	VOL		0.41	5TH TSP	+14.56
16	58	02/95	Bobbin	ODI	77	0.25	2ND TSP	-0.02
16	59	02/95	Bobbin	ODI	81	0.66	2ND TSP	-0.05
16	61	02/95	Bobbin	ODI	76	0.41	4TH TSP	-0.05
		02/95	Bobbin	ODI	80	0.70	3RD TSP	+0.21
16	66	02/95	Bobbin	ODI	32	0.41	2ND TSP	+7.21
		02/95	H/L Speci	VOL		0.33	2ND TSP	+7.63
16	69	02/95	Bobbin	NQI		1.10	1AVB	+5.04
		02/95	U-Bend	VOL		0.52	1AVB	+6.04
16	70	02/95	Bobbin	ODI	2	1.74	4TH TSP	+35.62
		02/95	H/L Speci	VOL		0.70	5TH TSP	-7.71
16	73	02/95	H/L Speci	VOL		0.48	4TH TSP	+9.30
16	83	02/95	Bobbin	ODI	86	0.31	3RD TSP	+0.15
16	89	02/95	Bobbin	ODI	1	0.51	4TH TSP	+0.02
16	92	02/95	Bobbin	NQI		4.32	TE-CL	+11.43
		02/95	Bobbin	NQI		5.21	TE-CL	+10.43
		02/95	Bobbin	ODI	82	0.29	3RD TSP	+0.09
16	96	02/95	Bobbin	NQI		1.95	TE-CL	+7.70
		02/95	Bobbin	NQI		2.81	TE-CL	+14.95
		02/95	Bobbin	NQI		3.62	TE-CL	+10.04
		02/95	Bobbin	NQI		7.67	TE-CL	+18.03
16	102	02/95	H/L Speci	VOL		0.44	4TH TSP	+24.44
		02/95	H/L Speci	VOL		0.45	2ND TSP	+5.60
		02/95	H/L Speci	VOL		0.73	4TH TSP	+30.01
		02/95	H/L Speci	VOL		1.48	3RD TSP	+6.73
16	105	02/95	Bobbin	NQI		0.65	3RD TSP	+17.67
		02/95	Bobbin	NQI		0.92	3RD TSP	+3.32
		02/95	Bobbin	ODI	10	2.28	5TH TSP	+32.98
		02/95	Bobbin	ODI	18	2.11	5TH TSP	+16.66
		02/95	H/L Speci	VOL		0.60	5TH TSP	+34.27
		02/95	H/L Speci	VOL		0.84	3RD TSP	+18.36
		02/95	H/L Speci	VOL		0.84	5TH TSP	+17.27
		02/95	H/L Speci	VOL		1.17	6TH TSP	+19.20
		02/95	H/L Speci	VOL		1.53	3RD TSP	+3.49
16	110	02/95	Bobbin	NQI		0.62	3RD TSP	+24.64
		02/95	H/L Speci	VOL		0.38	4TH TSP	-19.78
		02/95	H/L Speci	VOL		0.43	4TH TSP	-8.72
		02/95	H/L Speci	VOL		0.66	4TH TSP	+3.25
		02/95	H/L Speci	VOL		0.86	4TH TSP	-5.80
16	111	02/95	C/L Speci	VOL		0.50	TTS-CL	+2.70
17	4	02/95	Bobbin	ODI	39	0.43	3RD TSP	+0.07
17	6	02/95	Bobbin	ODI	84	0.23	6TH TSP	+0.07
17	8	02/95	Bobbin	ODI	4	0.30	4TH TSP	+0.03
17	9	02/95	Bobbin	ODI	95	0.46	3RD TSP	+0.07
17	11	02/95	Bobbin	ODI	92	0.20	6TH TSP	+0.05
17	16	02/95	Bobbin	ODI	78	0.29	2ND TSP	+0.07
17	22	02/95	Bobbin	ODI	12	0.23	4TH TSP	+0.10
		02/95	Bobbin	ODI	62	0.45	5TH TSP	-0.20
		02/95	Bobbin	ODI	83	1.01	3RD TSP	+0.07
		02/95	Bobbin	ODI	93	1.47	2ND TSP	+0.10
		02/95	H/L Speci	SAI		0.30	3RD TSP	+0.02
		02/95	H/L Speci	VOL		0.44	4TH TSP	+23.38
17	24	02/95	Bobbin	ODI	58	0.42	3RD TSP	+0.12
		02/95	Bobbin	ODI	85	0.81	2ND TSP	+0.15

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

17	25	02/95	Bobbin	ODI	86	0.66	3RD TSP	+0.10
17	26	02/95	Bobbin	ODI	6	0.78	15TH TSP	+2.37
		02/95	C/L Speci	VOL		0.92	15TH TSP	+2.59
17	30	02/95	Bobbin	ODI	66	0.39	3RD TSP	+0.00
		02/95	Bobbin	ODI	7	1.37	22ND TSP	+4.32
		02/95	C/L Speci	VOL		0.68	22ND TSP	+4.39
17	42	02/95	Bobbin	ODI	4	0.77	7TH TSP	+30.72
		02/95	H/L Speci	VOL		0.83	8TH TSP	-12.76
17	47	02/95	Bobbin	ODI	88	0.24	2ND TSP	+0.07
17	48	02/95	Bobbin	ODI	9	0.20	6TH TSP	+0.12
		02/95	Bobbin	ODI	63	0.75	3RD TSP	+0.15
		02/95	Bobbin	ODI	67	0.23	4TH TSP	+0.07
		02/95	Bobbin	ODI	95	0.62	2ND TSP	+0.05
17	51	02/95	Bobbin	ODI	23	0.58	21ST TSP	+4.35
		02/95	C/L Speci	VOL		0.26	21ST TSP	+4.22
17	52	02/95	Bobbin	ODI	89	0.45	2ND TSP	+0.10
		02/95	Bobbin	ODI	97	1.08	3RD TSP	+0.02
		02/95	H/L Speci	SAI		0.98	3RD TSP	-0.08
17	57	02/95	C/L Speci	VOL		0.57	9TH TSP	+0.01
17	58	02/95	Bobbin	NQI		5.37	TE-HL	+11.03
		02/95	Bobbin	NQI		7.28	TE-HL	+12.91
		02/95	Bobbin	NQI		16.66	TE-HL	+8.25
17	59	02/95	H/L Speci	VOL		0.65	7TH TSP	-5.59
		02/95	H/L Speci	VOL		0.68	7TH TSP	-3.30
17	60	02/95	Bobbin	ODI	74	0.19	4TH TSP	+0.07
		02/95	Bobbin	ODI	80	0.20	5TH TSP	+0.05
17	61	02/95	C/L Speci	VOL		0.27	18TH TSP	+11.90
		02/95	C/L Speci	VOL		0.30	18TH TSP	-1.61
		02/95	C/L Speci	VOL		0.35	18TH TSP	-2.65
17	62	02/95	Bobbin	ODI	73	0.17	4TH TSP	+0.05
17	63	02/95	Bobbin	ODI	16	1.56	10TH TSP	+31.02
		02/95	C/L Speci	VOL		0.47	9TH TSP	-14.60
17	67	02/95	Bobbin	ODI	22	0.92	5TH TSP	+24.17
		02/95	H/L Speci	VOL		1.39	5TH TSP	+24.08
17	74	02/95	Bobbin	ODI	10	1.14	TTS-HL	+0.58
		02/95	Bobbin	ODI	96	0.33	6TH TSP	+0.00
17	77	02/95	H/L Speci	VOL		0.47	2ND TSP	-0.51
17	78	02/95	Bobbin	ODI	68	0.19	2ND TSP	-0.14
17	79	02/95	Bobbin	ODI	1	0.26	6TH TSP	+0.00
17	80	02/95	Bobbin	ODI	1	0.19	5TH TSP	-0.14
		02/95	Bobbin	ODI	23	0.78	10TH TSP	+26.42
		02/95	C/L Speci	VOL		0.40	10TH TSP	+27.42
17	85	02/95	Bobbin	ODI	80	0.67	3RD TSP	-0.11
17	86	02/95	Bobbin	ODI	1	0.28	2ND TSP	-0.02
		02/95	Bobbin	ODI	26	0.16	6TH TSP	+0.00
17	87	02/95	Bobbin	ODI	1	0.08	3RD TSP	+0.16
17	88	02/95	Bobbin	ODI	8	0.24	4TH TSP	-0.24
		02/95	Bobbin	ODI	23	0.67	3RD TSP	+8.63
		02/95	H/L Speci	VOL		1.87	3RD TSP	+8.65
17	90	02/95	Bobbin	ODI	85	0.43	4TH TSP	-0.26
17	93	02/95	Bobbin	ODI	64	0.31	2ND TSP	+0.11
17	98	02/95	Bobbin	ODI	10	0.18	4TH TSP	-0.26
17	101	02/95	Bobbin	NQI		0.28	4TH TSP	-0.28
17	107	02/95	Bobbin	ODI	3	0.44	5TH TSP	+14.87
		02/95	Bobbin	ODI	85	0.91	2ND TSP	+0.04
		02/95	H/L Speci	SAI		0.57	2ND TSP	+0.01
17	110	02/95	Bobbin	ODI	54	0.43	3RD TSP	-0.09
18	6	02/95	Bobbin	ODI	53	0.32	5TH TSP	+0.13
18	12	02/95	Bobbin	ODI	9	0.32	4TH TSP	+0.05
18	15	02/95	Bobbin	ODI	37	0.23	4TH TSP	+0.05
18	21	02/95	Bobbin	ODI	10	0.60	18TH TSP	+14.84
		02/95	C/L Speci	VOL		0.33	17TH TSP	-7.25
18	23	02/95	Bobbin	ODI	62	0.37	2ND TSP	+0.07
18	24	02/95	Bobbin	ODI	51	1.23	3RD TSP	+0.05
		02/95	Bobbin	ODI	95	0.23	2ND TSP	+0.12

BWNT TUBAN II (Version 2.1) 05/01/1995 07:38:37

Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

18	29	02/95	H/L Speci	SAI		0.41	3RD TSP	-0.05
18	32	02/95	Bobbin	ODI	19	0.21	3RD TSP	+0.20
18	33	02/95	Bobbin	ODI	76	0.28	3RD TSP	+0.15
18	36	02/95	Bobbin	ODI	89	0.28	2ND TSP	+0.05
18	42	02/95	Bobbin	ODI	59	0.23	4TH TSP	-0.02
18	43	02/95	Bobbin	ODI	10	0.64	12TH TSP	+1.67
18	44	02/95	C/L Speci	VOL		0.61	12TH TSP	+1.77
18	45	02/95	C/L Speci	VOL		0.40	10TH TSP	+13.03
18	52	02/95	Bobbin	NQI		2.49	TE-HL	+14.21
18	54	02/95	Bobbin	ODI	83	0.29	2ND TSP	+0.10
18	55	02/95	Bobbin	ODI	77	0.21	3RD TSP	+0.15
18	56	02/95	Bobbin	ODI	61	0.30	2ND TSP	+0.05
18	57	02/95	C/L Speci	VOL		0.21	17TH TSP	+3.88
18	59	02/95	Bobbin	ODI	85	0.17	7TH TSP	+0.05
18	60	02/95	Bobbin	NQI		0.65	3RD TSP	+38.02
18	65	02/95	Bobbin	ODI	38	1.41	2ND TSP	+0.00
18	72	02/95	H/L Speci	VOL		0.35	4TH TSP	-6.37
18	73	02/95	C/L Speci	VOL		0.46	10TH TSP	-2.12
18	77	02/95	Bobbin	ODI	99	0.85	3RD TSP	+0.24
18	94	02/95	Bobbin	ODI	39	0.46	3RD TSP	+0.05
18	102	02/95	H/L Speci	VOL		0.21	4TH TSP	-6.82
18	106	02/95	H/L Speci	VOL		0.29	4TH TSP	-8.72
18	107	02/95	H/L Speci	VOL		0.34	4TH TSP	-3.79
18	108	02/95	H/L Speci	VOL		0.36	4TH TSP	-9.76
18	111	02/95	H/L Speci	VOL		0.37	4TH TSP	-5.88
18	112	02/95	H/L Speci	VOL		0.38	4TH TSP	+28.61
18	126	02/95	Bobbin	ODI	9	2.21	TTS-HL	+0.50
18	130	02/95	H/L Speci	VOL		0.66	6TH TSP	+25.92
18	131	02/95	Bobbin	NQI		1.51	TTS-HL	+0.65
18	132	02/95	H/L Speci	VOL		0.61	6TH TSP	+28.23
18	133	02/95	U-Bend	VOL		1.12	9TH TSP	+1.53
18	134	02/95	H/L Speci	VOL		0.88	6TH TSP	+29.58
18	135	02/95	C/L Speci	VOL		0.52	12TH TSP	+28.30
18	136	02/95	Bobbin	ODI	48	0.46	2ND TSP	+0.10
18	137	02/95	C/L Speci	VOL		0.28	15TH TSP	-3.94
18	138	02/95	C/L Speci	VOL		0.34	18TH TSP	-1.85
18	139	02/95	Bobbin	ODI	47	0.26	6TH TSP	+0.15
18	140	02/95	Bobbin	ODI	36	0.23	4TH TSP	+0.07
18	141	02/95	Bobbin	ODI	89	0.23	6TH TSP	+0.15
18	142	02/95	Bobbin	ODI	96	0.25	5TH TSP	-0.07
18	143	02/95	Bobbin	NQI		0.46	15TH TSP	+2.55
18	144	02/95	C/L Speci	VOL		0.66	15TH TSP	+2.63
18	145	02/95	Bobbin	ODI	77	0.54	3RD TSP	+0.11
18	146	02/95	Bobbin	ODI	8	1.48	11TH TSP	+42.40
18	147	02/95	C/L Speci	VOL		0.32	10TH TSP	+0.04
18	148	02/95	C/L Speci	VOL		0.66	10TH TSP	-1.62
18	149	02/95	Bobbin	ODI	82	0.47	4TH TSP	+0.02
18	150	02/95	Bobbin	NQI		0.51	13TH TSP	+0.00
18	151	02/95	Bobbin	ODI	1	0.42	4TH TSP	+0.00
18	152	02/95	Bobbin	ODI	76	0.54	3RD TSP	+0.05
18	153	02/95	Bobbin	ODI	68	1.00	3RD TSP	+0.01
18	154	02/95	Bobbin	ODI	8	2.77	7TH TSP	+35.73
18	155	02/95	H/L Speci	VOL		1.19	8TH TSP	-8.40
18	156	02/95	Bobbin	ODI	13	0.24	5TH TSP	-0.02
18	157	02/95	Bobbin	ODI	88	0.46	7TH TSP	+0.02
18	158	02/95	Bobbin	ODI	19	0.90	18TH TSP	+19.00
18	159	02/95	C/L Speci	VOL		0.48	17TH TSP	-3.37
18	160	02/95	Bobbin	ODI	17	0.31	4TH TSP	+0.14
18	161	02/95	Bobbin	NQI		0.88	4TH TSP	+38.71
18	162	02/95	H/L Speci	VOL		1.08	5TH TSP	-5.16
18	163	02/95	Bobbin	ODI	96	0.29	3RD TSP	+0.10
18	164	02/95	Bobbin	ODI	63	0.22	2ND TSP	+0.05
18	165	02/95	Bobbin	ODI	96	0.45	4TH TSP	+0.05
18	166	02/95	Bobbin	ODI	42	0.35	2ND TSP	+0.05
18	167	02/95	Bobbin	NQI		26.33	TE-HL	+16.02

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

19	49	02/95	Bobbin	NQI		15.31	TE-HL	+15.22
		02/95	Bobbin	ODI	83	0.27	4TH TSP	+0.10
		02/95	Bobbin	ODI	90	0.32	2ND TSP	+0.12
19	53	02/95	Bobbin	ODI	51	0.52	3RD TSP	+0.10
19	56	02/95	Bobbin	ODI	97	0.78	3RD TSP	+0.10
19	62	02/95	Bobbin	ODI	39	0.24	4TH TSP	+0.22
19	65	02/95	H/L Speci	VOL		0.10	7TH TSP	+15.10
		02/95	H/L Speci	VOL		0.84	7TH TSP	+11.22
		02/95	H/L Speci	VOL		0.94	7TH TSP	+9.58
19	74	02/95	C/L Speci	VOL		0.55	9TH TSP	-6.15
19	78	02/95	Bobbin	ODI	6	1.79	5TH TSP	+18.11
		02/95	H/L Speci	VOL		0.70	5TH TSP	+18.28
19	84	02/95	H/L Speci	VOL		0.49	8TH TSP	-11.81
19	87	02/95	H/L Speci	VOL		1.16	8TH TSP	-1.21
19	101	02/95	H/L Speci	VOL		0.39	8TH TSP	-10.46
		02/95	C/L Speci	VOL		0.22	13TH TSP	+8.79
19	103	02/95	H/L Speci	VOL		0.19	4TH TSP	-9.38
		02/95	H/L Speci	VOL		0.52	4TH TSP	+1.82
19	108	02/95	H/L Speci	VOL		0.36	3RD TSP	+10.27
20	6	02/95	Bobbin	ODI	88	1.60	3RD TSP	+0.06
		02/95	H/L Speci	SAI		1.32	3RD TSP	-0.08
20	15	02/95	Bobbin	NQI		0.22	12TH TSP	+25.75
		02/95	C/L Speci	VOL		0.09	11TH TSP	-18.15
20	18	02/95	Bobbin	ODI	71	1.10	2ND TSP	+0.10
		02/95	H/L Speci	SAI		0.16	2ND TSP	+0.04
20	23	02/95	Bobbin	ODI	73	0.30	2ND TSP	+0.10
20	24	02/95	Bobbin	ODI	47	0.37	2ND TSP	+0.10
20	26	02/95	Bobbin	ODI	99	0.75	3RD TSP	+0.04
20	28	02/95	Bobbin	ODI	19	0.30	3RD TSP	+0.07
20	32	02/95	Bobbin	ODI	47	0.11	4TH TSP	+0.00
20	37	02/95	Bobbin	ODI	34	0.26	4TH TSP	+0.05
20	40	02/95	Bobbin	ODI	97	0.32	4TH TSP	-0.07
20	41	02/95	Bobbin	ODI	3	0.26	4TH TSP	-0.10
20	42	02/95	Bobbin	ODI	45	0.29	4TH TSP	-0.14
20	46	02/95	Bobbin	ODI	15	0.55	2ND TSP	+0.09
		02/95	Bobbin	ODI	31	0.19	6TH TSP	-0.05
		02/95	Bobbin	ODI	81	0.47	3RD TSP	-0.12
20	48	02/95	Bobbin	NQI		17.30	TE-HL	+12.21
		02/95	Bobbin	ODI	1	0.37	4TH TSP	+0.14
		02/95	Bobbin	ODI	97	0.46	3RD TSP	+0.02
20	52	02/95	Bobbin	ODI	14	0.50	4TH TSP	+0.14
20	57	02/95	Bobbin	NQI		0.69	4TH TSP	+26.98
		02/95	Bobbin	NQI		1.22	4TH TSP	+26.02
		02/95	Bobbin	ODI	28	1.20	6TH TSP	+35.53
		02/95	H/L Speci	VOL		1.01	4TH TSP	+26.43
		02/95	H/L Speci	VOL		1.05	7TH TSP	-8.46
		02/95	H/L Speci	VOL		1.37	4TH TSP	+25.48
20	60	02/95	Bobbin	ODI	53	0.24	4TH TSP	+0.05
20	61	02/95	Bobbin	ODI	73	0.31	2ND TSP	+0.07
		02/95	Bobbin	ODI	11	0.38	21ST TSP	-0.74
		02/95	C/L Speci	VOL		0.45	21ST TSP	-0.69
20	65	02/95	Bobbin	ODI	98	0.39	7TH TSP	-0.02
20	72	02/95	Bobbin	ODI	5	1.97	TTS-HL	+23.02
		02/95	H/L Speci	VOL		1.20	2ND TSP	-2.91
20	83	02/95	Bobbin	NQI		3.71	TE-CL	+6.00
20	87	02/95	H/L Speci	VOL		0.89	6TH TSP	-1.93
		02/95	H/L Speci	VOL		0.99	6TH TSP	+0.03 to *
20	88	02/95	Bobbin	ODI	10	0.85	7TH TSP	+13.88
		02/95	H/L Speci	VOL		0.73	7TH TSP	+13.79
20	99	02/95	Bobbin	ODI	11	1.72	11TH TSP	+8.31
		02/95	C/L Speci	VOL		0.11	11TH TSP	+8.30
20	102	02/95	H/L Speci	VOL		0.85	3RD TSP	-2.05
20	109	02/95	Bobbin	ODI	3	1.75	7TH TSP	+5.08
		02/95	Bobbin	ODI	74	0.46	3RD TSP	+0.17
		02/95	H/L Speci	VOL		2.01	7TH TSP	+4.92

BWNT TUBAN II (Version 2.1) 05/01/1995 07:38:37

Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

21	6	02/95	Bobbin	ODI	4	1.25	11TH TSP	+2.19
		02/95	C/L Speci	VOL		0.50	11TH TSP	+2.22
21	9	02/95	Bobbin	ODI	6	0.26	4TH TSP	+0.07
21	10	02/95	Bobbin	ODI	44	0.17	4TH TSP	+0.00
21	18	02/95	Bobbin	ODI	7	0.22	4TH TSP	+0.10
21	28	02/95	C/L Speci	VOL		0.52	15TH TSP	+5.69
21	37	02/95	Bobbin	ODI	1	0.30	4TH TSP	-0.20
21	38	02/95	Bobbin	ODI	62	0.38	4TH TSP	-0.15
21	43	02/95	Bobbin	ODI	11	1.17	12TH TSP	+26.07
		02/95	C/L Speci	VOL		0.99	12TH TSP	+25.80
21	44	02/95	Bobbin	NQI		0.70	TTS-HL	+5.13
		02/95	Bobbin	NQI		1.39	TTS-HL	+1.82
		02/95	Bobbin	NQI		0.51	7TH TSP	+38.48
		02/95	Bobbin	NQI		0.58	7TH TSP	+36.08
		02/95	Bobbin	NQI		0.94	7TH TSP	+39.89
		02/95	Bobbin	ODI	21	3.25	2ND TSP	+14.53
		02/95	H/L Tubes	VOL		1.16	TTS-HL	+1.66
		02/95	H/L Speci	VOL		1.06	TTS-HL	+1.76
		02/95	H/L Speci	VOL		1.71	TTS-HL	+5.00
		02/95	H/L Speci	VOL		0.68	8TH TSP	-0.54
		02/95	H/L Speci	VOL		0.88	8TH TSP	-7.73
		02/95	H/L Speci	VOL		1.09	8TH TSP	-2.84
		02/95	H/L Speci	VOL		1.13	8TH TSP	-4.78
		02/95	H/L Speci	VOL		2.53	2ND TSP	+14.01
21	46	02/95	Bobbin	NQI		0.71	12TH TSP	+22.00
		02/95	C/L Speci	VOL		0.51	12TH TSP	+22.26
21	50	02/95	C/L Speci	VOL		0.82	21ST TSP	-6.01
21	52	02/95	Bobbin	NQI		0.22	11TH TSP	+0.00
21	57	02/95	Bobbin	ODI	95	0.20	4TH TSP	-0.12
21	59	02/95	Bobbin	ODI	10	2.22	2ND TSP	+20.75
		02/95	Bobbin	ODI	12	1.76	2ND TSP	+19.73
		02/95	Bobbin	ODI	31	0.41	4TH TSP	+0.05
		02/95	H/L Speci	VOL		0.92	3RD TSP	-5.30
		02/95	H/L Speci	VOL		1.12	3RD TSP	-4.36
		02/95	H/L Speci	VOL		2.72	2ND TSP	+19.71
		02/95	H/L Speci	VOL		3.46	2ND TSP	+20.67
21	60	02/95	Bobbin	ODI	26	0.34	8TH TSP	-0.10
		02/95	Bobbin	ODI	98	0.44	2ND TSP	+0.10
21	61	02/95	Bobbin	ODI	9	0.25	4TH TSP	+0.14
21	62	02/95	Bobbin	ODI	1	0.58	4TH TSP	+0.12
		02/95	Bobbin	ODI	79	0.33	2ND TSP	+0.14
21	63	02/95	C/L Speci	VOL		0.39	11TH TSP	+5.44
21	65	02/95	Bobbin	ODI	58	0.23	4TH TSP	-0.02
21	70	02/95	H/L Tubes	SAI		1.35	TTS-HL	-0.04
21	72	02/95	Bobbin	NQI		0.18	18TH TSP	+12.71
		02/95	Bobbin	ODI	10	0.33	3RD TSP	+23.23
		02/95	H/L Speci	VOL		1.17	3RD TSP	+23.40
		02/95	C/L Speci	VOL		0.42	17TH TSP	-12.31
		02/95	C/L Speci	VOL		0.88	17TH TSP	-9.88
21	81	02/95	H/L Speci	VOL		0.13	3RD TSP	-0.11
21	87	02/95	Bobbin	ODI	14	0.37	10TH TSP	+27.94
21	91	02/95	Bobbin	ODI	13	2.16	13TH TSP	+1.60
		02/95	C/L Speci	VOL		1.30	13TH TSP	+1.50
21	97	02/95	Bobbin	NQI		0.98	10TH TSP	+34.34
		02/95	Bobbin	ODI	22	0.80	15TH TSP	+8.65
		02/95	C/L Speci	VOL		1.02	14TH TSP	-2.26
		02/95	C/L Speci	VOL		1.42	10TH TSP	+33.98
21	102	02/95	Bobbin	ODI	12	0.87	1ST TSP	+17.06
		02/95	Bobbin	ODI	95	0.28	4TH TSP	-0.19
		02/95	H/L Speci	VOL		2.14	2ND TSP	-2.84
21	105	02/95	Bobbin	ODI	1	0.57	2ND TSP	+0.02
22	8	02/95	Bobbin	ODI	3	0.41	4TH TSP	+0.02
22	9	02/95	Bobbin	ODI	1	0.51	4TH TSP	-0.05
22	10	02/95	Bobbin	ODI	17	3.87	18TH TSP	+12.73
		02/95	C/L Speci	VOL		0.96	17TH TSP	-9.29

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
22	14	02/95	Bobbin	ODI	56	1.61	3RD TSP	+0.00	
		02/95	H/L Speci	SAI		0.17	3RD TSP	-0.09	
22	21	02/95	Bobbin	ODI	49	1.22	2ND TSP	+0.14	
22	22	02/95	Bobbin	ODI	76	1.95	2ND TSP	+0.10	
		02/95	H/L Speci	SAI		0.26	2ND TSP	+0.09	
22	26	02/95	Bobbin	ODI	27	0.30	3RD TSP	+0.05	
22	28	02/95	Bobbin	ODI	85	0.64	3RD TSP	+0.05	
22	31	02/95	Bobbin	NQI		0.52	7TH TSP	+14.26	
		02/95	Bobbin	WAR	8	2.10	18TH TSP	-0.07	
		02/95	H/L Speci	VOL		0.35	7TH TSP	+13.20	
		02/95	H/L Speci	VOL		0.39	7TH TSP	+5.44	
		02/95	H/L Speci	VOL		0.44	7TH TSP	+14.17	
22	36	02/95	H/L Speci	VOL		0.24	4TH TSP	-13.17	
22	44	02/95	Bobbin	ODI	27	0.41	13TH TSP	+4.36	
		02/95	C/L Speci	VOL		0.67	13TH TSP	+4.54	
22	51	02/95	Bobbin	ODI	5	0.83	13TH TSP	+13.61	
		02/95	Bobbin	ODI	5	0.96	20TH TSP	+4.79	
		02/95	Bobbin	ODI	11	0.78	11TH TSP	+30.97	
		02/95	C/L Speci	VOL		0.84	12TH TSP	-8.04	
		02/95	C/L Speci	VOL		0.86	20TH TSP	+5.27	
		02/95	C/L Speci	VOL		0.88	10TH TSP	-12.82	
22	57	02/95	Bobbin	ODI	13	0.54	22ND TSP	+15.23	
		02/95	C/L Speci	VOL		0.49	21ST TSP	-5.01	
22	59	02/95	Bobbin	ODI	82	0.42	8TH TSP	+0.00	
22	60	02/95	Bobbin	ODI	12	0.72	4TH TSP	+0.09	
		02/95	Bobbin	ODI	97	0.70	2ND TSP	+0.07	
22	61	02/95	Bobbin	NQI		0.68	21ST TSP	+4.57	
		02/95	C/L Speci	VOL		0.83	21ST TSP	+4.44	
22	64	02/95	Bobbin	ODI	97	0.58	2ND TSP	+0.02	
22	65	02/95	Bobbin	NQI		0.43	5TH TSP	+37.75	
		02/95	H/L Speci	VOL		0.45	6TH TSP	-6.80	
22	70	02/95	Bobbin	NQI		0.38	11TH TSP	+0.02	
22	72	02/95	U-Bend	VOL		4.74	8TH TSP	+4.82	
22	79	02/95	U-Bend	VOL		0.40	10TH TSP	+27.61	
22	82	02/95	C/L Speci	VOL		0.29	10TH TSP	-10.86	
		02/95	C/L Speci	VOL		0.38	10TH TSP	-12.01	
22	90	02/95	Bobbin	NQI		2.36	8TH TSP	+8.83	
		02/95	U-Bend	VOL		0.51	8TH TSP	+5.04	
		02/95	U-Bend	VOL		1.15	8TH TSP	+9.03	
22	96	02/95	Bobbin	ODI	52	0.23	4TH TSP	+0.02	
22	98	02/95	Bobbin	ODI	99	0.49	2ND TSP	+0.07	
22	99	02/95	Bobbin	ODI	17	0.28	4TH TSP	-0.05	
23	7	02/95	Bobbin	ODI	69	1.70	3RD TSP	+0.06	
23	8	02/95	Bobbin	ODI	9	0.93	11TH TSP	+2.45	
		02/95	C/L Speci	VOL		0.58	11TH TSP	+2.56	
23	32	02/95	Bobbin	ODI	96	0.99	2ND TSP	+0.09	
23	34	02/95	Bobbin	ODI	86	0.48	3RD TSP	+0.00	
23	36	02/95	Bobbin	ODI	98	0.58	3RD TSP	-0.04	
23	40	02/95	Bobbin	ODI	71	0.43	3RD TSP	+0.07	
23	41	02/95	Bobbin	ODI	99	0.78	3RD TSP	+0.07	
23	42	02/95	Bobbin	ODI	29	0.19	2ND TSP	+0.14	
23	48	02/95	Bobbin	NQI		19.17	TE-HL	+14.46	
		02/95	Bobbin	ODI	99	0.39	2ND TSP	+0.07	
23	49	02/95	Bobbin	NQI		0.44	2ND TSP	+0.07	
23	66	02/95	H/L Speci	VOL		0.20	6TH TSP	-0.21	
23	77	02/95	Bobbin	NQI		11.25	TE-HL	+15.40	
23	91	02/95	H/L Speci	VOL		0.42	4TH TSP	+3.65	
23	94	02/95	C/L Speci	VOL		0.39	11TH TSP	+8.40	
23	99	02/95	H/L Speci	VOL		1.41	3RD TSP	-3.34	
23	103	02/95	Bobbin	NQI		22.99	TE-HL	+11.34	
		02/95	H/L Speci	MAI		2.63	TTS-HL	-10.07	
24	7	02/95	C/L Speci	VOL		0.34	9TH TSP	-11.36	
		02/95	C/L Speci	VOL		0.34	9TH TSP	-15.04	
		02/95	C/L Speci	VOL		0.44	9TH TSP	-16.79	
		02/95	C/L Speci	VOL		1.00	9TH TSP	-13.72	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
24	22	02/95	C/L Spec	VOL		0.93	21ST TSP	-5.41
24	28	02/95	H/L Spec	VOL		0.08	7TH TSP	-0.23
		02/95	C/L Spec	VOL		0.39	11TH TSP	-8.16
24	29	02/95	C/L Spec	VOL		0.43	10TH TSP	+6.74
24	40	02/95	Bobbin	ODI	54	0.70	3RD TSP	+0.00
24	41	02/95	Bobbin	ODI	15	1.38	12TH TSP	+23.04
		02/95	C/L Spec	VOL		1.05	12TH TSP	+22.87
24	42	02/95	Bobbin	ODI	48	0.29	8TH TSP	-0.02
24	50	02/95	C/L Spec	VOL		0.73	11TH TSP	-13.12
24	52	02/95	Bobbin	NQI		1.90	TTS-HL	+0.62
24	58	02/95	Bobbin	ODI	9	1.11	6TH TSP	+24.40
		02/95	H/L Spec	VOL		0.32	6TH TSP	+24.36
24	69	02/95	Bobbin	ODI	56	0.49	6TH TSP	+0.12
24	72	02/95	Bobbin	ODI	26	0.66	22ND TSP	+3.55
		02/95	C/L Spec	VOL		0.19	22ND TSP	+4.07
24	73	02/95	C/L Spec	VOL		0.31	12TH TSP	+17.05
24	80	02/95	Bobbin	ODI	5	0.95	2ND TSP	+2.54
24	100	02/95	C/L Spec	VOL		0.25	10TH TSP	-8.09
25	8	02/95	Bobbin	ODI	10	0.13	5TH TSP	+0.17
25	13	02/95	Bobbin	ODI	75	0.31	4TH TSP	+0.04
25	26	02/95	Bobbin	ODI	16	1.11	19TH TSP	+5.88
		02/95	C/L Spec	VOL		0.30	18TH TSP	-2.12
25	38	02/95	C/L Spec	VOL		0.24	12TH TSP	+16.60
25	41	02/95	C/L Spec	VOL		0.67	17TH TSP	+7.06
25	42	02/95	Bobbin	ODI	7	0.29	4TH TSP	+0.00
25	56	02/95	Bobbin	ODI	26	2.82	4TH TSP	+26.59
		02/95	H/L Spec	VOL		1.87	4TH TSP	+26.65
25	63	02/95	Bobbin	NQI		23.35	TE-HL	+7.33
		02/95	Bobbin	ODI	7	0.27	3RD TSP	+0.00
		02/95	Bobbin	ODI	27	0.36	4TH TSP	+0.00
		02/95	Bobbin	ODI	36	0.69	2ND TSP	+0.00
25	66	02/95	Bobbin	ODI	38	0.33	7TH TSP	+0.00
25	68	02/95	H/L Tubes	SAI		1.41	TTS-HL	-2.33
		02/95	C/L Spec	VOL		0.67	17TH TSP	-3.79
25	69	02/95	Bobbin	ODI	65	0.25	7TH TSP	+0.10
25	75	02/95	Bobbin	ODI	55	0.54	3RD TSP	+0.00
25	76	02/95	Bobbin	ODI	51	0.25	4TH TSP	+0.07
25	77	02/95	Bobbin	NQI		25.74	TE-HL	+8.59
		02/95	Bobbin	NQI		27.57	TE-HL	+12.27
25	78	02/95	Bobbin	NQI		26.28	TE-HL	+15.14
25	80	02/95	Bobbin	NQI		2.88	9TH TSP	+15.75
		02/95	U-Bend	VOL		1.99	9TH TSP	+15.88
25	82	02/95	Bobbin	ODI	10	0.35	3RD TSP	+0.02
		02/95	Bobbin	ODI	96	0.56	2ND TSP	+0.05
25	94	02/95	Bobbin	ODI	6	1.51	3RD TSP	+18.70
		02/95	H/L Spec	VOL		0.61	3RD TSP	+18.62
25	95	02/95	Bobbin	ODI	6	1.21	3RD TSP	+16.14
		02/95	H/L Spec	VOL		0.46	3RD TSP	+15.90
25	96	02/95	Bobbin	ODI	1	0.19	6TH TSP	+0.07
25	100	02/95	Bobbin	ODI	3	0.48	5TH TSP	+18.99
		02/95	H/L Spec	VOL		0.21	5TH TSP	+19.85
25	102	02/95	Bobbin	ODI	29	0.34	4TH TSP	-0.05
25	103	02/95	Bobbin	ODI	1	2.45	3RD TSP	+34.83
		02/95	H/L Spec	VOL		0.24	4TH TSP	-8.38
		02/95	H/L Spec	VOL		0.64	4TH TSP	-8.63
25	108	02/95	Bobbin	ODI	14	0.32	3RD TSP	+18.56
		02/95	H/L Spec	VOL		0.99	3RD TSP	+18.76
26	9	02/95	Bobbin	ODI	72	0.42	3RD TSP	-0.05
26	10	02/95	Bobbin	ODI	88	0.53	4TH TSP	-0.10
		02/95	Bobbin	ODI	93	0.82	2ND TSP	+0.10
		02/95	H/L Spec	SAI		0.16	2ND TSP	+0.03
26	11	02/95	C/L Spec	VOL		0.37	9TH TSP	+0.13
26	12	02/95	Bobbin	ODI	13	0.24	4TH TSP	-0.22
26	13	02/95	Bobbin	ODI	75	0.31	3RD TSP	-0.17
26	14	02/95	Bobbin	ODI	1	0.54	2ND TSP	+0.27

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
26	15	02/95	Bobbin	ODI	1	0.51	4TH TSP	+0.02	
		02/95	Bobbin	ODI	61	0.42	3RD TSP	-0.12	
26	16	02/95	Bobbin	ODI	94	0.52	3RD TSP	+0.00	
		02/95	Bobbin	ODI	98	0.42	4TH TSP	+0.02	
26	17	02/95	Bobbin	ODI	95	0.50	2ND TSP	+0.10	
		02/95	Bobbin	ODI	99	0.42	3RD TSP	-0.05	
26	18	02/95	Bobbin	ODI	74	0.34	4TH TSP	-0.05	
		02/95	Bobbin	ODI	99	2.46	3RD TSP	+0.00	
26	20	02/95	Bobbin	ODI	55	0.15	4TH TSP	+0.07	
26	21	02/95	Bobbin	ODI	76	0.62	3RD TSP	+0.02	
26	22	02/95	Bobbin	ODI	87	0.30	5TH TSP	+0.00	
26	27	02/95	Bobbin	ODI	84	0.23	3RD TSP	+0.07	
26	31	02/95	Bobbin	ODI	68	0.53	3RD TSP	+0.14	
26	40	02/95	C/L Speci	VOL		0.41	14TH TSP	-4.32	
26	42	02/95	Bobbin	ODI	1	0.37	4TH TSP	+0.16	
26	45	02/95	Bobbin	ODI	88	0.37	2ND TSP	+0.07	
26	51	02/95	Bobbin	ODI	96	0.24	2ND TSP	+0.15	
26	55	02/95	C/L Speci	VOL		0.40	15TH TSP	+6.45	
		02/95	C/L Speci	VOL		0.61	15TH TSP	+4.44	
26	56	02/95	Bobbin	ODI	13	0.77	12TH TSP	+8.50	
		02/95	C/L Speci	VOL		0.33	12TH TSP	+11.00	
		02/95	C/L Speci	VOL		0.37	12TH TSP	+7.84	
		02/95	C/L Speci	VOL		0.44	11TH TSP	-17.26	
		02/95	C/L Speci	VOL		0.54	12TH TSP	+3.38	
26	57	02/95	C/L Speci	VOL		0.22	TTS-CL	+1.74	
26	71	02/95	Bobbin	ODI	37	0.48	5TH TSP	+41.90	
		02/95	H/L Speci	VOL		0.28	6TH TSP	-4.21	
		02/95	H/L Speci	VOL		0.41	6TH TSP	-1.95	
26	80	02/95	Bobbin	ODI	17	0.95	2ND TSP	+10.53	
		02/95	H/L Speci	VOL		0.65	2ND TSP	+10.74	
26	81	02/95	Bobbin	ODI	26	0.37	3RD TSP	+34.57	
		02/95	Bobbin	ODI	7	0.39	13TH TSP	+4.13	
		02/95	Bobbin	ODI	7	0.51	13TH TSP	+1.77	
		02/95	H/L Speci	VOL		0.42	4TH TSP	-9.73	
		02/95	C/L Speci	VOL		0.25	13TH TSP	+3.93	
		02/95	C/L Speci	VOL		0.30	13TH TSP	+2.97	
		02/95	C/L Speci	VOL		0.35	11TH TSP	+12.99	
		02/95	C/L Speci	VOL		0.59	13TH TSP	+1.69	
26	82	02/95	U-Bend	VOL		0.73	1AVB	-0.93	
26	90	02/95	Bobbin	ODI	4	0.22	4TH TSP	+0.07	
26	91	02/95	Bobbin	NQI		0.63	8TH TSP	+2.01	
		02/95	U-Bend	VOL		0.50	8TH TSP	+2.21	
26	95	02/95	U-Bend	VOL		0.70	4AVB	+13.29	
		02/95	Bobbin	NQI		3.29	TTS-CL	-1.32	
26	97	02/95	Bobbin	ODI	10	0.41	7TH TSP	+29.20	
		02/95	Bobbin	ODI	6	0.43	10TH TSP	+24.04	
		02/95	C/L Speci	VOL		0.37	9TH TSP	-20.74	
		02/95	H/L Speci	VOL		0.56	7TH TSP	+29.93	
26	98	02/95	Bobbin	ODI	19	0.96	4TH TSP	+8.77	
		02/95	H/L Speci	SAI		0.41	3RD TSP	+0.19	
		02/95	H/L Speci	VOL		1.03	4TH TSP	+9.09	
26	101	02/95	Bobbin	ODI	32	0.19	4TH TSP	-0.05	
26	102	02/95	Bobbin	ODI	4	0.44	4TH TSP	+28.42	
		02/95	H/L Speci	VOL		0.37	4TH TSP	+28.17	
26	103	02/95	Bobbin	ODI	7	1.05	10TH TSP	+16.20	
		02/95	Bobbin	ODI	7	1.28	12TH TSP	+34.72	
		02/95	H/L Speci	SAI		0.21	2ND TSP	+0.00	
		02/95	C/L Speci	VOL		0.66	10TH TSP	+16.17	
		02/95	C/L Speci	VOL		0.90	11TH TSP	-9.33	
		02/95	C/L Speci	VOL		0.90	11TH TSP	-9.33	
26	104	02/95	Bobbin	ODI	87	0.37	3RD TSP	+0.00	
26	106	02/95	Bobbin	ODI	75	0.94	3RD TSP	+0.00	
		02/95	H/L Speci	MAI		0.35	3RD TSP	+0.00	
27	24	02/95	Bobbin	ODI	13	0.76	4TH TSP	-0.09	
27	28	02/95	Bobbin	ODI	88	0.27	3RD TSP	+0.00	

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

27	31	02/95	Bobbin	ODI	48	0.18	4TH TSP	+0.02
27	40	02/95	Bobbin	ODI	13	0.31	4TH TSP	-0.02
27	43	02/95	Bobbin	ODI	92	0.14	4TH TSP	+0.09
		02/95	Bobbin	ODI	11	0.31	11TH TSP	+10.20
		02/95	C/L Speci	VOL		0.28	11TH TSP	+6.95
		02/95	C/L Speci	VOL		0.28	11TH TSP	+10.23
		02/95	C/L Speci	VOL		0.62	11TH TSP	+12.45
27	44	02/95	Bobbin	ODI	13	0.29	4TH TSP	+0.07
27	57	02/95	Bobbin	ODI	7	0.42	6TH TSP	+39.19
		02/95	Bobbin	ODI	7	1.08	6TH TSP	+33.69
		02/95	Bobbin	ODI	15	1.40	6TH TSP	+31.83
		02/95	Bobbin	ODI	18	0.61	5TH TSP	+20.18
		02/95	H/L Speci	VOL		0.42	6TH TSP	+19.67
		02/95	H/L Speci	VOL		0.48	6TH TSP	+39.15
		02/95	H/L Speci	VOL		0.57	6TH TSP	+33.25
		02/95	H/L Speci	VOL		0.88	6TH TSP	+31.31
27	62	02/95	Bobbin	ODI	11	1.05	4TH TSP	+5.11
		02/95	H/L Speci	VOL		0.28	4TH TSP	+5.58
27	65	02/95	Bobbin	ODI	59	0.21	5TH TSP	+0.07
		02/95	Bobbin	ODI	86	0.11	2ND TSP	+0.10
27	68	02/95	Bobbin	ODI	43	0.46	2ND TSP	+0.00
27	70	02/95	Bobbin	ODI	99	0.24	5TH TSP	+0.05
27	82	02/95	C/L Speci	VOL		0.29	10TH TSP	+36.04
		02/95	C/L Speci	VOL		0.35	12TH TSP	+19.42
27	86	02/95	C/L Speci	VOL		1.46	10TH TSP	-17.38
		02/95	C/L Speci	VOL		1.51	10TH TSP	-19.04
27	87	02/95	Bobbin	ODI	6	0.47	3RD TSP	+0.10
		02/95	Bobbin	ODI	9	0.13	6TH TSP	-0.02
27	90	02/95	Bobbin	NQI		21.18	TE-HL	+7.74
27	94	02/95	Bobbin	ODI	11	0.55	1ST TSP	+7.34
		02/95	H/L Speci	VOL		0.47	1ST TSP	+7.47
27	95	02/95	Bobbin	ODI	35	0.16	3RD TSP	+0.07
27	97	02/95	H/L Speci	VOL		0.87	2ND TSP	+3.10
27	101	02/95	Bobbin	NQI		2.78	TE-CL	+11.18
27	104	02/95	Bobbin	ODI	72	0.22	3RD TSP	+0.12
28	12	02/95	Bobbin	ODI	7	0.38	6TH TSP	+0.09
28	13	02/95	Bobbin	ODI	14	0.79	12TH TSP	+26.69
		02/95	Bobbin	ODI	17	0.64	12TH TSP	+28.47
		02/95	Bobbin	ODI	27	1.06	12TH TSP	+22.46
		02/95	Bobbin	ODI	35	0.52	12TH TSP	+19.91
		02/95	C/L Speci	VOL		0.42	11TH TSP	-15.49
		02/95	C/L Speci	VOL		0.50	11TH TSP	-17.30
		02/95	C/L Speci	VOL		0.56	11TH TSP	-24.04
		02/95	C/L Speci	VOL		0.81	11TH TSP	-21.47
28	16	02/95	Bobbin	NQI		1.13	9TH TSP	+22.62
		02/95	U-Bend	VOL		2.85	9TH TSP	+20.68
28	20	02/95	Bobbin	NQI		0.50	6TH TSP	+26.27
		02/95	Bobbin	NQI		1.37	9TH TSP	+15.00
		02/95	U-Bend	VOL		0.67	9TH TSP	+13.94
		02/95	H/L Speci	VOL		0.47	7TH TSP	-17.75
28	26	02/95	U-Bend	VOL		1.79	9TH TSP	+11.32
		02/95	Bobbin	NQI		0.60	18TH TSP	+1.57
		02/95	H/L Speci	VOL		0.28	7TH TSP	-6.57
		02/95	H/L Speci	VOL		0.43	7TH TSP	-2.10
		02/95	H/L Speci	VOL		0.56	7TH TSP	-3.94
		02/95	H/L Speci	VOL		1.09	7TH TSP	-11.31
		02/95	C/L Speci	VOL		0.53	18TH TSP	+1.79
28	38	02/95	Bobbin	NQI		0.43	18TH TSP	+2.32
		02/95	Bobbin	ODI	21	0.24	4TH TSP	+0.07
		02/95	C/L Speci	VOL		0.69	18TH TSP	+2.58
28	39	02/95	Bobbin	ODI	91	0.13	4TH TSP	+0.00
28	40	02/95	Bobbin	NQI		3.41	TE-HL	+19.28
		02/95	H/L Speci	SAI		1.21	TE-HL	+5.63
28	45	02/95	Bobbin	NQI		0.43	TTS-CL	+1.51
		02/95	C/L Speci	VOL		0.25	TTS-CL	+1.45

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
28	46	02/95	Bobbin	ODI	14	1.52	15TH TSP	+2.61	
		02/95	C/L Spec	VOL		0.94	15TH TSP	+2.85	
28	48	02/95	Bobbin	ODI	33	1.37	TTS-CL	+5.36	
		02/95	C/L Spec	VOL		0.60	TTS-CL	+5.35	
28	57	02/95	Bobbin	NQI		0.32	11TH TSP	-0.10	
28	63	02/95	Bobbin	ODI	65	0.88	2ND TSP	+0.02	
		02/95	H/L Spec	MAI		0.20	2ND TSP	+0.00	
28	67	02/95	Bobbin	ODI	97	0.65	2ND TSP	+0.12	
28	76	02/95	H/L Spec	VOL		1.21	6TH TSP	+2.51	
28	83	02/95	Bobbin	ODI	89	0.33	7TH TSP	+0.02	
28	88	02/95	Bobbin	ODI	51	0.55	3RD TSP	+0.07	
28	90	02/95	Bobbin	ODI	82	0.70	2ND TSP	+0.02	
28	94	02/95	H/L Spec	VOL		0.60	8TH TSP	-2.50	
28	95	02/95	Bobbin	ODI	93	0.44	3RD TSP	+0.07	
28	103	02/95	Bobbin	ODI	88	0.75	3RD TSP	+0.12	
28	106	02/95	Bobbin	ODI	18	0.40	3RD TSP	+38.44	
		02/95	H/L Spec	VOL		0.93	4TH TSP	-5.97	
29	11	02/95	Bobbin	NQI		1.08	4AVB	+4.36	
		02/95	U-Bend	VOL		2.55	4AVB	+3.61	
29	12	02/95	U-Bend	VOL		1.86	1AVB	+3.36	
		02/95	Bobbin	ODI	38	0.94	1AVB	+4.59	
29	13	02/95	Bobbin	ODI	15	0.33	21ST TSP	+2.13	
		02/95	C/L Spec	VOL		0.26	21ST TSP	+2.09	
29	16	02/95	Bobbin	ODI	6	2.96	3RD TSP	+27.70	
		02/95	Bobbin	ODI	11	0.11	5TH TSP	+0.12	
		02/95	H/L Spec	VOL		2.38	3RD TSP	+27.11	
29	18	02/95	H/L Spec	VOL		0.36	3RD TSP	+20.21	
29	19	02/95	C/L Spec	VOL		0.82	21ST TSP	-7.32	
29	20	02/95	Bobbin	ODI	29	0.76	12TH TSP	+19.57	
		02/95	C/L Spec	VOL		0.71	12TH TSP	+19.56	
29	31	02/95	Bobbin	ODI	31	0.20	4TH TSP	+0.05	
		02/95	Bobbin	ODI	91	0.49	2ND TSP	+0.05	
29	42	02/95	Bobbin	ODI	4	0.16	5TH TSP	+0.10	
29	57	02/95	Bobbin	NQI		0.30	11TH TSP	-0.07	
29	59	02/95	Bobbin	ODI	10	0.95	3RD TSP	+3.77	
		02/95	Bobbin	ODI	4	0.75	11TH TSP	+26.37	
		02/95	Bobbin	ODI	13	1.21	10TH TSP	+2.42	
		02/95	Bobbin	ODI	18	1.04	17TH TSP	+7.95	
		02/95	H/L Spec	VOL		0.10	3RD TSP	+7.88	
		02/95	H/L Spec	VOL		0.18	3RD TSP	+4.07	
		02/95	H/L Spec	VOL		0.18	6TH TSP	+22.71	
		02/95	H/L Spec	VOL		0.32	6TH TSP	+2.56	
		02/95	H/L Spec	VOL		0.37	6TH TSP	+21.41	
		02/95	H/L Spec	VOL		0.51	7TH TSP	+8.19	
		02/95	C/L Spec	VOL		0.38	10TH TSP	-18.24	
		02/95	C/L Spec	VOL		0.53	10TH TSP	+2.26	
		02/95	C/L Spec	VOL		0.56	16TH TSP	-3.83	
29	62	02/95	Bobbin	ODI	94	0.97	3RD TSP	+0.07	
		02/95	H/L Spec	SAI		0.92	3RD TSP	+0.07	
29	63	02/95	Bobbin	ODI	14	1.23	22ND TSP	+8.19	
		02/95	C/L Spec	VOL		1.18	22ND TSP	+8.53	
29	64	02/95	H/L Spec	VOL		1.39	4TH TSP	-9.91	
29	65	02/95	Bobbin	ODI	99	0.41	2ND TSP	+0.17	
29	74	02/95	Bobbin	ODI	27	0.24	7TH TSP	+0.10	
		02/95	Bobbin	ODI	39	0.21	5TH TSP	+0.20	
29	75	02/95	Bobbin	ODI	98	0.42	6TH TSP	+0.05	
29	80	02/95	Bobbin	ODI	9	1.71	12TH TSP	+13.67	
		02/95	C/L Spec	VOL		1.15	12TH TSP	+14.01	
29	81	02/95	Bobbin	NQI		15.34	TE-HL	+7.49	
		02/95	Bobbin	ODI	51	0.23	4TH TSP	+0.05	
29	82	02/95	H/L Spec	VOL		0.52	5TH TSP	+23.08	
29	90	02/95	Bobbin	ODI	44	0.20	4TH TSP	+0.05	
29	95	02/95	Bobbin	NQI		0.59	19TH TSP	+4.24	
		02/95	C/L Spec	VOL		0.86	19TH TSP	+4.34	
29	98	02/95	Bobbin	ODI	22	1.35	7TH TSP	+36.84	

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.79	4TH TSP	+19.55
		02/95	H/L Speci	VOL		0.92	4TH TSP	+23.64
		02/95	H/L Speci	VOL		0.93	4TH TSP	+20.39
		02/95	H/L Speci	VOL		0.96	8TH TSP	-7.38
		02/95	H/L Speci	VOL		1.06	4TH TSP	+22.20
29	103	02/95	Bobbin	ODI	8	0.66	5TH TSP	+26.60
		02/95	Bobbin	ODI	10	1.47	5TH TSP	+41.08
		02/95	H/L Speci	VOL		0.25	5TH TSP	+19.29
		02/95	H/L Speci	VOL		0.32	5TH TSP	+19.92
		02/95	H/L Speci	VOL		0.33	5TH TSP	+22.07
		02/95	H/L Speci	VOL		0.42	6TH TSP	+7.60
		02/95	H/L Speci	VOL		0.54	5TH TSP	+35.60
		02/95	H/L Speci	VOL		0.54	6TH TSP	+0.25
		02/95	H/L Speci	VOL		0.67	5TH TSP	+34.22
		02/95	H/L Speci	VOL		0.69	5TH TSP	+41.70
		02/95	H/L Speci	VOL		0.76	5TH TSP	+26.60
29	105	02/95	H/L Speci	VOL		0.32	TTS-HL	+3.58
30	10	02/95	Bobbin	NQI		1.90	TE-HL	+15.15
30	11	02/95	Bobbin	ODI	68	0.26	6TH TSP	+0.14
30	13	02/95	H/L Tubes	VOL		0.61	TTS-HL	-0.25
30	14	02/95	Bobbin	ODI	15	1.54	14TH TSP	+0.96
		02/95	Bobbin	ODI	23	0.79	11TH TSP	+2.63
		02/95	C/L Speci	VOL		0.54	14TH TSP	+1.08
		02/95	C/L Speci	VOL		0.58	11TH TSP	+2.43
30	15	02/95	Bobbin	ODI	10	0.15	10TH TSP	-0.07
30	16	02/95	Bobbin	ODI	20	0.15	4TH TSP	+0.00
30	23	02/95	Bobbin	ODI	96	1.17	3RD TSP	+0.00
		02/95	H/L Speci	SAI		0.82	3RD TSP	+0.00
30	25	02/95	Bobbin	ODI	13	1.64	11TH TSP	+31.63
		02/95	C/L Speci	VOL		0.88	10TH TSP	-12.33
30	28	02/95	Bobbin	ODI	79	0.20	3RD TSP	+0.00
30	30	02/95	Bobbin	NQI		0.56	15TH TSP	+9.14
		02/95	C/L Speci	VOL		0.81	14TH TSP	-1.69
30	33	02/95	H/L Speci	VOL		0.39	7TH TSP	-13.05
		02/95	H/L Speci	VOL		0.54	5TH TSP	-8.24
30	37	02/95	Bobbin	ODI	79	0.23	4TH TSP	+0.12
30	47	02/95	Bobbin	NQI		0.66	18TH TSP	+19.96
		02/95	C/L Speci	VOL		0.33	17TH TSP	-1.91
30	51	02/95	Bobbin	ODI	27	0.25	4TH TSP	+0.10
30	52	02/95	Bobbin	ODI	68	0.91	2ND TSP	+0.02
30	53	02/95	C/L Speci	VOL		0.48	11TH TSP	+2.84
30	55	02/95	Bobbin	NQI		0.42	11TH TSP	-0.05
30	78	02/95	H/L Speci	VOL		0.39	6TH TSP	+29.25
30	79	02/95	Bobbin	ODI	2	2.43	12TH TSP	+11.34
		02/95	C/L Speci	VOL		0.89	12TH TSP	+11.62
30	102	02/95	Bobbin	ODI	84	0.37	3RD TSP	+0.00
		02/95	Bobbin	ODI	91	0.77	2ND TSP	+0.13
31	11	02/95	Bobbin	ODI	20	0.66	4TH TSP	-0.12
31	13	02/95	U-Bend	VOL		2.69	1AVB	+10.65
		02/95	Bobbin	NQI		1.03	5TH TSP	+8.50
		02/95	Bobbin	ODI	79	0.83	3RD TSP	+0.02
		02/95	H/L Speci	VOL		0.67	5TH TSP	+8.59
31	15	02/95	H/L Speci	VOL		0.44	2ND TSP	+12.75
31	23	02/95	H/L Speci	VOL		1.05	1ST TSP	+14.37
31	28	02/95	H/L Speci	VOL		0.55	5TH TSP	+10.61
31	34	02/95	Bobbin	NQI		0.91	8TH TSP	+19.61
		02/95	U-Bend	VOL		1.00	8TH TSP	+19.70
		02/95	Bobbin	ODI	15	1.14	18TH TSP	+2.92
		02/95	H/L Speci	VOL		1.05	1ST TSP	+9.54
		02/95	C/L Speci	VOL		0.45	18TH TSP	+2.87
31	38	02/95	Bobbin	ODI	17	0.78	13TH TSP	+8.57
		02/95	C/L Speci	VOL		0.87	13TH TSP	+8.71
31	40	02/95	Bobbin	ODI	94	0.44	3RD TSP	-0.02
31	47	02/95	Bobbin	ODI	13	0.46	13TH TSP	+9.25
		02/95	C/L Speci	VOL		0.71	13TH TSP	+9.61

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

31	52	02/95	Bobbin	ODI	89	0.26	4TH TSP	+0.12
31	54	02/95	Bobbin	NQI		0.29	19TH TSP	+2.98
31	55	02/95	Bobbin	NQI		2.96	8TH TSP	+7.50
		02/95	U-Bend	VOL		0.31	8TH TSP	+7.52
31	57	02/95	Bobbin	ODI	74	0.58	2ND TSP	+0.12
31	59	02/95	Bobbin	ODI	8	0.84	11TH TSP	+38.28
		02/95	C/L Speci	VOL		0.34	10TH TSP	-6.29
31	60	02/95	Bobbin	ODI	28	0.72	6TH TSP	+34.77
		02/95	H/L Speci	VOL		0.28	7TH TSP	-10.01
31	62	02/95	Bobbin	ODI	26	0.22	8TH TSP	-0.03
31	65	02/95	Bobbin	ODI	13	1.09	6TH TSP	+12.43
		02/95	H/L Speci	VOL		0.57	6TH TSP	+13.22
31	66	02/95	Bobbin	ODI	86	0.42	2ND TSP	+0.14
31	69	02/95	Bobbin	ODI	7	0.41	6TH TSP	+0.25
31	71	02/95	Bobbin	ODI	13	1.58	10TH TSP	+30.26
		02/95	C/L Speci	VOL		0.24	9TH TSP	-15.57
31	83	02/95	Bobbin	ODI	4	0.49	5TH TSP	+0.17
31	85	02/95	Bobbin	ODI	43	0.25	2ND TSP	+0.00
31	90	02/95	Bobbin	NQI		4.88	TE-CL	+9.09
31	93	02/95	Bobbin	ODI	9	0.96	7TH TSP	+8.09
		02/95	Bobbin	ODI	11	1.30	7TH TSP	+5.95
		02/95	H/L Speci	VOL		0.64	7TH TSP	+9.25
		02/95	H/L Speci	VOL		0.87	7TH TSP	+6.81
31	95	02/95	Bobbin	ODI	60	0.27	2ND TSP	+0.00
32	12	02/95	Bobbin	ODI	91	0.64	2ND TSP	+0.17
32	13	02/95	Bobbin	ODI	86	0.46	4TH TSP	-0.02
32	15	02/95	Bobbin	ODI	8	0.58	18TH TSP	+5.81
		02/95	C/L Speci	VOL		0.23	18TH TSP	+5.82
32	19	02/95	Bobbin	ODI	79	0.13	4TH TSP	+0.05
32	25	02/95	Bobbin	ODI	16	1.37	12TH TSP	+25.67
		02/95	C/L Speci	VOL		0.25	11TH TSP	-18.84
32	30	02/95	Bobbin	ODI	74	0.51	3RD TSP	-0.10
32	32	02/95	Bobbin	ODI	85	0.32	3RD TSP	-0.07
32	37	02/95	Bobbin	ODI	90	0.37	2ND TSP	+0.15
32	42	02/95	Bobbin	ODI	26	0.16	7TH TSP	-0.10
32	44	02/95	Bobbin	ODI	11	4.75	7TH TSP	-1.17
		02/95	H/L Speci	VOL		2.50	7TH TSP	-0.84
32	46	02/95	Bobbin	ODI	18	0.87	10TH TSP	+17.85
		02/95	C/L Speci	VOL		0.73	10TH TSP	+17.60
32	48	02/95	Bobbin	NQI		3.26	4AVB	+5.42
		02/95	U-Bend	VOL		0.82	4AVB	+5.02
32	58	02/95	Bobbin	ODI	83	1.01	3RD TSP	-0.17
		02/95	Bobbin	ODI	96	0.53	2ND TSP	-0.24
32	66	02/95	Bobbin	NQI		1.83	2AVB	-1.34
		02/95	U-Bend	VOL		0.40	2AVB	-1.52
32	70	02/95	Bobbin	ODI	7	1.77	7TH TSP	+29.82
		02/95	H/L Speci	VOL		1.34	7TH TSP	+30.23
32	74	02/95	U-Bend	VOL		0.60	9TH TSP	+12.02
		02/95	Bobbin	ODI	12	0.90	9TH TSP	+11.74
32	77	02/95	Bobbin	NQI		1.52	1AVB	+10.12
		02/95	U-Bend	VOL		0.99	8TH TSP	+41.44
		02/95	Bobbin	ODI	23	2.36	10TH TSP	+34.53
		02/95	C/L Speci	VOL		0.78	9TH TSP	-10.35
32	78	02/95	Bobbin	NQI		1.06	1AVB	+1.84
		02/95	U-Bend	VOL		1.50	1AVB	+2.07
32	85	02/95	Bobbin	ODI	17	0.85	7TH TSP	+31.70
		02/95	Bobbin	ODI	21	0.56	7TH TSP	+37.55
		02/95	Bobbin	ODI	80	0.24	3RD TSP	+0.16
		02/95	H/L Speci	VOL		0.32	8TH TSP	-6.73
		02/95	H/L Speci	VOL		0.54	8TH TSP	-13.91
		02/95	H/L Speci	VOL		0.63	8TH TSP	-12.89
32	86	02/95	Bobbin	ODI	73	0.27	2ND TSP	+0.07
32	97	02/95	Bobbin	ODI	41	0.46	6TH TSP	+32.62
		02/95	Bobbin	ODI	45	0.58	6TH TSP	+29.79
		02/95	H/L Speci	VOL		0.12	7TH TSP	-11.25

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.20	7TH TSP	-14.01
32	101	02/95	Bobbin	NQI		0.61	5TH TSP	+11.51
		02/95	Bobbin	NQI		0.84	7TH TSP	+10.85
		02/95	Bobbin	NQI		0.21	10TH TSP	+25.03
		02/95	Bobbin	ODI	34	0.35	12TH TSP	+14.57
		02/95	H/L Speci	VOL		0.54	5TH TSP	+11.64
		02/95	H/L Speci	VOL		0.86	7TH TSP	+10.78
		02/95	C/L Speci	VOL		0.70	12TH TSP	+14.99
32	103	02/95	Bobbin	NQI		0.79	5TH TSP	+22.32
		02/95	H/L Speci	VOL		1.03	5TH TSP	+23.00
33	14	02/95	Bobbin	ODI	36	0.22	6TH TSP	+0.19
33	16	02/95	Bobbin	ODI	91	0.68	6TH TSP	+0.14
33	17	02/95	Bobbin	ODI	95	0.33	3RD TSP	+0.12
33	20	02/95	Bobbin	ODI	25	0.48	6TH TSP	+0.02
33	48	02/95	Bobbin	ODI	1	0.23	4TH TSP	+0.05
33	50	02/95	Bobbin	ODI	45	0.55	2ND TSP	+0.09
33	52	02/95	H/L Speci	VOL		0.41	8TH TSP	-8.29
33	58	02/95	Bobbin	ODI	77	0.67	5TH TSP	+0.17
33	59	02/95	Bobbin	ODI	35	1.66	3RD TSP	+15.96
33	60	02/95	C/L Speci	VOL		0.66	11TH TSP	-20.35
33	63	02/95	Bobbin	ODI	1	0.88	11TH TSP	+7.05
		02/95	Bobbin	ODI	11	1.11	12TH TSP	+36.71
		02/95	C/L Speci	VOL		0.61	11TH TSP	+8.87
		02/95	C/L Speci	VOL		0.68	11TH TSP	+7.36
		02/95	C/L Speci	VOL		1.06	11TH TSP	-7.26
33	64	02/95	Bobbin	ODI	42	0.17	7TH TSP	+0.12
33	65	02/95	Bobbin	ODI	15	0.49	7TH TSP	+0.00
33	70	02/95	Bobbin	NQI		0.26	19TH TSP	+1.86
		02/95	C/L Speci	VOL		0.42	19TH TSP	+2.02
33	72	02/95	Bobbin	NQI		0.59	2ND TSP	+11.55
		02/95	H/L Speci	VOL		1.05	2ND TSP	+11.36
33	89	02/95	Bobbin	ODI	27	0.21	6TH TSP	+0.05
33	91	02/95	Bobbin	ODI	4	1.02	20TH TSP	+6.52
		02/95	C/L Speci	VOL		0.81	20TH TSP	+7.02
33	97	02/95	Bobbin	ODI	86	0.34	3RD TSP	+0.07
33	98	02/95	Bobbin	NQI		0.34	4TH TSP	+41.52
		02/95	Bobbin	ODI	7	0.56	5TH TSP	+37.86
		02/95	H/L Speci	VOL		0.34	5TH TSP	-3.91
		02/95	H/L Speci	VOL		0.83	6TH TSP	-5.94
33	100	02/95	Bobbin	ODI	27	0.79	4TH TSP	+39.21
		02/95	H/L Speci	VOL		0.60	5TH TSP	-5.24
33	101	02/95	Bobbin	ODI	4	0.68	5TH TSP	+23.22
		02/95	H/L Speci	VOL		0.42	5TH TSP	+23.37
34	13	02/95	Bobbin	NQI		1.08	9TH TSP	+19.37
		02/95	U-Bend	VOL		0.66	9TH TSP	+19.01
		02/95	Bobbin	ODI	20	0.39	4TH TSP	-0.02
		02/95	Bobbin	ODI	99	0.56	2ND TSP	+0.05
34	17	02/95	Bobbin	ODI	21	0.80	3RD TSP	+10.28
		02/95	Bobbin	ODI	27	0.30	6TH TSP	+0.07
		02/95	Bobbin	ODI	88	0.64	2ND TSP	+0.18
		02/95	Bobbin	ODI	98	0.68	3RD TSP	+0.16
		02/95	H/L Speci	VOL		1.03	3RD TSP	+10.04
34	18	02/95	Bobbin	ODI	65	1.02	3RD TSP	+0.14
34	19	02/95	Bobbin	ODI	89	0.56	3RD TSP	+0.21
34	22	02/95	Bobbin	ODI	76	0.33	4TH TSP	-0.14
34	24	02/95	Bobbin	NQI		1.37	TE-HL	+11.33
		02/95	Bobbin	NQI		3.97	TE-HL	+12.21
34	27	02/95	Bobbin	ODI	87	0.58	2ND TSP	+0.13
34	42	02/95	Bobbin	ODI	80	0.65	3RD TSP	-0.14
34	57	02/95	Bobbin	ODI	1	0.68	4TH TSP	-0.05
34	60	02/95	Bobbin	ODI	18	0.25	19TH TSP	+1.94
		02/95	C/L Speci	VOL		0.42	19TH TSP	+1.96
34	61	02/95	Bobbin	ODI	13	0.37	10TH TSP	+8.60
		02/95	C/L Speci	VOL		0.25	10TH TSP	+8.90
34	89	02/95	Bobbin	ODI	8	0.54	5TH TSP	+20.83

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	8	0.66	5TH TSP	+20.04
		02/95	H/L Spec	VOL		0.58	5TH TSP	+20.70
		02/95	H/L Spec	VOL		0.60	5TH TSP	+19.93
34	99	02/95	H/L Spec	VOL		0.27	5TH TSP	-8.99
		02/95	H/L Spec	VOL		0.64	7TH TSP	-7.54
		02/95	H/L Spec	VOL		0.72	6TH TSP	-7.19
		02/95	C/L Spec	VOL		0.71	21ST TSP	-5.90
35	17	02/95	Bobbin	ODI	1	0.60	2ND TSP	+0.00
35	19	02/95	C/L Spec	VOL		0.28	17TH TSP	-10.84
35	20	02/95	Bobbin	ODI	1	0.46	4TH TSP	+0.05
35	25	02/95	Bobbin	ODI	92	0.37	4TH TSP	-0.15
		02/95	Bobbin	ODI	15	1.57	12TH TSP	+31.05
		02/95	Bobbin	ODI	30	1.27	12TH TSP	+26.47
		02/95	C/L Spec	VOL		0.61	11TH TSP	-17.42
		02/95	C/L Spec	VOL		1.05	11TH TSP	-12.83
35	33	02/95	Bobbin	ODI	1	0.20	4TH TSP	+0.15
35	34	02/95	Bobbin	ODI	43	0.23	4TH TSP	+0.07
35	47	02/95	Bobbin	ODI	5	1.19	3RD TSP	+15.72
		02/95	Bobbin	ODI	8	0.78	3RD TSP	+11.12
		02/95	Bobbin	ODI	54	0.57	3RD TSP	-0.07
		02/95	H/L Spec	VOL		0.79	3RD TSP	+10.66
		02/95	H/L Spec	VOL		0.87	3RD TSP	+15.02
35	48	02/95	Bobbin	ODI	5	1.23	18TH TSP	+15.16
		02/95	C/L Spec	VOL		0.30	17TH TSP	-7.29
35	52	02/95	Bobbin	WAR	8	0.45	1AVB	+0.00
35	55	02/95	Bobbin	ODI	39	0.56	5TH TSP	-0.12
35	57	02/95	Bobbin	NQI	14.55		TE-HL	+14.33
		02/95	Bobbin	ODI	38	0.24	6TH TSP	+0.12
35	62	02/95	C/L Spec	VOL		0.42	10TH TSP	-22.15
35	67	02/95	Bobbin	ODI	19	2.07	13TH TSP	+15.53
		02/95	C/L Spec	VOL		1.11	12TH TSP	-6.40
35	77	02/95	Bobbin	NQI		0.36	3RD TSP	+39.64
		02/95	Bobbin	NQI		0.43	22ND TSP	+8.21
		02/95	H/L Spec	VOL		0.32	4TH TSP	-3.97
35	78	02/95	C/L Spec	VOL		0.67	11TH TSP	+21.66
35	82	02/95	C/L Spec	VOL		0.53	10TH TSP	-5.90
35	91	02/95	Bobbin	NQI		0.50	2ND TSP	+18.28
		02/95	H/L Spec	VOL		0.64	2ND TSP	+18.83
35	92	02/95	Bobbin	ODI	13	1.36	4TH TSP	+31.65
		02/95	Bobbin	ODI	18	1.22	12TH TSP	+24.50
		02/95	H/L Spec	VOL		1.55	5TH TSP	-12.77
		02/95	C/L Spec	VOL		0.73	12TH TSP	+24.76
35	96	02/95	U-Bend	VOL		2.49	3AVB	+9.37
		02/95	Bobbin	NQI		0.58	12TH TSP	+26.60
		02/95	Bobbin	ODI	20	1.30	19TH TSP	+6.42
		02/95	Bobbin	ODI	20	1.53	10TH TSP	+7.82
		02/95	C/L Spec	VOL		0.79	11TH TSP	-18.05
		02/95	C/L Spec	VOL		0.90	18TH TSP	-1.74
		02/95	C/L Spec	VOL		0.99	10TH TSP	+8.22
35	98	02/95	H/L Spec	VOL		0.66	5TH TSP	-8.20
36	32	02/95	Bobbin	ODI	78	0.41	4TH TSP	-0.10
36	34	02/95	Bobbin	ODI	7	0.40	18TH TSP	+7.61
36	41	02/95	Bobbin	ODI	63	0.60	3RD TSP	+0.07
36	43	02/95	Bobbin	ODI	1	1.49	3RD TSP	+7.45
		02/95	Bobbin	ODI	10	1.06	10TH TSP	+13.37
		02/95	H/L Spec	VOL		0.34	3RD TSP	+7.72
		02/95	C/L Spec	VOL		0.38	10TH TSP	+13.03
		02/95	C/L Spec	VOL		0.44	10TH TSP	+9.96
36	49	02/95	Bobbin	ODI	7	0.42	6TH TSP	+20.12
		02/95	H/L Spec	VOL		0.56	6TH TSP	+20.47
36	54	02/95	Bobbin	ODI	18	0.94	11TH TSP	+9.79
		02/95	C/L Spec	VOL		0.37	11TH TSP	+9.82
36	77	02/95	Bobbin	NQI		0.21	21ST TSP	-0.05
		02/95	C/L Spec	VOL		0.52	21ST TSP	-0.04
36	78	02/95	Bobbin	ODI	6	0.13	6TH TSP	+0.09

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION
		02/95	Bobbin	ODI	34	0.87	11TH TSP +16.32
		02/95	H/L Speci	VOL		0.44	8TH TSP -11.33
		02/95	C/L Speci	VOL		0.45	11TH TSP +16.23
36	80	02/95	Bobbin	ODI	12	0.27	6TH TSP +0.12
36	81	02/95	Bobbin	ODI	94	0.47	4TH TSP -0.18
36	82	02/95	Bobbin	NQI		0.63	3AVB -0.12
		02/95	Bobbin	ODI	26	0.72	4TH TSP +17.92
		02/95	H/L Speci	VOL		0.24	4TH TSP +19.05
		02/95	H/L Speci	VOL		0.60	4TH TSP +17.60
36	83	02/95	Bobbin	ODI	15	0.87	4TH TSP +26.29
36	85	02/95	Bobbin	NQI		0.69	16TH TSP +3.49
		02/95	Bobbin	ODI	24	0.91	17TH TSP +9.53
		02/95	Bobbin	ODI	25	0.85	16TH TSP +2.98
		02/95	C/L Speci	VOL		0.46	17TH TSP +9.34
		02/95	C/L Speci	VOL		0.61	16TH TSP +2.57 to *
36	86	02/95	U-Bend	VOL		0.67	4AVB +21.51
		02/95	C/L Speci	VOL		0.20	22ND TSP +6.66
36	88	02/95	Bobbin	NQI		0.25	10TH TSP +33.89
		02/95	C/L Speci	VOL		0.56	9TH TSP -10.24
36	91	02/95	Bobbin	NQI		0.81	6TH TSP +30.10
		02/95	Bobbin	ODI	26	1.66	11TH TSP +1.44
		02/95	H/L Speci	VOL		1.10	7TH TSP -13.99
		02/95	C/L Speci	VOL		0.95	11TH TSP +1.95
36	100	02/95	Bobbin	ODI	90	0.36	2ND TSP +0.11
37	43	02/95	Bobbin	NQI		0.62	12TH TSP +11.20
		02/95	C/L Speci	VOL		0.76	12TH TSP +11.32
37	44	02/95	Bobbin	ODI	43	0.24	4TH TSP -0.22
37	52	02/95	Bobbin	ODI	78	0.45	6TH TSP -0.15
		02/95	C/L Speci	VOL		0.45	12TH TSP +9.85
37	63	02/95	Bobbin	ODI	23	0.22	8TH TSP +0.07
37	70	02/95	Bobbin	ODI	59	0.20	4TH TSP +0.11
37	90	02/95	Bobbin	ODI	16	0.67	5TH TSP +11.75
		02/95	Bobbin	ODI	20	0.61	5TH TSP +14.75
		02/95	Bobbin	ODI	13	1.63	14TH TSP -1.22
		02/95	H/L Speci	VOL		0.40	5TH TSP +14.95
		02/95	H/L Speci	VOL		0.60	5TH TSP +12.22
		02/95	C/L Speci	VOL		1.65	14TH TSP -1.09
37	95	02/95	Bobbin	ODI	19	0.69	4TH TSP +22.48
		02/95	H/L Speci	VOL		0.62	4TH TSP +22.76
38	18	02/95	Bobbin	ODI	44	0.66	3RD TSP -0.10
38	34	02/95	Bobbin	ODI	2	0.17	4TH TSP +0.00
38	36	02/95	Bobbin	ODI	35	0.27	4TH TSP -0.21
38	46	02/95	Bobbin	ODI	65	0.86	3RD TSP +0.00
		02/95	Bobbin	ODI	81	0.50	2ND TSP -0.05
		02/95	H/L Speci	SAI		0.20	3RD TSP +0.05
38	48	02/95	Bobbin	ODI	1	0.85	2ND TSP +0.16
		02/95	Bobbin	ODI	18	0.19	4TH TSP +0.02
		02/95	Bobbin	ODI	88	0.39	7TH TSP +0.00
38	50	02/95	Bobbin	ODI	4	1.34	15TH TSP +2.91
		02/95	C/L Speci	VOL		0.46	15TH TSP +4.17
		02/95	C/L Speci	VOL		0.49	15TH TSP +2.66
38	61	02/95	Bobbin	ODI	60	0.28	4TH TSP +0.05
		02/95	H/L Speci	NQI		0.33	3RD TSP -0.03
38	62	02/95	Bobbin	ODI	20	0.15	4TH TSP +0.00
38	65	02/95	Bobbin	ODI	66	0.97	2ND TSP +0.05
		02/95	Bobbin	ODI	92	0.18	6TH TSP +0.05
38	70	02/95	Bobbin	ODI	54	1.32	3RD TSP +0.11
		02/95	H/L Speci	SAI		0.39	3RD TSP -0.02
38	72	02/95	Bobbin	ODI	69	0.43	6TH TSP +0.00
38	73	02/95	Bobbin	ODI	16	0.11	6TH TSP +0.07
38	92	02/95	H/L Speci	VOL		0.43	TTS-HL +4.15
39	40	02/95	Bobbin	ODI	82	0.20	4TH TSP +0.07
39	43	02/95	Bobbin	ODI	25	0.55	13TH TSP +14.72
		02/95	C/L Speci	VOL		0.63	13TH TSP +14.13
		02/95	C/L Speci	VOL		0.76	13TH TSP +12.71

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

39	47	02/95	Bobbin	ODI	8	0.79	3RD TSP	+8.08
		02/95	H/L Speci	VOL		1.38	3RD TSP	+7.72
39	55	02/95	Bobbin	ODI	21	0.31	6TH TSP	+0.05
39	68	02/95	Bobbin	ODI	77	0.67	4TH TSP	+0.05
		02/95	Bobbin	ODI	92	1.15	3RD TSP	+0.14
		02/95	Bobbin	ODI	98	0.69	2ND TSP	+0.05
39	78	02/95	Bobbin	ODI	42	0.18	5TH TSP	+0.09
39	83	02/95	Bobbin	WAR	18	1.06	3AVB	+0.00
		02/95	Bobbin	WAR	21	1.28	2AVB	+0.00
39	88	02/95	Bobbin	ODI	12	2.02	10TH TSP	+21.35
		02/95	C/L Speci	VOL		0.76	10TH TSP	+21.58
40	19	02/95	Bobbin	NQI		4.68	15TH TSP	+0.42
40	25	02/95	Bobbin	ODI	90	0.40	4TH TSP	+0.07
40	39	02/95	H/L Speci	VOL		1.01	5TH TSP	+5.76
40	41	02/95	Bobbin	ODI	1	0.63	4TH TSP	-0.19
40	45	02/95	Bobbin	ODI	35	2.57	1AVB	+20.54
40	50	02/95	Bobbin	ODI	6	0.61	12TH TSP	+5.86
		02/95	C/L Speci	VOL		0.83	12TH TSP	+5.00
40	52	02/95	Bobbin	ODI	23	1.41	7TH TSP	+10.77
		02/95	H/L Speci	VOL		1.89	7TH TSP	+10.36
40	61	02/95	Bobbin	ODI	9	0.47	7TH TSP	-0.23
40	63	02/95	C/L Speci	VOL		0.09	14TH TSP	+5.05
		02/95	C/L Speci	VOL		0.22	14TH TSP	+2.33
40	67	02/95	C/L Speci	VOL		0.45	22ND TSP	+4.99
40	78	02/95	Bobbin	ODI	49	0.70	3RD TSP	+0.10
		02/95	Bobbin	ODI	85	0.40	2ND TSP	+0.05
40	85	02/95	Bobbin	ODI	66	0.33	6TH TSP	+0.00
40	90	02/95	Bobbin	ODI	37	0.19	6TH TSP	-0.02
41	20	02/95	Bobbin	ODI	96	0.43	2ND TSP	+0.10
41	21	02/95	H/L Speci	VOL		0.82	6TH TSP	-14.85
41	22	02/95	Bobbin	ODI	1	1.88	16TH TSP	+6.39
		02/95	Bobbin	ODI	11	2.82	17TH TSP	+1.24
		02/95	C/L Speci	VOL		1.06	16TH TSP	+6.36
		02/95	C/L Speci	VOL		2.02	17TH TSP	+1.06
41	24	02/95	Bobbin	ODI	90	0.82	2ND TSP	+0.10
41	27	02/95	Bobbin	ODI	99	0.39	3RD TSP	+0.07
41	29	02/95	Bobbin	ODI	49	0.97	3RD TSP	+0.00
41	47	02/95	Bobbin	ODI	82	0.25	3RD TSP	+0.10
41	49	02/95	Bobbin	ODI	10	0.58	10TH TSP	+5.94
		02/95	C/L Speci	VOL		0.43	10TH TSP	+5.73
41	52	02/95	Bobbin	ODI	3	1.01	3RD TSP	+20.34
		02/95	H/L Speci	VOL		0.83	3RD TSP	+19.63
41	53	02/95	Bobbin	NQI		0.50	18TH TSP	+0.24
		02/95	Bobbin	WAR	7	1.78	17TH TSP	+0.00
		02/95	C/L Speci	VOL		0.68	18TH TSP	+0.00
41	56	02/95	Bobbin	WAR	6	1.41	18TH TSP	+0.00
41	57	02/95	Bobbin	WAR	6	1.53	17TH TSP	+0.00
41	66	02/95	Bobbin	ODI	6	0.69	6TH TSP	+30.29
		02/95	H/L Speci	VOL		0.27	3RD TSP	+6.87
		02/95	H/L Speci	VOL		0.43	6TH TSP	+30.93
		02/95	H/L Speci	VOL		0.44	3RD TSP	+11.45
		02/95	H/L Speci	VOL		0.56	3RD TSP	+16.45
41	71	02/95	C/L Speci	VOL		0.52	11TH TSP	-4.14
41	83	02/95	Bobbin	ODI	77	0.59	3RD TSP	+0.05
		02/95	C/L Speci	VOL		0.29	15TH TSP	+6.24
42	27	02/95	Bobbin	NQI		0.62	5TH TSP	+4.84
		02/95	H/L Speci	VOL		0.62	5TH TSP	+5.27
42	28	02/95	Bobbin	ODI	14	1.03	3RD TSP	+30.64
		02/95	H/L Speci	VOL		0.75	4TH TSP	-13.11
42	30	02/95	Bobbin	WAR	7	0.42	1AVB	+0.00
42	46	02/95	Bobbin	WAR	7	1.70	19TH TSP	+0.00
42	47	02/95	Bobbin	ODI	74	0.70	2ND TSP	+0.07
		02/95	Bobbin	ODI	93	0.60	3RD TSP	+0.14
42	56	02/95	C/L Speci	VOL		0.23	11TH TSP	+5.50
42	57	02/95	Bobbin	NQI		0.32	8TH TSP	-0.23

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	WAR	10	2.38	18TH TSP	+0.00
42	64	02/95	Bobbin	NQI		0.78	1ST TSP	+10.30
		02/95	H/L Speci	VOL		1.15	1ST TSP	+11.68
42	69	02/95	Bobbin	ODI	18	1.00	12TH TSP	+10.30
		02/95	C/L Speci	VOL		0.52	12TH TSP	+10.22
42	70	02/95	Bobbin	ODI	65	1.18	2ND TSP	+0.00
42	72	02/95	Bobbin	ODI	35	0.74	4TH TSP	+0.00
42	87	02/95	Bobbin	ODI	46	1.38	3RD TSP	+0.27
42	92	02/95	Bobbin	ODI	1	0.43	7TH TSP	+0.42
42	93	02/95	Bobbin	ODI	6	0.41	4TH TSP	+0.52
		02/95	Bobbin	ODI	22	0.22	3RD TSP	+0.28
		02/95	Bobbin	ODI	76	0.76	2ND TSP	+0.05
43	24	02/95	Bobbin	ODI	65	0.49	3RD TSP	+0.09
43	25	02/95	Bobbin	NQI		0.41	TTS-HL	+4.76
		02/95	H/L Speci	VOL		0.28	TTS-HL	+4.46
43	29	02/95	Bobbin	ODI	95	0.29	4TH TSP	-0.12
43	39	02/95	Bobbin	ODI	3	0.20	4TH TSP	-0.16
43	42	02/95	Bobbin	ODI	1	0.32	4TH TSP	-0.16
43	46	02/95	Bobbin	ODI	59	1.15	3RD TSP	+0.12
43	48	02/95	Bobbin	ODI	1	0.77	2ND TSP	+0.18
43	49	02/95	Bobbin	NQI		2.30	TE-HL	+12.03
43	50	02/95	Bobbin	NQI		0.34	15TH TSP	+0.30
		02/95	C/L Speci	VOL		0.27	15TH TSP	+0.00
43	53	02/95	Bobbin	WAR	6	1.45	17TH TSP	+0.00
43	55	02/95	Bobbin	NQI		0.37	8TH TSP	-0.23
		02/95	Bobbin	WAR	10	2.56	18TH TSP	+0.00
43	59	02/95	Bobbin	WAR	8	2.13	18TH TSP	+0.00
43	64	02/95	Bobbin	NQI		0.59	5TH TSP	+19.95
		02/95	Bobbin	ODI	24	1.41	5TH TSP	+14.65
		02/95	H/L Speci	VOL		0.80	5TH TSP	+19.66
		02/95	H/L Speci	VOL		0.95	5TH TSP	+18.59
		02/95	H/L Speci	VOL		1.70	5TH TSP	+14.45
43	65	02/95	Bobbin	WAR	4	0.41	3AVB	+0.00
		02/95	Bobbin	WAR	8	0.62	2AVB	+0.00
		02/95	Bobbin	WAR	1	0.39	15TH TSP	+0.00
43	67	02/95	Bobbin	ODI	26	0.15	2ND TSP	+0.17
43	73	02/95	Bobbin	ODI	71	0.17	4TH TSP	+0.03
		02/95	Bobbin	ODI	79	0.53	2ND TSP	+0.15
		02/95	Bobbin	ODI	98	1.39	3RD TSP	+0.10
43	76	02/95	Bobbin	ODI	86	0.36	3RD TSP	+0.05
43	82	02/95	Bobbin	ODI	85	0.97	3RD TSP	+0.24
43	83	02/95	Bobbin	ODI	71	1.16	3RD TSP	+0.04
44	25	02/95	Bobbin	ODI	22	0.39	11TH TSP	+2.86
		02/95	C/L Speci	VOL		0.27	11TH TSP	+2.93
44	41	02/95	Bobbin	ODI	6	0.83	18TH TSP	+5.83
		02/95	C/L Speci	VOL		0.67	18TH TSP	+5.78
44	44	02/95	Bobbin	ODI	98	0.78	3RD TSP	+0.07
		02/95	Bobbin	ODI	99	0.44	2ND TSP	+0.07
44	48	02/95	Bobbin	ODI	48	0.28	3RD TSP	+0.12
44	49	02/95	Bobbin	NQI		2.48	TE-HL	+13.47
		02/95	Bobbin	NQI		5.46	TE-HL	+12.54
		02/95	Bobbin	NQI		12.81	TE-HL	+14.32
44	50	02/95	Bobbin	ODI	19	0.30	12TH TSP	+14.47
		02/95	Bobbin	WAR	7	1.75	17TH TSP	+0.00
		02/95	Bobbin	WAR	13	3.34	18TH TSP	+0.00
		02/95	C/L Speci	VOL		0.11	12TH TSP	+14.80
		02/95	C/L Speci	VOL		0.23	10TH TSP	-9.50
44	53	02/95	Bobbin	WAR	7	2.02	18TH TSP	+0.00
44	55	02/95	Bobbin	WAR	6	1.77	17TH TSP	+0.00
44	57	02/95	Bobbin	WAR	5	1.50	18TH TSP	+0.00
44	58	02/95	Bobbin	WAR	6	1.53	18TH TSP	+0.00
44	61	02/95	Bobbin	WAR	13	3.54	18TH TSP	+0.00
		02/95	H/L Tubes	SAI		1.67	TTS-HL	-3.38
44	62	02/95	Bobbin	WAR	6	1.73	15TH TSP	+0.00
		02/95	Bobbin	WAR	15	4.54	18TH TSP	+0.00

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
44	70	02/95	Bobbin	ODI	92	0.94	2ND TSP	-0.12	
44	73	02/95	Bobbin	ODI	16	0.98	4TH TSP	+17.56	
		02/95	H/L Spec	VOL		0.92	4TH TSP	+18.17	
44	77	02/95	Bobbin	ODI	27	1.42	7TH TSP	+23.98	
		02/95	Bobbin	ODI	56	0.79	3RD TSP	+0.00	
		02/95	H/L Spec	VOL		1.04	8TH TSP	-20.34	
44	85	02/95	Bobbin	NQI		5.61	TE-CL	+15.97	
44	88	02/95	Bobbin	ODI	56	0.66	3RD TSP	+0.00	
		02/95	Bobbin	ODI	92	0.46	2ND TSP	+0.07	
44	89	02/95	Bobbin	ODI	33	0.44	7TH TSP	-0.14	
44	90	02/95	Bobbin	ODI	78	0.45	3RD TSP	+0.00	
44	91	02/95	Bobbin	ODI	33	2.71	6TH TSP	+1.88	
		02/95	H/L Spec	VOL		2.73	6TH TSP	+1.86	
45	52	02/95	Bobbin	NQI		0.75	TTS-CL	+3.93	
		02/95	Bobbin	ODI	21	1.25	11TH TSP	+33.20	
		02/95	C/L Spec	VOL		0.72	TTS-CL	+4.00	
		02/95	C/L Spec	VOL		0.38	10TH TSP	-10.28	
45	53	02/95	Bobbin	WAR	5	1.20	18TH TSP	+0.00	
45	57	02/95	Bobbin	WAR	2	0.76	18TH TSP	+0.00	
45	71	02/95	Bobbin	ODI	41	1.29	3RD TSP	+0.00	
		02/95	Bobbin	ODI	41	1.53	2ND TSP	+0.00	
45	75	02/95	U-Bend	VOL		0.24	9TH TSP	+0.83	
		02/95	Bobbin	ODI	26	0.81	9TH TSP	+0.81	
45	78	02/95	Bobbin	ODI	9	0.21	8TH TSP	-0.12	
		02/95	Bobbin	ODI	60	0.87	3RD TSP	+0.19	
		02/95	Bobbin	ODI	81	0.97	2ND TSP	+0.22	
45	80	02/95	Bobbin	ODI	1	1.52	3RD TSP	+3.06	
		02/95	H/L Spec	VOL		0.78	3RD TSP	+3.66	
45	82	02/95	Bobbin	NQI		3.31	TE-CL	+18.74	
45	88	02/95	H/L Spec	VOL		0.35	3RD TSP	+14.44	
46	26	02/95	Bobbin	NQI		2.42	TTS-CL	-1.45	
		02/95	Bobbin	ODI	12	0.85	11TH TSP	+5.23	
		02/95	C/L Spec	VOL		0.39	11TH TSP	+5.47	
46	27	02/95	U-Bend	VOL		0.77	8TH TSP	+12.91	
46	35	02/95	U-Bend	VOL		0.77	4AVE	+7.88	
		02/95	U-Bend	VOL		0.98	9TH TSP	+31.50	
		02/95	C/L Spec	VOL		0.39	9TH TSP	-2.83	
		02/95	C/L Spec	VOL		0.46	9TH TSP	-4.14	
46	41	02/95	Bobbin	ODI	10	1.45	11TH TSP	+18.45	
		02/95	Bobbin	ODI	13	0.61	11TH TSP	+33.81	
		02/95	Bobbin	ODI	29	1.52	11TH TSP	+14.66	
		02/95	C/L Spec	VOL		0.39	11TH TSP	+33.95	
		02/95	C/L Spec	VOL		0.48	11TH TSP	+18.21	
		02/95	C/L Spec	VOL		0.75	11TH TSP	+14.56	
46	42	02/95	Bobbin	ODI	76	0.60	2ND TSP	+0.12	
46	43	02/95	Bobbin	ODI	70	0.26	4TH TSP	+0.00	
46	44	02/95	Bobbin	NQI		0.51	14TH TSP	+6.65	
		02/95	Bobbin	ODI	78	0.21	3RD TSP	+0.05	
		02/95	Bobbin	ODI	81	0.50	2ND TSP	+0.07	
		02/95	C/L Spec	VOL		0.30	14TH TSP	+6.66	
46	49	02/95	Bobbin	WAR	4	1.33	17TH TSP	+0.00	
46	50	02/95	Bobbin	WAR	7	1.86	17TH TSP	+0.00	
		02/95	Bobbin	WAR	14	3.81	18TH TSP	+0.00	
46	51	02/95	Bobbin	WAR	14	3.78	18TH TSP	+0.00	
46	52	02/95	Bobbin	ODI	8	1.37	10TH TSP	+36.93	
		02/95	C/L Spec	VOL		0.69	10TH TSP	+36.71	
46	53	02/95	H/L Spec	VOL		0.62	4TH TSP	-8.78	
46	58	02/95	Bobbin	NQI		0.38	11TH TSP	+29.28	
		02/95	C/L Spec	VOL		0.64	10TH TSP	-14.17	
46	65	02/95	Bobbin	ODI	6	0.67	6TH TSP	+27.73	
		02/95	Bobbin	ODI	8	2.37	22ND TSP	+4.12	
		02/95	Bobbin	ODI	30	1.49	21ST TSP	+4.42	
		02/95	Bobbin	WAR	7	1.64	15TH TSP	+0.31	
		02/95	Bobbin	WAR	13	3.42	17TH TSP	-0.14	
		02/95	H/L Spec	VOL		1.64	6TH TSP	+28.26	

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S/G C

02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
		02/95	C/L Speci	VOL		0.58	21ST TSP	+4.30
		02/95	C/L Speci	VOL		0.67	22ND TSP	+4.03
46	66	02/95	Bobbin	WAR	8	2.03	17TH TSP	+0.00
		02/95	Bobbin	WAR	15	3.98	18TH TSP	-0.05
		02/95	Bobbin	WAR	18	5.00	19TH TSP	-0.02
46	67	02/95	Bobbin	ODI	1	0.26	3RD TSP	-0.25
		02/95	Bobbin	ODI	84	0.53	2ND TSP	-0.32
46	72	02/95	Bobbin	ODI	4	0.87	TTS-CL	+6.54
		02/95	C/L Speci	VOL		0.18	TTS-CL	+6.67
46	73	02/95	Bobbin	ODI	23	1.53	13TH TSP	+1.15
		02/95	C/L Speci	VOL		0.49	13TH TSP	+1.78
46	74	02/95	Bobbin	ODI	3	1.03	6TH TSP	+33.81
		02/95	Bobbin	ODI	18	0.75	7TH TSP	+18.12
		02/95	H/L Speci	VOL		1.19	7TH TSP	+18.56
		02/95	H/L Speci	VOL		1.43	7TH TSP	-10.52
47	29	02/95	Bobbin	ODI	7	0.97	12TH TSP	+22.58
		02/95	C/L Speci	VOL		0.63	12TH TSP	+22.68
47	32	02/95	Bobbin	ODI	11	1.24	10TH TSP	+5.67
		02/95	C/L Speci	VOL		0.71	10TH TSP	+5.70
47	37	02/95	Bobbin	ODI	14	0.74	15TH TSP	+5.22
		02/95	C/L Speci	VOL		0.34	15TH TSP	+5.00
		02/95	C/L Speci	VOL		0.43	15TH TSP	+7.42
47	46	02/95	C/L Speci	VOL		0.50	12TH TSP	+19.39
47	49	02/95	Bobbin	WAR	10	2.51	18TH TSP	+0.00
		02/95	Bobbin	WAR	24	7.67	17TH TSP	+0.00
		02/95	C/L Speci	VOL		0.56	11TH TSP	+36.77
47	50	02/95	Bobbin	NQI		0.45	17TH TSP	+0.28
		02/95	C/L Speci	VOL		0.73	17TH TSP	+0.00
47	51	02/95	Bobbin	ODI	12	0.29	18TH TSP	+14.83
		02/95	C/L Speci	VOL		0.13	18TH TSP	+14.94
		02/95	C/L Speci	VOL		0.82	17TH TSP	+0.00
47	52	02/95	Bobbin	WAR	9	2.33	18TH TSP	+0.00
47	55	02/95	Bobbin	WAR	8	2.06	17TH TSP	+0.00
47	56	02/95	Bobbin	WAR	10	2.65	18TH TSP	+0.00
47	57	02/95	Bobbin	WAR	6	1.47	13TH TSP	+0.00
		02/95	Bobbin	WAR	7	1.79	20TH TSP	+0.00
		02/95	Bobbin	WAR	7	1.83	15TH TSP	+0.00
		02/95	Bobbin	WAR	10	2.70	17TH TSP	+0.00
47	60	02/95	Bobbin	NQI		0.36	12TH TSP	+5.20
		02/95	Bobbin	NQI		0.66	12TH TSP	+3.82
		02/95	C/L Speci	VOL		0.25	12TH TSP	+5.33
		02/95	C/L Speci	VOL		0.33	12TH TSP	+3.91
47	63	02/95	Bobbin	NQI		0.36	20TH TSP	-0.41
		02/95	Bobbin	WAR	4	0.95	18TH TSP	+0.00
		02/95	Bobbin	WAR	4	1.09	17TH TSP	+0.00
		02/95	C/L Speci	VOL		1.19	20TH TSP	-0.40
47	65	02/95	Bobbin	WAR	4	0.98	15TH TSP	+0.00
		02/95	Bobbin	WAR	17	4.90	17TH TSP	+0.00
47	66	02/95	Bobbin	NQI		1.23	18TH TSP	+0.31
		02/95	C/L Speci	VOL		1.39	18TH TSP	+0.24
47	68	02/95	Bobbin	ODI	90	0.32	2ND TSP	+0.00
47	70	02/95	Bobbin	ODI	17	0.55	10TH TSP	+23.18
		02/95	C/L Speci	VOL		0.14	10TH TSP	+22.85
47	75	02/95	Bobbin	WAR	14	0.92	1AVB	+0.00
		02/95	H/L Speci	VOL		0.48	3RD TSP	+25.17
47	76	02/95	Bobbin	NQI		0.29	9TH TSP	+0.35
		02/95	C/L Speci	NQI		0.39	9TH TSP	+0.43
47	78	02/95	Bobbin	ODI	10	0.48	9TH TSP	-3.68
		02/95	C/L Speci	VOL		0.53	9TH TSP	-3.87
47	87	02/95	Bobbin	ODI	94	0.56	3RD TSP	+0.05
48	39	02/95	Bobbin	NQI		0.23	22ND TSP	+15.81
48	45	02/95	Bobbin	ODI	71	0.78	4TH TSP	+0.14
48	54	02/95	Bobbin	WAR	7	1.60	15TH TSP	+0.00
48	56	02/95	Bobbin	WAR	6	1.68	15TH TSP	+0.00
		02/95	C/L Speci	VOL		0.91	15TH TSP	+0.00

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S/G C

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

48	58	02/95	Bobbin	WAR	5	1.36	18TH TSP	+0.00
48	60	02/95	Bobbin	WAR	9	2.43	17TH TSP	+0.00
48	61	02/95	Bobbin	WAR	3	0.63	21ST TSP	+0.00
		02/95	Bobbin	WAR	4	0.94	15TH TSP	+0.00
		02/95	Bobbin	WAR	11	2.81	17TH TSP	+0.00
		02/95	Bobbin	WAR	29	9.60	18TH TSP	+0.00
		02/95	C/L Speci	VOL		0.65	21ST TSP	+0.32
48	62	02/95	Bobbin	WAR	9	2.36	17TH TSP	+0.00
48	63	02/95	Bobbin	WAR	4	1.07	15TH TSP	+0.00
		02/95	Bobbin	WAR	10	2.48	17TH TSP	+0.00
		02/95	Bobbin	WAR	15	4.23	18TH TSP	+0.00
48	69	02/95	Bobbin	ODI	95	0.43	2ND TSP	+0.12
48	74	02/95	Bobbin	ODI	21	0.35	4TH TSP	+0.17
		02/95	Bobbin	ODI	71	0.68	3RD TSP	+0.00
		02/95	Bobbin	ODI	91	0.47	2ND TSP	-0.05
48	76	02/95	Bobbin	ODI	6	2.35	4TH TSP	+27.40
		02/95	H/L Speci	VOL		1.51	4TH TSP	+27.35
48	77	02/95	Bobbin	ODI	17	0.81	4TH TSP	+10.52
		02/95	H/L Speci	VOL		0.49	4TH TSP	+12.20
		02/95	H/L Speci	VOL		0.53	4TH TSP	+11.13
48	80	02/95	Bobbin	ODI	47	1.13	3RD TSP	+0.05
48	82	02/95	U-Bend	VOL		0.26	3AVB	+10.01
48	85	02/95	Bobbin	ODI	12	0.46	5TH TSP	+21.48
		02/95	H/L Speci	VOL		0.39	5TH TSP	+21.95
49	33	02/95	Bobbin	NQI		0.34	21ST TSP	+3.22
49	34	02/95	Bobbin	ODI	11	0.82	11TH TSP	+31.07
49	35	02/95	Bobbin	NQI		1.79	1AVB	-11.25
		02/95	U-Bend	VOL		0.95	1AVB	-11.51
49	37	02/95	Bobbin	NQI		0.69	11TH TSP	+22.34
		02/95	C/L Speci	VOL		0.37	11TH TSP	+22.39
49	41	02/95	Bobbin	ODI	9	1.31	12TH TSP	+19.54
		02/95	C/L Speci	VOL		0.41	12TH TSP	+19.49
49	42	02/95	Bobbin	NQI		0.20	10TH TSP	+0.02
49	47	02/95	U-Bend	VOL		0.30	7TH TSP	+18.31
49	48	02/95	Bobbin	NQI		2.43	TE-HL	+8.72
		02/95	Bobbin	NQI		2.89	TE-HL	+8.67
		02/95	Bobbin	ODI	51	0.25	6TH TSP	+0.12
49	52	02/95	U-Bend	VOL		1.14	8TH TSP	+18.96
		02/95	H/L Speci	VOL		0.30	3RD TSP	-4.91
49	55	02/95	Bobbin	WAR	1	0.55	15TH TSP	+0.00
		02/95	Bobbin	WAR	5	1.99	18TH TSP	+0.00
49	56	02/95	Bobbin	ODI	15	0.35	11TH TSP	+11.58
		02/95	C/L Speci	VOL		0.27	11TH TSP	+11.57
49	57	02/95	H/L Speci	VOL		0.28	TTS-HL	+4.52
49	60	02/95	Bobbin	ODI	18	0.43	6TH TSP	+0.00
		02/95	Bobbin	WAR	12	3.09	17TH TSP	+0.00
		02/95	Bobbin	WAR	25	7.87	18TH TSP	+0.00
49	61	02/95	Bobbin	WAR	10	2.56	15TH TSP	+0.00
		02/95	C/L Speci	VOL		0.43	11TH TSP	+40.37
49	62	02/95	Bobbin	WAR	4	0.98	15TH TSP	+0.00
		02/95	Bobbin	WAR	5	1.30	17TH TSP	+0.00
49	63	02/95	C/L Speci	VOL		0.32	12TH TSP	+7.20
49	64	02/95	Bobbin	ODI	49	0.99	15TH TSP	+0.29
		02/95	Bobbin	WAR	9	2.24	17TH TSP	+0.00
		02/95	C/L Speci	VOL		0.95	15TH TSP	+0.37
49	66	02/95	Bobbin	NQI		0.59	18TH TSP	+0.27
		02/95	C/L Speci	NQI		0.75	18TH TSP	+0.30
49	70	02/95	Bobbin	ODI	99	0.60	4TH TSP	+0.13
49	71	02/95	Bobbin	ODI	64	0.82	2ND TSP	+0.07
49	73	02/95	Bobbin	NQI		36.00	TE-HL	+10.38
		02/95	Bobbin	ODI	69	1.13	2ND TSP	+0.02
		02/95	Bobbin	ODI	75	0.41	3RD TSP	+0.09
49	75	02/95	Bobbin	ODI	70	0.36	2ND TSP	+0.07
		02/95	Bobbin	ODI	89	0.40	4TH TSP	+0.05
49	77	02/95	Bobbin	ODI	94	0.46	4TH TSP	+0.17

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G C - ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS
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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

Total Indications Found = 2665
Total Tubes Found = 1313

ATTACHMENT 4

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

1	6	02/95	Bobbin	ODI	61	0.40	3RD TSP	-0.05
1	15	02/95	H/L Speci	VOL		0.56	2ND TSP	+8.65
1	16	02/95	Bobbin	ODI	32	0.39	6TH TSP	-0.07
1	20	02/95	Bobbin	NQI		28.25	TE-HL	+11.18
1	25	02/95	Bobbin	ODI	48	0.39	2ND TSP	+0.00
1	38	02/95	Bobbin	NQI		21.25	TE-HL	+17.35
		02/95	H/L Tubes	MAI		2.37	TTS-HL	-4.05
1	84	02/95	Bobbin	ODI	36	0.58	2ND TSP	-0.08
1	93	02/95	C/L Speci	VOL		0.56	11TH TSP	+13.12
2	2	02/95	Bobbin	ODI	83	1.35	3RD TSP	-0.10
		02/95	H/L Speci	SAI		0.48	3RD TSP	+0.05
2	4	02/95	Bobbin	ODI	56	0.71	3RD TSP	-0.12
		02/95	Bobbin	ODI	85	0.61	4TH TSP	-0.10
2	6	02/95	Bobbin	ODI	70	0.28	3RD TSP	-0.02
2	8	02/95	Bobbin	ODI	97	0.48	2ND TSP	+0.00
2	9	02/95	Bobbin	ODI	85	0.54	4TH TSP	-0.10
		02/95	Bobbin	ODI	88	0.74	3RD TSP	-0.05
2	10	02/95	Bobbin	ODI	15	0.70	4TH TSP	-0.15
		02/95	Bobbin	ODI	36	0.56	2ND TSP	-0.05
2	13	02/95	Bobbin	ODI	81	0.35	3RD TSP	-0.10
2	17	02/95	Bobbin	ODI	1	0.65	3RD TSP	+0.10
2	19	02/95	Bobbin	ODI	1	0.59	3RD TSP	-0.05
		02/95	Bobbin	ODI	47	0.44	2ND TSP	-0.02
2	20	02/95	Bobbin	ODI	80	0.76	2ND TSP	+0.34
2	21	02/95	Bobbin	NQI		0.38	19TH TSP	+3.45
		02/95	C/L Speci	VOL		0.08	19TH TSP	+3.39
		02/95	C/L Speci	VOL		0.16	19TH TSP	-1.47
2	28	02/95	C/L Speci	VOL		0.31	22ND TSP	+7.80
2	35	02/95	Bobbin	ODI	11	1.42	21ST TSP	+10.04
		02/95	C/L Speci	VOL		0.78	21ST TSP	+10.21
2	56	02/95	Bobbin	NQI		0.74	19TH TSP	+8.14
		02/95	C/L Speci	VOL		0.52	19TH TSP	+8.40
2	104	02/95	Bobbin	ODI	92	0.53	5TH TSP	-0.13
2	109	02/95	Bobbin	NQI		4.30	TE-CL	+14.11
2	112	02/95	Bobbin	NQI		4.52	TE-HL	+12.36
3	2	02/95	Bobbin	ODI	83	0.35	4TH TSP	-0.03
		02/95	C/L Speci	NQI		0.26	22ND TSP	+13.52
3	7	02/95	Bobbin	ODI	36	0.51	2ND TSP	-0.07
3	13	02/95	Bobbin	NQI		0.40	7TH TSP	+16.31
		02/95	Bobbin	ODI	18	0.57	2ND TSP	+0.00
		02/95	H/L Speci	VOL		0.64	7TH TSP	+16.67
3	17	02/95	Bobbin	ODI	1	0.34	2ND TSP	-0.12
		02/95	Bobbin	ODI	62	0.37	3RD TSP	-0.10
3	18	02/95	Bobbin	NQI		11.65	TE-HL	+12.45
		02/95	Bobbin	ODI	53	0.27	2ND TSP	+0.00
		02/95	Bobbin	ODI	73	0.43	5TH TSP	-0.24
3	19	02/95	Bobbin	NQI		15.51	TE-HL	+6.62
		02/95	Bobbin	ODI	93	0.57	2ND TSP	+0.07
3	21	02/95	Bobbin	ODI	37	0.34	6TH TSP	-0.19
3	22	02/95	Bobbin	ODI	87	0.28	2ND TSP	+0.03
		02/95	Bobbin	ODI	99	0.51	5TH TSP	-0.05
3	24	02/95	Bobbin	ODI	1	0.55	5TH TSP	-0.10
		02/95	Bobbin	ODI	3	0.39	2ND TSP	+0.03
3	25	02/95	Bobbin	ODI	68	0.28	3RD TSP	+0.05
		02/95	Bobbin	ODI	92	0.64	2ND TSP	+0.02
3	26	02/95	Bobbin	ODI	49	0.55	2ND TSP	+0.00
		02/95	Bobbin	ODI	80	0.34	3RD TSP	-0.05
3	27	02/95	Bobbin	ODI	13	0.37	2ND TSP	+0.03
3	28	02/95	Bobbin	ODI	33	0.34	3RD TSP	+0.00
		02/95	Bobbin	ODI	94	0.38	2ND TSP	+0.02
3	30	02/95	Bobbin	ODI	1	0.50	2ND TSP	-0.03
		02/95	H/L Tubes	SAI		0.91	TTS-HL	-2.82
3	31	02/95	Bobbin	ODI	1	0.53	2ND TSP	-0.05
3	42	02/95	C/L Speci	VOL		0.28	12TH TSP	+22.91
3	46	02/95	Bobbin	NQI		10.04	TE-HL	+12.69

BWNT TUBAN II (Version 2.1) 05/01/1995 07:55:48

Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	NQI		16.43	TE-HL	+1.40
		02/95	Bobbin	ODI	94	0.24	6TH TSP	+0.02
3	59	02/95	Bobbin	ODI	17	0.38	2ND TSP	+0.05
3	77	02/95	C/L Speci	VOL		0.85	9TH TSP	-4.55
3	80	02/95	Bobbin	ODI	39	0.72	12TH TSP	+21.84
		02/95	Bobbin	ODI	47	0.64	12TH TSP	+40.35
		02/95	C/L Speci	VOL		0.22	11TH TSP	-22.53
		02/95	C/L Speci	VOL		0.31	11TH TSP	-3.72
3	90	02/95	Bobbin	ODI	37	0.15	6TH TSP	-0.18
3	98	02/95	C/L Speci	VOL		0.93	19TH TSP	-0.19
3	103	02/95	Bobbin	ODI	72	0.72	5TH TSP	+0.00
		02/95	H/L Speci	SAI		0.61	5TH TSP	+0.00
3	113	02/95	Bobbin	NQI		6.96	TE-CL	+16.99
4	1	02/95	Bobbin	ODI	84	0.68	3RD TSP	-0.05
4	3	02/95	Bobbin	NQI		4.18	TE-CL	+16.11
		02/95	Bobbin	ODI	52	0.17	2ND TSP	+0.02
4	5	02/95	Bobbin	ODI	1	0.37	4TH TSP	-0.07
		02/95	Bobbin	ODI	56	0.39	5TH TSP	-0.12
		02/95	Bobbin	ODI	68	0.57	3RD TSP	-0.05
4	7	02/95	Bobbin	ODI	1	0.90	3RD TSP	-0.17
		02/95	Bobbin	ODI	54	0.31	6TH TSP	-0.07
		02/95	Bobbin	ODI	58	0.95	2ND TSP	-0.05
		02/95	Bobbin	ODI	86	0.85	4TH TSP	-0.10
		02/95	H/L Speci	MAI		1.30	2ND TSP	-0.04
		02/95	H/L Speci	SAI		0.82	3RD TSP	-0.03
4	9	02/95	Bobbin	ODI	89	0.51	3RD TSP	+0.02
4	10	02/95	Bobbin	ODI	10	0.51	6TH TSP	-0.12
		02/95	Bobbin	ODI	39	0.28	4TH TSP	-0.07
		02/95	Bobbin	ODI	77	0.40	5TH TSP	-0.02
4	15	02/95	Bobbin	ODI	1	0.21	2ND TSP	+0.00
		02/95	Bobbin	ODI	18	0.23	3RD TSP	-0.02
		02/95	C/L Speci	VOL		0.51	11TH TSP	+25.52
		02/95	C/L Speci	VOL		0.55	11TH TSP	+28.86
4	17	02/95	Bobbin	ODI	5	0.52	2ND TSP	-0.02
4	18	02/95	Bobbin	ODI	1	0.17	6TH TSP	-0.05
		02/95	Bobbin	ODI	1	0.38	3RD TSP	-0.05
		02/95	Bobbin	ODI	1	0.43	2ND TSP	-0.05
		02/95	Bobbin	ODI	8	0.13	7TH TSP	-0.07
4	19	02/95	Bobbin	ODI	78	0.57	2ND TSP	-0.02
4	21	02/95	Bobbin	ODI	3	0.26	2ND TSP	-0.05
		02/95	Bobbin	ODI	44	0.32	6TH TSP	-0.20
		02/95	Bobbin	ODI	52	0.50	3RD TSP	-0.02
4	23	02/95	Bobbin	ODI	51	0.30	2ND TSP	-0.05
		02/95	Bobbin	ODI	65	0.31	3RD TSP	-0.05
4	25	02/95	Bobbin	NQI		17.43	TE-HL	+9.26
		02/95	Bobbin	ODI	85	0.70	2ND TSP	-0.02
4	26	02/95	Bobbin	NQI		14.35	TE-HL	+6.32
		02/95	Bobbin	NQI		17.10	TE-HL	+1.42
		02/95	Bobbin	NQI		1.02	16TH TSP	+7.16
		02/95	H/L Speci	MAI		2.64	TE-HL	+6.26
		02/95	H/L Speci	MAI		3.31	TE-HL	+1.37
		02/95	H/L Speci	VOL		0.39	5TH TSP	+5.16
		02/95	C/L Speci	VOL		0.97	16TH TSP	+7.19
4	27	02/95	C/L Speci	VOL		0.61	13TH TSP	+14.01
4	28	02/95	Bobbin	ODI	14	0.69	3RD TSP	+19.24
		02/95	Bobbin	ODI	81	0.53	2ND TSP	-0.05
		02/95	Bobbin	ODI	84	0.26	3RD TSP	+0.07
		02/95	H/L Speci	VOL		0.28	3RD TSP	+18.72
4	30	02/95	Bobbin	ODI	80	0.35	2ND TSP	+0.00
4	32	02/95	Bobbin	ODI	92	0.35	2ND TSP	-0.02
		02/95	H/L Speci	VOL		0.41	6TH TSP	+20.61
4	33	02/95	Bobbin	ODI	70	0.63	2ND TSP	-0.02
4	48	02/95	Bobbin	ODI	43	0.17	2ND TSP	-0.12
4	64	02/95	C/L Speci	VOL		0.91	9TH TSP	-4.96
4	65	02/95	H/L Speci	VOL		0.71	2ND TSP	+2.11

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

4	66	02/95	Bobbin	ODI	16	1.23	16TH TSP	+9.61
		02/95	C/L Speci	VOL		0.43	10TH TSP	-12.31
		02/95	C/L Speci	VOL		0.93	15TH TSP	-1.12
4	67	02/95	Bobbin	ODI	4	0.34	3RD TSP	-0.05
		02/95	Bobbin	ODI	16	0.79	3RD TSP	+20.93
		02/95	H/L Speci	SAI		0.28	3RD TSP	-0.13
		02/95	H/L Speci	VOL		0.74	3RD TSP	+21.40
4	68	02/95	Bobbin	NQI		13.46	TE-HL	+16.21
		02/95	Bobbin	ODI	68	1.21	3RD TSP	+0.00
		02/95	H/L Speci	SAI		1.40	3RD TSP	-0.07
4	71	02/95	Bobbin	NQI		4.14	TE-CL	+18.04
		02/95	Bobbin	NQI		4.63	TE-CL	+15.99
4	72	02/95	Bobbin	ODI	8	1.35	12TH TSP	+39.23
		02/95	C/L Speci	VOL		0.99	11TH TSP	-4.94
4	73	02/95	H/L Speci	VOL		1.58	6TH TSP	+16.23
4	75	02/95	Bobbin	NQI		0.63	TTS-HL	+5.03
		02/95	H/L Speci	VOL		1.86	TTS-HL	+4.69
4	76	02/95	Bobbin	NQI		5.42	TE-HL	+12.66
		02/95	C/L Speci	VOL		0.43	13TH TSP	+9.84
4	80	02/95	Bobbin	NQI		2.57	TE-HL	+6.94
4	81	02/95	Bobbin	ODI	1	0.40	3RD TSP	+0.10
		02/95	Bobbin	ODI	84	0.25	2ND TSP	+0.00
		02/95	H/L Speci	VOL		0.40	4TH TSP	+0.15
		02/95	H/L Speci	VOL		0.81	4TH TSP	-5.48
4	82	02/95	H/L Speci	VOL		0.85	4TH TSP	+16.10
4	83	02/95	Bobbin	NQI		3.17	9TH TSP	+5.29
4	87	02/95	Bobbin	ODI	1	0.33	8TH TSP	+0.00
4	93	02/95	Bobbin	ODI	10	0.34	5TH TSP	-0.05
		02/95	Bobbin	ODI	71	0.33	2ND TSP	-0.10
4	95	02/95	Bobbin	ODI	3	0.52	5TH TSP	-0.08
		02/95	Bobbin	ODI	60	0.63	2ND TSP	-0.15
4	103	02/95	Bobbin	ODI	9	0.61	6TH TSP	+13.15
		02/95	Bobbin	ODI	11	0.63	5TH TSP	+36.13
		02/95	H/L Speci	VOL		0.47	6TH TSP	+11.43
		02/95	H/L Speci	VOL		0.54	6TH TSP	+13.47
		02/95	H/L Speci	VOL		0.79	6TH TSP	-8.00
		02/95	H/L Speci	VOL		1.10	6TH TSP	-3.53
4	105	02/95	Bobbin	ODI	41	0.44	2ND TSP	-0.18
4	107	02/95	H/L Speci	VOL		0.22	4TH TSP	-10.31
4	112	02/95	H/L Tubes	SAI		1.82	TTS-HL	+0.00
4	113	02/95	Bobbin	NQI		1.01	2ND TSP	+12.32
		02/95	Bobbin	ODI	92	0.27	2ND TSP	-0.10
		02/95	H/L Speci	VOL		0.45	2ND TSP	+12.41
4	114	02/95	Bobbin	NQI		5.25	TE-HL	+12.11
5	3	02/95	Bobbin	ODI	92	0.21	3RD TSP	+0.12
		02/95	Bobbin	ODI	98	0.98	2ND TSP	+0.00
5	4	02/95	Bobbin	ODI	97	0.33	2ND TSP	-0.02
		02/95	C/L Speci	VOL		0.31	11TH TSP	+18.88
5	6	02/95	Bobbin	ODI	1	0.65	2ND TSP	+0.05
		02/95	Bobbin	ODI	40	0.23	4TH TSP	-0.05
		02/95	Bobbin	ODI	73	0.70	3RD TSP	-0.10
		02/95	H/L Speci	SAI		1.47	3RD TSP	+0.01
5	7	02/95	Bobbin	ODI	4	1.02	4TH TSP	+41.92
		02/95	Bobbin	ODI	87	0.33	2ND TSP	-0.07
		02/95	H/L Speci	VOL		0.63	5TH TSP	-1.19
		02/95	H/L Speci	VOL		0.72	5TH TSP	-2.22
5	8	02/95	Bobbin	ODI	62	0.55	2ND TSP	-0.07
		02/95	Bobbin	ODI	97	0.47	3RD TSP	+0.00
5	10	02/95	Bobbin	ODI	92	0.34	2ND TSP	-0.02
5	12	02/95	Bobbin	NQI		13.56	TE-HL	+4.72
5	15	02/95	Bobbin	ODI	1	0.45	2ND TSP	+0.05
		02/95	Bobbin	ODI	31	0.32	6TH TSP	-0.12
		02/95	Bobbin	ODI	91	0.53	3RD TSP	-0.10
5	17	02/95	Bobbin	ODI	1	0.41	3RD TSP	+0.00
		02/95	Bobbin	ODI	1	0.66	2ND TSP	-0.02

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

5	18	02/95	Bobbin	ODI	1	0.13	7TH TSP	-0.12
		02/95	Bobbin	ODI	71	0.19	4TH TSP	+0.00
		02/95	Bobbin	ODI	86	0.22	3RD TSP	-0.02
5	22	02/95	Bobbin	ODI	99	0.58	3RD TSP	+0.07
5	26	02/95	Bobbin	NQI		9.17	TE-HL	+2.39
5	33	02/95	Bobbin	ODI	28	0.30	2ND TSP	-0.02
5	58	02/95	Bobbin	NQI		17.83	TE-HL	+9.66
		02/95	Bobbin	ODI	64	0.50	2ND TSP	-0.12
5	64	02/95	Bobbin	NQI		0.50	4TH TSP	+10.24
		02/95	Bobbin	ODI	90	0.51	2ND TSP	-0.12
		02/95	H/L Speci	VOL		0.24	4TH TSP	+10.47
5	65	02/95	Bobbin	NQI		0.54	3RD TSP	+41.60
		02/95	Bobbin	ODI	11	0.36	2ND TSP	+0.02
		02/95	Bobbin	ODI	16	0.54	3RD TSP	-0.02
		02/95	H/L Speci	SAI		0.64	3RD TSP	-0.03
		02/95	H/L Speci	VOL		0.60	4TH TSP	-2.24
5	68	02/95	Bobbin	ODI	84	0.20	3RD TSP	-0.13
		02/95	H/L Speci	SAI		0.28	3RD TSP	+0.01
5	69	02/95	Bobbin	NQI		1.22	1ST TSP	+12.00
		02/95	H/L Speci	VOL		0.74	1ST TSP	+12.14
5	71	02/95	Bobbin	NQI		0.50	5TH TSP	-1.31
		02/95	H/L Speci	VOL		0.82	5TH TSP	-1.29
5	72	02/95	Bobbin	ODI	52	0.33	2ND TSP	-0.10
		02/95	Bobbin	ODI	80	0.37	7TH TSP	+0.00
		02/95	H/L Speci	SAI		0.15	7TH TSP	+0.08
5	74	02/95	Bobbin	ODI	58	0.62	3RD TSP	-0.15
5	75	02/95	Bobbin	ODI	89	0.24	5TH TSP	-0.02
		02/95	H/L Speci	SAI		0.19	5TH TSP	-0.02
		02/95	H/L Speci	VOL		0.31	7TH TSP	+6.58
5	81	02/95	Bobbin	NQI		1.30	TE-HL	+6.36
5	83	02/95	Bobbin	ODI	1	0.52	2ND TSP	-0.05
5	87	02/95	Bobbin	ODI	27	0.28	5TH TSP	+0.00
		02/95	Bobbin	ODI	81	0.45	2ND TSP	-0.15
5	88	02/95	Bobbin	ODI	61	0.51	5TH TSP	-0.10
5	90	02/95	Bobbin	ODI	13	0.66	2ND TSP	-0.23
		02/95	Bobbin	ODI	93	0.60	5TH TSP	-0.05
		02/95	H/L Speci	SAI		0.63	5TH TSP	-0.03
5	92	02/95	Bobbin	ODI	66	0.40	5TH TSP	+0.00
5	93	02/95	Bobbin	ODI	73	0.48	5TH TSP	-0.08
5	94	02/95	Bobbin	ODI	83	0.44	5TH TSP	-0.13
		02/95	H/L Speci	VOL		1.06	2ND TSP	+3.40
5	96	02/95	Bobbin	ODI	18	0.54	3RD TSP	+0.03
		02/95	Bobbin	ODI	94	0.62	5TH TSP	-0.05
5	99	02/95	Bobbin	ODI	58	0.49	4TH TSP	-0.10
5	100	02/95	Bobbin	ODI	1	0.46	4TH TSP	-0.15
5	101	02/95	Bobbin	ODI	98	0.39	3RD TSP	+0.13
5	102	02/95	Bobbin	ODI	81	0.35	5TH TSP	+0.05
5	111	02/95	Bobbin	ODI	99	0.46	2ND TSP	-0.15
5	112	02/95	Bobbin	ODI	86	0.31	6TH TSP	+0.02
		02/95	Bobbin	ODI	99	0.52	2ND TSP	-0.02
5	113	02/95	Bobbin	ODI	15	0.23	3RD TSP	+0.08
		02/95	Bobbin	ODI	32	0.18	6TH TSP	-0.08
6	6	02/95	Bobbin	NQI		19.68	TE-HL	+7.21
		02/95	Bobbin	ODI	91	0.74	2ND TSP	+0.06
6	7	02/95	Bobbin	ODI	63	0.51	2ND TSP	+0.07
		02/95	Bobbin	ODI	74	1.07	3RD TSP	+0.03
		02/95	H/L Speci	MAI		0.9	3RD TSP	+0.02
6	10	02/95	Bobbin	ODI	90	0.4	RD TSP	+0.04
6	11	02/95	H/L Speci	SAI		0.4	RD TSP	+0.07
6	13	02/95	Bobbin	ODI	67	0.8	RD TSP	+0.04
		02/95	H/L Speci	SAI		0.5	RD TSP	-0.01
6	17	02/95	Bobbin	ODI	48	0.4	RD TSP	-0.04
		02/95	Bobbin	ODI	88	0.4	RD TSP	+0.08
6	22	02/95	Bobbin	ODI	18	0.26	2ND TSP	+0.14
6	30	02/95	Bobbin	ODI	8	1.43	4TH TSP	+16.14

BWNT TUBAN II (Version 2.1) 05/01/1995 07:55:48

Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	4	2.19	13TH TSP	+8.49
		02/95	H/L Spec	VOL		1.04	4TH TSP	+16.43
		02/95	C/L Spec	VOL		0.42	13TH TSP	+8.27
		02/95	C/L Spec	VOL		0.73	13TH TSP	+10.16
6	47	02/95	Bobbin	ODI	72	0.86	3RD TSP	+0.00
		02/95	H/L Spec	SAI		0.86	3RD TSP	+0.00
6	48	02/95	H/L Tubes	SAI		1.28	TTS-HL	-0.04
6	52	02/95	Bobbin	ODI	43	0.48	2ND TSP	+0.06
6	55	02/95	Bobbin	ODI	21	0.86	2ND TSP	+0.11
		02/95	Bobbin	ODI	25	0.54	3RD TSP	+0.08
		02/95	Bobbin	ODI	38	0.47	1ST TSP	+10.50
		02/95	H/L Spec	VOL		0.74	1ST TSP	+10.13
6	56	02/95	Bobbin	ODI	12	0.40	3RD TSP	+0.28
		02/95	Bobbin	ODI	17	0.79	2ND TSP	+0.09
6	63	02/95	Bobbin	ODI	93	0.79	3RD TSP	+0.07
6	64	02/95	Bobbin	ODI	81	0.58	3RD TSP	+0.04
6	68	02/95	Bobbin	ODI	77	0.70	3RD TSP	+0.08
6	69	02/95	Bobbin	ODI	74	1.57	3RD TSP	-0.06
		02/95	H/L Spec	SAI		1.91	3RD TSP	+0.00
6	79	02/95	C/L Spec	VOL		0.28	11TH TSP	+15.34
6	80	02/95	Bobbin	ODI	37	0.23	5TH TSP	-0.14
6	93	02/95	Bobbin	ODI	1	0.39	3RD TSP	+0.16
6	99	02/95	Bobbin	ODI	88	0.48	2ND TSP	+0.14
6	102	02/95	Bobbin	ODI	56	0.49	4TH TSP	+0.00
		02/95	Bobbin	ODI	87	0.69	3RD TSP	+0.12
6	113	02/95	Bobbin	ODI	48	0.58	3RD TSP	-0.09
7	2	02/95	Bobbin	ODI	64	0.43	3RD TSP	+0.11
7	5	02/95	Bobbin	ODI	40	0.53	3RD TSP	+0.07
		02/95	Bobbin	ODI	56	1.02	2ND TSP	+0.06
		02/95	H/L Spec	MAI		0.97	2ND TSP	-0.19
7	9	02/95	Bobbin	ODI	88	0.54	3RD TSP	+0.06
7	15	02/95	C/L Spec	VOL		0.26	10TH TSP	+6.38
7	17	02/95	H/L Spec	SAI		0.17	3RD TSP	+0.08
7	22	02/95	Bobbin	ODI	72	0.32	5TH TSP	+0.03
		02/95	Bobbin	ODI	81	0.67	4TH TSP	+0.04
		02/95	Bobbin	ODI	92	0.75	3RD TSP	+0.09
		02/95	H/L Spec	NQI		0.37	4TH TSP	+0.04
7	23	02/95	Bobbin	ODI	57	0.33	5TH TSP	+0.10
		02/95	Bobbin	ODI	82	0.43	4TH TSP	+0.03
		02/95	Bobbin	ODI	93	0.80	3RD TSP	+0.10
		02/95	H/L Spec	SAI		0.48	3RD TSP	-0.10
7	24	02/95	Bobbin	ODI	1	0.67	2ND TSP	+0.06
		02/95	Bobbin	ODI	49	0.74	5TH TSP	+0.04
		02/95	Bobbin	ODI	53	0.59	4TH TSP	+0.06
		02/95	Bobbin	ODI	83	0.96	3RD TSP	+0.13
		02/95	H/L Spec	SAI		0.39	2ND TSP	+0.10
7	26	02/95	Bobbin	ODI	41	1.03	3RD TSP	+0.07
		02/95	Bobbin	ODI	48	0.82	2ND TSP	+0.05
7	28	02/95	Bobbin	ODI	78	0.30	4TH TSP	+0.07
		02/95	Bobbin	ODI	92	0.58	2ND TSP	-0.03
7	30	02/95	Bobbin	ODI	40	0.40	3RD TSP	+0.12
7	31	02/95	Bobbin	ODI	41	0.76	2ND TSP	+0.19
		02/95	Bobbin	ODI	54	0.71	3RD TSP	+0.07
7	34	02/95	Bobbin	ODI	68	0.43	2ND TSP	+0.01
7	35	02/95	Bobbin	ODI	41	0.69	3RD TSP	+0.08
		02/95	Bobbin	ODI	56	0.87	2ND TSP	+0.10
		02/95	Bobbin	ODI	75	0.45	4TH TSP	+0.06
7	36	02/95	Bobbin	ODI	62	0.39	3RD TSP	+0.11
		02/95	Bobbin	ODI	81	0.63	4TH TSP	+0.11
7	38	02/95	Bobbin	ODI	37	0.59	5TH TSP	+0.06
		02/95	Bobbin	ODI	52	0.77	2ND TSP	+0.12
		02/95	Bobbin	ODI	63	0.47	4TH TSP	+0.08
7	39	02/95	Bobbin	ODI	14	0.51	2ND TSP	+0.21
7	40	02/95	Bobbin	ODI	15	0.69	2ND TSP	+0.17
7	41	02/95	Bobbin	ODI	39	0.45	3RD TSP	+0.08

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	64	0.58	2ND TSP	+0.12
		02/95	Bobbin	ODI	66	0.57	4TH TSP	+0.15
7	42	02/95	Bobbin	ODI	36	0.36	2ND TSP	+0.12
7	45	02/95	Bobbin	ODI	65	0.49	3RD TSP	+0.07
7	47	02/95	Bobbin	ODI	30	0.62	3RD TSP	+0.14
7	52	02/95	Bobbin	ODI	70	1.11	2ND TSP	+0.07
7	56	02/95	Bobbin	ODI	67	0.88	3RD TSP	+0.11
		02/95	Bobbin	ODI	71	0.30	5TH TSP	+0.11
		02/95	Bobbin	ODI	83	0.66	2ND TSP	+0.21
		02/95	H/L Speci	SAI		0.93	3RD TSP	+0.11
7	57	02/95	Bobbin	ODI	15	0.59	7TH TSP	-0.19
		02/95	Bobbin	ODI	21	0.43	5TH TSP	+0.17
		02/95	Bobbin	ODI	40	0.83	2ND TSP	+0.13
		02/95	Bobbin	ODI	45	0.68	4TH TSP	+0.09
		02/95	Bobbin	ODI	58	0.94	3RD TSP	+0.15
		02/95	Bobbin	ODI	74	0.22	6TH TSP	-0.15
7	58	02/95	Bobbin	ODI	50	0.23	6TH TSP	+0.03
		02/95	Bobbin	ODI	60	0.32	4TH TSP	+0.01
		02/95	Bobbin	ODI	65	0.90	2ND TSP	+0.22
		02/95	H/L Speci	SAI		0.36	2ND TSP	+0.00
7	59	02/95	Bobbin	ODI	32	0.52	3RD TSP	+0.22
		02/95	Bobbin	ODI	45	0.40	2ND TSP	+0.11
		02/95	Bobbin	ODI	65	0.38	4TH TSP	+0.11
7	65	02/95	Bobbin	ODI	38	0.80	2ND TSP	+0.15
		02/95	Bobbin	ODI	70	0.47	3RD TSP	+0.07
		02/95	H/L Speci	SAI		0.32	2ND TSP	+0.03
7	67	02/95	Bobbin	ODI	26	0.56	3RD TSP	-0.12
		02/95	Bobbin	ODI	74	0.95	2ND TSP	+0.02
		02/95	H/L Speci	SAI		0.95	2ND TSP	-0.09
7	71	02/95	Bobbin	ODI	62	0.61	2ND TSP	+0.08
		02/95	Bobbin	ODI	84	0.32	3RD TSP	+0.10
7	77	02/95	Bobbin	ODI	48	0.50	2ND TSP	+0.24
7	80	02/95	Bobbin	ODI	21	0.85	2ND TSP	+0.07
		02/95	Bobbin	ODI	55	1.14	3RD TSP	+0.17
7	82	02/95	Bobbin	ODI	2	0.43	3RD TSP	+0.18
7	83	02/95	Bobbin	ODI	63	0.55	3RD TSP	+0.13
		02/95	Bobbin	ODI	80	0.74	2ND TSP	+0.19
7	84	02/95	Bobbin	ODI	2	0.59	5TH TSP	+0.08
		02/95	Bobbin	ODI	82	0.40	3RD TSP	+0.14
7	86	02/95	Bobbin	ODI	16	0.65	2ND TSP	+0.10
7	87	02/95	Bobbin	ODI	38	0.21	2ND TSP	+0.10
		02/95	Bobbin	ODI	64	0.69	4TH TSP	+0.10
		02/95	Bobbin	ODI	74	0.32	3RD TSP	+0.14
7	88	02/95	Bobbin	ODI	36	0.57	3RD TSP	+0.24
		02/95	Bobbin	ODI	87	0.58	4TH TSP	+0.14
7	89	02/95	Bobbin	ODI	69	0.39	4TH TSP	+0.14
		02/95	Bobbin	ODI	73	0.71	3RD TSP	+0.22
7	90	02/95	Bobbin	ODI	1	0.57	3RD TSP	+0.20
7	96	02/95	Bobbin	ODI	70	0.31	3RD TSP	+0.12
7	100	02/95	Bobbin	ODI	38	0.31	3RD TSP	+0.16
		02/95	Bobbin	ODI	76	0.43	2ND TSP	+0.07
		02/95	Bobbin	ODI	80	0.80	4TH TSP	+0.08
7	102	02/95	Bobbin	ODI	6	0.38	3RD TSP	+0.14
8	11	02/95	Bobbin	ODI	85	0.76	2ND TSP	+0.09
8	14	02/95	Bobbin	ODI	41	0.36	2ND TSP	+0.10
8	18	02/95	Bobbin	ODI	56	0.37	5TH TSP	-0.27
		02/95	Bobbin	ODI	70	0.87	2ND TSP	+0.00
8	21	02/95	Bobbin	ODI	66	0.35	6TH TSP	-0.01
		02/95	Bobbin	ODI	78	0.71	3RD TSP	+0.07
8	24	02/95	Bobbin	ODI	34	0.59	2ND TSP	+0.04
		02/95	Bobbin	ODI	51	0.36	3RD TSP	+0.06
8	26	02/95	Bobbin	ODI	34	0.49	5TH TSP	+0.12
		02/95	Bobbin	ODI	64	0.39	2ND TSP	+0.07
		02/95	Bobbin	ODI	83	0.47	3RD TSP	+0.10
8	27	02/95	Bobbin	ODI	43	1.34	2ND TSP	+0.06

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	67	1.09	3RD TSP	+0.08
8	30	02/95	Bobbin	NQI		0.59	9TH TSP	+18.36
		02/95	U-Bend	VOL		1.49	9TH TSP	+19.65
		02/95	Bobbin	NQI		1.18	21ST TSP	+2.91
		02/95	C/L Speci	VOL		0.81	21ST TSP	+3.00
8	31	02/95	Bobbin	ODI	68	0.58	3RD TSP	+0.00
		02/95	Bobbin	ODI	84	0.28	5TH TSP	+0.10
		02/95	Bobbin	ODI	9	0.65	11TH TSP	+19.74
		02/95	C/L Speci	VOL		0.61	11TH TSP	+19.62
8	32	02/95	Bobbin	ODI	91	0.44	4TH TSP	+0.16
8	35	02/95	Bobbin	ODI	51	0.94	2ND TSP	+0.07
8	37	02/95	Bobbin	ODI	69	0.48	2ND TSP	+0.00
8	40	02/95	Bobbin	ODI	19	0.90	12TH TSP	+27.50
		02/95	C/L Speci	VOL		0.38	12TH TSP	+30.57
		02/95	C/L Speci	VOL		0.54	12TH TSP	+26.86
8	41	02/95	Bobbin	ODI	72	0.73	2ND TSP	+0.08
		02/95	C/L Speci	VOL		0.29	11TH TSP	+11.49
8	42	02/95	Bobbin	ODI	45	0.59	2ND TSP	+0.10
8	46	02/95	Bobbin	ODI	39	0.64	2ND TSP	+0.06
		02/95	H/L Speci	NQI		0.40	2ND TSP	-0.17
		02/95	H/L Speci	VOL		0.81	2ND TSP	-0.15
8	47	02/95	Bobbin	ODI	51	0.12	2ND TSP	+0.13
8	48	02/95	Bobbin	ODI	76	0.62	2ND TSP	-0.09
		02/95	H/L Speci	NQI		0.14	2ND TSP	+0.00
8	49	02/95	Bobbin	ODI	3	1.64	11TH TSP	+24.04
		02/95	C/L Speci	VOL		0.31	11TH TSP	+23.55
8	53	02/95	Bobbin	ODI	62	0.45	2ND TSP	+0.00
8	56	02/95	Bobbin	ODI	36	0.62	5TH TSP	+0.26
		02/95	Bobbin	ODI	41	0.60	7TH TSP	-0.11
		02/95	Bobbin	ODI	43	1.19	2ND TSP	+0.21
		02/95	Bobbin	ODI	49	0.82	3RD TSP	+0.19
		02/95	Bobbin	ODI	71	0.37	4TH TSP	+0.04
		02/95	Bobbin	ODI	80	0.51	6TH TSP	-0.11
8	57	02/95	Bobbin	ODI	48	1.04	2ND TSP	+0.19
		02/95	Bobbin	ODI	51	0.69	4TH TSP	+0.06
		02/95	Bobbin	ODI	55	0.79	3RD TSP	+0.15
		02/95	Bobbin	ODI	89	0.63	5TH TSP	+0.11
8	59	02/95	Bobbin	ODI	93	1.63	3RD TSP	+0.07
		02/95	H/L Speci	SAI		2.38	3RD TSP	+0.07
8	62	02/95	Bobbin	NQI		0.93	4TH TSP	+35.04
		02/95	Bobbin	ODI	65	0.49	2ND TSP	+0.17
		02/95	Bobbin	ODI	72	0.42	3RD TSP	+0.04
		02/95	H/L Speci	VOL		0.79	5TH TSP	-8.63
8	71	02/95	Bobbin	ODI	74	0.41	3RD TSP	+0.04
		02/95	Bobbin	ODI	87	0.51	2ND TSP	+0.04
8	74	02/95	Bobbin	ODI	46	0.61	2ND TSP	+0.22
		02/95	Bobbin	ODI	57	0.47	3RD TSP	+0.15
8	77	02/95	Bobbin	ODI	6	0.58	2ND TSP	+0.21
		02/95	Bobbin	ODI	57	0.71	4TH TSP	+0.09
		02/95	Bobbin	ODI	62	0.73	3RD TSP	+0.13
8	79	02/95	Bobbin	ODI	44	0.35	4TH TSP	+0.00
		02/95	Bobbin	ODI	49	0.45	3RD TSP	+0.11
8	80	02/95	Bobbin	NQI		0.33	5TH TSP	+34.51
		02/95	Bobbin	ODI	14	0.35	4TH TSP	-0.11
		02/95	Bobbin	ODI	70	0.33	2ND TSP	+0.04
		02/95	Bobbin	ODI	74	0.41	3RD TSP	+0.20
		02/95	Bobbin	ODI	90	0.45	5TH TSP	+0.02
8	81	02/95	Bobbin	ODI	76	0.43	5TH TSP	+0.00
		02/95	Bobbin	ODI	86	0.37	4TH TSP	+0.02
8	86	02/95	Bobbin	ODI	70	0.33	4TH TSP	+0.00
8	87	02/95	Bobbin	NQI		0.36	13TH TSP	-0.12
		02/95	Bobbin	ODI	14	0.65	3RD TSP	+0.27
		02/95	Bobbin	ODI	68	0.73	4TH TSP	+0.04
8	88	02/95	Bobbin	ODI	21	0.32	2ND TSP	+0.02
		02/95	Bobbin	ODI	47	0.55	3RD TSP	+0.22

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

8	90	02/95	Bobbin	ODI	57	0.78	4TH TSP	+0.09
		02/95	Bobbin	ODI	69	0.45	3RD TSP	+0.15
		02/95	Bobbin	ODI	74	0.55	2ND TSP	+0.00
8	95	02/95	Bobbin	ODI	51	0.31	3RD TSP	+0.04
9	6	02/95	Bobbin	ODI	49	1.01	3RD TSP	+0.00
		02/95	Bobbin	ODI	73	0.70	5TH TSP	+0.05
		02/95	Bobbin	ODI	73	1.27	2ND TSP	+0.07
		02/95	Bobbin	ODI	89	0.54	4TH TSP	+0.04
9	14	02/95	Bobbin	ODI	1	0.70	3RD TSP	+0.09
		02/95	Bobbin	ODI	37	0.48	2ND TSP	+0.05
		02/95	Bobbin	ODI	48	0.57	4TH TSP	+0.07
		02/95	Bobbin	ODI	72	0.86	5TH TSP	+0.00
9	16	02/95	Bobbin	ODI	5	1.22	2ND TSP	+0.09
		02/95	Bobbin	ODI	67	1.02	3RD TSP	+0.14
		02/95	Bobbin	ODI	75	0.63	4TH TSP	+0.04
9	17	02/95	Bobbin	ODI	1	0.20	4TH TSP	+0.02
		02/95	Bobbin	ODI	52	0.75	3RD TSP	+0.11
		02/95	Bobbin	ODI	90	0.47	2ND TSP	+0.12
9	19	02/95	Bobbin	ODI	10	0.51	7TH TSP	+0.07
		02/95	Bobbin	ODI	28	0.63	3RD TSP	+0.11
		02/95	Bobbin	ODI	61	0.41	2ND TSP	-0.04
		02/95	Bobbin	ODI	78	0.52	6TH TSP	-0.07
		02/95	Bobbin	ODI	80	0.33	4TH TSP	+0.04
		02/95	Bobbin	ODI	99	0.40	5TH TSP	+0.11
9	22	02/95	Bobbin	ODI	12	0.68	4TH TSP	+0.02
		02/95	Bobbin	ODI	19	0.91	2ND TSP	+0.12
		02/95	Bobbin	ODI	27	0.59	5TH TSP	+0.05
		02/95	Bobbin	ODI	54	0.74	3RD TSP	+0.14
9	24	02/95	Bobbin	ODI	90	0.50	3RD TSP	+0.07
9	31	02/95	Bobbin	ODI	12	0.49	3RD TSP	+4.40
9	33	02/95	Bobbin	ODI	95	0.34	3RD TSP	+0.17
9	38	02/95	Bobbin	ODI	31	0.29	2ND TSP	+0.03
		02/95	Bobbin	ODI	81	0.39	4TH TSP	+0.11
		02/95	Bobbin	ODI	90	0.47	3RD TSP	+0.11
9	50	02/95	Bobbin	ODI	50	0.34	3RD TSP	+0.22
		02/95	Bobbin	ODI	69	0.29	4TH TSP	+0.09
9	59	02/95	Bobbin	ODI	22	0.50	4TH TSP	+0.09
		02/95	Bobbin	ODI	46	0.30	2ND TSP	+0.19
		02/95	Bobbin	ODI	55	0.27	5TH TSP	+0.11
		02/95	Bobbin	ODI	85	0.41	3RD TSP	+0.15
9	60	02/95	Bobbin	ODI	1	0.41	2ND TSP	+0.21
		02/95	Bobbin	ODI	68	0.29	5TH TSP	+0.15
		02/95	Bobbin	ODI	85	0.37	3RD TSP	+0.11
		02/95	Bobbin	ODI	89	0.29	4TH TSP	+0.04
9	63	02/95	Bobbin	ODI	61	0.25	4TH TSP	-0.04
		02/95	Bobbin	ODI	81	0.34	2ND TSP	+0.15
		02/95	Bobbin	ODI	81	0.79	3RD TSP	+0.13
9	64	02/95	H/L Speci	VOL		0.61	3RD TSP	-0.01
9	67	02/95	Bobbin	ODI	50	0.37	2ND TSP	+0.07
		02/95	Bobbin	ODI	93	0.40	5TH TSP	+0.15
9	69	02/95	Bobbin	ODI	44	1.20	4TH TSP	+0.09
		02/95	Bobbin	ODI	51	0.28	2ND TSP	+0.00
		02/95	Bobbin	ODI	56	0.77	3RD TSP	+0.11
		02/95	Bobbin	ODI	79	0.59	5TH TSP	+0.13
		02/95	H/L Speci	VOL		0.36	4TH TSP	+0.12
9	70	02/95	Bobbin	ODI	69	0.69	2ND TSP	+0.22
		02/95	Bobbin	ODI	80	0.48	3RD TSP	+0.00
		02/95	Bobbin	ODI	93	0.71	5TH TSP	+0.13
9	74	02/95	Bobbin	ODI	62	0.37	3RD TSP	+0.09
9	78	02/95	H/L Speci	VOL		0.49	3RD TSP	+22.27
9	81	02/95	Bobbin	ODI	18	2.19	2ND TSP	+3.20
		02/95	H/L Speci	VOL		1.38	2ND TSP	+3.50
9	84	02/95	Bobbin	ODI	2	1.27	1ST TSP	+8.79
9	100	02/95	Bobbin	ODI	2	1.01	2ND TSP	+0.04
		02/95	Bobbin	ODI	66	0.25	3RD TSP	+0.11

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
		02/95	Bobbin	ODI	85	0.31	4TH TSP	+0.07
		02/95	Bobbin	ODI	85	0.59	5TH TSP	+0.04
9	101	02/95	Bobbin	ODI	11	2.21	3RD TSP	+42.02
		02/95	Bobbin	ODI	25	0.49	3RD TSP	+9.18
		02/95	H/L Spec	VOL		0.30	3RD TSP	+9.21
		02/95	H/L Spec	VOL		0.82	3RD TSP	+42.02
9	104	02/95	Bobbin	ODI	40	0.19	6TH TSP	+0.09
9	106	02/95	Bobbin	ODI	87	0.31	6TH TSP	+0.06
9	107	02/95	Bobbin	ODI	66	0.31	3RD TSP	+0.08
9	110	02/95	Bobbin	ODI	28	0.25	6TH TSP	-0.06
9	113	02/95	Bobbin	ODI	69	0.71	2ND TSP	+0.13
10	3	02/95	Bobbin	ODI	79	0.89	3RD TSP	+0.04
10	4	02/95	Bobbin	ODI	74	0.67	5TH TSP	+0.14
10	5	02/95	Bobbin	ODI	98	1.09	2ND TSP	+0.04
		02/95	H/L Spec	MAI		0.28	2ND TSP	+0.08
10	7	02/95	Bobbin	ODI	1	0.35	6TH TSP	+0.00
		02/95	Bobbin	ODI	97	0.34	4TH TSP	+0.20
10	13	02/95	Bobbin	ODI	99	0.60	3RD TSP	+0.12
10	19	02/95	Bobbin	NQI		0.51	17TH TSP	+7.21
		02/95	Bobbin	NQI		0.93	17TH TSP	+9.31
		02/95	C/L Spec	VOL		0.40	16TH TSP	-3.80
		02/95	C/L Spec	VOL		0.47	16TH TSP	-1.67
10	21	02/95	Bobbin	ODI	17	1.56	15TH TSP	+8.59
		02/95	C/L Spec	VOL		0.74	14TH TSP	-2.45
10	26	02/95	Bobbin	ODI	34	0.26	3RD TSP	+0.12
10	29	02/95	Bobbin	NQI		0.38	17TH TSP	+2.69
		02/95	C/L Spec	VOL		0.39	17TH TSP	+3.02
10	30	02/95	Bobbin	NQI		0.32	5TH TSP	+3.77
		02/95	H/L Spec	VOL		0.39	5TH TSP	+3.62
		02/95	H/L Spec	VOL		0.40	5TH TSP	+6.79
10	32	02/95	Bobbin	ODI	76	0.34	3RD TSP	+0.21
10	33	02/95	Bobbin	ODI	7	0.21	4TH TSP	+0.00
10	38	02/95	Bobbin	ODI	12	0.90	2ND TSP	+0.04
		02/95	Bobbin	ODI	35	0.23	6TH TSP	+0.06
		02/95	Bobbin	ODI	74	0.37	5TH TSP	+0.02
		02/95	Bobbin	ODI	77	0.41	3RD TSP	+0.13
		02/95	Bobbin	ODI	77	0.50	4TH TSP	+0.10
10	43	02/95	Bobbin	ODI	89	0.37	2ND TSP	+0.19
10	46	02/95	Bobbin	ODI	16	0.26	3RD TSP	+0.17
10	49	02/95	Bobbin	ODI	52	0.24	2ND TSP	+0.04
10	50	02/95	Bobbin	ODI	84	0.20	3RD TSP	+0.11
10	56	02/95	Bobbin	ODI	98	0.39	3RD TSP	+0.09
10	58	02/95	Bobbin	ODI	87	0.42	3RD TSP	+0.08
10	59	02/95	Bobbin	ODI	65	0.48	3RD TSP	+0.19
		02/95	Bobbin	ODI	80	0.52	4TH TSP	-0.04
10	61	02/95	Bobbin	ODI	67	0.45	2ND TSP	+0.16
10	64	02/95	Bobbin	ODI	82	0.43	2ND TSP	+0.11
		02/95	Bobbin	ODI	99	0.72	3RD TSP	+0.04
10	66	02/95	Bobbin	ODI	19	0.43	3RD TSP	+34.76
		02/95	H/L Spec	VOL		0.28	3RD TSP	+13.08
		02/95	H/L Spec	VOL		0.39	3RD TSP	+34.37
10	68	02/95	Bobbin	ODI	79	0.47	3RD TSP	+0.06
		02/95	Bobbin	ODI	92	0.31	2ND TSP	+0.16
10	70	02/95	Bobbin	ODI	84	0.49	3RD TSP	+0.06
10	71	02/95	Bobbin	ODI	16	0.27	5TH TSP	+9.30
		02/95	H/L Spec	VOL		0.72	7TH TSP	+25.40
10	72	02/95	Bobbin	ODI	66	0.27	2ND TSP	-0.02
10	77	02/95	C/L Spec	VOL		0.28	10TH TSP	-4.30
10	79	02/95	Bobbin	ODI	76	0.34	2ND TSP	+0.19
10	80	02/95	Bobbin	ODI	63	0.32	4TH TSP	+0.08
		02/95	Bobbin	ODI	99	0.70	2ND TSP	+0.20
10	86	02/95	Bobbin	ODI	10	1.05	3RD TSP	+27.64
		02/95	H/L Spec	VOL		0.87	3RD TSP	+27.47
10	87	02/95	Bobbin	ODI	5	0.73	4TH TSP	+27.34
		02/95	H/L Spec	VOL		0.50	4TH TSP	+27.70

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

10	89	02/95	Bobbin	ODI	64	0.32	3RD TSP	+0.14
10	90	02/95	Bobbin	NQI		1.63	TTS-CL	-0.44
		02/95	Bobbin	ODI	87	0.35	4TH TSP	+0.06
		02/95	Bobbin	ODI	94	0.29	3RD TSP	+0.16
10	92	02/95	Bobbin	ODI	33	0.20	3RD TSP	+0.10
		02/95	Bobbin	ODI	90	0.31	5TH TSP	+0.02
		02/95	Bobbin	ODI	94	0.65	4TH TSP	+0.08
10	94	02/95	Bobbin	ODI	72	0.61	2ND TSP	-0.06
10	96	02/95	Bobbin	ODI	83	0.66	2ND TSP	+0.02
		02/95	Bobbin	ODI	17	0.53	10TH TSP	+36.30
		02/95	C/L Speci	VOL		0.87	9TH TSP	-7.61
10	97	02/95	Bobbin	ODI	86	0.23	5TH TSP	+0.02
10	99	02/95	Bobbin	ODI	9	0.78	2ND TSP	+0.14
		02/95	Bobbin	ODI	24	0.65	3RD TSP	+0.24
		02/95	Bobbin	ODI	77	0.76	4TH TSP	+0.04
10	101	02/95	Bobbin	ODI	21	0.62	2ND TSP	+0.12
		02/95	Bobbin	ODI	30	0.81	3RD TSP	+0.18
10	102	02/95	Bobbin	ODI	40	0.32	4TH TSP	-0.04
		02/95	Bobbin	ODI	42	0.74	3RD TSP	+0.22
		02/95	Bobbin	ODI	44	0.85	2ND TSP	+0.04
		02/95	Bobbin	ODI	98	0.42	5TH TSP	+0.04
10	107	02/95	Bobbin	ODI	61	0.28	4TH TSP	+0.00
		02/95	Bobbin	ODI	93	0.40	5TH TSP	+0.04
10	108	02/95	Bobbin	ODI	92	0.66	2ND TSP	+0.00
10	110	02/95	Bobbin	ODI	93	0.22	2ND TSP	+0.10
10	111	02/95	Bobbin	ODI	93	0.40	5TH TSP	+0.11
10	112	02/95	Bobbin	ODI	76	0.43	5TH TSP	+0.08
		02/95	Bobbin	ODI	92	0.40	2ND TSP	+0.08
10	113	02/95	Bobbin	ODI	75	0.87	2ND TSP	+0.17
11	19	02/95	Bobbin	ODI	8	0.41	4TH TSP	-0.04
11	22	02/95	Bobbin	ODI	88	0.53	2ND TSP	+0.09
		02/95	Bobbin	ODI	90	0.39	5TH TSP	+0.02
11	23	02/95	Bobbin	ODI	1	0.56	7TH TSP	-0.04
		02/95	Bobbin	ODI	92	0.49	2ND TSP	+0.14
11	29	02/95	H/L Speci	VOL		0.23	2ND TSP	+5.07
		02/95	H/L Speci	VOL		0.24	2ND TSP	-3.29
		02/95	H/L Speci	VOL		0.25	2ND TSP	-1.80
		02/95	H/L Speci	VOL		0.27	2ND TSP	-4.14
		02/95	H/L Speci	VOL		0.28	2ND TSP	+0.71
		02/95	H/L Speci	VOL		0.44	2ND TSP	+3.53
		02/95	H/L Speci	VOL		0.46	2ND TSP	+2.05
		02/95	H/L Speci	VOL		0.48	2ND TSP	+6.58
		02/95	H/L Speci	VOL		0.76	2ND TSP	-0.06
11	30	02/95	Bobbin	NQI		21.78	TE-HL	+11.86
11	37	02/95	Bobbin	ODI	72	0.24	4TH TSP	+0.05
		02/95	Bobbin	ODI	73	0.30	5TH TSP	+0.04
11	40	02/95	Bobbin	ODI	1	0.27	4TH TSP	+0.05
		02/95	Bobbin	ODI	1	0.62	6TH TSP	+0.14
11	44	02/95	Bobbin	ODI	73	0.31	6TH TSP	+0.09
		02/95	Bobbin	ODI	88	0.67	3RD TSP	+0.05
11	59	02/95	Bobbin	ODI	98	0.33	2ND TSP	+0.15
11	60	02/95	Bobbin	ODI	94	0.37	4TH TSP	+0.10
11	63	02/95	Bobbin	ODI	96	0.90	4TH TSP	+0.06
		02/95	Bobbin	ODI	97	1.23	3RD TSP	+0.08
11	64	02/95	Bobbin	ODI	51	0.33	4TH TSP	+0.04
		02/95	Bobbin	ODI	54	0.23	2ND TSP	+0.00
		02/95	Bobbin	ODI	73	0.39	3RD TSP	+0.13
11	65	02/95	Bobbin	ODI	56	0.32	3RD TSP	+0.19
		02/95	Bobbin	ODI	60	1.01	2ND TSP	+0.15
		02/95	Bobbin	ODI	81	0.73	4TH TSP	+0.02
		02/95	Bobbin	ODI	89	0.69	5TH TSP	+0.06
11	66	02/95	Bobbin	ODI	1	0.99	3RD TSP	+36.98
		02/95	H/L Speci	VOL		0.41	4TH TSP	-7.22
11	70	02/95	Bobbin	ODI	75	0.44	3RD TSP	+0.20
11	72	02/95	Bobbin	ODI	15	0.82	4TH TSP	+19.15

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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

	02/95	H/L Speci	VOL		0.27	4TH TSP	+19.78
11	74	02/95	Bobbin	ODI	94	0.68 2ND TSP	+0.13
11	77	02/95	Bobbin	ODI	11	0.83 3RD TSP	+0.16
	02/95	Bobbin	ODI	34	0.78 2ND TSP	+0.06	
	02/95	Bobbin	ODI	68	0.63 4TH TSP	+0.04	
11	79	02/95	Bobbin	ODI	78	0.24 4TH TSP	+0.00
11	84	02/95	Bobbin	ODI	46	0.33 4TH TSP	+0.04
11	88	02/95	Bobbin	ODI	6	0.91 3RD TSP	+0.18
	02/95	Bobbin	ODI	9	0.41 4TH TSP	+0.00	
11	94	02/95	Bobbin	ODI	8	0.48 4TH TSP	+0.02
	02/95	Bobbin	ODI	49	0.40 3RD TSP	+0.20	
11	102	02/95	Bobbin	ODI	72	0.32 2ND TSP	+0.00
11	103	02/95	Bobbin	ODI	97	0.76 2ND TSP	-0.04
12	2	02/95	Bobbin	ODI	33	0.23 3RD TSP	+0.05
	02/95	Bobbin	ODI	78	0.36 7TH TSP	+0.07	
12	4	02/95	Bobbin	ODI	92	0.49 3RD TSP	+0.10
12	6	02/95	Bobbin	ODI	89	0.27 2ND TSP	+0.13
12	10	02/95	Bobbin	ODI	23	0.43 22ND TSP	+9.64
12	12	02/95	Bobbin	ODI	40	0.38 4TH TSP	+0.00
12	16	02/95	Bobbin	ODI	3	0.52 13TH TSP	+7.35
	02/95	C/L Speci	VOL		0.60	13TH TSP	+7.18
12	19	02/95	Bobbin	ODI	2	0.41 4TH TSP	+0.02
12	24	02/95	Bobbin	ODI	34	0.24 4TH TSP	+0.05
12	29	02/95	C/L Speci	VOL		0.43 15TH TSP	-3.03
12	30	02/95	Bobbin	ODI	95	0.22 4TH TSP	+0.00
12	31	02/95	Bobbin	ODI	28	0.20 4TH TSP	-0.03
	02/95	Bobbin	ODI	83	0.27 3RD TSP	+0.08	
12	33	02/95	Bobbin	ODI	25	0.71 18TH TSP	+7.03
	02/95	C/L Speci	VOL		0.47	18TH TSP	+7.32
12	34	02/95	Bobbin	ODI	50	0.21 4TH TSP	+0.07
	02/95	Bobbin	ODI	88	0.17 5TH TSP	+0.05	
	02/95	Bobbin	ODI	94	0.53 3RD TSP	+0.00	
12	35	02/95	Bobbin	ODI	61	0.38 3RD TSP	+0.15
12	36	02/95	Bobbin	ODI	72	0.24 4TH TSP	+0.05
	02/95	Bobbin	ODI	85	0.38 3RD TSP	+0.12	
12	37	02/95	Bobbin	NQI		0.33 13TH TSP	+10.75
	02/95	C/L Speci	VOL		0.54	13TH TSP	+10.49
12	38	02/95	Bobbin	ODI	40	0.33 3RD TSP	+0.07
	02/95	Bobbin	ODI	61	0.22 2ND TSP	+0.05	
	02/95	Bobbin	ODI	65	0.29 4TH TSP	+0.07	
12	39	02/95	Bobbin	ODI	8	0.70 2ND TSP	+0.10
	02/95	Bobbin	ODI	42	0.43 3RD TSP	+0.02	
	02/95	Bobbin	ODI	72	0.60 4TH TSP	+0.05	
12	41	02/95	Bobbin	ODI	86	0.13 3RD TSP	+0.08
12	42	02/95	Bobbin	ODI	78	0.36 2ND TSP	+0.13
12	44	02/95	Bobbin	ODI	16	1.78 5TH TSP	+27.71
	02/95	H/L Speci	VOL		0.80	6TH TSP	-16.52
	02/95	H/L Speci	VOL		1.70	6TH TSP	+1.87
12	45	02/95	Bobbin	ODI	88	0.48 2ND TSP	+0.03
12	46	02/95	Bobbin	ODI	30	0.51 3RD TSP	+0.10
	02/95	Bobbin	ODI	97	0.51 4TH TSP	+0.07	
12	57	02/95	Bobbin	ODI	89	0.52 2ND TSP	+0.10
12	59	02/95	Bobbin	ODI	68	0.52 5TH TSP	+0.07
	02/95	Bobbin	ODI	84	0.32 4TH TSP	+0.07	
	02/95	Bobbin	ODI	96	0.62 3RD TSP	+0.07	
	02/95	H/L Speci	SAI		0.36	3RD TSP	-0.02
12	61	02/95	Bobbin	ODI	96	0.40 4TH TSP	+0.00
12	64	02/95	Bobbin	ODI	92	1.58 3RD TSP	+0.12
	02/95	H/L Speci	SAI		2.39	3RD TSP	+0.00
12	68	02/95	Bobbin	ODI	54	0.47 4TH TSP	+0.08
	02/95	Bobbin	ODI	86	0.64 3RD TSP	+0.12	
	02/95	Bobbin	ODI	95	0.79 5TH TSP	+0.02	
	02/95	H/L Speci	MAI		0.17	3RD TSP	+0.13
	02/95	H/L Speci	SAI		0.32	5TH TSP	+0.11
12	89	02/95	Bobbin	ODI	96	0.40 2ND TSP	+0.06

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

12	93	02/95	Bobbin	ODI	58	0.37	2ND TSP	+0.12
12	94	02/95	Bobbin	ODI	71	0.39	4TH TSP	+0.04
		02/95	Bobbin	ODI	82	0.40	2ND TSP	+0.12
12	98	02/95	Bobbin	ODI	14	0.78	3RD TSP	+38.61
		02/95	Bobbin	ODI	73	0.50	2ND TSP	+0.06
		02/95	Bobbin	ODI	77	0.77	4TH TSP	+0.00
		02/95	H/L Speci	VOL		1.13	4TH TSP	-5.86
12	99	02/95	Bobbin	ODI	75	0.41	3RD TSP	+0.10
		02/95	Bobbin	ODI	92	0.51	4TH TSP	+0.06
12	100	02/95	Bobbin	ODI	69	0.37	4TH TSP	+0.08
12	101	02/95	Bobbin	ODI	90	0.61	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.36	2ND TSP	+0.00
12	102	02/95	Bobbin	ODI	57	0.41	2ND TSP	+0.06
12	105	02/95	Bobbin	ODI	95	0.94	2ND TSP	+0.08
		02/95	H/L Speci	SAI		1.03	2ND TSP	+0.00
12	106	02/95	Bobbin	ODI	65	0.41	4TH TSP	+0.02
12	110	02/95	Bobbin	ODI	95	0.46	2ND TSP	+0.06
12	112	02/95	Bobbin	ODI	67	0.57	5TH TSP	+0.06
13	3	02/95	Bobbin	ODI	89	0.50	3RD TSP	+0.07
		02/95	Bobbin	ODI	98	0.80	2ND TSP	+0.05
		02/95	H/L Speci	SAI		0.21	2ND TSP	-0.13
13	6	02/95	Bobbin	ODI	81	0.41	4TH TSP	+0.11
13	15	02/95	Bobbin	ODI	15	0.33	4TH TSP	+0.11
13	16	02/95	Bobbin	ODI	83	0.66	2ND TSP	+0.05
13	39	02/95	Bobbin	ODI	99	0.24	5TH TSP	+0.07
13	40	02/95	Bobbin	ODI	65	0.35	5TH TSP	-0.05
		02/95	Bobbin	ODI	65	0.48	3RD TSP	+0.14
		02/95	Bobbin	ODI	75	0.60	2ND TSP	+0.00
		02/95	Bobbin	ODI	88	0.46	4TH TSP	+0.13
13	42	02/95	Bobbin	ODI	63	0.21	4TH TSP	+0.07
13	45	02/95	Bobbin	ODI	42	0.29	5TH TSP	+0.04
13	46	02/95	Bobbin	ODI	17	0.18	5TH TSP	+0.07
		02/95	Bobbin	ODI	98	0.21	6TH TSP	+0.02
13	47	02/95	Bobbin	ODI	46	0.34	3RD TSP	+0.16
13	49	02/95	Bobbin	ODI	86	0.32	2ND TSP	+0.11
13	54	02/95	Bobbin	ODI	72	0.87	3RD TSP	+0.05
13	55	02/95	Bobbin	ODI	78	0.53	4TH TSP	+0.02
13	60	02/95	Bobbin	ODI	50	0.91	3RD TSP	-0.02
		02/95	Bobbin	ODI	60	0.25	2ND TSP	+0.11
13	61	02/95	Bobbin	ODI	31	0.69	3RD TSP	+0.25
		02/95	Bobbin	ODI	55	0.42	4TH TSP	+0.14
13	62	02/95	Bobbin	ODI	60	0.26	4TH TSP	+0.11
		02/95	Bobbin	ODI	84	0.57	3RD TSP	+0.23
		02/95	Bobbin	ODI	99	0.32	2ND TSP	+0.07
		02/95	Bobbin	ODI	99	0.52	5TH TSP	+0.05
13	63	02/95	Bobbin	ODI	18	0.56	3RD TSP	+0.21
		02/95	Bobbin	ODI	28	0.52	2ND TSP	+0.33
		02/95	Bobbin	ODI	46	0.54	4TH TSP	+0.18
		02/95	Bobbin	ODI	98	0.33	6TH TSP	+0.05
13	65	02/95	Bobbin	ODI	13	0.66	4TH TSP	+0.14
		02/95	Bobbin	ODI	85	0.68	3RD TSP	+0.18
		02/95	Bobbin	ODI	99	0.35	2ND TSP	+0.05
13	66	02/95	Bobbin	ODI	73	0.48	4TH TSP	+0.05
		02/95	Bobbin	ODI	74	0.31	5TH TSP	+0.12
		02/95	Bobbin	ODI	74	0.48	3RD TSP	+0.14
		02/95	Bobbin	ODI	93	0.28	6TH TSP	+0.09
		02/95	Bobbin	ODI	94	0.56	2ND TSP	+0.14
13	68	02/95	Bobbin	ODI	1	0.27	4TH TSP	+0.11
		02/95	Bobbin	ODI	1	0.51	3RD TSP	+0.17
13	70	02/95	Bobbin	ODI	34	0.56	2ND TSP	+0.32
		02/95	Bobbin	ODI	79	0.56	4TH TSP	+0.11
13	71	02/95	Bobbin	ODI	69	0.37	4TH TSP	+0.09
		02/95	Bobbin	ODI	82	0.24	3RD TSP	+0.12
13	73	02/95	Bobbin	ODI	84	0.25	2ND TSP	+0.16
13	75	02/95	Bobbin	ODI	86	0.29	2ND TSP	+0.07

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

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02/95 RFO

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

13	76	02/95	Bobbin	ODI	15	0.58	2ND TSP	+0.33
13	78	02/95	Bobbin	ODI	95	0.34	2ND TSP	+0.19
13	81	02/95	Bobbin	ODI	76	0.43	5TH TSP	+0.05
13	83	02/95	Bobbin	ODI	98	0.32	2ND TSP	+0.09
13	84	02/95	Bobbin	ODI	28	1.13	3RD TSP	+39.98
		02/95	H/L Speci	VOL		0.35	4TH TSP	-4.57
13	88	02/95	Bobbin	ODI	28	0.88	3RD TSP	+0.31
		02/95	Bobbin	ODI	74	0.45	5TH TSP	+0.05
		02/95	Bobbin	ODI	79	0.49	6TH TSP	+0.07
		02/95	Bobbin	ODI	86	0.66	2ND TSP	+0.07
		02/95	Bobbin	ODI	90	0.51	4TH TSP	+0.09
13	91	02/95	Bobbin	ODI	89	0.37	2ND TSP	+0.19
13	92	02/95	Bobbin	ODI	13	0.36	6TH TSP	+0.07
		02/95	Bobbin	ODI	56	0.34	5TH TSP	+0.10
13	103	02/95	Bobbin	ODI	71	0.48	4TH TSP	-0.34
13	106	02/95	Bobbin	ODI	88	0.38	5TH TSP	-0.16
13	109	02/95	Bobbin	ODI	92	0.62	2ND TSP	+0.07
13	110	02/95	Bobbin	ODI	94	0.42	5TH TSP	+0.04
13	111	02/95	Bobbin	ODI	90	0.54	5TH TSP	+0.17
14	16	02/95	Bobbin	ODI	73	0.24	3RD TSP	+0.05
		02/95	Bobbin	ODI	95	0.21	4TH TSP	+0.07
14	20	02/95	Bobbin	ODI	97	0.41	4TH TSP	+0.07
14	21	02/95	Bobbin	ODI	66	0.41	4TH TSP	+0.07
		02/95	Bobbin	ODI	98	0.15	3RD TSP	+0.07
14	23	02/95	Bobbin	ODI	90	0.41	3RD TSP	+0.09
14	24	02/95	Bobbin	ODI	45	0.21	3RD TSP	+0.05
14	25	02/95	Bobbin	NQI		0.31	5TH TSP	+13.83
		02/95	Bobbin	NQI		0.44	5TH TSP	+19.54
		02/95	H/L Speci	VOL		0.16	5TH TSP	+19.45
		02/95	H/L Speci	VOL		0.29	5TH TSP	+13.52
14	31	02/95	Bobbin	ODI	45	0.13	3RD TSP	+0.12
14	32	02/95	Bobbin	NQI		0.36	13TH TSP	-0.05
14	34	02/95	Bobbin	ODI	45	0.26	4TH TSP	+0.07
		02/95	Bobbin	ODI	83	0.25	3RD TSP	+0.18
14	35	02/95	Bobbin	ODI	1	0.31	3RD TSP	+0.12
14	36	02/95	Bobbin	ODI	17	0.34	4TH TSP	+0.12
		02/95	Bobbin	ODI	47	0.24	2ND TSP	+0.02
		02/95	Bobbin	ODI	87	0.32	3RD TSP	+0.09
		02/95	Bobbin	ODI	29	0.40	13TH TSP	+0.02
14	38	02/95	Bobbin	ODI	37	0.45	2ND TSP	+0.09
		02/95	Bobbin	ODI	89	0.51	4TH TSP	+0.10
14	40	02/95	Bobbin	ODI	67	0.46	4TH TSP	+0.10
		02/95	Bobbin	ODI	76	0.44	3RD TSP	+0.09
		02/95	Bobbin	ODI	78	0.37	2ND TSP	+0.09
14	42	02/95	Bobbin	ODI	69	0.21	4TH TSP	+0.12
14	44	02/95	Bobbin	ODI	77	0.40	4TH TSP	+0.05
14	47	02/95	Bobbin	ODI	65	0.27	3RD TSP	+0.17
		02/95	Bobbin	ODI	81	0.33	4TH TSP	+0.12
14	48	02/95	Bobbin	ODI	80	0.51	4TH TSP	+0.00
		02/95	Bobbin	ODI	91	1.01	2ND TSP	+0.19
		02/95	H/L Speci	SAI		0.30	2ND TSP	+0.10
14	49	02/95	Bobbin	ODI	30	0.80	2ND TSP	+0.23
		02/95	Bobbin	ODI	58	0.45	4TH TSP	+0.12
		02/95	Bobbin	ODI	64	0.38	3RD TSP	+0.09
14	51	02/95	Bobbin	ODI	27	0.32	3RD TSP	+0.05
		02/95	Bobbin	ODI	40	0.57	4TH TSP	+0.05
		02/95	Bobbin	ODI	54	0.26	2ND TSP	+0.17
14	52	02/95	Bobbin	ODI	63	0.30	3RD TSP	+0.12
14	58	02/95	Bobbin	ODI	40	0.33	4TH TSP	+0.05
14	63	02/95	Bobbin	ODI	27	0.44	3RD TSP	+0.22
		02/95	Bobbin	ODI	73	0.86	2ND TSP	+0.26
14	66	02/95	H/L Speci	VOL		0.30	3RD TSP	+16.79
		02/95	H/L Speci	VOL		0.45	5TH TSP	+5.49
14	67	02/95	Bobbin	ODI	76	0.69	3RD TSP	+0.21
		02/95	Bobbin	ODI	77	0.57	2ND TSP	+0.15

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
14	68	02/95	Bobbin	ODI	6	0.64	5TH TSP	+12.61	
		02/95	H/L Speci	VOL		0.32	5TH TSP	+13.03	
14	70	02/95	Bobbin	ODI	71	0.58	2ND TSP	+0.16	
14	71	02/95	Bobbin	ODI	39	0.57	2ND TSP	+0.01	
		02/95	Bobbin	ODI	85	0.27	3RD TSP	+0.18	
14	72	02/95	Bobbin	ODI	89	0.35	4TH TSP	+0.07	
14	73	02/95	Bobbin	ODI	53	0.54	3RD TSP	+0.11	
		02/95	Bobbin	ODI	74	0.58	2ND TSP	+0.13	
		02/95	Bobbin	ODI	94	0.48	5TH TSP	+0.06	
14	74	02/95	Bobbin	ODI	57	0.35	4TH TSP	+0.00	
		02/95	H/L Tubes	SAI		0.50	TTS-HL	+0.08	
14	75	02/95	Bobbin	ODI	91	0.42	2ND TSP	+0.22	
14	80	02/95	Bobbin	ODI	78	0.47	2ND TSP	+0.16	
14	81	02/95	Bobbin	ODI	66	0.26	4TH TSP	-0.18	
		02/95	Bobbin	ODI	87	0.14	3RD TSP	+0.22	
		02/95	H/L Tubes	VOL		0.60	TTS-HL	-2.11	
14	89	02/95	H/L Tubes	VOL		0.56	TTS-HL	+2.69	
		02/95	H/L Tubes	VOL		0.60	TTS-HL	+0.57	
		02/95	H/L Tubes	VOL		0.62	TTS-HL	-1.65	
14	90	02/95	C/L Speci	VOL		0.54	11TH TSP	-6.84	
14	91	02/95	Bobbin	ODI	57	0.25	4TH TSP	-0.17	
		02/95	Bobbin	ODI	96	0.76	3RD TSP	+0.04	
14	92	02/95	Bobbin	ODI	44	1.17	2ND TSP	+0.06	
14	93	02/95	Bobbin	ODI	1	0.41	3RD TSP	+0.28	
		02/95	Bobbin	ODI	86	0.52	2ND TSP	+0.00	
		02/95	Bobbin	ODI	86	0.69	4TH TSP	-0.14	
14	95	02/95	Bobbin	ODI	20	0.41	4TH TSP	-0.31	
		02/95	Bobbin	ODI	87	0.36	2ND TSP	+0.13	
14	100	02/95	Bobbin	ODI	82	0.43	2ND TSP	-0.05	
14	103	02/95	Bobbin	ODI	57	1.03	2ND TSP	+0.10	
14	104	02/95	Bobbin	ODI	28	0.24	6TH TSP	-0.09	
14	106	02/95	Bobbin	ODI	66	0.27	4TH TSP	-0.08	
		02/95	Bobbin	ODI	86	0.80	2ND TSP	-0.15	
		02/95	Bobbin	ODI	94	0.34	6TH TSP	-0.17	
		02/95	H/L Speci	SAI		0.69	2ND TSP	-0.06	
14	108	02/95	Bobbin	ODI	58	0.59	4TH TSP	-0.20	
15	9	02/95	Bobbin	ODI	34	0.46	4TH TSP	+0.02	
		02/95	Bobbin	ODI	49	0.11	3RD TSP	+0.14	
		02/95	Bobbin	ODI	89	0.48	2ND TSP	+0.09	
15	10	02/95	Bobbin	ODI	79	0.60	3RD TSP	+0.05	
15	11	02/95	Bobbin	ODI	75	0.42	4TH TSP	+0.02	
		02/95	Bobbin	ODI	77	0.39	3RD TSP	+0.16	
15	18	02/95	Bobbin	ODI	4	0.42	4TH TSP	-0.05	
15	19	02/95	Bobbin	ODI	76	0.44	2ND TSP	+0.09	
15	24	02/95	Bobbin	ODI	50	0.35	4TH TSP	+0.05	
		02/95	Bobbin	ODI	63	0.57	2ND TSP	+0.07	
15	44	02/95	Bobbin	ODI	75	0.38	4TH TSP	+0.05	
15	45	02/95	Bobbin	ODI	12	0.67	18TH TSP	+9.78	
		02/95	C/L Speci	VOL		0.71	18TH TSP	+9.72	
15	56	02/95	Bobbin	ODI	38	0.54	3RD TSP	+0.07	
		02/95	Bobbin	ODI	41	0.83	2ND TSP	+0.14	
		02/95	Bobbin	ODI	76	0.33	4TH TSP	+0.19	
15	57	02/95	Bobbin	NQI		0.22	10TH TSP	+2.98	
		02/95	C/L Speci	VOL		0.68	10TH TSP	+2.82	
15	59	02/95	Bobbin	ODI	7	0.81	4TH TSP	+0.15	
		02/95	Bobbin	ODI	80	0.25	5TH TSP	+0.00	
		02/95	H/L Tubes	VOL		1.11	TTS-HL	+1.67	
15	68	02/95	Bobbin	ODI	89	0.30	4TH TSP	+0.07	
		02/95	Bobbin	ODI	99	0.85	2ND TSP	+0.24	
15	69	02/95	Bobbin	ODI	83	0.85	3RD TSP	+0.06	
		02/95	Bobbin	ODI	91	0.33	4TH TSP	+0.04	
		02/95	Bobbin	ODI	97	0.55	2ND TSP	+0.07	
		02/95	H/L Speci	SAI		0.61	3RD TSP	-0.06	
15	70	02/95	Bobbin	ODI	84	0.48	3RD TSP	+0.28	
15	71	02/95	Bobbin	ODI	95	0.50	2ND TSP	+0.07	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS
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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
15	73	02/95	Bobbin	ODI	10	0.96	3RD TSP	+27.41	
		02/95	Bobbin	ODI	51	0.39	4TH TSP	+0.09	
		02/95	Bobbin	ODI	94	0.34	3RD TSP	+0.06	
		02/95	H/L Speci	VOL		0.35	3RD TSP	+22.49	
		02/95	H/L Speci	VOL		0.37	3RD TSP	+26.89	
15	74	02/95	Bobbin	ODI	76	0.43	4TH TSP	-0.01	
		02/95	Bobbin	ODI	88	0.55	2ND TSP	+0.17	
		02/95	Bobbin	ODI	91	0.60	3RD TSP	+0.12	
15	77	02/95	Bobbin	ODI	68	0.35	4TH TSP	+0.06	
		02/95	Bobbin	ODI	81	0.27	3RD TSP	+0.14	
		02/95	Bobbin	ODI	97	0.51	2ND TSP	+0.10	
15	78	02/95	Bobbin	ODI	95	0.42	2ND TSP	+0.10	
15	81	02/95	Bobbin	ODI	46	0.41	2ND TSP	+0.03	
15	86	02/95	Bobbin	ODI	17	0.77	2ND TSP	+0.17	
		02/95	Bobbin	ODI	48	0.42	4TH TSP	-0.20	
15	95	02/95	Bobbin	ODI	30	0.62	4TH TSP	+0.00	
		02/95	Bobbin	ODI	63	0.30	5TH TSP	+0.00	
15	97	02/95	Bobbin	ODI	93	0.45	4TH TSP	+0.07	
15	99	02/95	Bobbin	ODI	97	0.41	5TH TSP	+0.06	
15	101	02/95	Bobbin	ODI	15	0.49	4TH TSP	-0.19	
15	106	02/95	Bobbin	ODI	77	0.47	5TH TSP	+0.06	
15	110	02/95	H/L Speci	VOL		0.74	4TH TSP	-13.58	
16	4	02/95	Bobbin	ODI	29	0.61	18TH TSP	+3.82	
		02/95	C/L Speci	VOL		0.33	18TH TSP	+3.59	
16	5	02/95	Bobbin	ODI	72	0.29	4TH TSP	+0.13	
16	9	02/95	Bobbin	ODI	81	0.28	6TH TSP	+0.02	
16	12	02/95	Bobbin	ODI	25	0.20	6TH TSP	+0.09	
		02/95	Bobbin	ODI	7	0.82	15TH TSP	+1.54	
		02/95	C/L Speci	VOL		1.75	15TH TSP	+1.85	
16	16	02/95	Bobbin	ODI	10	0.50	4TH TSP	+0.00	
		02/95	Bobbin	ODI	49	0.21	3RD TSP	+0.09	
16	17	02/95	Bobbin	ODI	71	0.22	6TH TSP	-0.02	
16	18	02/95	Bobbin	ODI	42	0.28	6TH TSP	+0.09	
16	27	02/95	Bobbin	ODI	89	0.26	4TH TSP	+0.02	
16	35	02/95	Bobbin	ODI	8	0.51	3RD TSP	+0.13	
		02/95	Bobbin	ODI	41	0.30	4TH TSP	+0.04	
16	36	02/95	Bobbin	ODI	35	0.42	4TH TSP	+0.09	
		02/95	Bobbin	ODI	69	0.38	2ND TSP	+0.09	
16	37	02/95	Bobbin	ODI	20	0.23	3RD TSP	+0.02	
		02/95	Bobbin	ODI	30	0.45	4TH TSP	+0.16	
		02/95	Bobbin	ODI	47	0.35	2ND TSP	+0.02	
16	38	02/95	Bobbin	ODI	26	0.28	2ND TSP	+0.07	
		02/95	Bobbin	ODI	36	0.27	4TH TSP	+0.11	
16	39	02/95	Bobbin	ODI	1	0.58	6TH TSP	+0.09	
16	40	02/95	Bobbin	ODI	39	0.27	4TH TSP	+0.11	
		02/95	Bobbin	ODI	45	0.45	3RD TSP	+0.09	
16	42	02/95	Bobbin	ODI	21	0.26	4TH TSP	+0.09	
16	44	02/95	Bobbin	ODI	22	0.42	4TH TSP	+0.13	
16	45	02/95	Bobbin	ODI	74	0.25	4TH TSP	+0.11	
16	46	02/95	Bobbin	ODI	68	0.61	4TH TSP	+0.13	
		02/95	Bobbin	ODI	79	0.22	2ND TSP	+0.13	
16	48	02/95	Bobbin	ODI	16	0.34	3RD TSP	+0.11	
16	49	02/95	Bobbin	ODI	60	0.51	4TH TSP	+0.23	
16	50	02/95	Bobbin	ODI	29	0.35	2ND TSP	+0.02	
		02/95	Bobbin	ODI	83	0.33	3RD TSP	+0.07	
16	56	02/95	Bobbin	ODI	6	1.18	TTS-HL	+3.83	
		02/95	Bobbin	ODI	1	0.30	3RD TSP	+0.09	
		02/95	Bobbin	ODI	1	0.35	6TH TSP	-0.07	
		02/95	H/L Speci	VOL		1.86	TTS-HL	+3.77	
		02/95	C/L Speci	VOL		0.33	21ST TSP	+5.10	
16	60	02/95	Bobbin	ODI	98	0.80	2ND TSP	-0.10	
		02/95	H/L Tubes	SAI		0.71	TTS-HL	-3.28	
16	62	02/95	Bobbin	ODI	86	0.45	3RD TSP	+0.06	
		02/95	Bobbin	ODI	89	0.38	7TH TSP	+0.10	
16	67	02/95	Bobbin	ODI	68	0.49	3RD TSP	+0.10	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	90	0.83	2ND TSP	+0.11
16	71	02/95	Bobbin	NQI		0.25	1ST TSP	+8.06
		02/95	Bobbin	ODI	17	0.75	1ST TSP	+12.02
		02/95	H/L Spec	VOL		0.87	1ST TSP	+11.30
16	86	02/95	Bobbin	ODI	86	0.84	4TH TSP	-0.04
16	88	02/95	Bobbin	ODI	57	0.53	6TH TSP	-0.01
16	90	02/95	Bobbin	ODI	45	0.22	4TH TSP	+0.00
16	94	02/95	Bobbin	ODI	2	0.87	3RD TSP	+0.30
		02/95	Bobbin	ODI	74	0.64	4TH TSP	+0.03
16	95	02/95	Bobbin	ODI	2	0.95	2ND TSP	+0.20
16	97	02/95	Bobbin	ODI	94	0.80	2ND TSP	-0.08
		02/95	H/L Spec	MAI		0.40	2ND TSP	-0.12
16	104	02/95	Bobbin	NQI		0.33	13TH TSP	+0.01
16	108	02/95	Bobbin	ODI	87	0.23	5TH TSP	+0.13
17	11	02/95	Bobbin	ODI	52	0.18	6TH TSP	+0.00
17	13	02/95	C/L Spec	VOL		0.62	10TH TSP	+8.88
		02/95	C/L Spec	VOL		0.66	10TH TSP	+12.89
17	14	02/95	Bobbin	ODI	76	0.82	4TH TSP	+0.00
17	17	02/95	Bobbin	ODI	4	0.20	3RD TSP	+0.17
17	23	02/95	C/L Spec	VOL		0.12	15TH TSP	+2.85
17	37	02/95	Bobbin	ODI	48	0.42	3RD TSP	+0.12
17	40	02/95	Bobbin	ODI	99	0.82	4TH TSP	+0.17
17	41	02/95	Bobbin	NQI		0.33	21ST TSP	+4.30
17	42	02/95	Bobbin	NQI		0.40	TTS-CL	+4.07
		02/95	C/L Spec	VOL		0.22	TTS-CL	+4.07
17	45	02/95	Bobbin	ODI	8	0.98	6TH TSP	+26.82
		02/95	Bobbin	ODI	82	0.37	4TH TSP	+0.17
		02/95	H/L Spec	VOL		0.93	7TH TSP	-17.09
17	48	02/95	Bobbin	ODI	36	0.21	5TH TSP	+0.02
		02/95	Bobbin	ODI	50	0.52	3RD TSP	+0.07
		02/95	Bobbin	ODI	97	0.34	4TH TSP	+0.02
		02/95	C/L Spec	VOL		0.38	14TH TSP	+4.50
17	49	02/95	Bobbin	ODI	58	0.54	3RD TSP	+0.10
		02/95	Bobbin	ODI	87	0.44	4TH TSP	+0.14
17	51	02/95	Bobbin	ODI	51	0.22	4TH TSP	+0.17
		02/95	Bobbin	ODI	76	0.21	5TH TSP	+0.07
		02/95	Bobbin	ODI	89	0.31	3RD TSP	+0.17
17	52	02/95	Bobbin	ODI	69	0.32	5TH TSP	+0.02
17	53	02/95	Bobbin	NQI		20.88	TE-HL	+10.74
		02/95	Bobbin	ODI	30	0.64	3RD TSP	+0.09
		02/95	Bobbin	ODI	75	0.46	6TH TSP	+0.24
		02/95	Bobbin	ODI	83	0.53	4TH TSP	+0.00
17	54	02/95	Bobbin	ODI	49	0.39	4TH TSP	-0.07
17	55	02/95	Bobbin	ODI	81	0.43	3RD TSP	+0.07
17	56	02/95	Bobbin	ODI	35	0.62	3RD TSP	+0.07
17	64	02/95	Bobbin	ODI	66	0.72	2ND TSP	+0.10
17	68	02/95	Bobbin	ODI	86	0.34	3RD TSP	+0.11
17	79	02/95	Bobbin	ODI	37	0.58	2ND TSP	+0.06
17	86	02/95	Bobbin	NQI		1.68	8TH TSP	+6.69
		02/95	Bobbin	ODI	19	0.56	2ND TSP	+0.20
		02/95	Bobbin	ODI	83	0.52	5TH TSP	+0.07
		02/95	Bobbin	ODI	98	0.44	4TH TSP	+0.09
17	88	02/95	H/L Spec	VOL		0.96	3RD TSP	+4.73
17	95	02/95	Bobbin	ODI	91	0.79	2ND TSP	+0.06
17	97	02/95	Bobbin	ODI	1	0.39	2ND TSP	+0.30
		02/95	Bobbin	ODI	66	0.69	6TH TSP	+0.00
		02/95	Bobbin	ODI	93	0.46	4TH TSP	-0.01
17	100	02/95	Bobbin	ODI	15	0.19	5TH TSP	+0.15
17	102	02/95	Bobbin	ODI	6	0.12	6TH TSP	+0.02
17	105	02/95	Bobbin	ODI	2	0.85	5TH TSP	+14.24
		02/95	H/L Spec	VOL		1.35	5TH TSP	+14.55
17	111	02/95	Bobbin	ODI	18	0.29	2ND TSP	+0.13
18	6	02/95	Bobbin	ODI	24	0.47	6TH TSP	-0.15
18	9	02/95	Bobbin	ODI	17	1.73	6TH TSP	+20.49
		02/95	Bobbin	ODI	17	2.79	6TH TSP	+23.96

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Spec	VOL		0.88	6TH TSP	+20.57
		02/95	H/L Spec	VOL		1.80	6TH TSP	+23.79
18	17	02/95	Bobbin	NQI		0.31	6TH TSP	+37.22
		02/95	H/L Spec	VOL		0.37	7TH TSP	-7.32
18	23	02/95	Bobbin	ODI	1	0.28	7TH TSP	+0.02
		02/95	Bobbin	ODI	1	0.92	2ND TSP	+0.15
18	26	02/95	Bobbin	ODI	22	0.33	4TH TSP	+0.15
18	47	02/95	Bobbin	ODI	53	0.51	4TH TSP	+0.15
18	49	02/95	Bobbin	ODI	2	0.67	3RD TSP	+0.27
18	53	02/95	Bobbin	ODI	42	0.43	4TH TSP	+0.12
18	54	02/95	Bobbin	ODI	75	0.44	4TH TSP	+0.02
18	55	02/95	Bobbin	ODI	5	0.34	4TH TSP	+0.15
18	56	02/95	Bobbin	ODI	32	0.22	6TH TSP	+0.07
18	57	02/95	Bobbin	ODI	71	0.40	4TH TSP	+0.07
18	58	02/95	H/L Tubes	MAI		1.13	TTS-HL	-3.54
18	59	02/95	Bobbin	NQI		0.89	3RD TSP	+22.67
		02/95	Bobbin	NQI		1.17	4TH TSP	+17.37
		02/95	Bobbin	NQI		1.22	4TH TSP	+25.18
		02/95	H/L Spec	VOL		1.49	3RD TSP	+22.49
		02/95	H/L Spec	VOL		3.28	4TH TSP	+25.81
18	61	02/95	Bobbin	NQI		0.51	3RD TSP	+27.71
		02/95	H/L Spec	VOL		1.56	4TH TSP	-16.61
18	62	02/95	Bobbin	ODI	85	0.38	4TH TSP	-0.02
		02/95	Bobbin	ODI	99	0.52	6TH TSP	+0.00
18	64	02/95	Bobbin	NQI		1.57	1ST TSP	+15.47
		02/95	Bobbin	ODI	6	1.25	2ND TSP	+8.03
		02/95	Bobbin	ODI	19	1.52	1ST TSP	+19.17
		02/95	Bobbin	ODI	22	1.00	1ST TSP	+8.87
		02/95	Bobbin	ODI	23	0.82	1ST TSP	+12.17
		02/95	Bobbin	ODI	78	0.61	4TH TSP	+0.00
		02/95	Bobbin	ODI	98	0.52	3RD TSP	+0.05
		02/95	H/L Spec	VOL		2.60	2ND TSP	+9.19
		02/95	H/L Spec	VOL		3.13	2ND TSP	-5.76
		02/95	H/L Spec	VOL		3.15	2ND TSP	-12.10
		02/95	H/L Spec	VOL		3.39	2ND TSP	-8.92
		02/95	H/L Spec	VOL		3.51	2ND TSP	-8.00
		02/95	H/L Spec	VOL		4.05	2ND TSP	-2.33
18	66	02/95	Bobbin	ODI	39	0.29	4TH TSP	+0.00
		02/95	Bobbin	ODI	63	0.41	3RD TSP	+0.16
18	70	02/95	Bobbin	NQI		14.90	TE-HL	+12.55
		02/95	Bobbin	ODI	28	0.24	3RD TSP	+0.18
18	74	02/95	Bobbin	ODI	43	0.13	3RD TSP	+0.04
18	80	02/95	Bobbin	NQI		0.42	5TH TSP	+3.97
		02/95	Bobbin	ODI	16	0.76	5TH TSP	+7.55
		02/95	H/L Spec	VOL		0.15	5TH TSP	+3.95
		02/95	H/L Spec	VOL		0.24	5TH TSP	+7.90
		02/95	H/L Spec	VOL		0.27	5TH TSP	+7.74
18	81	02/95	Bobbin	NQI		13.69	TE-HL	+16.42
		02/95	Bobbin	ODI	25	0.14	5TH TSP	+0.12
18	83	02/95	Bobbin	NQI		0.46	6TH TSP	+3.35
		02/95	H/L Spec	VOL		0.12	6TH TSP	+3.50
18	84	02/95	Bobbin	NQI		0.88	3RD TSP	+18.60
		02/95	H/L Spec	VOL		0.67	3RD TSP	+18.44
18	85	02/95	Bobbin	NQI		0.62	4TH TSP	+39.77
		02/95	H/L Spec	VOL		0.64	4TH TSP	+40.45
		02/95	H/L Spec	VOL		0.86	5TH TSP	-3.08
18	98	02/95	Bobbin	ODI	79	0.19	3RD TSP	+0.09
18	99	02/95	Bobbin	ODI	10	0.65	10TH TSP	+21.88
		02/95	C/L Spec	VOL		0.43	10TH TSP	+22.11
18	100	02/95	Bobbin	NQI		0.32	5TH TSP	+21.33
		02/95	Bobbin	ODI	93	0.23	5TH TSP	+0.11
		02/95	H/L Spec	VOL		1.49	5TH TSP	+21.33
18	101	02/95	Bobbin	ODI	39	0.68	2ND TSP	+5.92
		02/95	H/L Spec	VOL		0.90	2ND TSP	+5.95
18	102	02/95	Bobbin	ODI	88	1.02	2ND TSP	+0.00

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	MAI		0.79	2ND TSP	+0.02
18	103	02/95	Bobbin	ODI	20	0.27	5TH TSP	+0.25
		02/95	Bobbin	ODI	83	0.42	4TH TSP	+0.05
18	104	02/95	Bobbin	ODI	83	0.54	2ND TSP	-0.02
18	105	02/95	Bobbin	ODI	81	0.24	4TH TSP	+0.02
18	109	02/95	Bobbin	ODI	12	0.27	4TH TSP	-0.18
		02/95	Bobbin	ODI	45	0.11	5TH TSP	-0.09
18	110	02/95	Bobbin	ODI	96	0.52	2ND TSP	+0.04
18	111	02/95	Bobbin	ODI	12	0.27	2ND TSP	+0.11
19	16	02/95	Bobbin	ODI	28	0.37	3RD TSP	+0.24
19	20	02/95	Bobbin	ODI	98	0.35	3RD TSP	+0.10
19	21	02/95	Bobbin	ODI	31	0.24	6TH TSP	+0.07
19	22	02/95	Bobbin	ODI	70	0.37	3RD TSP	+0.02
		02/95	Bobbin	ODI	90	0.52	2ND TSP	-0.02
19	26	02/95	Bobbin	ODI	24	0.81	2ND TSP	+0.22
		02/95	H/L Speci	SAI		0.31	2ND TSP	+0.21
19	35	02/95	Bobbin	ODI	96	0.32	2ND TSP	+0.14
		02/95	C/L Speci	VOL		1.26	12TH TSP	+12.39
		02/95	C/L Speci	VOL		1.38	12TH TSP	+15.49
19	36	02/95	C/L Speci	VOL		0.26	11TH TSP	+3.38
		02/95	C/L Speci	VOL		0.30	11TH TSP	-14.53
		02/95	C/L Speci	VOL		0.37	11TH TSP	-3.63
		02/95	C/L Speci	VOL		0.43	11TH TSP	-6.25
		02/95	C/L Speci	VOL		0.65	11TH TSP	-12.05
19	37	02/95	C/L Speci	VOL		0.41	11TH TSP	+12.84
19	40	02/95	Bobbin	ODI	60	0.39	2ND TSP	+0.17
19	42	02/95	Bobbin	ODI	85	0.29	4TH TSP	+0.10
19	43	02/95	Bobbin	ODI	48	0.50	4TH TSP	+0.07
19	46	02/95	Bobbin	ODI	58	0.39	4TH TSP	+0.15
19	47	02/95	H/L Speci	VOL		1.26	7TH TSP	-1.71
19	51	02/95	Bobbin	ODI	7	0.44	6TH TSP	+0.12
19	52	02/95	C/L Speci	VOL		0.31	22ND TSP	+1.46
		02/95	C/L Speci	VOL		0.32	22ND TSP	+13.49
19	58	02/95	Bobbin	ODI	19	0.43	2ND TSP	+16.42
		02/95	H/L Speci	VOL		0.78	2ND TSP	+16.42
19	59	02/95	Bobbin	ODI	44	0.15	4TH TSP	+0.12
19	64	02/95	Bobbin	NQI		9.87	TE-HL	+10.25
19	66	02/95	Bobbin	NQI		0.79	7TH TSP	+16.06
		02/95	H/L Speci	VOL		0.90	7TH TSP	+15.69
19	70	02/95	Bobbin	ODI	18	0.15	7TH TSP	+0.09
		02/95	Bobbin	ODI	22	0.41	2ND TSP	+18.44
		02/95	H/L Speci	VOL		0.24	2ND TSP	+18.61
19	72	02/95	H/L Tubes	SAI		0.56	TTS-HL	-0.06
19	75	02/95	Bobbin	ODI	1	0.32	3RD TSP	+0.19
19	76	02/95	Bobbin	NQI		11.68	TE-HL	+15.34
		02/95	Bobbin	ODI	14	0.31	5TH TSP	+27.39
		02/95	H/L Speci	SAI		3.06	TTS-HL	-5.82
		02/95	H/L Speci	VOL		0.43	6TH TSP	-16.50
		02/95	H/L Speci	VOL		0.66	7TH TSP	+11.41
19	77	02/95	Bobbin	NQI		0.42	12TH TSP	+20.72
		02/95	Bobbin	ODI	39	0.28	4TH TSP	+0.09
		02/95	Bobbin	ODI	45	0.11	5TH TSP	+0.12
		02/95	C/L Speci	VOL		0.44	12TH TSP	+20.21
19	81	02/95	Bobbin	ODI	99	0.30	5TH TSP	+0.05
		02/95	H/L Speci	VOL		0.21	3RD TSP	-0.19
		02/95	H/L Speci	VOL		0.26	3RD TSP	+24.27
19	82	02/95	Bobbin	ODI	1	0.13	5TH TSP	-0.05
		02/95	H/L Speci	VOL		0.93	1ST TSP	+9.34
19	91	02/95	Bobbin	ODI	1	0.55	3RD TSP	+0.16
19	95	02/95	Bobbin	ODI	28	0.20	5TH TSP	+0.09
19	96	02/95	Bobbin	ODI	98	0.27	4TH TSP	+0.07
		02/95	H/L Speci	VOL		0.49	3RD TSP	+2.90
		02/95	H/L Speci	VOL		0.92	3RD TSP	+5.05
19	97	02/95	Bobbin	ODI	6	0.19	5TH TSP	+0.09
		02/95	Bobbin	ODI	61	0.09	6TH TSP	+0.10

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
19	98	02/95	Bobbin	ODI	82	0.10	5TH TSP	+0.09
20	11	02/95	C/L Spec	VOL		0.35	14TH TSP	+5.82
20	30	02/95	Bobbin	NQI		5.50	TE-HL	+11.28
20	35	02/95	Bobbin	ODI	12	0.41	3RD TSP	+0.24
20	37	02/95	Bobbin	ODI	12	0.47	6TH TSP	+0.02
		02/95	C/L Spec	VOL		0.09	21ST TSP	+4.66
		02/95	C/L Spec	VOL		0.20	20TH TSP	+2.42
20	40	02/95	Bobbin	ODI	17	0.19	4TH TSP	+0.00
		02/95	C/L Spec	VOL		0.57	19TH TSP	+1.50
		02/95	C/L Spec	VOL		0.87	19TH TSP	+3.13
20	41	02/95	Bobbin	ODI	50	0.17	4TH TSP	-0.19
20	45	02/95	Bobbin	ODI	1	0.41	3RD TSP	+0.14
		02/95	Bobbin	ODI	49	0.16	4TH TSP	-0.12
20	46	02/95	Bobbin	ODI	7	0.15	6TH TSP	+0.07
		02/95	Bobbin	ODI	32	0.22	4TH TSP	-0.07
		02/95	C/L Spec	VOL		0.30	14TH TSP	+2.98
20	48	02/95	Bobbin	ODI	13	0.23	5TH TSP	-0.07
20	50	02/95	Bobbin	ODI	2	0.23	3RD TSP	+0.00
20	52	02/95	Bobbin	ODI	1	0.36	6TH TSP	+0.02
20	61	02/95	Bobbin	ODI	11	0.36	4TH TSP	+0.07
20	70	02/95	Bobbin	ODI	29	1.13	15TH TSP	+2.55
		02/95	C/L Spec	VOL		0.80	15TH TSP	+2.57
20	72	02/95	Bobbin	ODI	37	0.33	4TH TSP	-0.02
21	5	02/95	Bobbin	ODI	31	0.77	2ND TSP	+0.21
		02/95	H/L Spec	SAI		0.27	2ND TSP	+0.15
21	10	02/95	Bobbin	ODI	18	0.27	6TH TSP	-0.22
21	12	02/95	C/L Spec	VOL		0.56	18TH TSP	+13.84
21	17	02/95	Bobbin	ODI	26	0.17	3RD TSP	-0.17
21	19	02/95	Bobbin	ODI	17	0.99	18TH TSP	+13.35
		02/95	C/L Spec	VOL		0.43	18TH TSP	+13.24
21	21	02/95	Bobbin	NQI		0.35	13TH TSP	+0.10
21	23	02/95	Bobbin	ODI	76	0.43	2ND TSP	+0.00
		02/95	Bobbin	ODI	93	0.26	3RD TSP	+0.00
21	26	02/95	Bobbin	ODI	30	0.21	4TH TSP	+0.00
21	27	02/95	Bobbin	ODI	69	0.29	4TH TSP	-0.19
21	29	02/95	Bobbin	ODI	24	0.46	3RD TSP	-0.05
21	30	02/95	Bobbin	ODI	1	0.43	3RD TSP	-0.12
21	34	02/95	Bobbin	NQI		11.23	TE-HL	+14.93
21	35	02/95	Bobbin	ODI	67	0.72	TTS-HL	+0.59
21	42	02/95	Bobbin	ODI	60	0.31	6TH TSP	+0.00
21	43	02/95	Bobbin	ODI	21	0.18	4TH TSP	-0.19
21	46	02/95	Bobbin	ODI	63	0.23	4TH TSP	-0.19
21	48	02/95	Bobbin	ODI	1	0.19	5TH TSP	-0.14
		02/95	Bobbin	ODI	82	0.26	7TH TSP	+0.10
21	52	02/95	Bobbin	ODI	1	0.20	3RD TSP	+0.12
21	56	02/95	Bobbin	ODI	1	0.35	3RD TSP	+0.22
21	57	02/95	Bobbin	ODI	4	0.18	4TH TSP	-0.26
		02/95	Bobbin	ODI	18	0.15	3RD TSP	+0.05
21	64	02/95	Bobbin	ODI	54	0.31	5TH TSP	+0.19
21	73	02/95	Bobbin	ODI	1	0.24	5TH TSP	-0.07
		02/95	H/L Tubes	SAI		0.71	TTS-HL	-0.10
21	74	02/95	Bobbin	ODI	16	0.79	4TH TSP	+8.27
		02/95	Bobbin	ODI	75	0.38	4TH TSP	-0.05
		02/95	H/L Spec	VOL		0.42	4TH TSP	+8.90
21	101	02/95	Bobbin	ODI	1	0.45	3RD TSP	+0.26
21	107	02/95	Bobbin	ODI	19	1.26	4TH TSP	+17.71
		02/95	H/L Spec	VOL		0.65	4TH TSP	+17.32
22	7	02/95	Bobbin	NQI		3.09	TE-CL	+15.18
22	8	02/95	Bobbin	ODI	14	0.80	12TH TSP	+22.16
		02/95	Bobbin	ODI	29	1.44	10TH TSP	+11.64
		02/95	C/L Spec	VOL		0.55	12TH TSP	+21.75
		02/95	C/L Spec	VOL		1.16	10TH TSP	+11.44
22	14	02/95	Bobbin	NQI		0.18	5TH TSP	+40.84
		02/95	Bobbin	ODI	7	0.28	6TH TSP	+4.55
		02/95	Bobbin	ODI	17	0.33	5TH TSP	+32.82

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		0.95	6TH TSP	+4.55
		02/95	H/L Speci	VOL		1.08	6TH TSP	-11.14
22	17	02/95	Bobbin	ODI	55	0.28	4TH TSP	-0.05
		02/95	Bobbin	ODI	96	0.59	2ND TSP	+0.00
22	20	02/95	Bobbin	ODI	3	0.35	6TH TSP	-0.02
22	23	02/95	Bobbin	ODI	55	0.25	3RD TSP	+0.16
22	33	02/95	Bobbin	ODI	1	0.18	2ND TSP	+0.00
		02/95	Bobbin	ODI	56	0.25	4TH TSP	-0.13
		02/95	Bobbin	ODI	83	0.32	3RD TSP	+0.04
22	34	02/95	Bobbin	ODI	36	0.20	8TH TSP	-0.09
		02/95	Bobbin	ODI	62	0.21	3RD TSP	+0.15
22	36	02/95	Bobbin	NQI		14.11	8TH TSP	+2.17
		02/95	Bobbin	ODI	71	0.67	4TH TSP	+0.08
22	37	02/95	Bobbin	NQI		15.85	8TH TSP	+2.41
22	38	02/95	Bobbin	ODI	93	0.28	6TH TSP	+0.04
22	40	02/95	Bobbin	ODI	36	0.66	4TH TSP	+0.19
		02/95	Bobbin	ODI	99	0.19	5TH TSP	+0.12
22	41	02/95	Bobbin	ODI	21	0.15	3RD TSP	+0.11
		02/95	Bobbin	ODI	83	0.22	4TH TSP	+0.00
22	42	02/95	Bobbin	ODI	1	0.62	4TH TSP	+0.16
		02/95	Bobbin	ODI	88	0.26	3RD TSP	+0.09
22	43	02/95	Bobbin	ODI	60	0.28	5TH TSP	+0.07
		02/95	Bobbin	ODI	64	0.30	4TH TSP	-0.05
22	44	02/95	Bobbin	ODI	1	0.32	4TH TSP	+0.16
22	45	02/95	Bobbin	ODI	63	0.27	2ND TSP	+0.00
		02/95	Bobbin	ODI	92	0.17	4TH TSP	+0.14
22	46	02/95	Bobbin	ODI	22	0.28	3RD TSP	+0.02
		02/95	Bobbin	ODI	58	0.19	6TH TSP	+0.05
		02/95	Bobbin	ODI	96	0.38	4TH TSP	+0.10
22	47	02/95	Bobbin	ODI	1	0.47	6TH TSP	+0.00
		02/95	Bobbin	ODI	5	0.23	4TH TSP	+0.14
		02/95	Bobbin	ODI	83	0.08	3RD TSP	+0.16
		02/95	Bobbin	ODI	97	0.29	7TH TSP	+0.07
22	48	02/95	Bobbin	ODI	1	0.44	2ND TSP	+0.14
		02/95	Bobbin	ODI	57	0.28	3RD TSP	+0.07
		02/95	Bobbin	ODI	78	0.33	4TH TSP	+0.05
22	50	02/95	Bobbin	ODI	12	0.64	3RD TSP	+0.05
		02/95	Bobbin	ODI	85	0.24	4TH TSP	+0.10
22	51	02/95	Bobbin	ODI	1	0.35	3RD TSP	-0.09
		02/95	Bobbin	ODI	1	0.88	2ND TSP	+0.19
		02/95	Bobbin	ODI	59	0.22	5TH TSP	+0.14
		02/95	Bobbin	ODI	59	0.26	7TH TSP	+0.05
22	54	02/95	Bobbin	ODI	1	0.21	2ND TSP	-0.07
		02/95	Bobbin	ODI	16	0.34	3RD TSP	-0.02
		02/95	Bobbin	ODI	35	0.18	7TH TSP	+0.14
		02/95	Bobbin	ODI	37	0.28	6TH TSP	+0.10
		02/95	Bobbin	ODI	67	0.24	4TH TSP	+0.02
22	55	02/95	Bobbin	ODI	12	0.28	3RD TSP	+0.02
		02/95	Bobbin	ODI	24	0.34	4TH TSP	+0.12
		02/95	Bobbin	ODI	50	0.36	2ND TSP	+0.02
22	56	02/95	Bobbin	ODI	1	0.12	2ND TSP	+0.10
		02/95	Bobbin	ODI	62	0.54	3RD TSP	+0.10
		02/95	Bobbin	ODI	69	0.31	4TH TSP	+0.12
22	67	02/95	Bobbin	ODI	70	0.22	7TH TSP	+0.05
22	71	02/95	H/L Speci	VOL		0.56	4TH TSP	-11.39
22	74	02/95	Bobbin	NQI		41.87	TE-HL	+4.72
22	77	02/95	Bobbin	NQI		13.00	TE-HL	+12.52
22	84	02/95	C/L Speci	VOL		1.65	22ND TSP	+9.43
22	86	02/95	Bobbin	ODI	12	0.54	2ND TSP	+0.21
		02/95	H/L Speci	VOL		0.44	4TH TSP	+21.76
22	88	02/95	Bobbin	ODI	12	0.81	11TH TSP	+28.04
		02/95	C/L Speci	VOL		0.31	10TH TSP	-16.27
22	89	02/95	Bobbin	ODI	55	0.83	3RD TSP	+0.05
		02/95	Bobbin	ODI	99	1.04	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.36	2ND TSP	+0.00

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

22	96	02/95	Bobbin	ODI	92	0.43	2ND TSP	+0.00
22	102	02/95	Bobbin	NQI		0.40	11TH TSP	+2.91
		02/95	C/L Spec	VOL		0.49	11TH TSP	+2.96
22	108	02/95	Bobbin	ODI	3	0.95	1ST TSP	+15.29
		02/95	H/L Spec	VOL		0.92	2ND TSP	-5.06
23	6	02/95	Bobbin	ODI	1	0.27	6TH TSP	+0.07
23	9	02/95	Bobbin	ODI	37	0.28	6TH TSP	-0.02
23	17	02/95	Bobbin	ODI	1	0.27	6TH TSP	+0.02
23	41	02/95	Bobbin	NQI		0.28	3RD TSP	+37.20
		02/95	H/L Spec	VOL		0.22	4TH TSP	-6.34
23	47	02/95	H/L Spec	VOL		0.65	3RD TSP	+2.91
23	49	02/95	Bobbin	ODI	1	0.33	3RD TSP	+0.18
		02/95	Bobbin	ODI	51	0.20	7TH TSP	+0.10
23	52	02/95	Bobbin	ODI	1	0.14	3RD TSP	+0.14
23	53	02/95	Bobbin	ODI	91	0.31	4TH TSP	+0.07
23	54	02/95	Bobbin	ODI	28	0.20	17TH TSP	+5.03
23	57	02/95	Bobbin	ODI	69	0.33	4TH TSP	+0.12
		02/95	Bobbin	ODI	98	0.21	3RD TSP	+0.14
23	60	02/95	Bobbin	ODI	1	0.58	4TH TSP	+0.02
23	66	02/95	Bobbin	ODI	16	0.78	4TH TSP	+34.18
		02/95	Bobbin	ODI	25	0.83	7TH TSP	+33.05
		02/95	H/L Spec	VOL		0.59	5TH TSP	-9.70
		02/95	H/L Spec	VOL		0.79	8TH TSP	-11.11
23	67	02/95	Bobbin	ODI	58	0.34	6TH TSP	+0.05
23	72	02/95	Bobbin	ODI	68	1.02	4TH TSP	-0.21
23	84	02/95	Bobbin	ODI	1	2.22	7TH TSP	+5.29
		02/95	H/L Spec	VOL		1.60	7TH TSP	+5.48
23	85	02/95	Bobbin	ODI	68	0.14	3RD TSP	+0.14
23	92	02/95	Bobbin	ODI	99	0.31	4TH TSP	-0.17
23	94	02/95	Bobbin	ODI	59	0.40	2ND TSP	+0.05
23	95	02/95	Bobbin	NQI		0.66	10TH TSP	+3.01
		02/95	Bobbin	ODI	1	0.35	3RD TSP	+0.05
		02/95	C/L Spec	VOL		0.73	10TH TSP	+3.27
23	96	02/95	Bobbin	ODI	99	0.34	2ND TSP	+0.07
23	101	02/95	Bobbin	ODI	44	0.43	5TH TSP	-0.19
		02/95	Bobbin	ODI	94	0.61	2ND TSP	-0.02
23	103	02/95	Bobbin	ODI	93	0.51	4TH TSP	-0.12
23	104	02/95	Bobbin	ODI	1	0.87	3RD TSP	+0.24
23	107	02/95	Bobbin	ODI	32	0.21	6TH TSP	+0.00
23	109	02/95	Bobbin	ODI	1	0.28	2ND TSP	+0.17
		02/95	Bobbin	ODI	10	0.23	3RD TSP	+0.19
		02/95	Bobbin	ODI	15	0.57	4TH TSP	-0.02
		02/95	Bobbin	ODI	71	0.40	5TH TSP	+0.26
24	16	02/95	Bobbin	ODI	12	0.27	6TH TSP	-0.02
24	17	02/95	Bobbin	ODI	46	0.53	4TH TSP	+0.02
24	20	02/95	Bobbin	ODI	28	0.17	4TH TSP	+0.05
		02/95	C/L Spec	VOL		0.46	9TH TSP	-9.43
24	22	02/95	Bobbin	ODI	1	0.14	3RD TSP	+0.22
		02/95	Bobbin	ODI	1	0.46	6TH TSP	+0.02
		02/95	Bobbin	ODI	27	0.39	4TH TSP	+0.09
24	25	02/95	Bobbin	ODI	88	0.11	3RD TSP	+0.00
24	35	02/95	Bobbin	ODI	23	3.01	4AVE	+11.30
24	39	02/95	Bobbin	ODI	38	0.78	2ND TSP	+1.56
		02/95	H/L Spec	VOL		0.64	2ND TSP	+1.51
24	43	02/95	Bobbin	NQI		0.62	6TH TSP	+27.94
		02/95	H/L Spec	VOL		0.79	6TH TSP	+27.86
24	58	02/95	Bobbin	NQI		0.33	6TH TSP	+0.14
24	66	02/95	Bobbin	NQI		0.49	18TH TSP	+1.47
		02/95	C/L Spec	VOL		0.45	18TH TSP	+1.41
24	69	02/95	Bobbin	ODI	21	0.24	4TH TSP	-0.05
		02/95	Bobbin	ODI	46	0.19	6TH TSP	+0.00
24	70	02/95	Bobbin	ODI	94	0.53	2ND TSP	-0.06
24	75	02/95	Bobbin	ODI	88	0.34	2ND TSP	-0.05
24	80	02/95	Bobbin	ODI	79	0.58	2ND TSP	-0.11
24	81	02/95	Bobbin	ODI	99	0.46	4TH TSP	+0.02

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

24	82	02/95	Bobbin	ODI	4	1.05	4TH TSP	+7.53
		02/95	H/L Spec	VOL		0.74	4TH TSP	+7.60
24	86	02/95	H/L Spec	VOL		0.60	6TH TSP	+19.38
24	91	02/95	Bobbin	ODI	93	0.62	2ND TSP	+0.05
24	92	02/95	Bobbin	NQI		0.35	7TH TSP	+10.68
		02/95	Bobbin	ODI	80	0.12	7TH TSP	+0.05
		02/95	H/L Spec	VOL		0.14	7TH TSP	+10.68
24	98	02/95	C/L Spec	VOL		0.95	11TH TSP	+13.60
24	99	02/95	Bobbin	ODI	77	0.29	2ND TSP	+0.14
24	100	02/95	Bobbin	ODI	1	0.39	5TH TSP	-0.16
		02/95	H/L Spec	VOL		0.42	5TH TSP	-8.72
		02/95	H/L Spec	VOL		0.74	5TH TSP	-5.78
		02/95	H/L Spec	VOL		1.00	5TH TSP	-1.90
24	106	02/95	Bobbin	ODI	3	1.01	7TH TSP	+32.94
		02/95	Bobbin	ODI	56	1.06	2ND TSP	+0.20
		02/95	H/L Spec	VOL		1.02	8TH TSP	-10.12
25	9	02/95	Bobbin	ODI	14	0.18	7TH TSP	+0.19
25	10	02/95	Bobbin	NQI		1.32	TE-CL	+6.54
		02/95	Bobbin	NQI		3.44	TE-CL	+7.49
25	12	02/95	Bobbin	NQI		0.43	16TH TSP	+2.65
		02/95	Bobbin	ODI	4	0.26	7TH TSP	+0.12
		02/95	C/L Spec	VOL		0.60	16TH TSP	+2.99
25	13	02/95	Bobbin	ODI	85	0.20	6TH TSP	+0.07
25	16	02/95	Bobbin	ODI	12	0.22	6TH TSP	+0.09
25	17	02/95	H/L Spec	VOL		0.66	7TH TSP	-0.13
25	20	02/95	Bobbin	NQI		0.45	14TH TSP	+2.49
		02/95	C/L Spec	VOL		0.38	14TH TSP	+2.80
25	22	02/95	Bobbin	NQI		0.31	5TH TSP	+32.75
25	40	02/95	Bobbin	ODI	73	0.28	2ND TSP	+0.09
25	41	02/95	Bobbin	ODI	7	0.30	4TH TSP	+0.11
25	49	02/95	Bobbin	ODI	59	0.21	7TH TSP	+0.12
25	50	02/95	Bobbin	ODI	22	0.28	7TH TSP	+0.12
		02/95	Bobbin	ODI	73	0.30	3RD TSP	+0.00
25	52	02/95	Bobbin	ODI	7	0.41	6TH TSP	+0.12
25	56	02/95	Bobbin	ODI	63	0.18	8TH TSP	+0.12
		02/95	Bobbin	ODI	11	1.19	13TH TSP	+19.25
		02/95	C/L Spec	VOL		0.76	12TH TSP	-2.69
25	60	02/95	Bobbin	ODI	1	0.26	6TH TSP	+0.14
25	72	02/95	Bobbin	ODI	18	0.98	3RD TSP	+26.37
		02/95	H/L Spec	VOL		0.56	4TH TSP	-18.29
25	94	02/95	Bobbin	NQI		0.13	6TH TSP	+0.07
25	97	02/95	Bobbin	NQI		1.05	4AVB	+7.73
		02/95	U-Bend	VOL		5.20	4AVB	+8.35
25	100	02/95	Bobbin	ODI	43	0.29	2ND TSP	+0.02
25	104	02/95	Bobbin	NQI		4.35	TE-HL	+9.42
25	106	02/95	Bobbin	ODI	68	1.04	2ND TSP	+0.02
25	108	02/95	Bobbin	ODI	85	0.47	2ND TSP	+0.14
26	8	02/95	Bobbin	ODI	51	0.13	6TH TSP	+0.12
26	9	02/95	Bobbin	ODI	1	0.41	7TH TSP	-0.12
26	10	02/95	Bobbin	ODI	60	0.15	6TH TSP	+0.09
26	17	02/95	Bobbin	ODI	4	0.37	6TH TSP	+0.02
26	18	02/95	Bobbin	ODI	12	0.26	6TH TSP	+0.10
26	19	02/95	Bobbin	ODI	27	0.78	3RD TSP	+0.20
26	22	02/95	Bobbin	ODI	1	0.24	6TH TSP	+0.09
26	25	02/95	Bobbin	ODI	25	0.25	6TH TSP	+0.05
26	37	02/95	Bobbin	ODI	87	0.53	2ND TSP	-0.07
26	39	02/95	C/L Spec	VOL		0.21	12TH TSP	+9.96
		02/95	C/L Spec	VOL		0.25	12TH TSP	+17.35
		02/95	C/L Spec	VOL		0.25	12TH TSP	+20.95
		02/95	C/L Spec	VOL		0.38	12TH TSP	+22.57
26	44	02/95	Bobbin	ODI	2	0.87	7TH TSP	+14.00
		02/95	H/L Spec	VOL		0.60	7TH TSP	+14.04
26	48	02/95	Bobbin	ODI	69	0.19	7TH TSP	+0.02
26	49	02/95	Bobbin	ODI	85	0.23	6TH TSP	+0.07
26	53	02/95	Bobbin	NQI		0.89	15TH TSP	+9.31

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Catawba Nuclear Station - Unit One

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02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	Bobbin	ODI	8	0.56	12TH TSP	+15.37
		02/95	C/L Speci	VOL		0.39	12TH TSP	+15.31
		02/95	C/L Speci	VOL		0.65	14TH TSP	-2.01
26	54	02/95	Bobbin	NQI		0.36	16TH TSP	+7.72
		02/95	Bobbin	ODI	9	0.41	4TH TSP	+0.07
		02/95	Bobbin	ODI	12	0.24	6TH TSP	+0.27
		02/95	C/L Speci	VOL		0.27	16TH TSP	+8.45
26	64	02/95	Bobbin	ODI	1	0.53	4TH TSP	+0.21
		02/95	Bobbin	ODI	1	0.84	2ND TSP	+0.30
		03/95	Bobbin	ODI	8	0.40	3RD TSP	+0.14
26	67	02/95	Bobbin	ODI	5	0.55	6TH TSP	+0.12
26	68	02/95	Bobbin	ODI	20	0.48	4TH TSP	+0.07
26	71	02/95	Bobbin	NQI		0.22	4TH TSP	+14.00
		02/95	Bobbin	ODI	18	0.16	6TH TSP	+0.05
		02/95	H/L Speci	VOL		0.20	4TH TSP	+6.25
		02/95	H/L Speci	VOL		1.68	4TH TSP	+14.00
26	77	02/95	Bobbin	ODI	12	0.81	12TH TSP	+36.99
		02/95	H/L Speci	VOL		0.79	4TH TSP	-6.59
		02/95	C/L Speci	VOL		0.51	11TH TSP	-6.72
26	81	02/95	Bobbin	ODI	1	1.83	11TH TSP	+28.91
		02/95	C/L Speci	VOL		1.30	10TH TSP	-15.34
26	88	02/95	Bobbin	ODI	13	0.97	5TH TSP	+22.45
		02/95	H/L Speci	VOL		1.58	5TH TSP	+22.45
26	89	02/95	Bobbin	WAR	16	0.79	3AVB	+0.00
26	90	02/95	Bobbin	ODI	39	0.48	3RD TSP	+0.25
26	91	02/95	Bobbin	ODI	68	0.17	7TH TSP	+0.05
26	96	02/95	Bobbin	ODI	23	0.66	3RD TSP	+1.46
		02/95	H/L Speci	VOL		1.61	3RD TSP	+1.51
26	102	02/95	Bobbin	NQI		0.36	6TH TSP	+2.95
		02/95	Bobbin	ODI	13	1.28	4TH TSP	+17.40
		02/95	H/L Speci	VOL		0.24	4TH TSP	+17.14
		02/95	H/L Speci	VOL		1.20	6TH TSP	+2.89
26	104	02/95	Bobbin	ODI	2	1.19	3RD TSP	+37.88
		02/95	Bobbin	ODI	13	2.47	3RD TSP	+39.92
		02/95	H/L Speci	VOL		0.21	4TH TSP	-8.17
		02/95	H/L Speci	VOL		0.24	4TH TSP	-5.66
		02/95	H/L Speci	VOL		1.69	4TH TSP	-3.62
26	107	02/95	Bobbin	ODI	74	0.41	2ND TSP	+0.11
27	11	02/95	Bobbin	ODI	33	0.27	6TH TSP	+0.02
		02/95	Bobbin	ODI	59	0.28	3RD TSP	+0.09
		02/95	Bobbin	ODI	98	0.74	2ND TSP	+0.07
		02/95	H/L Speci	SAI		0.19	2ND TSP	+0.01
27	14	02/95	Bobbin	ODI	67	0.15	6TH TSP	+0.10
27	19	02/95	Bobbin	ODI	42	0.50	2ND TSP	+0.05
27	21	02/95	Bobbin	ODI	1	0.15	6TH TSP	+0.10
		02/95	Bobbin	ODI	59	0.28	4TH TSP	+0.02
27	22	02/95	Bobbin	ODI	39	0.35	5TH TSP	-0.02
27	26	02/95	Bobbin	NQI		11.68	TE-HL	+6.35
27	34	02/95	Bobbin	ODI	54	0.15	4TH TSP	+0.14
27	35	02/95	Bobbin	ODI	64	0.14	4TH TSP	+0.16
27	36	02/95	Bobbin	NQI		11.21	TE-HL	+17.25
		02/95	H/L Tubes	MAI		1.07	TTS-HL	-3.69
27	39	02/95	Bobbin	NQI		0.51	1AVB	+9.47
		02/95	Bobbin	WAR	10	0.47	3AVB	+0.00
		02/95	Bobbin	ODI	34	0.21	4TH TSP	+0.14
27	45	02/95	Bobbin	ODI	27	0.65	4TH TSP	-0.07
		02/95	Bobbin	ODI	56	0.37	3RD TSP	-0.07
27	46	02/95	Bobbin	ODI	71	0.33	6TH TSP	+0.07
27	47	02/95	Bobbin	ODI	40	0.16	4TH TSP	+0.17
27	49	02/95	Bobbin	ODI	59	0.16	7TH TSP	+0.10
27	56	02/95	Bobbin	ODI	4	0.36	11TH TSP	+18.34
		02/95	C/L Speci	VOL		0.29	11TH TSP	+18.06
27	57	02/95	Bobbin	ODI	30	0.32	8TH TSP	-0.15
27	66	02/95	Bobbin	ODI	51	0.40	6TH TSP	+0.06
27	71	02/95	Bobbin	NQI		7.53	TE-HL	+10.69

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

27	78	02/95	Bobbin	NQI		6.00	TE-HL	+9.64
27	96	02/95	C/L Spec	VOL		0.32	21ST TSP	-3.32
27	100	02/95	C/L Spec	VOL		0.36	10TH TSP	+25.88
28	10	02/95	Bobbin	ODI	28	0.74	13TH TSP	+4.62
		02/95	C/L Spec	VOL		0.76	13TH TSP	+4.64
28	11	02/95	Bobbin	ODI	1	0.53	3RD TSP	+0.23
		02/95	Bobbin	ODI	26	0.30	4TH TSP	+0.05
28	17	02/95	Bobbin	ODI	20	0.38	16TH TSP	+2.34
		02/95	C/L Spec	VOL		0.32	16TH TSP	+2.54
28	18	02/95	Bobbin	ODI	1	0.38	3RD TSP	+0.23
		02/95	Bobbin	ODI	5	0.35	6TH TSP	+0.07
		02/95	Bobbin	ODI	41	0.23	4TH TSP	+0.16
28	19	02/95	Bobbin	ODI	81	0.19	4TH TSP	+0.14
28	22	02/95	Bobbin	ODI	97	0.24	3RD TSP	+0.12
28	25	02/95	Bobbin	ODI	81	0.29	6TH TSP	+0.02
		02/95	Bobbin	ODI	98	0.47	4TH TSP	+0.07
28	26	02/95	Bobbin	ODI	42	0.48	2ND TSP	+0.11
28	29	02/95	Bobbin	ODI	86	0.15	4TH TSP	+0.07
28	37	02/95	Bobbin	WAR	13	0.63	3AVB	+0.00
		02/95	Bobbin	ODI	2	0.30	4TH TSP	+0.18
28	41	02/95	Bobbin	ODI	40	0.28	4TH TSP	+0.07
28	59	02/95	H/L Spec	VOL		0.25	5TH TSP	+23.73
28	60	02/95	Bobbin	NQI		0.81	2AVB	+0.10
		02/95	Bobbin	NQI		0.57	4TH TSP	+4.55
		02/95	Bobbin	NQI		0.80	3RD TSP	+38.71
		02/95	Bobbin	NQI		1.50	5TH TSP	+21.60
		02/95	H/L Spec	VOL		0.56	4TH TSP	-4.73
		02/95	H/L Spec	VOL		1.22	4TH TSP	+4.55
		02/95	H/L Spec	VOL		1.77	5TH TSP	+21.48
28	69	02/95	Bobbin	NQI		12.14	TE-HL	+13.03
28	90	02/95	C/L Spec	VOL		0.45	11TH TSP	+20.46
29	15	02/95	Bobbin	ODI	1	0.77	3RD TSP	+0.09
29	19	02/95	Bobbin	ODI	1	0.28	6TH TSP	+0.09
29	21	02/95	Bobbin	ODI	1	0.30	5TH TSP	+0.05
		02/95	Bobbin	ODI	1	0.43	3RD TSP	+0.02
29	25	02/95	Bobbin	ODI	5	0.20	3RD TSP	+0.11
29	26	02/95	Bobbin	ODI	73	0.73	2ND TSP	-0.12
29	29	02/95	Bobbin	ODI	97	0.80	2ND TSP	+0.00
		02/95	H/L Spec	SAI		0.18	2ND TSP	+0.00
29	32	02/95	Bobbin	ODI	55	0.13	4TH TSP	+0.14
29	44	02/95	Bobbin	ODI	1	0.28	4TH TSP	+0.16
29	45	02/95	Bobbin	ODI	1	0.40	3RD TSP	-0.11
29	47	02/95	Bobbin	ODI	71	0.67	4TH TSP	+0.17
		02/95	H/L Spec	SAI		0.10	2ND TSP	+0.09
29	50	02/95	C/L Spec	VOL		0.69	12TH TSP	+27.53
29	53	02/95	Bobbin	ODI	10	0.59	6TH TSP	+0.24
29	55	02/95	Bobbin	ODI	7	0.63	5TH TSP	+2.69
		02/95	H/L Spec	VOL		0.86	5TH TSP	+2.70
29	63	02/95	Bobbin	ODI	1	0.71	6TH TSP	+9.23
		02/95	Bobbin	ODI	24	0.55	6TH TSP	+12.72
		02/95	H/L Spec	VOL		0.79	6TH TSP	+13.04
		02/95	H/L Spec	VOL		1.33	6TH TSP	+9.35
29	68	02/95	Bobbin	NQI		0.37	3RD TSP	+34.13
		02/95	H/L Spec	VOL		0.22	4TH TSP	-9.89
29	69	02/95	Bobbin	ODI	7	0.26	4TH TSP	-0.28
29	72	02/95	Bobbin	NQI		4.24	TE-CL	+10.20
29	78	02/95	Bobbin	ODI	9	0.60	3RD TSP	+5.17
		02/95	H/L Spec	VOL		0.32	3RD TSP	+5.12
29	81	02/95	Bobbin	NQI		0.67	5TH TSP	+40.70
		02/95	H/L Spec	VOL		1.11	6TH TSP	-2.78
29	88	02/95	Bobbin	ODI	25	0.48	3RD TSP	+36.81
29	90	02/95	Bobbin	ODI	36	0.24	2ND TSP	+0.02
		02/95	H/L Spec	VOL		0.58	3RD TSP	+19.14
29	93	02/95	Bobbin	ODI	72	0.85	2ND TSP	+0.10
		02/95	H/L Spec	SAI		1.12	2ND TSP	-0.01

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
29	94	02/95	Bobbin	ODI	90	0.94	2ND TSP	+0.00
		02/95	H/L Speci	MAI		0.47	2ND TSP	-0.11
29	96	02/95	Bobbin	ODI	94	0.79	2ND TSP	+0.05
29	97	02/95	U-Bend	VOL		1.05	4AVB	+8.01
		02/95	Bobbin	ODI	4	1.56	4AVB	+8.58
29	98	02/95	Bobbin	NQI		0.57	7TH TSP	+13.59
		02/95	H/L Speci	VOL		0.91	7TH TSP	+14.01
		02/95	H/L Speci	VOL		1.64	7TH TSP	+6.62
30	20	02/95	Bobbin	ODI	1	0.17	6TH TSP	+0.07
30	24	02/95	C/L Speci	VOL		0.24	22ND TSP	-0.42
		02/95	C/L Speci	VOL		0.40	22ND TSP	+9.46
30	26	02/95	Bobbin	ODI	6	0.46	3RD TSP	+0.18
		02/95	Bobbin	ODI	69	1.21	2ND TSP	+0.07
30	31	02/95	Bobbin	NQI		0.63	11TH TSP	+17.78
		02/95	C/L Speci	VOL		0.43	11TH TSP	+18.01
30	32	02/95	C/L Speci	VOL		0.29	17TH TSP	+5.52
30	34	02/95	Bobbin	ODI	88	0.42	4TH TSP	+0.00
30	38	02/95	Bobbin	ODI	16	0.29	7TH TSP	-0.05
30	42	02/95	Bobbin	ODI	1	0.29	6TH TSP	+0.12
		02/95	Bobbin	ODI	30	0.27	4TH TSP	+0.11
30	48	02/95	Bobbin	ODI	1	0.78	4TH TSP	+0.27
30	69	02/95	Bobbin	ODI	9	0.81	6TH TSP	+30.94
		02/95	H/L Speci	VOL		0.53	7TH TSP	-11.18
		02/95	H/L Speci	VOL		0.94	7TH TSP	-12.76
30	70	02/95	Bobbin	ODI	91	0.30	2ND TSP	+0.14
30	76	02/95	H/L Speci	VOL		0.82	8TH TSP	-7.34
30	103	02/95	Bobbin	ODI	37	0.54	TTS-HL	+4.93
30	104	02/95	Bobbin	NQI		4.32	TE-HL	+11.76
		02/95	Bobbin	ODI	86	0.91	2ND TSP	+0.11
		02/95	H/L Speci	MAI		0.21	2ND TSP	+0.16
31	16	02/95	Bobbin	ODI	37	0.14	6TH TSP	+0.07
31	18	02/95	Bobbin	ODI	1	0.31	6TH TSP	+0.06
31	19	02/95	Bobbin	ODI	1	0.36	6TH TSP	+0.10
31	21	02/95	Bobbin	ODI	18	0.46	16TH TSP	+8.75
		02/95	C/L Speci	VOL		0.20	15TH TSP	-4.62
		02/95	C/L Speci	VOL		0.33	16TH TSP	+8.75
31	22	02/95	Bobbin	ODI	14	0.28	6TH TSP	+0.08
31	36	02/95	Bobbin	ODI	1	0.33	7TH TSP	-0.05
31	37	02/95	Bobbin	ODI	91	0.24	4TH TSP	+0.05
		02/95	C/L Speci	VOL		0.24	18TH TSP	-0.69
		02/95	C/L Speci	VOL		0.25	18TH TSP	+9.68
31	43	02/95	Bobbin	ODI	9	0.39	4TH TSP	+0.16
31	52	02/95	Bobbin	ODI	1	0.48	3RD TSP	+0.16
		02/95	Bobbin	ODI	79	0.51	7TH TSP	+0.12
31	60	02/95	H/L Speci	VOL		0.52	3RD TSP	+25.74
31	62	02/95	C/L Speci	VOL		0.19	12TH TSP	+23.61
		02/95	C/L Speci	VOL		0.42	22ND TSP	+11.23
31	65	02/95	Bobbin	ODI	9	1.11	13TH TSP	+13.47
		02/95	Bobbin	ODI	21	1.10	15TH TSP	+3.22
		02/95	C/L Speci	VOL		0.24	13TH TSP	+13.47
		02/95	C/L Speci	VOL		0.32	15TH TSP	+3.22
31	67	02/95	Bobbin	NQI		4.40	TE-CL	+18.87
		02/95	Bobbin	ODI	52	0.44	6TH TSP	+0.02
31	68	02/95	Bobbin	NQI		1.26	1ST TSP	+17.59
		02/95	H/L Speci	VOL		1.73	2ND TSP	-3.14
31	69	02/95	Bobbin	ODI	38	1.30	1ST TSP	+10.20
		02/95	H/L Speci	VOL		0.83	1ST TSP	+10.29
31	71	02/95	Bobbin	ODI	13	1.54	11TH TSP	+41.91
		02/95	C/L Speci	VOL		0.43	11TH TSP	+41.91
31	73	02/95	Bobbin	ODI	18	0.63	4TH TSP	+14.39
		02/95	H/L Speci	VOL		0.63	4TH TSP	+14.71
31	77	02/95	Bobbin	NQI		14.82	TE-HL	+13.34
31	80	02/95	Bobbin	ODI	90	0.42	2ND TSP	-0.02
31	92	02/95	Bobbin	ODI	15	1.10	5TH TSP	+24.80
		02/95	H/L Speci	VOL		1.19	5TH TSP	+23.98

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

S/G D

02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

31	102	02/95	H/L Speci	VOL		0.51	4TH TSP	+8.27	
32	13	02/95	C/L Speci	VOL		1.52	11TH TSP	-4.14	to *
32	15	02/95	C/L Speci	VOL		0.29	12TH TSP	+28.31	
32	26	02/95	Bobbin	ODI	78	0.44	6TH TSP	+0.09	
32	50	02/95	Bobbin	ODI	20	0.80	4TH TSP	+3.77	
		02/95	H/L Speci	VOL		1.07	4TH TSP	+4.15	
32	54	02/95	Bobbin	ODI	18	0.65	4TH TSP	-0.19	
32	66	02/95	Bobbin	ODI	77	1.64	2ND TSP	+0.12	
		02/95	H/L Speci	SAI		1.32	2ND TSP	+0.00	
32	70	02/95	Bobbin	NQI		2.04	5TH TSP	+13.08	
32	80	02/95	Bobbin	ODI	2	0.66	2ND TSP	+16.29	
		02/95	H/L Speci	VOL		0.33	3RD TSP	-7.56	
		02/95	H/L Speci	VOL		0.45	3RD TSP	-12.49	
33	18	02/95	Bobbin	ODI	23	0.59	12TH TSP	+17.12	
		02/95	C/L Speci	VOL		0.39	12TH TSP	+17.07	
33	23	02/95	H/L Speci	VOL		0.68	3RD TSP	+17.43	
33	24	02/95	Bobbin	ODI	91	0.56	2ND TSP	+0.08	
33	46	02/95	Bobbin	ODI	8	0.33	22ND TSP	+11.49	
		02/95	C/L Speci	VOL		0.35	22ND TSP	+12.06	
33	65	02/95	Bobbin	ODI	44	0.24	2ND TSP	-0.26	
33	79	02/95	Bobbin	NQI		0.72	5TH TSP	+31.97	
		02/95	H/L Speci	VOL		0.53	5TH TSP	+31.94	
33	84	02/95	Bobbin	ODI	15	0.42	6TH TSP	+14.05	
		02/95	H/L Speci	VOL		0.30	6TH TSP	+13.81	
		02/95	H/L Speci	VOL		0.61	6TH TSP	+23.91	
33	91	02/95	Bobbin	NQI		1.01	9TH TSP	+4.21	
		02/95	U-Bend	VOL		0.25	9TH TSP	+3.93	
34	18	02/95	C/L Speci	VOL		0.16	12TH TSP	+6.93	
34	22	02/95	U-Bend	VOL		1.56	4AVB	+2.34	
34	26	02/95	Bobbin	ODI	9	0.32	6TH TSP	+0.04	
34	32	02/95	Bobbin	WAR	19	0.98	2AVB	+0.00	
34	46	02/95	Bobbin	NQI		0.79	5TH TSP	+25.29	
		02/95	H/L Speci	VOL		0.12	5TH TSP	+29.84	
		02/95	H/L Speci	VOL		0.41	5TH TSP	+25.37	
34	52	02/95	Bobbin	ODI	55	0.26	4TH TSP	+0.13	
34	54	02/95	H/L Speci	VOL		1.33	3RD TSP	-4.91	
34	55	02/95	H/L Speci	VOL		0.52	5TH TSP	-6.37	
34	61	02/95	Bobbin	NQI		0.51	8TH TSP	-0.22	
		02/95	Bobbin	ODI	24	1.59	12TH TSP	+28.87	
		02/95	C/L Speci	VOL		0.57	12TH TSP	+28.16	
34	80	02/95	Bobbin	ODI	70	0.28	7TH TSP	+0.00	
34	89	02/95	U-Bend	VOL		0.82	1AVB	+14.05	
34	93	02/95	H/L Speci	VOL		0.40	2ND TSP	+0.00	
35	14	02/95	Bobbin	ODI	11	0.94	7TH TSP	+26.40	
		02/95	H/L Speci	VOL		0.75	8TH TSP	-17.60	
35	16	02/95	Bobbin	ODI	61	0.85	2ND TSP	+0.15	
35	18	02/95	Bobbin	ODI	44	0.20	6TH TSP	+0.11	
35	21	02/95	Bobbin	ODI	6	0.23	6TH TSP	+0.05	
35	52	02/95	Bobbin	ODI	21	0.30	4TH TSP	+0.02	
35	57	02/95	Bobbin	ODI	10	0.78	5TH TSP	+15.06	
		02/95	H/L Speci	VOL		0.77	5TH TSP	+15.66	
36	63	02/95	H/L Speci	VOL		1.10	5TH TSP	+25.11	
36	81	02/95	Bobbin	ODI	85	0.32	4TH TSP	+0.00	
36	83	02/95	Bobbin	ODI	98	0.48	2ND TSP	+0.15	
36	87	02/95	Bobbin	ODI	35	0.22	3RD TSP	+0.21	
		02/95	Bobbin	ODI	75	0.20	2ND TSP	+0.12	
37	35	02/95	Bobbin	NQI		2.10	1AVB	+21.07	
		02/95	U-Bend	VOL		1.55	1AVB	+21.71	
37	43	02/95	Bobbin	NQI		0.79	3RD TSP	+40.96	
		02/95	H/L Speci	VOL		0.32	4TH TSP	-2.78	
37	51	02/95	Bobbin	NQI		0.71	8TH TSP	-0.28	
37	54	02/95	Bobbin	ODI	23	0.93	5TH TSP	+15.75	
		02/95	H/L Speci	VOL		0.85	5TH TSP	+16.11	
37	59	02/95	Bobbin	ODI	34	0.29	5TH TSP	+0.13	
37	75	02/95	Bobbin	ODI	79	0.11	4TH TSP	-0.08	

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
37	82	02/95	Bobbin	ODI	27	0.13	3RD TSP	+0.22
37	83	02/95	Bobbin	ODI	98	0.34	2ND TSP	+0.20
		02/95	C/L Speci	VOL		0.29	12TH TSP	-3.46
37	98	02/95	Bobbin	ODI	19	0.30	5TH TSP	+0.07
38	20	02/95	Bobbin	ODI	10	0.26	7TH TSP	+0.10
38	22	02/95	Bobbin	ODI	73	0.15	3RD TSP	+0.10
		02/95	C/L Speci	VOL		0.32	21ST TSP	-5.14
38	23	02/95	Bobbin	NQI		0.88	11TH TSP	+15.41
		02/95	C/L Speci	VOL		0.58	11TH TSP	+15.57
38	24	02/95	Bobbin	WAR	6	0.28	2AVB	+0.00
38	31	02/95	Bobbin	WAR	7	0.31	2AVB	+0.00
		02/95	Bobbin	WAR	9	0.38	3AVB	+0.00
38	32	02/95	Bobbin	WAR	18	0.92	2AVB	+0.00
38	35	02/95	Bobbin	WAR	18	0.91	2AVB	+0.00
38	36	02/95	Bobbin	WAR	13	0.59	2AVB	+0.00
		02/95	Bobbin	WAR	21	1.17	3AVB	+0.00
38	37	02/95	Bobbin	ODI	72	0.16	7TH TSP	+0.02
38	46	02/95	Bobbin	WAR	30	2.17	2AVB	+0.00
		02/95	Bobbin	ODI	1	0.24	4TH TSP	-0.18
38	49	02/95	Bobbin	ODI	3	0.53	7TH TSP	-0.11
38	51	02/95	Bobbin	ODI	70	0.47	7TH TSP	-0.09
38	54	02/95	Bobbin	ODI	1	0.55	7TH TSP	-0.16
38	55	02/95	Bobbin	ODI	5	0.58	7TH TSP	-0.14
38	56	02/95	Bobbin	ODI	1	0.72	7TH TSP	-0.14
38	57	02/95	Bobbin	WAR	11	0.47	2AVB	+0.00
		02/95	Bobbin	NQI		0.53	10TH TSP	+35.58
		02/95	Bobbin	ODI	46	0.31	10TH TSP	+19.84
		02/95	C/L Speci	SAI		0.16	10TH TSP	+36.08
38	65	02/95	Bobbin	ODI	35	0.43	4TH TSP	-0.17
38	72	02/95	Bobbin	ODI	82	0.82	2ND TSP	+0.04
		02/95	H/L Speci	SAI		0.96	2ND TSP	-0.10
38	73	02/95	Bobbin	ODI	64	0.36	4TH TSP	-0.17
38	80	02/95	Bobbin	ODI	81	0.32	2ND TSP	+0.12
38	90	02/95	Bobbin	ODI	1	0.60	4TH TSP	+0.08
39	39	02/95	Bobbin	ODI	95	0.67	4TH TSP	-0.19
39	43	02/95	Bobbin	ODI	3	0.96	12TH TSP	+12.51
		02/95	C/L Speci	VOL		0.26	12TH TSP	+12.40
39	47	02/95	Bobbin	NQI		0.75	5TH TSP	+10.90
		02/95	H/L Speci	VOL		0.82	5TH TSP	+11.69
39	48	02/95	Bobbin	ODI	1	0.27	2ND TSP	+0.14
39	50	02/95	Bobbin	ODI	74	0.58	4TH TSP	-0.09
39	51	02/95	Bobbin	ODI	19	0.46	4TH TSP	+19.75
		02/95	H/L Speci	VOL		0.60	4TH TSP	+20.27
39	53	02/95	Bobbin	ODI	6	0.62	7TH TSP	-0.21
39	54	02/95	Bobbin	ODI	98	0.26	4TH TSP	-0.21
39	55	02/95	Bobbin	ODI	1	0.55	7TH TSP	-0.16
39	57	02/95	Bobbin	ODI	1	0.59	7TH TSP	-0.07
		02/95	Bobbin	ODI	66	0.28	4TH TSP	-0.16
39	58	02/95	Bobbin	ODI	71	0.14	5TH TSP	+0.07
39	59	02/95	Bobbin	ODI	49	0.33	7TH TSP	-0.10
39	65	02/95	Bobbin	ODI	69	0.52	4TH TSP	+0.00
39	68	02/95	Bobbin	NQI		0.42	3RD TSP	+36.68
		02/95	H/L Speci	VOL		0.36	4TH TSP	-7.25
39	72	02/95	Bobbin	ODI	9	0.43	11TH TSP	+20.60
		02/95	Bobbin	ODI	13	0.53	18TH TSP	-1.15
		02/95	C/L Speci	VOL		0.14	11TH TSP	+20.71
		02/95	C/L Speci	VOL		0.46	18TH TSP	-1.10
		02/95	C/L Speci	VOL		0.59	11TH TSP	+7.69
39	79	02/95	Bobbin	ODI	1	0.57	3RD TSP	+0.24
		02/95	Bobbin	ODI	61	0.14	11TH TSP	+0.03
39	83	02/95	C/L Speci	VOL		0.72	16TH TSP	+1.97
39	94	02/95	Bobbin	ODI	1	0.36	6TH TSP	+0.09
40	19	02/95	Bobbin	NQI		4.36	TE-CL	+19.48
40	22	02/95	Bobbin	NQI		0.32	12TH TSP	+37.60
		02/95	C/L Speci	VOL		0.59	11TH TSP	-6.79

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Catawba Nuclear Station - Unit One

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02/95 RFO

Bobbin, C/L Special Interest, H/L Special Interest, H/L Tubesheet, U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION
40	32	02/95	Bobbin	ODI	86	0.40	2ND TSP	+0.09
40	34	02/95	Bobbin	ODI	8	1.43	10TH TSP	+36.34
		02/95	C/L Speci	VOL		0.71	9TH TSP	-8.58
40	45	02/95	Bobbin	WAR	15	0.66	2AVB	+0.00
40	48	02/95	Bobbin	WAR	9	0.37	1AVB	+0.00
40	50	02/95	Bobbin	WAR	14	0.61	1AVB	+0.00
40	51	02/95	Bobbin	WAR	13	0.60	2AVB	+0.00
		02/95	Bobbin	WAR	16	0.74	1AVB	+0.00
40	59	02/95	Bobbin	WAR	23	1.45	1AVB	+0.00
40	61	02/95	Bobbin	NQI		2.12	2AVB	+17.01
		02/95	U-Bend	VOL		3.11	2AVB	+17.12
40	62	02/95	U-Bend	VOL		0.70	4AVB	+5.08
		02/95	Bobbin	ODI	75	0.15	7TH TSP	-0.08
		02/95	Bobbin	ODI	18	0.78	12TH TSP	+24.66
		02/95	C/L Speci	VOL		0.27	12TH TSP	+24.40
40	65	02/95	Bobbin	ODI	2	0.91	2ND TSP	+20.82
		02/95	Bobbin	ODI	9	0.84	7TH TSP	+11.42
		02/95	Bobbin	ODI	12	1.45	7TH TSP	+10.65
		02/95	Bobbin	ODI	19	0.15	4TH TSP	+0.00
		02/95	Bobbin	ODI	49	0.97	7TH TSP	+17.38
		02/95	H/L Speci	VOL		1.10	7TH TSP	+17.54
		02/95	H/L Speci	VOL		1.60	3RD TSP	-2.84
		02/95	H/L Speci	VOL		1.77	7TH TSP	+11.23
40	67	02/95	U-Bend	VOL		0.92	1AVB	+12.68
		02/95	Bobbin	ODI	6	2.20	1AVB	+12.18
40	72	02/95	Bobbin	NQI		0.33	6TH TSP	+30.72
		02/95	H/L Speci	VOL		0.24	7TH TSP	-13.38
40	75	02/95	Bobbin	ODI	99	0.63	2ND TSP	+0.08
40	77	02/95	Bobbin	ODI	1	0.45	4TH TSP	+0.13
40	87	02/95	Bobbin	ODI	6	1.01	3RD TSP	+17.30
40	89	02/95	Bobbin	ODI	80	0.27	4TH TSP	+0.08
40	95	02/95	Bobbin	ODI	89	0.44	5TH TSP	+0.13
		02/95	Bobbin	ODI	99	0.57	4TH TSP	+0.10
41	21	02/95	Bobbin	ODI	27	0.47	12TH TSP	+36.59
		02/95	C/L Speci	VOL		0.49	11TH TSP	-7.43
41	25	02/95	Bobbin	ODI	1	0.38	7TH TSP	+0.05
41	26	02/95	Bobbin	NQI		0.45	13TH TSP	+13.37
		02/95	C/L Speci	VOL		0.25	13TH TSP	+13.38
41	35	02/95	Bobbin	ODI	4	0.22	7TH TSP	+0.02
41	36	02/95	Bobbin	ODI	4	0.86	10TH TSP	+30.24
		02/95	Bobbin	ODI	5	0.49	10TH TSP	+31.45
		02/95	C/L Speci	VOL		0.19	9TH TSP	-13.26
		02/95	C/L Speci	VOL		0.36	9TH TSP	-14.53
41	38	02/95	Bobbin	ODI	3	1.45	12TH TSP	+9.75
		02/95	C/L Speci	VOL		0.41	12TH TSP	+9.89
41	43	02/95	Bobbin	ODI	10	0.40	5TH TSP	+8.81
		02/95	H/L Speci	VOL		0.53	5TH TSP	+9.20
41	57	02/95	Bobbin	ODI	5	0.86	5TH TSP	+37.50
		02/95	H/L Speci	VOL		0.37	6TH TSP	-5.80
		02/95	H/L Speci	VOL		1.30	6TH TSP	+0.42
41	73	02/95	C/L Speci	VOL		0.32	17TH TSP	-7.06
41	78	02/95	H/L Speci	VOL		0.82	4TH TSP	+9.98
41	85	02/95	Bobbin	ODI	51	0.21	2ND TSP	-0.05
41	88	02/95	Bobbin	ODI	12	0.48	5TH TSP	+15.62
		02/95	H/L Speci	VOL		0.80	5TH TSP	+15.89
41	90	02/95	Bobbin	ODI	22	0.18	7TH TSP	+0.03
41	94	02/95	Bobbin	ODI	21	0.98	3RD TSP	+38.72
		02/95	H/L Speci	VOL		1.38	4TH TSP	-4.34
42	23	02/95	Bobbin	ODI	1	0.35	4TH TSP	+0.19
		02/95	Bobbin	ODI	7	0.38	6TH TSP	+0.07
		02/95	Bobbin	ODI	20	1.16	6TH TSP	+30.98
		02/95	Bobbin	ODI	20	1.38	4TH TSP	+8.80
		02/95	Bobbin	ODI	61	0.27	3RD TSP	+0.00
		02/95	H/L Speci	VOL		0.83	4TH TSP	+8.50
		02/95	H/L Speci	VOL		0.83	7TH TSP	-13.71

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 02/95 RFO

Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	VOL		1.00	7TH TSP	-9.81
42	24	02/95	Bobbin	ODI	1	0.66	2ND TSP	+0.09
42	25	02/95	H/L Tubes	MAI		0.83	TTS-HL	-1.05
42	26	02/95	Bobbin	ODI	99	0.68	2ND TSP	+0.02
42	27	02/95	Bobbin	WAR	10	0.47	1AVB	+0.00
42	28	02/95	Bobbin	ODI	9	0.37	4TH TSP	+0.02
		02/95	Bobbin	ODI	11	0.23	6TH TSP	+0.07
42	29	02/95	Bobbin	NQI		0.31	13TH TSP	+6.03
		02/95	C/L Speci	VOL		0.38	13TH TSP	+5.96
42	31	02/95	Bobbin	WAR	14	0.70	2AVB	+0.00
42	35	02/95	Bobbin	WAR	10	0.43	2AVB	+0.00
42	36	02/95	Bobbin	ODI	18	0.58	2ND TSP	+0.19
42	39	02/95	Bobbin	ODI	1	0.17	4TH TSP	+0.14
		02/95	Bobbin	ODI	1	0.19	3RD TSP	+0.07
		02/95	Bobbin	ODI	72	0.59	5TH TSP	+0.02
42	41	02/95	Bobbin	ODI	1	0.85	3RD TSP	+0.00
		02/95	Bobbin	ODI	13	0.10	4TH TSP	+0.05
42	45	02/95	Bobbin	NQI		0.53	21ST TSP	+2.71
		02/95	C/L Speci	VOL		0.32	21ST TSP	+2.93
42	49	02/95	Bobbin	NQI		0.94	4TH TSP	+25.47
		02/95	H/L Speci	VOL		0.68	4TH TSP	+25.84
42	51	02/95	Bobbin	WAR	21	1.16	1AVB	+0.00
		02/95	Bobbin	ODI	6	1.37	15TH TSP	+17.08
		02/95	C/L Speci	VOL		0.39	13TH TSP	-5.25
		02/95	C/L Speci	VOL		0.46	13TH TSP	-2.22
42	52	02/95	H/L Speci	VOL		0.65	3RD TSP	+25.83
42	56	02/95	Bobbin	WAR	16	0.79	1AVB	+0.00
42	61	02/95	Bobbin	ODI	11	1.17	5TH TSP	+19.27
		02/95	H/L Speci	VOL		0.39	5TH TSP	+16.56
		02/95	H/L Speci	VOL		0.40	5TH TSP	+17.63
		02/95	H/L Speci	VOL		0.99	5TH TSP	+19.54
42	64	02/95	Bobbin	NQI		1.84	4AVB	+20.50
		02/95	U-Bend	VOL		0.86	4AVB	+21.26
42	65	02/95	Bobbin	ODI	51	0.24	4TH TSP	-0.10
42	80	02/95	Bobbin	ODI	97	0.55	2ND TSP	-0.03
42	83	02/95	Bobbin	ODI	8	0.57	7TH TSP	+30.40
		02/95	H/L Speci	VOL		0.66	8TH TSP	-13.52
42	87	02/95	Bobbin	ODI	71	0.94	2ND TSP	+0.07
		02/95	Bobbin	ODI	14	1.01	13TH TSP	+9.26
		02/95	C/L Speci	VOL		0.58	13TH TSP	+9.42
		02/95	C/L Speci	VOL		0.77	22ND TSP	-4.34
42	90	02/95	Bobbin	ODI	1	0.31	3RD TSP	+0.05
42	91	02/95	Bobbin	NQI		0.40	6TH TSP	+24.83
		02/95	Bobbin	ODI	68	0.89	2ND TSP	+0.00
		02/95	H/L Speci	SAI		0.34	2ND TSP	-0.04
		02/95	H/L Speci	VOL		0.59	6TH TSP	+24.96
42	92	02/95	Bobbin	WAR	18	0.87	3AVB	+0.00
42	93	02/95	Bobbin	NQI		0.55	12TH TSP	+36.53
		02/95	Bobbin	ODI	1	0.54	4TH TSP	+0.07
		02/95	C/L Speci	VOL		0.91	11TH TSP	-7.80
43	22	02/95	Bobbin	ODI	58	0.30	6TH TSP	+0.12
		02/95	Bobbin	ODI	70	0.19	7TH TSP	+0.10
		02/95	Bobbin	ODI	75	0.69	2ND TSP	+0.07
		02/95	Bobbin	ODI	93	0.45	4TH TSP	+0.00
		02/95	Bobbin	ODI	99	0.41	5TH TSP	+0.05
43	23	02/95	Bobbin	ODI	1	0.30	4TH TSP	+0.17
43	24	02/95	Bobbin	ODI	1	0.43	5TH TSP	+0.10
		02/95	Bobbin	ODI	14	0.24	3RD TSP	+0.10
		02/95	Bobbin	ODI	91	0.21	4TH TSP	+0.10
43	25	02/95	Bobbin	ODI	1	0.33	7TH TSP	+0.15
		02/95	Bobbin	ODI	1	0.38	5TH TSP	+0.12
		02/95	Bobbin	ODI	1	0.58	3RD TSP	+0.05
		02/95	Bobbin	ODI	11	0.23	4TH TSP	+0.17
		02/95	Bobbin	ODI	55	0.47	6TH TSP	+0.10
		02/95	Bobbin	ODI	56	1.18	2ND TSP	+0.05

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

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02/95 RFO

Bobbin,C/I Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

		02/95	H/L Speci	SAI		0.24	2ND TSP	+0.12
43	37	02/95	Bobbin	ODI	1	0.73	2ND TSP	-0.12
		02/95	Bobbin	ODI	2	0.43	3RD TSP	+0.15
		02/95	Bobbin	ODI	29	0.14	6TH TSP	+0.05
		02/95	Bobbin	ODI	86	0.26	4TH TSP	+0.17
43	38	02/95	Bobbin	ODI	48	0.17	7TH TSP	+0.00
43	40	02/95	Bobbin	ODI	11	0.40	3RD TSP	-0.05
		02/95	Bobbin	ODI	49	0.41	4TH TSP	+0.15
		02/95	Bobbin	ODI	92	0.48	5TH TSP	+0.00
		02/95	Bobbin	ODI	2	1.09	11TH TSP	+29.05
		02/95	H/L Speci	SAI		0.14	2ND TSP	-0.12
		02/95	C/L Speci	VOL		0.15	11TH TSP	+28.86
43	41	02/95	Bobbin	ODI	1	0.45	4TH TSP	+0.10
		02/95	Bobbin	ODI	11	0.23	6TH TSP	+0.07
		02/95	Bobbin	ODI	46	0.23	3RD TSP	+0.07
		02/95	Bobbin	ODI	81	0.13	5TH TSP	+0.10
43	48	02/95	Bobbin	ODI	1	0.54	3RD TSP	-0.03
		02/95	Bobbin	ODI	67	0.36	4TH TSP	+0.10
		02/95	Bobbin	ODI	72	0.59	2ND TSP	+0.12
		02/95	Bobbin	ODI	76	0.17	5TH TSP	+0.10
43	49	02/95	Bobbin	ODI	27	0.21	4TH TSP	+0.00
43	50	02/95	Bobbin	ODI	1	0.59	4TH TSP	-0.08
		02/95	Bobbin	ODI	1	0.63	3RD TSP	+0.25
43	53	02/95	Bobbin	NQI		1.20	18TH TSP	+3.75
		02/95	C/L Speci	VOL		0.77	18TH TSP	+3.99
43	55	02/95	Bobbin	NQI		1.61	3AVB	-1.12
		02/95	U-Bend	VOL		0.63	3AVB	-0.90
43	62	02/95	Bobbin	ODI	1	0.41	4TH TSP	-0.10
43	82	02/95	Bobbin	ODI	24	0.46	3RD TSP	+0.22
43	89	02/95	Bobbin	ODI	36	0.25	4TH TSP	-0.05
43	90	02/95	Bobbin	ODI	1	0.32	3RD TSP	+0.27
		02/95	Bobbin	ODI	18	0.18	4TH TSP	+0.18
		02/95	Bobbin	ODI	73	0.20	5TH TSP	+0.05
		02/95	Bobbin	ODI	81	0.25	7TH TSP	+0.10
43	92	02/95	Bobbin	ODI	50	0.31	5TH TSP	+0.03
		02/95	Bobbin	ODI	86	0.23	4TH TSP	+0.10
43	93	02/95	Bobbin	ODI	1	0.31	7TH TSP	+0.23
		02/95	Bobbin	ODI	1	0.39	6TH TSP	+0.23
		02/95	Bobbin	ODI	22	0.14	5TH TSP	+0.13
		02/95	Bobbin	ODI	36	0.20	4TH TSP	+0.07
44	24	02/95	Bobbin	ODI	96	0.36	6TH TSP	+0.05
44	27	02/95	Bobbin	ODI	87	0.23	3RD TSP	+0.07
44	31	02/95	Bobbin	ODI	19	0.31	3RD TSP	+0.10
44	32	02/95	Bobbin	ODI	1	0.18	3RD TSP	-0.07
		02/95	Bobbin	ODI	74	0.23	4TH TSP	+0.12
		02/95	H/L Speci	VOL		0.96	7TH TSP	-0.02
44	35	02/95	Bobbin	ODI	1	0.18	4TH TSP	+0.19
44	36	02/95	Bobbin	ODI	1	0.26	6TH TSP	+0.12
		02/95	Bobbin	ODI	18	0.25	3RD TSP	+0.17
44	57	02/95	H/L Speci	VOL		0.19	3RD TSP	+26.68
44	69	02/95	Bobbin	NQI		2.31	TE-HL	+9.46
44	92	02/95	Bobbin	ODI	22	0.33	10TH TSP	+22.66
45	30	02/95	Bobbin	NQI		0.42	12TH TSP	+15.41
		02/95	Bobbin	ODI	8	1.30	13TH TSP	+7.10
		02/95	C/L Speci	VOL		0.09	12TH TSP	+15.91
		02/95	C/L Speci	VOL		0.62	13TH TSP	+7.05
45	34	02/95	C/L Speci	VOL		0.28	11TH TSP	+25.19
45	38	02/95	Bobbin	NQI		1.39	22ND TSP	+3.43
		02/95	C/L Speci	VOL		0.78	22ND TSP	+3.67
45	47	02/95	Bobbin	ODI	76	0.34	3RD TSP	+0.00
45	48	02/95	U-Bend	VOL		1.08	8TH TSP	+8.85
45	59	02/95	C/L Speci	VOL		0.93	10TH TSP	+32.80
45	62	02/95	Bobbin	ODI	15	2.13	11TH TSP	+12.82
		02/95	C/L Speci	VOL		1.07	11TH TSP	+12.82
45	76	02/95	H/L Speci	VOL		0.77	3RD TSP	-4.53

 BWNT TUBAN II (Version 2.1) 05/01/1995 07:55:48
 Catawba Nuclear Station - Unit One
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Bobbin,C/L Special Interest,H/L Special Interest,H/L Tubesheet,U-Bend

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S/G D - ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

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ROW COL OUTAGE TEST TYPE IND %TW VOLTS LOCATION

45	78	02/95	Bobbin	ODI	99	1.16	2ND TSP	-0.02
		02/95	H/L Speci	SAI		1.01	2ND TSP	+0.00
45	86	02/95	Bobbin	ODI	12	0.23	3RD TSP	+0.14
		02/95	Bobbin	ODI	27	0.19	4TH TSP	-0.14
45	90	02/95	Bobbin	NQI		1.04	2ND TSP	+6.39
		02/95	H/L Speci	VOL		1.16	2ND TSP	+6.32
46	47	02/95	C/L Speci	VOL		0.25	12TH TSP	+22.30
46	88	02/95	H/L Speci	VOL		0.95	3RD TSP	+21.58
47	30	02/95	Bobbin	ODI	6	0.47	3RD TSP	+0.10
47	43	02/95	C/L Speci	VOL		0.38	13TH TSP	+11.60
47	48	02/95	Bobbin	ODI	66	0.19	3RD TSP	+0.16
47	49	02/95	Bobbin	NQI		22.44	TE-HL	+6.55
47	50	02/95	Bobbin	WAR	11	2.19	18TH TSP	+0.00
48	36	02/95	C/L Speci	VOL		0.24	13TH TSP	+11.06
48	39	02/95	Bobbin	ODI	93	0.31	6TH TSP	+0.05
48	42	02/95	Bobbin	NQI		24.33	TE-HL	+12.46
		02/95	Bobbin	ODI	33	0.33	6TH TSP	+0.03
		02/95	H/L Speci	MAI		2.56	TE-HL	+12.16
48	56	02/95	Bobbin	NQI		0.28	1ST TSP	+11.55
		02/95	Bobbin	ODI	1	1.16	1ST TSP	+12.30
		02/95	Bobbin	ODI	7	0.78	3RD TSP	+30.40
		02/95	Bobbin	ODI	11	0.53	1ST TSP	+10.65
		02/95	H/L Speci	VOL		0.49	4TH TSP	-14.85
		02/95	H/L Speci	VOL		1.10	1ST TSP	+10.65
		02/95	H/L Speci	VOL		1.68	1ST TSP	+12.30
48	79	02/95	C/L Speci	VOL		0.58	10TH TSP	+0.04
49	32	02/95	Bobbin	ODI	29	0.16	2ND TSP	-0.13
49	45	02/95	Bobbin	NQI		0.75	14TH TSP	-1.43
		02/95	C/L Speci	VOL		0.35	14TH TSP	-1.49
49	51	02/95	Bobbin	ODI	83	0.39	7TH TSP	-0.03
49	53	02/95	Bobbin	WAR	10	1.73	18TH TSP	+0.00
49	59	02/95	Bobbin	ODI	53	0.72	2ND TSP	+0.00
		02/95	C/L Speci	VOL		0.34	11TH TSP	-0.18
49	60	02/95	Bobbin	NQI		0.35	1AVB	+16.53
		02/95	U-Bend	VOL		2.40	1AVB	+17.41
		02/95	Bobbin	ODI	2	0.55	4TH TSP	-0.56
49	61	02/95	Bobbin	ODI	26	0.42	4TH TSP	-0.54
49	69	02/95	Bobbin	NQI		0.24	5TH TSP	+0.11
		02/95	Bobbin	NQI		0.61	3RD TSP	+0.16
		02/95	Bobbin	ODI	34	0.51	4TH TSP	+0.00
49	70	02/95	Bobbin	ODI	74	0.71	2ND TSP	+0.04
49	78	02/95	C/L Speci	VOL		0.51	9TH TSP	-17.24
		02/95	C/L Speci	VOL		0.54	9TH TSP	-15.64

Total Indications Found = 1993

Total Tubes Found = 1087

ATTACHMENT 5

BWNT TUBAN II (Version 2.1)

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Catawba Nuclear Station - Unit One

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #5

COUNT ROW COL

1.	1	1
2.	1	18
3.	1	34
4.	2	80
5.	2	108
6.	3	35
7.	3	50
8.	3	86
9.	3	96
10.	4	85
11.	5	92
12.	5	108
13.	6	46
14.	6	60
15.	6	86
16.	6	92
17.	6	107
18.	6	113
19.	7	25
20.	7	32
21.	7	47
22.	7	71
23.	7	95
24.	7	101
25.	8	79
26.	8	102
27.	9	58
28.	9	76
29.	9	83
30.	9	105
31.	10	33
32.	10	42
33.	10	91
34.	11	74
35.	12	68
36.	12	97
37.	12	102
38.	12	107
39.	12	108
40.	12	113
41.	14	8
42.	14	27
43.	14	73
44.	15	5
45.	15	14

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #5

COUNT ROW COL

46.	18	56
47.	20	18
48.	20	78
49.	21	95
50.	21	109
51.	23	58
52.	23	65
53.	23	73
54.	23	78
55.	24	42
56.	25	77
57.	25	92
58.	27	12
59.	27	76
60.	32	55
61.	32	65
62.	32	98
63.	34	16
64.	34	18
65.	35	53
66.	37	57
67.	38	38
68.	38	85
69.	39	54
70.	40	20
71.	40	47
72.	41	27
73.	41	53
74.	41	54
75.	41	55
76.	41	63
77.	41	65
78.	41	66
79.	42	55
80.	42	65
81.	42	66
82.	43	50
83.	43	54
84.	43	55
85.	43	61
86.	43	65
87.	43	80
88.	44	34
89.	44	49
90.	44	51

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #5

COUNT ROW COL

91.	44	53
92.	44	54
93.	44	55
94.	44	57
95.	44	77
96.	44	85
97.	45	25
98.	45	59
99.	45	60
100.	45	64
101.	45	65
102.	45	78
103.	45	86
104.	45	89
105.	47	52
106.	47	59
107.	47	61
108.	47	74
109.	47	85
110.	47	86
111.	48	62
112.	48	71
113.	48	75
114.	48	80
115.	49	46
116.	49	47
117.	49	53
118.	49	54
119.	49	69
120.	49	71
121.	49	73

Total Data Items Found = 121

Total Tubes Found = 121

ATTACHMENT 6

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT # 6

COUNT ROW COL

1.	1	42
2.	1	43
3.	1	53
4.	1	88
5.	2	23
6.	2	32
7.	4	53
8.	4	57
9.	6	48
10.	6	58
11.	8	61
12.	9	6
13.	9	23
14.	9	25
15.	9	58
16.	9	68
17.	9	69
18.	9	102
19.	9	106
20.	9	107
21.	9	108
22.	10	65
23.	10	106
24.	10	107
25.	10	108
26.	10	110
27.	11	19
28.	11	52
29.	11	107
30.	11	108
31.	11	110
32.	12	55
33.	13	37
34.	15	42
35.	16	40
36.	16	85
37.	17	13
38.	18	84
39.	20	14
40.	20	103
41.	21	28
42.	22	21
43.	22	64
44.	24	62
45.	25	71

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT # 6

COUNT ROW COL

46.	26	62
47.	27	21
48.	28	87
49.	31	20
50.	32	43
51.	32	44
52.	32	48
53.	32	49
54.	33	13
55.	33	39
56.	33	57
57.	34	14
58.	36	95
59.	39	42
60.	39	89
61.	40	20
62.	40	35
63.	40	44
64.	43	34
65.	44	23
66.	44	64
67.	45	41
68.	46	58
69.	47	62
70.	47	66
71.	47	85
72.	48	65

Total Data Items Found = 72

Total Tubes Found = 72

ATTACHMENT 7

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #7

COUNT ROW COL

1.	3	2
2.	3	7
3.	3	51
4.	4	6
5.	4	7
6.	4	8
7.	4	50
8.	4	52
9.	4	81
10.	4	96
11.	4	98
12.	4	100
13.	4	106
14.	5	6
15.	5	18
16.	5	25
17.	5	28
18.	5	34
19.	5	42
20.	5	43
21.	5	44
22.	5	45
23.	5	46
24.	5	49
25.	5	55
26.	5	57
27.	5	62
28.	5	63
29.	5	72
30.	5	99
31.	5	113
32.	6	12
33.	6	49
34.	6	51
35.	6	54
36.	6	63
37.	6	64
38.	6	67
39.	6	69
40.	6	70
41.	6	76
42.	6	81
43.	6	94
44.	6	95
45.	6	112

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #7

COUNT ROW COL

46.	7	6
47.	7	13
48.	7	18
49.	7	33
50.	7	42
51.	7	63
52.	7	79
53.	7	83
54.	7	84
55.	7	88
56.	7	90
57.	7	93
58.	7	97
59.	8	8
60.	8	25
61.	8	26
62.	8	77
63.	8	104
64.	8	105
65.	9	7
66.	9	28
67.	9	58
68.	9	66
69.	9	79
70.	9	80
71.	9	100
72.	9	101
73.	10	28
74.	10	59
75.	10	71
76.	10	76
77.	11	9
78.	11	10
79.	11	11
80.	11	17
81.	11	26
82.	11	42
83.	11	48
84.	11	63
85.	11	69
86.	12	6
87.	12	12
88.	12	13
89.	12	16
90.	12	40

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #7

COUNT ROW COL

91.	12	63
92.	12	72
93.	12	105
94.	12	108
95.	12	113
96.	13	13
97.	13	100
98.	14	56
99.	14	98
100.	16	50
101.	17	22
102.	17	52
103.	17	77
104.	17	80
105.	17	107
106.	18	24
107.	18	60
108.	20	6
109.	20	18
110.	20	61
111.	21	70
112.	21	81
113.	22	14
114.	22	22
115.	22	51
116.	23	8
117.	23	66
118.	24	7
119.	24	50
120.	25	68
121.	26	10
122.	26	11
123.	26	18
124.	26	71
125.	26	98
126.	26	103
127.	26	106
128.	27	43
129.	28	63
130.	29	62
131.	30	13
132.	30	23
133.	32	44
134.	32	46
135.	32	97

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR REPAIR LIST

ATTACHMENT #7

COUNT ROW COL

136.	33	60
137.	33	63
138.	34	13
139.	35	96
140.	36	54
141.	36	77
142.	37	90
143.	38	46
144.	38	61
145.	38	70
146.	39	43
147.	41	53
148.	42	72
149.	43	50
150.	47	60
151.	47	66
152.	47	76
153.	49	64
154.	49	66

Total Data Items Found = 154

Total Tubes Found = 154

ATTACHMENT 8

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR TUBE REPAIR LIST

ATTACHMENT #8

COUNT ROW COL

1.	1	38
2.	2	2
3.	2	35
4.	3	30
5.	3	80
6.	4	7
7.	4	26
8.	4	68
9.	4	112
10.	6	7
11.	6	11
12.	6	13
13.	6	47
14.	6	48
15.	6	69
16.	7	5
17.	7	17
18.	7	23
19.	7	56
20.	7	58
21.	7	65
22.	7	67
23.	8	59
24.	8	87
25.	9	64
26.	9	69
27.	10	5
28.	11	29
29.	12	64
30.	12	98
31.	12	105
32.	13	3
33.	14	25
34.	14	48
35.	14	74
36.	14	89
37.	14	106
38.	15	69
39.	16	97
40.	18	64
41.	18	101
42.	18	102
43.	19	26
44.	19	72
45.	19	76

BWNT TUBAN II (Version 2.1)

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STEAM GENERATOR TUBE REPAIR LIST

ATTACHMENT #8

COUNT ROW COL

46.	19	81
47.	21	35
48.	21	73
49.	22	89
50.	24	39
51.	24	100
52.	29	29
53.	29	47
54.	29	93
55.	29	94
56.	29	98
57.	30	104
58.	32	66
59.	34	93
60.	38	57
61.	38	72
62.	39	79
63.	39	92
64.	40	61
65.	40	62
66.	40	65
67.	42	25
68.	42	91
69.	43	25
70.	43	40
71.	44	32
72.	45	38
73.	45	78

Total Data Items Found = 73

Total Tubes Found = 73