

# ***Steam Generator Outage Summary Report***

## ***McGuire Unit 1 1993 Outage EOC 8***

Location: Hwy. 73, Cowans Ford, North Carolina 28216

NRC Docket No. 50-369

National Board No. 44

Commercial Service Date: December 1, 1981

Owner: Duke Energy Corporation  
526 South Church St.  
Charlotte, N.C. 28201-1006

Revision 0

Prepared By: *Archie W. Crisp* Date: *2/23/00*

Reviewed By: *DB Mays* Date: *2/24/00*

Approved By: *Thomas Sample* Date: *2/24/00*

Copy No. *1* Assigned To: *NRC Document Control*

Controlled: *X* Uncontrolled:

***Controlled Distribution***

<u>Copy No.</u>	<u>Assigned To</u>
Original	McGuire Nuclear Station Document Control Master File MC 1201.35
1	NRC Document Control

***Uncontrolled Distribution***

2	Hartford Steam Boiler Inspection and Insurance Company (AIA)
3	State of North Carolina Department of Labor C/o J. M. Givens, Jr.

**FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**

**As required by the Provisions of the ASME Code Rules**

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006  
(Name and Address of Owner)
2. Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N. C. 28216  
(Name and Address of Plant)
3. Plant Unit: 1      4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: December 1, 1981
6. National Board Number for Unit 44
7. Components Inspected:

<u>Component</u>	<u>Manufacturer</u>	<u>Manufacturer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Steam Generator 1A	Westinghouse	1461	NC-178375	68-107
Steam Generator 1B	Westinghouse	1462	NC-178376	68-108
Steam Generator 1C	Westinghouse	1463	NC-178377	68-109
Steam Generator 1D	Westinghouse	1464	NC-178378	68-110

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8<sup>1</sup>/<sub>2</sub> in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

- 8. Examination Dates March 12, 1993 to June 13, 1993
- 9. Inspection Period Identification: 1<sup>st</sup> Period of the 2<sup>nd</sup> Interval
- 10. Inspection Interval Identification: 2<sup>nd</sup> Interval
- 11. Applicable Edition of Section XI 1986 Addenda None
- 12. Date/Revision of Inspection Plan: Tech Spec 3-4.4.5 Steam Generator 2/1/93 Revision

- 13. Abstract of Examinations and Test. Reference attached NRC Inspection Report dated 3/1/94.
- 14. Abstract of Results of Examination and Tests. Reference attached NRC Inspection Report dated 3/1/94.
- 15. Abstract of Corrective Measures. Reference attached NRC Inspection Report dated 3/1/94.

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA  
 Date 2-24 <sup>2000</sup> ~~19~~ Signed Duke Energy Corp. By Morris Sample  
 Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of N.C. employed by \*The HSBI&I Co. of Hartford, CT have inspected the components described in this Owners Report during the period 3-12-93 to 6-13-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owners Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, test, and corrective measures described in this Owners Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

R. D. Klein Commissions NB 7728, NC 853, N-1  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date 2-28 <sup>19</sup> 2000

\* The Hartford Steam Boiler Inspection & Insurance Co.  
 200 Ashford Center North  
 Suite 300  
 Atlanta, GA. 30338

Duke Power Company  
McGuire Nuclear Station  
12700 Hagers Ferry Road  
Huntersville, NC 28078-8985

(704)875-4000



**DUKE POWER**

March 1, 1994

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

Subject: McGuire Nuclear Station, Docket No. 50-369  
Unit 1 EOC-8 Refueling Outage, April 1993  
Steam Generators  
NRC Inspection Report - 12 Month

Pursuant to McGuire Technical Specification 4.4.5.5b, this report is submitted for McGuire Unit 1 EOC-8 Refueling Outage. The following quantity of tubes were inspected and plugged or repaired from either side of the generator:

<u>Steam Generator</u>	<u>Tubes Inspected Full Length</u>	<u>Number of Tubes Plugged or Repaired</u>
A	4324	35
B	4306	61
C	4290	44
D	4303	74

Information concerning tube indications of imperfections, locations, and size are provided as attachments 1, 2, 3 and 4. Tubes removed from service by plugging and repaired by sleeving are identified in attachments 5, 6, 7 and 8.

Questions or problems should be directed to Kay Crane, Regulatory Compliance at (704) 875-4306.

Very truly yours,

A handwritten signature in black ink, appearing to read 'T. C. McMeekin'.

T. C. McMeekin, Vice President  
McGuire Nuclear Station

Attachments

030194A  
B61

U. S. Nuclear Regulatory Commission  
Document Control Desk  
March 1, 1994  
Page 2

cc: Mr. Victor Nerses, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. S. D. Ebnetter, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW - Suite 2900  
Atlanta, Georgia 30323

Mr. George Maxwell  
Senior Resident Inspector  
McGuire Nuclear Site

U. S. Nuclear Regulatory Commission  
Document Control Desk  
March 1, 1994  
Page 3

cc: C. C. Dyer  
R. O. Sharpe  
EC050 - ELL

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G A  
 4/93 RFO

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

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS  
 REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
2	8	4/93 RFO	Bobbin	ADS	3.64	9TH TSP	+35.67
		4/93 RFO	Bobbin	ADS	4.43	15TH TSP	+16.23
		4/93 RFO	Bobbin	ADS	5.88	15TH TSP	+11.86
		4/93 RFO	C/L Special Int	VOL	0.22	9TH TSP	+21.29
		4/93 RFO	C/L Special Int	VOL	0.34	9TH TSP	+30.04
		4/93 RFO	C/L Special Int	VOL	0.39	15TH TSP	+11.80
		4/93 RFO	C/L Special Int	VOL	0.42	15TH TSP	+16.20
2	17	4/93 RFO	C/L Special Int	VOL	0.28	20TH TSP	+2.07
2	36	4/93 RFO	Bobbin	ADS	6.72	2ND TSP	+39.40
		4/93 RFO	H/L Special Int	VOL	0.57	2ND TSP	+39.40
2	47	4/93 RFO	U-Bend	SAI	0.43	7TH TSP	+1.07
2	110	4/93 RFO	H/L Tubesheet	SAI	1.41	TTS-HL	-1.51
3	16	4/93 RFO	C/L Special Int	VOL	0.26	9TH TSP	+21.25
4	70	4/93 RFO	C/L Special Int	VOL	0.32	17TH TSP	+9.11
4	78	4/93 RFO	Bobbin	IDI	17.25	TE-HL	+12.88
		4/93 RFO	H/L Special Int	MAI	4.09	TE-HL	+13.56
4	93	4/93 RFO	Bobbin	IDI	15.02	TE-HL	+16.72
		4/93 RFO	H/L Tubesheet	MAI	4.15	TTS-HL	-4.06
		4/93 RFO	H/L Special Int	MAI	3.87	TTS-HL	-4.24
4	109	4/93 RFO	Bobbin	NQI	0.40	3RD TSP	-0.08
5	25	4/93 RFO	Bobbin	ADS	3.92	3RD TSP	+33.72
		4/93 RFO	H/L Special Int	VOL	0.21	4TH TSP	-11.21
5	62	4/93 RFO	Bobbin	IDI	4.96	TE-HL	+15.92
		4/93 RFO	H/L Tubesheet	SAI	1.84	TTS-HL	-5.27
		4/93 RFO	H/L Special Int	SAI	2.70	TE-HL	+15.91
5	108	4/93 RFO	Bobbin	IDI	2.37	TE-HL	+15.73
		4/93 RFO	H/L Tubesheet	SAI	1.83	TTS-HL	-5.07
		4/93 RFO	H/L Special Int	SAI	0.34	TE-HL	+11.22
		4/93 RFO	H/L Special Int	SAI	1.71	TE-HL	+15.90
6	20	4/93 RFO	C/L Special Int	VOL	0.20	TTS-CL	+7.35
		4/93 RFO	C/L Special Int	VOL	0.28	TTS-CL	+13.52
6	55	4/93 RFO	C/L Special Int	VOL	0.67	9TH TSP	+15.53
6	58	4/93 RFO	Bobbin	ODI	0.66	6TH TSP	+34.81
		4/93 RFO	H/L Special Int	VOL	0.15	7TH TSP	-9.18
6	69	4/93 RFO	Bobbin	NQI	0.94	12TH TSP	+12.54
		4/93 RFO	C/L Special Int	VOL	0.38	12TH TSP	+12.55
6	104	4/93 RFO	C/L Special Int	VOL	0.50	8TH TSP	-14.58
6	105	4/93 RFO	Bobbin	ODI	0.59	4TH TSP	+0.04
6	107	4/93 RFO	C/L Special Int	VOL	0.26	11TH TSP	+12.32
7	51	4/93 RFO	H/L Tubesheet	SAI	0.30	TTS-HL	-0.05
8	39	4/93 RFO	Bobbin	ADS	5.72	5TH TSP	+12.61
		4/93 RFO	H/L Special Int	VOL	0.44	5TH TSP	+12.54
8	44	4/93 RFO	Bobbin	NQI	0.20	16TH TSP	-0.05
8	46	4/93 RFO	C/L Special Int	VOL	0.26	12TH TSP	+11.15
9	17	4/93 RFO	Bobbin	ADS	7.16	4TH TSP	+38.71
		4/93 RFO	H/L Special Int	VOL	0.66	5TH TSP	-8.00
		4/93 RFO	H/L Special Int	VOL	1.07	5TH TSP	-5.27
9	59	4/93 RFO	C/L Special Int	VOL	0.13	10TH TSP	+23.63
9	93	4/93 RFO	C/L Special Int	VOL	0.33	17TH TSP	+17.66
9	98	4/93 RFO	H/L Tubesheet	SAI	0.35	TTS-HL	-0.01
9	100	4/93 RFO	H/L Tubesheet	SAI	0.22	TTS-HL	+0.03
10	9	4/93 RFO	C/L Special Int	VOL	0.17	9TH TSP	+13.83
		4/93 RFO	C/L Special Int	VOL	0.65	20TH TSP	+4.21
10	13	4/93 RFO	Bobbin	NQI	0.72	TTS-CL	+3.63
10	22	4/93 RFO	Bobbin	IDI	0.72	TE-HL	+17.00
		4/93 RFO	Bobbin	NQI	0.22	1ST TSP	-0.13
10	26	4/93 RFO	C/L Special Int	MAI	0.21	20TH TSP	-3.79
10	88	4/93 RFO	H/L Special Int	VOL	2.08	1ST TSP	+20.35
10	113	4/93 RFO	H/L Tubesheet	SAI	0.31	TTS-HL	+0.00
		4/93 RFO	C/L Special Int	SCI	2.13	8TH TSP	-1.73
11	47	4/93 RFO	Bobbin	NQI	1.11	4TH TSP	+0.36
11	71	4/93 RFO	C/L Special Int	VOL	0.20	12TH TSP	+15.58
11	89	4/93 RFO	H/L Special Int	VOL	0.34	1ST TSP	+0.00
12	24	4/93 RFO	H/L Tubesheet	MAI	0.60	TTS-HL	-5.04
13	27	4/93 RFO	Bobbin	ODI	0.84	1ST TSP	+3.50



\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS  
 REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		4/93 RFO	H/L Special Int	VOL	0.68	1ST TSP	+4.13
13	33	4/93 RFO	C/L Special Int	VOL	0.33	12TH TSP	+12.51
13	48	4/93 RFO	Bobbin	IDI	6.90	TE-HL	+2.18
		4/93 RFO	H/L Special Int	SAI	3.60	TE-HL	+3.30
13	85	4/93 RFO	H/L Tubesheet	SAI	0.33	TTS-HL	-0.13
14	25	4/93 RFO	Bobbin	ODI	2.64	TE-HL	+1.72
		4/93 RFO	H/L Tubesheet	VOL	0.24	TTS-HL	+0.06
14	61	4/93 RFO	C/L Special Int	VOL	0.31	8TH TSP	-5.51
		4/93 RFO	C/L Special Int	VOL	0.24	11TH TSP	+8.31
14	63	4/93 RFO	Bobbin	NOI	1.02	10TH TSP	+30.12
		4/93 RFO	C/L Special Int	VOL	0.14	10TH TSP	+29.14
14	64	4/93 RFO	C/L Special Int	VOL	0.45	9TH TSP	+18.50
14	68	4/93 RFO	Bobbin	ODI	1.15	2ND TSP	+8.25
		4/93 RFO	H/L Special Int	VOL	1.07	2ND TSP	+8.18
		4/93 RFO	C/L Special Int	VOL	0.23	17TH TSP	+13.93
14	71	4/93 RFO	H/L Special Int	VOL	3.27	4TH TSP	+33.02 to +38.73
14	76	4/93 RFO	Bobbin	ADS	3.29	3RD TSP	+14.81
		4/93 RFO	H/L Tubesheet	SAI	0.52	TTS-HL	+0.04
14	84	4/93 RFO	Bobbin	NOI	0.83	TTS-CL	+25.28
		4/93 RFO	C/L Special Int	VOL	0.36	TTS-CL	+25.55
14	92	4/93 RFO	Bobbin	ADS	7.46	11TH TSP	+8.54
		4/93 RFO	H/L Tubesheet	SAI	0.35	TTS-HL	-0.15
		4/93 RFO	C/L Special Int	VOL	0.33	11TH TSP	+10.10
14	93	4/93 RFO	C/L Special Int	VOL	0.74	10TH TSP	-9.30
14	106	4/93 RFO	C/L Special Int	VOL	0.35	17TH TSP	+12.99
14	110	4/93 RFO	Bobbin	ADS	3.83	2ND TSP	+31.31
15	32	4/93 RFO	Bobbin	ADS	5.26	17TH TSP	+4.47
15	55	4/93 RFO	C/L Special Int	VOL	0.81	8TH TSP	-11.49
		4/93 RFO	C/L Special Int	VOL	0.20	11TH TSP	+5.21
15	63	4/93 RFO	C/L Special Int	VOL	0.16	11TH TSP	+30.04
16	49	4/93 RFO	H/L Tubesheet	SAI	0.52	TTS-HL	-0.06
16	95	4/93 RFO	Bobbin	IDI	11.68	TE-HL	+10.20
		4/93 RFO	H/L Special Int	MAI	1.31	TTS-HL	-10.55
16	104	4/93 RFO	Bobbin	IDI	9.68	TE-HL	+2.93
		4/93 RFO	H/L Special Int	MAI	1.18	TE-HL	+3.54
17	43	4/93 RFO	C/L Special Int	VOL	0.16	9TH TSP	+23.57
17	82	4/93 RFO	C/L Special Int	VOL	0.38	17TH TSP	+5.73
18	5	4/93 RFO	H/L Tubesheet	VOL	0.25	TTS-HL	+0.38
18	92	4/93 RFO	Bobbin	IDI	8.91	TE-HL	+14.21
		4/93 RFO	H/L Special Int	MAI	0.59	TTS-HL	-7.10
19	84	4/93 RFO	C/L Special Int	VOL	0.33	17TH TSP	+10.58
19	92	4/93 RFO	H/L Special Int	VOL	0.30	1ST TSP	+0.18
19	105	4/93 RFO	Bobbin	IDI	3.99	TE-HL	+7.01
		4/93 RFO	H/L Special Int	SAI	1.40	TE-HL	+7.43
20	52	4/93 RFO	Bobbin	NOI	0.75	1ST TSP	+0.08
20	84	4/93 RFO	Bobbin	IDI	11.09	TE-HL	+4.19
		4/93 RFO	H/L Special Int	SAI	2.33	TE-HL	+3.98
20	86	4/93 RFO	Bobbin	IDI	10.94	TE-HL	+13.02
		4/93 RFO	H/L Special Int	SAI	1.90	TE-HL	+13.06
21	23	4/93 RFO	C/L Special Int	VOL	0.89	17TH TSP	+0.00
21	54	4/93 RFO	C/L Special Int	VOL	0.26	9TH TSP	+19.19
		4/93 RFO	C/L Special Int	VOL	1.04	9TH TSP	+12.52
21	64	4/93 RFO	Bobbin	ADS	5.10	9TH TSP	+30.23
21	75	4/93 RFO	Bobbin	ADS	3.63	12TH TSP	+12.03
		4/93 RFO	C/L Special Int	VOL	0.34	12TH TSP	+12.57
21	78	4/93 RFO	Bobbin	IDI	9.43	TE-HL	+13.92
		4/93 RFO	H/L Special Int	MAI	2.60	TE-HL	+14.02
21	89	4/93 RFO	H/L Special Int	VOL	0.33	1ST TSP	+0.15
22	33	4/93 RFO	Bobbin	ODI	1.13	6TH TSP	+6.71
		4/93 RFO	H/L Special Int	VOL	0.68	6TH TSP	+5.92
22	84	4/93 RFO	C/L Special Int	ODI	0.21	9TH TSP	+0.31
		4/93 RFO	C/L Special Int	VOL	0.14	9TH TSP	+8.18
		4/93 RFO	C/L Special Int	VOL	0.15	9TH TSP	+11.37
		4/93 RFO	C/L Special Int	VOL	0.18	9TH TSP	-4.37
		4/93 RFO	C/L Special Int	VOL	0.19	9TH TSP	+9.81

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS  
 REPORT

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
22	85	4/93 RFO	C/L Special Int	VOL 0.14	20TH TSP	+5.40
22	86	4/93 RFO	H/L Tubesheet	SAI 0.92	TTS-HL	-3.80
23	9	4/93 RFO	C/L Special Int	VOL 0.15	11TH TSP	+11.30
		4/93 RFO	C/L Special Int	VOL 0.52	11TH TSP	+36.06
23	16	4/93 RFO	Bobbin	ODI 0.70	11TH TSP	+19.40
		4/93 RFO	C/L Special Int	VOL 0.43	11TH TSP	+19.35
23	36	4/93 RFO	C/L Special Int	VOL 1.62	16TH TSP	+8.60
23	45	4/93 RFO	C/L Special Int	VOL 0.21	12TH TSP	+10.50
23	52	4/93 RFO	C/L Special Int	VOL 0.35	11TH TSP	+12.16
23	61	4/93 RFO	Bobbin	ADS 5.31	10TH TSP	+13.62
		4/93 RFO	Bobbin	ADS 8.44	10TH TSP	+26.40
		4/93 RFO	Bobbin	ADS 10.71	10TH TSP	+11.21
		4/93 RFO	C/L Special Int	VOL 1.06	10TH TSP	+10.26
23	89	4/93 RFO	H/L Special Int	VOL 0.26	1ST TSP	+0.06
25	36	4/93 RFO	Bobbin	ADS 14.98	9TH TSP	+21.85
		4/93 RFO	Bobbin	ADS 15.95	8TH TSP	+22.04
		4/93 RFO	C/L Special Int	VOL 4.14	8TH TSP	-23.29
25	71	4/93 RFO	C/L Special Int	VOL 0.22	10TH TSP	-2.74
25	85	4/93 RFO	Bobbin	IDI 5.39	TE-HL	+16.74
		4/93 RFO	H/L Tubesheet	SAI 2.66	TTS-HL	-4.76
		4/93 RFO	H/L Special Int	SAI 2.56	TE-HL	+16.80
26	26	4/93 RFO	C/L Special Int	VOL 0.30	12TH TSP	+5.16
26	37	4/93 RFO	Bobbin	ADS 9.92	9TH TSP	+2.68
		4/93 RFO	C/L Special Int	VOL 3.82	9TH TSP	+2.51
26	42	4/93 RFO	C/L Special Int	VOL 0.26	9TH TSP	+20.50
26	62	4/93 RFO	H/L Tubesheet	SAI 0.29	TTS-HL	+0.00
26	64	4/93 RFO	Bobbin	IDI 8.69	TE-HL	+13.92
		4/93 RFO	H/L Special Int	MAI 2.79	TE-HL	+13.76
26	82	4/93 RFO	Bobbin	IDI 24.52	TE-HL	+15.88
		4/93 RFO	H/L Special Int	SAI 0.54	TE-HL	+2.97
		4/93 RFO	H/L Special Int	SAI 6.96	TE-HL	+15.48
26	84	4/93 RFO	Bobbin	IDI 31.50	TE-HL	+15.05
		4/93 RFO	Bobbin	IDI 49.56	TE-HL	+14.15
		4/93 RFO	H/L Special Int	MAI 6.84	TE-HL	+14.29
		4/93 RFO	H/L Special Int	SAI 5.74	TE-HL	+15.31
26	106	4/93 RFO	C/L Special Int	VOL 0.23	TTS-CL	+18.69
27	34	4/93 RFO	H/L Tubesheet	VOL 0.61	TTS-HL	+0.65
27	72	4/93 RFO	Bobbin	ODI 1.90	12TH TSP	+20.49
		4/93 RFO	C/L Special Int	VOL 0.31	12TH TSP	+20.50
		4/93 RFO	C/L Special Int	VOL 0.54	11TH TSP	+0.00
28	82	4/93 RFO	H/L Tubesheet	SAI 0.55	TTS-HL	+0.00
28	94	4/93 RFO	Bobbin	ADS 2.10	3RD TSP	+40.84
		4/93 RFO	Bobbin	ADS 3.29	3RD TSP	+34.01
		4/93 RFO	Bobbin	ADS 5.01	4TH TSP	+25.33
		4/93 RFO	H/L Special Int	VOL 0.39	4TH TSP	-10.09
		4/93 RFO	H/L Special Int	VOL 0.50	5TH TSP	-18.54
29	44	4/93 RFO	C/L Special Int	VOL 0.14	14TH TSP	+5.30
29	65	4/93 RFO	Bobbin	NOI 9.48	TTS-CL	+0.23
29	80	4/93 RFO	Bobbin	IDI 8.83	TE-HL	+12.90
		4/93 RFO	Bobbin	ODI 0.83	2ND TSP	+24.45
		4/93 RFO	H/L Special Int	SAI 5.32	TE-HL	+12.91
		4/93 RFO	H/L Special Int	VOL 0.35	2ND TSP	+24.14
30	72	4/93 RFO	Bobbin	WAR 1.36	3AVB	+0.00
30	88	4/93 RFO	H/L Special Int	VOL 0.32	7TH TSP	+1.04
31	46	4/93 RFO	C/L Special Int	VOL 0.20	10TH TSP	+8.38
32	58	4/93 RFO	C/L Special Int	VOL 0.40	11TH TSP	+19.45
33	27	4/93 RFO	Bobbin	ODI 0.47	19TH TSP	+3.26
		4/93 RFO	C/L Special Int	VOL 0.71	8TH TSP	-9.51
		4/93 RFO	C/L Special Int	VOL 0.14	17TH TSP	+4.23
		4/93 RFO	C/L Special Int	VOL 0.23	19TH TSP	+3.14
33	50	4/93 RFO	Bobbin	NOI 0.56	1ST TSP	+0.00
34	26	4/93 RFO	C/L Special Int	VOL 0.32	9TH TSP	+3.53
34	53	4/93 RFO	Bobbin	WAR 1.56	1AVB	+0.00
34	68	4/93 RFO	Bobbin	IDI 23.57	TE-HL	+16.68
		4/93 RFO	H/L Tubesheet	MAI 2.16	TTS-HL	-4.25

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS  
 REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		4/93 RFO	H/L Special Int	MAI	1.30	TE-HL	+17.08
34	95	4/93 RFO	Bobbin	ADS	5.45	9TH TSP	+16.12
		4/93 RFO	Bobbin	ADS	5.65	9TH TSP	+16.73
		4/93 RFO	Bobbin	ADS	8.26	17TH TSP	+15.32
		4/93 RFO	Bobbin	NQI	2.54	17TH TSP	+14.94
		4/93 RFO	C/L Special Int	VOL	0.26	9TH TSP	+16.15
		4/93 RFO	C/L Special Int	VOL	0.27	17TH TSP	+15.32
35	29	4/93 RFO	H/L Tubesheet	MAI	0.47	TTS-HL	-4.01
35	39	4/93 RFO	C/L Special Int	VOL	0.26	10TH TSP	+34.32
35	55	4/93 RFO	Bobbin	WAR	0.91	1AVB	+0.00
35	76	4/93 RFO	Bobbin	IDI	5.47	TE-HL	+16.88
		4/93 RFO	H/L Tubesheet	SAI	1.22	TTS-HL	-4.09
		4/93 RFO	H/L Special Int	SAI	1.58	TE-HL	+17.16
36	25	4/93 RFO	C/L Special Int	VOL	0.28	17TH TSP	+5.18
36	31	4/93 RFO	Bobbin	ODI	0.93	12TH TSP	+20.58
36	34	4/93 RFO	Bobbin	WAR	0.71	1AVB	+0.00
		4/93 RFO	Bobbin	ODI	0.99	3RD TSP	+11.90
		4/93 RFO	Bobbin	ODI	1.68	2ND TSP	+39.71
		4/93 RFO	H/L Special Int	VOL	0.44	3RD TSP	+11.90
		4/93 RFO	H/L Special Int	VOL	0.84	2ND TSP	+39.71
36	35	4/93 RFO	Bobbin	WAR	0.86	2AVB	+0.00
36	60	4/93 RFO	H/L Special Int	VOL	0.76	1ST TSP	+0.20
36	70	4/93 RFO	Bobbin	ADS	3.36	TTS-HL	+10.45
		4/93 RFO	H/L Special Int	VOL	0.25	TTS-HL	+9.49
36	72	4/93 RFO	H/L Tubesheet	MAI	0.42	TTS-HL	+0.03
36	81	4/93 RFO	C/L Special Int	VOL	0.27	10TH TSP	-11.77
36	89	4/93 RFO	Bobbin	ADS	8.20	TTS-HL	+2.55
		4/93 RFO	H/L Special Int	VOL	0.29	TTS-HL	+2.12
36	98	4/93 RFO	Bobbin	ODI	2.02	TTS-CL	+9.95
		4/93 RFO	C/L Special Int	VOL	0.51	TTS-CL	+9.95
37	16	4/93 RFO	Bobbin	WAR	0.78	4AVB	+0.00
		4/93 RFO	Bobbin	WAR	1.20	2AVB	+0.00
		4/93 RFO	Bobbin	WAR	1.42	3AVB	+0.00
37	18	4/93 RFO	C/L Special Int	VOL	0.16	17TH TSP	+11.56
37	24	4/93 RFO	Bobbin	WAR	0.82	3AVB	+0.00
37	28	4/93 RFO	H/L Tubesheet	MAI	1.48	TTS-HL	-4.02
37	29	4/93 RFO	Bobbin	IDI	14.16	TE-HL	+9.12
		4/93 RFO	H/L Special Int	MAI	1.48	TE-HL	+9.12
37	94	4/93 RFO	Bobbin	ADS	3.63	12TH TSP	+18.27
38	18	4/93 RFO	C/L Special Int	VOL	0.14	10TH TSP	-7.32
38	36	4/93 RFO	C/L Special Int	VOL	1.83	16TH TSP	-1.32
38	40	4/93 RFO	C/L Special Int	VOL	0.19	10TH TSP	+17.13
		4/93 RFO	C/L Special Int	VOL	0.36	10TH TSP	+13.64
38	47	4/93 RFO	Bobbin	WAR	0.67	2AVB	+0.00
38	72	4/93 RFO	C/L Special Int	VOL	0.18	9TH TSP	+5.78
38	92	4/93 RFO	Bobbin	ADS	6.36	2ND TSP	+22.23
		4/93 RFO	H/L Special Int	VOL	0.66	2ND TSP	+21.86
38	95	4/93 RFO	Bobbin	ADS	6.32	18TH TSP	+4.54
		4/93 RFO	C/L Special Int	VOL	0.30	18TH TSP	+4.37
39	51	4/93 RFO	Bobbin	NQI	0.34	1ST TSP	-0.11
39	94	4/93 RFO	C/L Special Int	VOL	0.31	9TH TSP	+9.55
		4/93 RFO	C/L Special Int	VOL	0.37	9TH TSP	+27.17
		4/93 RFO	C/L Special Int	VOL	0.24	10TH TSP	+40.01
39	95	4/93 RFO	Bobbin	NQI	0.53	TTS-HL	+24.12
		4/93 RFO	Bobbin	ADS	4.44	5TH TSP	+36.55
		4/93 RFO	H/L Special Int	VOL	0.22	6TH TSP	-7.82
40	23	4/93 RFO	Bobbin	ADS	4.52	6TH TSP	+13.53
		4/93 RFO	H/L Special Int	VOL	0.39	6TH TSP	+12.66
40	45	4/93 RFO	H/L Tubesheet	SAI	0.09	TTS-HL	-0.01
40	51	4/93 RFO	Bobbin	WAR	2.73	1AVB	+0.00
40	67	4/93 RFO	C/L Special Int	VOL	1.47	8TH TSP	-2.14
40	76	4/93 RFO	C/L Special Int	VOL	0.94	10TH TSP	+21.25
40	86	4/93 RFO	Bobbin	WAR	1.14	3AVB	+0.00
		4/93 RFO	Bobbin	WAR	1.49	2AVB	+0.00
40	87	4/93 RFO	Bobbin	ODI	1.46	12TH TSP	+5.67

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		4/93 RFO	C/L Special Int	VOL	0.12	TTS-CL	+6.40
41	54	4/93 RFO	Bobbin	WAR	1.18	2AVB	+0.00
41	59	4/93 RFO	Bobbin	WAR	0.75	2AVB	+0.00
		4/93 RFO	Bobbin	WAR	2.81	1AVB	+0.00
41	65	4/93 RFO	C/L Special Int	VOL	1.89	TTS-CL	+11.65
41	70	4/93 RFO	Bobbin	WAR	0.43	1AVB	+0.00
42	22	4/93 RFO	C/L Special Int	VOL	0.80	14TH TSP	+7.42
42	24	4/93 RFO	Bobbin	WAR	1.22	2AVB	+0.00
42	43	4/93 RFO	Bobbin	WAR	0.48	3AVB	+0.00
		4/93 RFO	Bobbin	WAR	0.66	2AVB	+0.00
		4/93 RFO	Bobbin	WAR	0.99	1AVB	+0.00
42	56	4/93 RFO	Bobbin	ODI	1.72	1ST TSP	+13.07
		4/93 RFO	H/L Special Int	VOL	0.70	1ST TSP	+13.00
42	57	4/93 RFO	Bobbin	WAR	1.59	1AVB	+0.00
43	32	4/93 RFO	Bobbin	ADS	7.28	4TH TSP	+23.21
		4/93 RFO	H/L Special Int	VOL	0.53	4TH TSP	+22.77
43	38	4/93 RFO	C/L Special Int	VOL	2.63	10TH TSP	-6.18
43	57	4/93 RFO	Bobbin	WAR	1.58	1AVB	+0.00
43	58	4/93 RFO	C/L Special Int	VOL	3.75	17TH TSP	+16.55
43	63	4/93 RFO	C/L Special Int	VOL	0.75	11TH TSP	+14.82
43	74	4/93 RFO	Bobbin	NQI	0.37	2ND TSP	-0.03
43	87	4/93 RFO	Bobbin	NQI	1.38	9TH TSP	+6.88
		4/93 RFO	C/L Special Int	VOL	0.42	9TH TSP	+6.88
44	28	4/93 RFO	Bobbin	ADS	5.30	2ND TSP	+14.65
44	34	4/93 RFO	Bobbin	ADS	3.46	3RD TSP	+21.42
44	39	4/93 RFO	Bobbin	ODI	0.55	1ST TSP	-0.11
		4/93 RFO	H/L Special Int	SAI	0.18	1ST TSP	-0.11
44	81	4/93 RFO	H/L Special Int	VOL	0.23	1ST TSP	+0.25
45	77	4/93 RFO	C/L Special Int	VOL	0.49	16TH TSP	+9.01
46	31	4/93 RFO	Bobbin	ODI	1.28	9TH TSP	+34.31
		4/93 RFO	C/L Special Int	VOL	0.67	8TH TSP	-10.45
46	41	4/93 RFO	H/L Tubesheet	SAI	0.34	TTS-HL	-5.79
46	47	4/93 RFO	C/L Special Int	VOL	0.18	TTS-CL	+22.93
46	78	4/93 RFO	Bobbin	ADS	3.81	2ND TSP	+33.10
		4/93 RFO	H/L Special Int	VOL	0.62	2ND TSP	+32.55
46	81	4/93 RFO	C/L Special Int	VOL	0.39	9TH TSP	+24.18
47	56	4/93 RFO	Bobbin	WAR	7.36	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.10	19TH TSP	+12.58
		4/93 RFO	C/L Special Int	VOL	1.09	16TH TSP	+0.23
47	57	4/93 RFO	C/L Special Int	VOL	1.88	16TH TSP	+0.00
47	58	4/93 RFO	Bobbin	WAR	4.33	14TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	11.57	14TH TSP	+0.00
47	59	4/93 RFO	Bobbin	WAR	4.11	14TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	7.51	14TH TSP	+0.00
47	60	4/93 RFO	Bobbin	WAR	1.87	14TH TSP	-0.24
		4/93 RFO	Bobbin	WAR	4.08	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	1.88	14TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	5.36	16TH TSP	+0.00
47	61	4/93 RFO	Bobbin	ODI	1.87	16TH TSP	+0.03
		4/93 RFO	Bobbin	WAR	2.06	14TH TSP	-0.21
		4/93 RFO	C/L Special Int	VOL	4.92	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	6.55	14TH TSP	+0.00
47	70	4/93 RFO	C/L Special Int	VOL	0.15	10TH TSP	+16.73
47	77	4/93 RFO	Bobbin	ODI	1.13	16TH TSP	-0.26
48	38	4/93 RFO	C/L Special Int	VOL	3.81	16TH TSP	+0.00
48	41	4/93 RFO	Bobbin	WAR	2.60	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.48	16TH TSP	+0.00
48	53	4/93 RFO	C/L Special Int	VOL	0.48	17TH TSP	+0.37
48	54	4/93 RFO	Bobbin	ODI	2.16	16TH TSP	-0.17
		4/93 RFO	C/L Special Int	VOL	1.16	16TH TSP	-0.10
48	55	4/93 RFO	Bobbin	WAR	2.88	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.66	16TH TSP	+0.00
48	56	4/93 RFO	Bobbin	WAR	3.30	16TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	3.48	12TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	5.95	14TH TSP	+0.00

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G A - ATTACHMENT #1 INDICATIONS OF PERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		4/93 RFO	C/L Special Int	VOL	0.49	17TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	1.23	12TH TSP	-0.20
		4/93 RFO	C/L Special Int	VOL	1.57	14TH TSP	-0.22
48	62	4/93 RFO	Bobbin	WAR	6.09	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	3.08	16TH TSP	+0.00
48	67	4/93 RFO	C/L Special Int	VOL	1.80	20TH TSP	+5.53
48	80	4/93 RFO	C/L Special Int	VOL	0.22	TTS-CL	+3.28
48	83	4/93 RFO	H/L Tubesheet	VOL	0.45	TTS-HL	-0.04
49	37	4/93 RFO	Bobbin	WAR	1.69	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	3.15	16TH TSP	+0.00
49	38	4/93 RFO	Bobbin	WAR	4.17	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	8.30	16TH TSP	+0.00
49	40	4/93 RFO	Bobbin	WAR	3.50	17TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	4.61	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.70	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	1.01	17TH TSP	+0.00
49	41	4/93 RFO	Bobbin	WAR	3.97	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	1.04	16TH TSP	+0.00
49	42	4/93 RFO	Bobbin	WAR	6.07	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	1.67	16TH TSP	+0.00
49	43	4/93 RFO	Bobbin	WAR	3.77	17TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	4.27	15TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	4.46	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.44	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.83	15TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.99	17TH TSP	+0.00
49	46	4/93 RFO	Bobbin	ADS	4.73	4TH TSP	+19.86
		4/93 RFO	Bobbin	ODI	1.16	3RD TSP	+23.33
		4/93 RFO	H/L Special Int	VOL	0.48	3RD TSP	+23.67
49	50	4/93 RFO	Bobbin	WAR	4.90	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	0.81	16TH TSP	+0.00
49	53	4/93 RFO	Bobbin	ADS	3.04	2ND TSP	+41.54
		4/93 RFO	Bobbin	WAR	4.67	17TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	5.02	19TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	5.91	16TH TSP	+0.00
		4/93 RFO	H/L Special Int	VOL	0.14	3RD TSP	-3.22
		4/93 RFO	C/L Special Int	VOL	0.45	12TH TSP	-0.21
		4/93 RFO	C/L Special Int	VOL	0.60	16TH TSP	+0.19
		4/93 RFO	C/L Special Int	VOL	0.68	17TH TSP	+0.32
		4/93 RFO	C/L Special Int	VOL	0.74	14TH TSP	-0.16
		4/93 RFO	C/L Special Int	VOL	1.14	19TH TSP	+0.26
49	57	4/93 RFO	Bobbin	WAR	3.19	14TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	3.20	17TH TSP	+0.00
		4/93 RFO	Bobbin	WAR	4.13	16TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	5.11	14TH TSP	+0.00
		4/93 RFO	C/L Special Int	VOL	6.74	17TH TSP	+0.00
49	74	4/93 RFO	Bobbin	WAR	6.81	16TH TSP	+0.00

Total Indications Found = 372

Total Tubes Found = 208

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
2	22	04/93 RFO	C/L Special Int	VOL	0.29	9TH TSP	+13.09
		04/93 RFO	C/L Special Int	VOL	0.20	18TH TSP	+1.57
2	25	04/93 RFO	C/L Special Int	VOL	0.50	10TH TSP	+31.44
2	27	04/93 RFO	Bobbin	ADS	3.53	13TH TSP	+4.73
2	32	04/93 RFO	C/L Special Int	VOL	0.13	11TH TSP	+22.98
2	52	04/93 RFO	C/L Special Int	VOL	0.19	12TH TSP	+7.92
2	54	04/93 RFO	C/L Special Int	VOL	0.28	TTS-HL	+18.03
2	80	04/93 RFO	Bobbin	ADS	5.33	TTS-HL	+8.29
2	93	04/93 RFO	Bobbin	IDI	2.18	TE-HL	+1.00
2	94	04/93 RFO	Bobbin	IDI	3.82	TE-HL	+1.18
2	96	04/93 RFO	Bobbin	IDI	2.21	TE-HL	+1.13
2	98	04/93 RFO	Bobbin	IDI	2.42	TE-HL	+0.90
2	101	04/93 RFO	Bobbin	IDI	1.79	TE-HL	+1.10
3	1	04/93 RFO	Bobbin	IDI	13.14	TE-HL	+8.67
		04/93 RFO	H/L Special Int	MAI	1.50	TE-HL	+9.27
3	5	04/93 RFO	Bobbin	IDI	38.31	TE-HL	+9.98
		04/93 RFO	H/L Special Int	MAI	6.49	TE-HL	+10.19
3	14	04/93 RFO	U-Bend	SAI	3.34	7TH TSP	+16.52 / 8TH TSP
3	16	04/93 RFO	U-Bend	SAI	2.25	7TH TSP	+10.19
3	18	04/93 RFO	U-Bend	SAI	12.77	7TH TSP	+17.23 / 8TH TSP
3	36	04/93 RFO	U-Bend	SAI	2.21	7TH TSP	+17.37
3	39	04/93 RFO	Bobbin	IDI	3.67	TE-HL	+4.78
		04/93 RFO	H/L Special Int	MAI	2.91	TE-HL	+4.88
3	47	04/93 RFO	Bobbin	IDI	14.17	TE-HL	+7.62
		04/93 RFO	H/L Special Int	MAI	1.96	TTS-HL	-13.44
		04/93 RFO	C/L Special Int	VOL	0.19	9TH TSP	+21.41
		04/93 RFO	C/L Special Int	VOL	0.26	14TH TSP	+1.42 to +3.45
3	48	04/93 RFO	U-Bend	SAI	1.05	7TH TSP	+17.75
3	51	04/93 RFO	Bobbin	ADS	3.45	5TH TSP	+41.31
4	1	04/93 RFO	Bobbin	IDI	19.92	TE-HL	+9.17
		04/93 RFO	H/L Special Int	MAI	2.36	TE-HL	+9.70
4	9	04/93 RFO	Bobbin	ADS	6.22	6TH TSP	+28.30
		04/93 RFO	H/L Special Int	VOL	0.88	6TH TSP	+29.08
4	14	04/93 RFO	C/L Special Int	VOL	0.17	18TH TSP	+31.21
4	61	04/93 RFO	H/L Tubesheet	MAI	0.25	TTS-HL	+0.07
4	77	04/93 RFO	Bobbin	NQI	0.28	2ND TSP	-0.04
5	5	04/93 RFO	H/L Tubesheet	SAI	0.58	TTS-HL	-4.33
5	27	04/93 RFO	Bobbin	IDI	7.42	TE-HL	+15.77
		04/93 RFO	H/L Special Int	MAI	1.92	TE-HL	+15.77
		04/93 RFO	H/L Special Int	SAI	1.40	TE-HL	+7.96
5	34	04/93 RFO	C/L Special Int	VOL	0.35	TTS-CL	+1.82
5	47	04/93 RFO	H/L Tubesheet	SAI	0.32	TTS-HL	-0.03
5	48	04/93 RFO	H/L Tubesheet	SAI	0.16	TTS-HL	-2.10
5	87	04/93 RFO	C/L Special Int	SAI	0.56	10TH TSP	-0.98
5	95	04/93 RFO	C/L Special Int	VOL	0.24	12TH TSP	+3.01
6	5	04/93 RFO	C/L Special Int	VOL	0.15	16TH TSP	+3.84
6	12	04/93 RFO	C/L Special Int	VOL	0.17	11TH TSP	+6.28
6	34	04/93 RFO	Bobbin	IDI	9.72	TE-HL	+10.98
		04/93 RFO	H/L Special Int	MAI	5.13	TE-HL	+10.93
7	2	04/93 RFO	Bobbin	IDI	14.57	TE-HL	+9.55
		04/93 RFO	Bobbin	IDI	15.61	TE-HL	+3.23
		04/93 RFO	H/L Special Int	MAI	1.47	TE-HL	+9.85
		04/93 RFO	H/L Special Int	MAI	3.11	TE-HL	+2.56
7	3	04/93 RFO	H/L Tubesheet	SAI	0.23	TTS-HL	-0.09
7	22	04/93 RFO	H/L Tubesheet	MAI	0.38	TTS-HL	-3.32
7	29	04/93 RFO	Bobbin	IDI	18.69	TE-HL	+10.31
		04/93 RFO	H/L Special Int	MAI	2.71	TE-HL	+10.04
7	33	04/93 RFO	H/L Tubesheet	MAI	0.24	TTS-HL	-2.79
7	42	04/93 RFO	Bobbin	IDI	9.93	TE-HL	+17.08
		04/93 RFO	H/L Tubesheet	MAI	0.41	TTS-HL	-5.28
		04/93 RFO	H/L Special Int	MAI	0.43	TTS-HL	-3.97
7	43	04/93 RFO	Bobbin	NQI	0.64	2ND TSP	-0.07
		04/93 RFO	H/L Tubesheet	SAI	0.29	TTS-HL	-1.20
		04/93 RFO	H/L Special Int	SAI	0.39	2ND TSP	-0.06
7	91	04/93 RFO	H/L Tubesheet	MAI	0.31	TTS-HL	-0.01

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
7	96	04/93 RFO	Bobbin	IDI	2.18	TE-HL	+17.41
		04/93 RFO	H/L Tubesheet	SAI	0.24	TTS-HL	+0.00
		04/93 RFO	H/L Special Int	SAI	0.23	TTS-HL	-0.10
7	98	04/93 RFO	Bobbin	IDI	2.22	TE-HL	+11.65
7	113	04/93 RFO	Bobbin	IDI	2.61	TE-HL	+5.17
8	22	04/93 RFO	Bobbin	NQI	2.36	17TH TSP	+16.05
		04/93 RFO	C/L Special Int	VOL	0.41	17TH TSP	+16.18
8	46	04/93 RFO	Bobbin	IDI	13.45	TE-HL	+16.23
		04/93 RFO	H/L Special Int	MAI	1.55	TTS-HL	-5.51
8	55	04/93 RFO	H/L Tubesheet	NQI	1.11	TTS-HL	-0.18
8	56	04/93 RFO	Bobbin	IDI	13.90	TE-HL	+14.25
		04/93 RFO	H/L Special Int	MAI	0.59	TTS-HL	-7.22
8	74	04/93 RFO	H/L Special Int	VOL	0.51	5TH TSP	+20.17
9	3	04/93 RFO	Bobbin	IDI	14.03	TE-HL	+6.86
		04/93 RFO	H/L Special Int	MAI	7.01	TE-HL	+7.74
9	15	04/93 RFO	H/L Tubesheet	SAI	0.74	TTS-HL	+0.02
9	96	04/93 RFO	Bobbin	ADS	3.31	9TH TSP	+6.41
		04/93 RFO	Bobbin	ADS	5.08	9TH TSP	+6.58
		04/93 RFO	C/L Special Int	VOL	0.38	9TH TSP	+6.45
10	30	04/93 RFO	H/L Tubesheet	SAI	0.36	TTS-HL	+0.12
10	43	04/93 RFO	Bobbin	ADS	5.81	10TH TSP	+29.33
		04/93 RFO	C/L Special Int	VOL	0.68	10TH TSP	+29.33
10	50	04/93 RFO	Bobbin	IDI	13.29	TE-HL	+15.21
		04/93 RFO	H/L Special Int	MAI	0.31	TTS-HL	-6.49
11	8	04/93 RFO	C/L Special Int	VOL	0.33	17TH TSP	+15.39
11	15	04/93 RFO	C/L Special Int	VOL	0.26	10TH TSP	+30.65
11	25	04/93 RFO	Bobbin	ADS	2.71	9TH TSP	+34.10
		04/93 RFO	C/L Special Int	VOL	0.18	9TH TSP	+32.46
11	30	04/93 RFO	Bobbin	IDI	9.61	TE-HL	+6.38
		04/93 RFO	H/L Special Int	SAI	5.10	TE-HL	+5.95
11	31	04/93 RFO	Bobbin	ADS	4.65	10TH TSP	+20.50
11	52	04/93 RFO	Bobbin	IDI	6.98	TE-HL	+11.38
		04/93 RFO	H/L Special Int	SAI	3.96	TTS-HL	-10.67
11	86	04/93 RFO	Bobbin	IDI	30.92	TE-HL	+17.77
		04/93 RFO	H/L Tubesheet	MAI	4.45	TTS-HL	-3.22
		04/93 RFO	H/L Special Int	MAI	4.22	TTS-HL	-3.31
11	102	04/93 RFO	H/L Tubesheet	MAI	1.40	TTS-HL	-3.87
12	9	04/93 RFO	H/L Tubesheet	MAI	0.24	TTS-HL	+0.13
12	10	04/93 RFO	Bobbin	ODI	1.13	6TH TSP	+2.37
		04/93 RFO	H/L Special Int	VOL	0.70	6TH TSP	+2.81
12	18	04/93 RFO	Bobbin	IDI	9.60	TE-HL	+11.97
		04/93 RFO	H/L Special Int	SAI	4.05	TE-HL	+11.97
12	30	04/93 RFO	H/L Tubesheet	SAI	0.27	TTS-HL	+0.00
12	42	04/93 RFO	H/L Tubesheet	MAI	0.88	TTS-HL	-0.01
12	82	04/93 RFO	H/L Special Int	VOL	0.25	2ND TSP	+18.17
12	84	04/93 RFO	H/L Tubesheet	SAI	0.67	TTS-HL	-3.36
13	30	04/93 RFO	U-Bend	VOL	0.52	7TH TSP	+52.03
13	37	04/93 RFO	C/L Special Int	VOL	0.36	18TH TSP	+3.87
13	47	04/93 RFO	Bobbin	IDI	13.14	TE-HL	+4.50
		04/93 RFO	H/L Special Int	SAI	4.42	TE-HL	+3.89
13	92	04/93 RFO	Bobbin	ADS	4.33	2ND TSP	+23.70
		04/93 RFO	Bobbin	ADS	6.89	4TH TSP	+35.65
		04/93 RFO	H/L Special Int	VOL	1.06	5TH TSP	-9.51
13	98	04/93 RFO	Bobbin	IDI	54.72	TE-HL	+2.61
		04/93 RFO	H/L Special Int	MAI	4.35	TE-HL	+0.73
14	23	04/93 RFO	C/L Special Int	VOL	0.41	10TH TSP	+26.59
14	33	04/93 RFO	U-Bend	VOL	0.35	8TH TSP	+8.34
14	41	04/93 RFO	Bobbin	IDI	9.37	TE-HL	+13.72
		04/93 RFO	H/L Special Int	MAI	2.31	TTS-HL	-7.53
14	42	04/93 RFO	Bobbin	IDI	12.91	TE-HL	+16.75
		04/93 RFO	H/L Tubesheet	SAI	5.61	TTS-HL	-4.40
		04/93 RFO	H/L Special Int	SAI	4.24	TTS-HL	-4.31
14	43	04/93 RFO	H/L Tubesheet	SAI	0.33	TTS-HL	+0.00
14	47	04/93 RFO	Bobbin	IDI	8.56	TE-HL	+3.83
		04/93 RFO	Bobbin	IDI	30.23	TE-HL	+10.95

S/G B - ATTACHMENT #2 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	Bobbin	IDI	36.99	TE-HL	+4.73
		04/93 RFO	Bobbin	IDI	43.91	TE-HL	+11.95
		04/93 RFO	H/L Tubesheet	SAI	0.75	TTS-HL	+0.00
		04/93 RFO	H/L Special Int	MAI	3.02	TE-HL	+4.58
		04/93 RFO	H/L Special Int	MAI	3.84	TE-HL	+10.08
		04/93 RFO	H/L Special Int	MAI	4.24	TE-HL	+11.26
		04/93 RFO	H/L Special Int	SAI	0.34	TE-HL	+3.47
14	57	04/93 RFO	C/L Special Int	VOL	0.73	10TH TSP	+38.18
14	78	04/93 RFO	H/L Tubesheet	SAI	0.77	TTS-HL	-3.22
14	101	04/93 RFO	Bobbin	NOI	0.55	1ST TSP	-0.16
		04/93 RFO	H/L Special Int	SAI	0.28	1ST TSP	+0.00
15	3	04/93 RFO	C/L Special Int	VOL	0.56	9TH TSP	-1.99
15	6	04/93 RFO	C/L Special Int	VOL	0.44	TTS-CL	+6.89
15	15	04/93 RFO	Bobbin	IDI	3.82	TE-HL	+13.65
		04/93 RFO	H/L Special Int	SAI	0.77	TE-HL	+13.30
		04/93 RFO	H/L Special Int	SAI	3.06	TE-HL	+13.65
15	17	04/93 RFO	C/L Special Int	VOL	0.29	17TH TSP	+19.46
15	20	04/93 RFO	Bobbin	IDI	6.01	TE-HL	+6.84
		04/93 RFO	Bobbin	IDI	6.76	TE-HL	+5.88
		04/93 RFO	Bobbin	IDI	7.20	TE-HL	+11.62
		04/93 RFO	Bobbin	IDI	9.60	TE-HL	+4.91
		04/93 RFO	H/L Special Int	MAI	0.55	TE-HL	+6.84
		04/93 RFO	H/L Special Int	MAI	0.59	TE-HL	+7.99
		04/93 RFO	H/L Special Int	MAI	0.67	TE-HL	+11.62
		04/93 RFO	H/L Special Int	MAI	1.17	TE-HL	+5.88
		04/93 RFO	H/L Special Int	MAI	1.51	TE-HL	+4.91
15	32	04/93 RFO	Bobbin	IDI	9.50	TE-HL	+16.68
		04/93 RFO	H/L Tubesheet	SAI	3.78	TTS-HL	-4.51
		04/93 RFO	H/L Special Int	SAI	2.51	TE-HL	+16.68
15	36	04/93 RFO	C/L Special Int	VOL	0.13	17TH TSP	+6.20
15	50	04/93 RFO	H/L Tubesheet	SAI	0.44	TTS-HL	+0.00
15	82	04/93 RFO	C/L Special Int	VOL	0.55	14TH TSP	+9.15
15	96	04/93 RFO	C/L Special Int	VOL	0.22	11TH TSP	+29.70
		04/93 RFO	C/L Special Int	VOL	0.34	11TH TSP	+40.94
15	99	04/93 RFO	C/L Special Int	VOL	0.36	9TH TSP	+2.22
15	100	04/93 RFO	C/L Special Int	VOL	0.18	12TH TSP	+9.89
16	24	04/93 RFO	Bobbin	ADS	4.54	TTS-CL	+23.74
16	37	04/93 RFO	H/L Tubesheet	SAI	0.29	TTS-HL	+0.00
16	38	04/93 RFO	Bobbin	IDI	76.66	TE-HL	+17.02
		04/93 RFO	H/L Special Int	MAI	5.86	TE-HL	+17.02
16	43	04/93 RFO	C/L Special Int	VOL	0.13	11TH TSP	+2.61
16	55	04/93 RFO	C/L Special Int	VOL	0.26	12TH TSP	+2.84
		04/93 RFO	C/L Special Int	VOL	0.26	16TH TSP	+6.17
16	91	04/93 RFO	C/L Special Int	VOL	0.95	9TH TSP	-12.51
16	107	04/93 RFO	C/L Special Int	VOL	0.30	10TH TSP	+10.53
16	108	04/93 RFO	C/L Special Int	VOL	0.52	9TH TSP	-9.66
17	12	04/93 RFO	C/L Special Int	VOL	0.23	14TH TSP	+4.86
		04/93 RFO	C/L Special Int	VOL	0.29	14TH TSP	+0.94
17	18	04/93 RFO	C/L Special Int	VOL	0.23	9TH TSP	+5.55
17	26	04/93 RFO	Bobbin	IDI	8.59	TE-HL	+13.78
		04/93 RFO	H/L Special Int	SAI	2.53	TE-HL	+13.78
17	71	04/93 RFO	Bobbin	IDI	6.58	TE-HL	+15.90
		04/93 RFO	H/L Special Int	MAI	2.27	TE-HL	+16.43
17	80	04/93 RFO	Bobbin	IDI	25.75	TE-HL	+1.70
		04/93 RFO	H/L Special Int	MAI	1.45	TE-HL	+1.20
		04/93 RFO	H/L Special Int	MAI	2.45	TE-HL	+4.72
		04/93 RFO	H/L Special Int	SAI	1.35	TE-HL	+0.09
17	106	04/93 RFO	C/L Special Int	VOL	0.19	11TH TSP	+7.75
18	5	04/93 RFO	C/L Special Int	VOL	0.68	10TH TSP	-7.38
18	37	04/93 RFO	Bobbin	NOI	0.36	17TH TSP	-0.04
18	40	04/93 RFO	Bobbin	IDI	6.84	TE-HL	+8.79
		04/93 RFO	H/L Special Int	MAI	2.29	TE-HL	+8.79
18	47	04/93 RFO	Bobbin	ADS	10.35	2ND TSP	+39.79
18	82	04/93 RFO	H/L Tubesheet	SAI	0.78	TTS-HL	-1.10
18	85	04/93 RFO	H/L Tubesheet	SAI	0.26	TTS-HL	+0.00



S/G B - ATTACHMENT #2 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
18	111	04/93 RFO	Bobbin	ODI	0.78	6TH TSP	+3.24
		04/93 RFO	Bobbin	ODI	2.92	6TH TSP	+2.79
		04/93 RFO	H/L Special Int	VOL	0.11	6TH TSP	+3.10
		04/93 RFO	H/L Special Int	VOL	0.35	6TH TSP	+2.64
19	32	04/93 RFO	Bobbin	IDI	11.28	TE-HL	+16.67
		04/93 RFO	H/L Tubesheet	SAI	5.49	TTS-HL	-4.92
		04/93 RFO	H/L Special Int	SAI	4.33	TE-HL	+16.67
19	58	04/93 RFO	H/L Tubesheet	SAI	0.78	TTS-HL	+0.00
20	11	04/93 RFO	Bobbin	IDI	52.36	TE-HL	+15.97
		04/93 RFO	H/L Special Int	MAI	5.83	TE-HL	+16.70
20	32	04/93 RFO	Bobbin	IDI	10.29	TE-HL	+5.87
		04/93 RFO	H/L Special Int	SAI	4.36	TE-HL	+5.87
20	33	04/93 RFO	Bobbin	ADS	1.91	TTS-CL	+18.79
20	46	04/93 RFO	Bobbin	NQI	0.48	11TH TSP	+40.58
		04/93 RFO	C/L Special Int	VOL	0.05	10TH TSP	-2.78
20	50	04/93 RFO	Bobbin	ADS	3.04	17TH TSP	+2.06
20	59	04/93 RFO	C/L Special Int	VOL	1.15	9TH TSP	+18.14
20	100	04/93 RFO	Bobbin	ODI	0.63	6TH TSP	+4.68
20	103	04/93 RFO	C/L Special Int	VOL	0.34	10TH TSP	+38.60
		04/93 RFO	C/L Special Int	VOL	0.73	10TH TSP	+25.86
21	6	04/93 RFO	Bobbin	ODI	1.01	9TH TSP	+27.53
		04/93 RFO	Bobbin	ODI	1.56	8TH TSP	+16.20
		04/93 RFO	C/L Special Int	VOL	0.56	9TH TSP	+27.17
21	7	04/93 RFO	Bobbin	NQI	0.46	7TH TSP	+50.39
21	8	04/93 RFO	H/L Tubesheet	SAI	0.43	TTS-HL	-2.64
21	11	04/93 RFO	H/L Tubesheet	SAI	0.99	TTS-HL	-4.84
21	12	04/93 RFO	Bobbin	IDI	7.28	TE-HL	+13.86
		04/93 RFO	H/L Special Int	SAI	3.13	TE-HL	+13.86
21	22	04/93 RFO	C/L Special Int	VOL	0.70	TTS-CL	+1.06
21	25	04/93 RFO	Bobbin	IDI	5.06	TE-HL	+10.75
		04/93 RFO	H/L Special Int	SAI	2.85	TE-HL	+10.75
21	27	04/93 RFO	Sleeve Crosswou	ODI	5.44	TTS-HL	+11.30
		04/93 RFO	C/L Special Int	VOL	0.20	15TH TSP	+2.31
21	30	04/93 RFO	Bobbin	IDI	6.04	TE-HL	+13.74
		04/93 RFO	Bobbin	IDI	12.52	TE-HL	+3.36
		04/93 RFO	Bobbin	IDI	39.12	TE-HL	+2.42
		04/93 RFO	H/L Special Int	MAI	1.66	TE-HL	+3.36
		04/93 RFO	H/L Special Int	MAI	2.54	TE-HL	+2.42
		04/93 RFO	H/L Special Int	SAI	1.93	TE-HL	+13.74
21	31	04/93 RFO	Bobbin	IDI	10.47	TE-HL	+14.65
		04/93 RFO	H/L Special Int	SAI	3.46	TE-HL	+14.65
21	41	04/93 RFO	Bobbin	IDI	11.49	TE-HL	+1.97
		04/93 RFO	Bobbin	ADS	1.23	TTS-CL	+13.53
		04/93 RFO	H/L Special Int	MAI	4.06	TE-HL	+2.29
		04/93 RFO	H/L Special Int	SAI	1.71	TE-HL	+1.07
21	42	04/93 RFO	Bobbin	IDI	8.83	TE-HL	+17.75
		04/93 RFO	H/L Tubesheet	MAI	2.47	TTS-HL	-3.58
		04/93 RFO	H/L Special Int	MAI	2.63	TTS-HL	-3.31
21	58	04/93 RFO	H/L Tubesheet	SAI	1.20	TTS-HL	+0.00
21	70	04/93 RFO	C/L Special Int	VOL	0.68	13TH TSP	-1.42
21	77	04/93 RFO	Bobbin	NQI	0.52	1ST TSP	-0.12
21	85	04/93 RFO	C/L Special Int	VOL	0.53	18TH TSP	+5.43
		04/93 RFO	C/L Special Int	VOL	0.95	18TH TSP	+7.70
21	86	04/93 RFO	Bobbin	ADS	2.80	3RD TSP	+28.43
		04/93 RFO	Bobbin	ADS	3.87	3RD TSP	+26.87
		04/93 RFO	H/L Special Int	VOL	0.23	3RD TSP	+26.35
		04/93 RFO	H/L Special Int	VOL	0.24	3RD TSP	+28.15
21	92	04/93 RFO	H/L Tubesheet	SAI	0.58	TTS-HL	-1.97
21	93	04/93 RFO	Bobbin	ODI	0.71	5TH TSP	+12.05
		04/93 RFO	Bobbin	ODI	0.84	5TH TSP	+9.42
		04/93 RFO	H/L Special Int	VOL	0.24	5TH TSP	+4.57
		04/93 RFO	H/L Special Int	VOL	0.26	5TH TSP	+10.24
		04/93 RFO	H/L Special Int	VOL	0.34	5TH TSP	+12.77
21	99	04/93 RFO	Bobbin	NQI	0.30	6TH TSP	+29.78
		04/93 RFO	C/L Special Int	VOL	0.35	13TH TSP	+4.89

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
21	104	04/93 RFO	C/L Special Int	VOL	0.27 8TH TSP	-12.21
21	110	04/93 RFO	Bobbin	NOI	3.91 7TH TSP	+41.03
22	6	04/93 RFO	Bobbin	WAR	0.31 4AVB	+0.00
22	9	04/93 RFO	C/L Special Int	VOL	0.73 TTS-CL	+13.78
22	10	04/93 RFO	Bobbin	IDI	3.88 TE-HL	+8.73
		04/93 RFO	H/L Special Int	SAI	2.79 TE-HL	+9.35
22	12	04/93 RFO	Bobbin	ADS	7.94 17TH TSP	+18.69
		04/93 RFO	C/L Special Int	VOL	0.39 17TH TSP	+18.39
22	18	04/93 RFO	Bobbin	IDI	5.02 TE-HL	+15.74
		04/93 RFO	Bobbin	IDI	22.12 TE-HL	+5.33
		04/93 RFO	H/L Tubesheet	MAI	1.58 TTS-HL	-5.00
		04/93 RFO	H/L Special Int	MAI	0.54 TE-HL	+16.50
		04/93 RFO	H/L Special Int	MAI	0.84 TE-HL	+5.33
		04/93 RFO	H/L Special Int	MAI	2.48 TE-HL	+15.74
		04/93 RFO	H/L Special Int	SAI	0.43 TE-HL	+9.03
		04/93 RFO	H/L Special Int	SAI	1.08 TE-HL	+7.98
22	33	04/93 RFO	Bobbin	IDI	4.25 TE-HL	+13.76
		04/93 RFO	Bobbin	IDI	15.32 TE-HL	+10.82
		04/93 RFO	Bobbin	IDI	31.77 TE-HL	+2.28
		04/93 RFO	H/L Special Int	MAI	1.18 TE-HL	+2.28
		04/93 RFO	H/L Special Int	MAI	2.98 TE-HL	+10.82
		04/93 RFO	H/L Special Int	SAI	3.00 TE-HL	+13.76
22	43	04/93 RFO	C/L Special Int	VOL	0.22 20TH TSP	+1.43
22	52	04/93 RFO	Bobbin	IDI	8.58 TE-HL	+16.63
		04/93 RFO	H/L Special Int	MAI	3.25 TTS-HL	-4.88
22	54	04/93 RFO	C/L Special Int	VOL	0.21 16TH TSP	+4.12
		04/93 RFO	C/L Special Int	VOL	0.33 16TH TSP	+7.63
22	67	04/93 RFO	Bobbin	IDI	26.88 TE-HL	+12.63
		04/93 RFO	H/L Special Int	MAI	4.68 TE-HL	+13.05
22	93	04/93 RFO	Bobbin	IDI	3.04 TE-HL	+17.94
		04/93 RFO	Bobbin	IDI	29.00 TE-HL	+13.10
		04/93 RFO	H/L Tubesheet	SAI	0.63 TTS-HL	-2.41
		04/93 RFO	H/L Tubesheet	SAI	1.06 TTS-HL	-3.43
		04/93 RFO	H/L Special Int	MAI	0.32 TE-HL	+19.22
		04/93 RFO	H/L Special Int	MAI	2.88 TE-HL	+13.08
		04/93 RFO	H/L Special Int	SAI	0.92 TE-HL	+11.95
		04/93 RFO	H/L Special Int	SAI	1.12 TE-HL	+18.96
22	97	04/93 RFO	Bobbin	ADS	4.86 5TH TSP	+40.46
		04/93 RFO	H/L Special Int	VOL	0.52 6TH TSP	-3.70
		04/93 RFO	C/L Special Int	VOL	0.34 17TH TSP	+11.85
22	99	04/93 RFO	Bobbin	ADS	3.47 6TH TSP	+24.34
		04/93 RFO	H/L Special Int	VOL	0.30 6TH TSP	+18.64
		04/93 RFO	H/L Special Int	VOL	0.31 6TH TSP	+24.09
		04/93 RFO	H/L Special Int	VOL	0.35 6TH TSP	+22.65
		04/93 RFO	H/L Special Int	VOL	0.71 6TH TSP	+20.52
23	19	04/93 RFO	Bobbin	IDI	10.79 TE-HL	+15.75
		04/93 RFO	H/L Special Int	SAI	4.47 TTS-HL	-5.45
23	20	04/93 RFO	Bobbin	IDI	5.53 TE-HL	+9.78
		04/93 RFO	H/L Special Int	MAI	1.17 TE-HL	+13.45
		04/93 RFO	H/L Special Int	SAI	2.75 TE-HL	+9.78
23	26	04/93 RFO	Bobbin	IDI	8.70 TE-HL	+13.72
		04/93 RFO	H/L Special Int	SAI	3.16 TE-HL	+13.72
23	34	04/93 RFO	Bobbin	IDI	37.24 TE-HL	+2.13
		04/93 RFO	H/L Special Int	MAI	3.53 TE-HL	+2.13
23	41	04/93 RFO	Bobbin	IDI	20.13 TE-HL	+14.68
		04/93 RFO	H/L Special Int	MAI	4.59 TE-HL	+14.98
23	42	04/93 RFO	Bobbin	IDI	5.01 TE-HL	+14.64
		04/93 RFO	H/L Special Int	MAI	0.98 TTS-HL	-6.32
23	45	04/93 RFO	Bobbin	IDI	9.19 TE-HL	+9.62
		04/93 RFO	Bobbin	IDI	12.46 TE-HL	+16.62
		04/93 RFO	H/L Tubesheet	MAI	0.54 TTS-HL	-5.51
		04/93 RFO	H/L Special Int	MAI	0.41 TTS-HL	-6.93
		04/93 RFO	H/L Special Int	MAI	0.73 TTS-HL	-4.72
		04/93 RFO	H/L Special Int	MAI	0.84 TTS-HL	-11.01
		04/93 RFO	H/L Special Int	MAI	1.26 TTS-HL	-12.32

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	SAI	0.61	TTS-HL	-15.27
		04/93 RFO	H/L Special Int	SAI	1.20	TTS-HL	-17.22
23	48	04/93 RFO	Bobbin	IDI	4.60	TE-HL	+12.60
		04/93 RFO	H/L Special Int	SAI	1.83	TTS-HL	-8.96
23	52	04/93 RFO	Bobbin	IDI	19.74	TE-HL	+1.23
		04/93 RFO	H/L Special Int	MAI	3.10	TTS-HL	-21.11
23	53	04/93 RFO	Bobbin	IDI	30.95	TE-HL	+1.52
		04/93 RFO	H/L Special Int	MAI	6.47	TTS-HL	-19.95
23	64	04/93 RFO	H/L Tubesheet	MAI	0.14	TTS-HL	-0.06
23	66	04/93 RFO	H/L Tubesheet	SAI	0.27	TTS-HL	+0.00
23	67	04/93 RFO	Bobbin	ADS	4.12	2ND TSP	+27.00
24	16	04/93 RFO	Bobbin	IDI	7.30	TE-HL	+9.68
		04/93 RFO	H/L Special Int	SAI	3.21	TE-HL	+10.46
24	25	04/93 RFO	Bobbin	IDI	12.52	TE-HL	+17.65
		04/93 RFO	H/L Tubesheet	SAI	6.21	TTS-HL	-3.00
		04/93 RFO	H/L Special Int	SAI	5.49	TTS-HL	-3.32
24	28	04/93 RFO	Bobbin	IDI	26.26	TE-HL	+9.18
		04/93 RFO	H/L Special Int	MAI	1.83	TE-HL	+9.18
24	49	04/93 RFO	Bobbin	IDI	5.31	TE-HL	+14.75
		04/93 RFO	H/L Special Int	SAI	0.75	TTS-HL	-7.49
24	50	04/93 RFO	Bobbin	IDI	15.83	TE-HL	+15.73
		04/93 RFO	H/L Special Int	SAI	5.02	TTS-HL	-6.49
24	69	04/93 RFO	Bobbin	NQI	0.12	2ND TSP	+0.02
24	70	04/93 RFO	Bobbin	NQI	0.19	4TH TSP	-0.05
24	93	04/93 RFO	C/L Special Int	VOL	0.30	19TH TSP	+3.76
25	17	04/93 RFO	C/L Special Int	VOL	0.74	9TH TSP	+23.70
25	19	04/93 RFO	H/L Tubesheet	VOL	0.15	TTS-HL	-3.39
25	33	04/93 RFO	Bobbin	IDI	4.99	TE-HL	+8.66
		04/93 RFO	H/L Special Int	SAI	2.26	TE-HL	+8.71
25	34	04/93 RFO	Bobbin	IDI	4.66	TE-HL	+5.95
		04/93 RFO	Bobbin	IDI	6.29	TE-HL	+9.87
		04/93 RFO	H/L Special Int	MAI	1.17	TE-HL	+3.08
		04/93 RFO	H/L Special Int	MAI	1.35	TE-HL	+5.95
		04/93 RFO	H/L Special Int	MAI	1.66	TE-HL	+9.87
25	48	04/93 RFO	H/L Tubesheet	SAI	0.15	TTS-HL	+0.05
25	50	04/93 RFO	Bobbin	IDI	9.69	TE-HL	+8.81
		04/93 RFO	H/L Special Int	SAI	1.00	TTS-HL	-13.72
		04/93 RFO	H/L Special Int	SAI	2.85	TTS-HL	-12.72
25	95	04/93 RFO	H/L Tubesheet	VOL	1.95	TTS-HL	+1.74
25	103	04/93 RFO	Bobbin	NQI	0.69	1ST TSP	-0.17
		04/93 RFO	H/L Special Int	SAI	0.30	1ST TSP	-0.06
26	8	04/93 RFO	Bobbin	WAR	1.70	2AVB	+0.00
26	38	04/93 RFO	H/L Tubesheet	SAI	0.33	TTS-HL	-1.04
26	80	04/93 RFO	H/L Tubesheet	SAI	1.40	TTS-HL	-3.30
26	87	04/93 RFO	Bobbin	IDI	3.23	TE-HL	+11.26
		04/93 RFO	H/L Special Int	MAI	0.68	TE-HL	+11.57
26	97	04/93 RFO	Bobbin	ADS	3.09	3RD TSP	+16.10 to +19.63
		04/93 RFO	H/L Special Int	VOL	0.24	3RD TSP	+17.06
		04/93 RFO	H/L Special Int	VOL	0.26	3RD TSP	+19.18
27	16	04/93 RFO	Bobbin	IDI	48.83	TE-HL	+10.91
		04/93 RFO	H/L Special Int	MAI	8.01	TE-HL	+11.88
27	22	04/93 RFO	Bobbin	NQI	1.05	1ST TSP	+16.20
		04/93 RFO	Bobbin	ODI	0.48	1ST TSP	-12.15
		04/93 RFO	Bobbin	ODI	0.92	1ST TSP	-11.36
		04/93 RFO	Bobbin	ODI	1.04	1ST TSP	+10.79
		04/93 RFO	Bobbin	ODI	1.09	1ST TSP	+9.48
		04/93 RFO	Bobbin	ODI	1.10	2ND TSP	+31.87
		04/93 RFO	Bobbin	ODI	1.20	1ST TSP	-8.01
		04/93 RFO	Bobbin	ODI	1.27	1ST TSP	+21.84
		04/93 RFO	Bobbin	ODI	1.35	1ST TSP	+20.13
		04/93 RFO	Bobbin	ODI	1.35	2ND TSP	+23.81
		04/93 RFO	Bobbin	ODI	1.40	1ST TSP	-9.68
27	28	04/93 RFO	C/L Special Int	VOL	0.17	TTS-CL	+19.17
27	42	04/93 RFO	Bobbin	IDI	5.65	TE-HL	+13.75
		04/93 RFO	H/L Special Int	SAI	0.93	TE-HL	+8.52

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
27	66	04/93 RFO	H/L Special Int	SAI 1.66	TE-HL	+13.84
		04/93 RFO	Bobbin	IDI 5.29	TE-HL	+12.98
		04/93 RFO	Bobbin	IDI 10.78	TE-HL	+16.90
		04/93 RFO	H/L Tubesheet	SAI 5.23	TTS-HL	-4.30
27	67	04/93 RFO	C/L Special Int	VOL 0.15	13TH TSP	+2.52
28	24	04/93 RFO	Bobbin	NQI 0.39	1ST TSP	+0.02
		04/93 RFO	H/L Special Int	MAI 0.20	1ST TSP	+0.02
28	73	04/93 RFO	Bobbin	ADS 8.18	1ST TSP	+4.74
		04/93 RFO	H/L Special Int	VOL 0.70	1ST TSP	+4.56
28	85	04/93 RFO	Bobbin	IDI 6.04	TE-HL	+10.34
		04/93 RFO	Bobbin	IDI 6.16	TE-HL	+3.45
		04/93 RFO	Bobbin	IDI 7.34	TE-HL	+14.35
		04/93 RFO	Bobbin	IDI 15.62	TE-HL	+11.41
		04/93 RFO	Bobbin	IDI 16.99	TE-HL	+18.37
		04/93 RFO	H/L Tubesheet	MAI 2.72	TTS-HL	-3.23
		04/93 RFO	H/L Special Int	MAI 0.48	TE-HL	+10.43
		04/93 RFO	H/L Special Int	MAI 0.57	TE-HL	+2.45
		04/93 RFO	H/L Special Int	MAI 2.11	TE-HL	+19.04
		04/93 RFO	H/L Special Int	MAI 2.21	TE-HL	+11.64
		04/93 RFO	H/L Special Int	SAI 2.54	TE-HL	+15.00
28	99	04/93 RFO	Bobbin	ODI 0.83	3RD TSP	+5.35
		04/93 RFO	H/L Special Int	SAI 0.11	3RD TSP	+5.22
28	100	04/93 RFO	Bobbin	IDI 7.46	TE-HL	+10.83
		04/93 RFO	H/L Special Int	SAI 3.50	TE-HL	+10.77
29	28	04/93 RFO	Bobbin	IDI 5.70	TE-HL	+16.82
		04/93 RFO	H/L Tubesheet	SAI 1.53	TTS-HL	-4.39
		04/93 RFO	H/L Special Int	MAI 0.76	TTS-HL	-10.64
		04/93 RFO	H/L Special Int	SAI 0.47	TTS-HL	-5.39
		04/93 RFO	H/L Special Int	SAI 1.22	TTS-HL	-3.77
29	30	04/93 RFO	C/L Special Int	VOL 0.40	9TH TSP	+41.75
		04/93 RFO	C/L Special Int	VOL 0.44	9TH TSP	+38.74
29	72	04/93 RFO	C/L Special Int	VOL 0.41	9TH TSP	+13.31
29	74	04/93 RFO	H/L Tubesheet	SAI 0.90	TTS-HL	-2.57
30	18	04/93 RFO	Bobbin	ADS 7.03	12TH TSP	+10.46
		04/93 RFO	C/L Special Int	VOL 0.60	12TH TSP	+9.92
30	23	04/93 RFO	Bobbin	NQI 0.63	11TH TSP	-0.14
30	51	04/93 RFO	C/L Special Int	VOL 0.80	10TH TSP	-5.74
30	77	04/93 RFO	H/L Tubesheet	MAI 0.92	TTS-HL	-4.48
		04/93 RFO	C/L Special Int	VOL 0.25	9TH TSP	+14.14
30	78	04/93 RFO	C/L Special Int	VOL 0.30	14TH TSP	+7.08
		04/93 RFO	C/L Special Int	VOL 0.39	12TH TSP	+15.43
31	56	04/93 RFO	Bobbin	IDI 7.88	TE-HL	+14.83
		04/93 RFO	H/L Special Int	MAI 0.98	TTS-HL	-6.89
31	59	04/93 RFO	Bobbin	IDI 11.81	TE-HL	+10.84
		04/93 RFO	H/L Special Int	MAI 1.97	TTS-HL	-10.08
31	72	04/93 RFO	Bobbin	IDI 11.82	TE-HL	+12.81
		04/93 RFO	H/L Special Int	MAI 3.63	TE-HL	+13.38
		04/93 RFO	H/L Special Int	SAI 1.49	TE-HL	+16.27
31	102	04/93 RFO	Bobbin	ADS 6.71	2ND TSP	+30.59
		04/93 RFO	H/L Special Int	VOL 0.82	3RD TSP	-14.13
32	13	04/93 RFO	Bobbin	ODI 0.19	5TH TSP	+0.10
32	39	04/93 RFO	Bobbin	IDI 6.00	TE-HL	+12.74
		04/93 RFO	H/L Special Int	SAI 2.41	TE-HL	+12.72
32	56	04/93 RFO	Bobbin	IDI 4.44	TE-HL	+17.79
		04/93 RFO	H/L Tubesheet	SAI 3.17	TTS-HL	-3.20
		04/93 RFO	H/L Special Int	SAI 2.40	TTS-HL	-4.10
32	60	04/93 RFO	H/L Tubesheet	SAI 0.40	TTS-HL	+0.02
32	64	04/93 RFO	H/L Tubesheet	MAI 0.97	TTS-HL	-4.70
32	75	04/93 RFO	Bobbin	ADS 4.12	2ND TSP	+7.00
		04/93 RFO	H/L Special Int	VOL 0.24	2ND TSP	+6.57
32	86	04/93 RFO	H/L Tubesheet	SAI 0.45	TTS-HL	-1.47
32	89	04/93 RFO	Bobbin	ADS 23.31	16TH TSP	+1.82
32	96	04/93 RFO	H/L Tubesheet	VOL 0.61	TTS-HL	-3.40
32	103	04/93 RFO	C/L Special Int	VOL 0.30	10TH TSP	+17.53
33	16	04/93 RFO	Bobbin	IDI 4.31	TE-HL	+8.87

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G 8 - ATTACHMENT #2 INDICATIONS OF IMPERFECTIONS  
 REPORT

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	SAI	1.34 TE-HL	+9.66
33	37	04/93 RFO	Bobbin	NQI	0.34 1ST TSP	+0.02
		04/93 RFO	H/L Special Int	VOL	0.18 1ST TSP	+0.03
33	42	04/93 RFO	C/L Special Int	VOL	0.32 11TH TSP	+37.28
33	100	04/93 RFO	Bobbin	WAR	0.64 2AVB	+0.00
34	19	04/93 RFO	Bobbin	NQI	0.51 2ND TSP	+0.00
34	29	04/93 RFO	Bobbin	ODI	0.36 1ST TSP	-0.05
		04/93 RFO	H/L Special Int	SAI	0.13 1ST TSP	-0.05
34	30	04/93 RFO	Bobbin	WAR	0.74 2AVB	+0.00
34	57	04/93 RFO	Bobbin	IDI	7.48 TE-HL	+13.73
		04/93 RFO	H/L Special Int	MAI	1.22 TE-HL	+13.88
34	64	04/93 RFO	Bobbin	IDI	6.16 TE-HL	+10.88
		04/93 RFO	H/L Special Int	MAI	0.53 TTS-HL	-10.15
34	76	04/93 RFO	Bobbin	ADS	3.34 4TH TSP	+10.10
		04/93 RFO	H/L Special Int	VOL	0.56 4TH TSP	+9.72
34	83	04/93 RFO	Bobbin	ADS	5.58 3RD TSP	+19.56
		04/93 RFO	H/L Special Int	VOL	0.62 3RD TSP	+23.22
34	91	04/93 RFO	Bobbin	NQI	0.38 19TH TSP	-0.12
35	35	04/93 RFO	Bobbin	IDI	5.69 TE-HL	+3.03
		04/93 RFO	H/L Special Int	MAI	2.75 TE-HL	+3.14
35	39	04/93 RFO	Bobbin	IDI	6.71 TE-HL	+13.76
		04/93 RFO	H/L Special Int	SAI	4.81 TE-HL	+13.68
35	50	04/93 RFO	Bobbin	ODI	0.46 1ST TSP	-0.08
		04/93 RFO	H/L Special Int	SAI	0.21 1ST TSP	+0.00
35	53	04/93 RFO	Bobbin	WAR	1.16 2AVB	+0.00
35	78	04/93 RFO	Bobbin	WAR	2.56 3AVB	+0.00
36	21	04/93 RFO	C/L Special Int	VOL	0.32 20TH TSP	+6.34
36	39	04/93 RFO	Bobbin	WAR	0.93 1AVB	+0.00
36	43	04/93 RFO	Bobbin	ODI	0.92 4TH TSP	+20.98
		04/93 RFO	H/L Special Int	VOL	0.52 4TH TSP	+20.38
36	64	04/93 RFO	Bobbin	NQI	0.29 17TH TSP	-0.02
36	65	04/93 RFO	Bobbin	WAR	1.45 3AVB	+0.00
36	69	04/93 RFO	Bobbin	WAR	1.84 3AVB	+0.00
37	27	04/93 RFO	C/L Special Int	VOL	0.53 17TH TSP	+20.98
37	32	04/93 RFO	C/L Special Int	VOL	0.34 19TH TSP	+4.19
37	88	04/93 RFO	C/L Special Int	VOL	0.19 17TH TSP	+6.72
37	98	04/93 RFO	C/L Special Int	VOL	0.21 TTS-CL	+7.19
37	99	04/93 RFO	H/L Tubesheet	VOL	0.49 TTS-HL	-0.10
38	29	04/93 RFO	C/L Special Int	VOL	0.16 TTS-CL	+5.78
38	30	04/93 RFO	Bobbin	IDI	21.15 TE-HL	+5.75
		04/93 RFO	H/L Special Int	MAI	3.79 TE-HL	+5.75
38	31	04/93 RFO	C/L Special Int	VOL	0.07 15TH TSP	+1.36
		04/93 RFO	C/L Special Int	VOL	0.09 16TH TSP	+4.20
38	54	04/93 RFO	Bobbin	WAR	0.45 2AVB	+0.00
		04/93 RFO	Bobbin	WAR	0.60 3AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.34 1AVB	+0.00
38	58	04/93 RFO	Bobbin	WAR	4.68 3AVB	+0.00
38	59	04/93 RFO	Bobbin	WAR	1.22 1AVB	+0.00
		04/93 RFO	Bobbin	WAR	2.01 2AVB	+0.00
38	75	04/93 RFO	Bobbin	IDI	5.40 TE-HL	+6.24
		04/93 RFO	H/L Special Int	MAI	1.26 TE-HL	+6.35
38	87	04/93 RFO	C/L Special Int	VOL	0.41 8TH TSP	-7.37
39	67	04/93 RFO	H/L Tubesheet	SAI	1.24 TTS-HL	-3.68
39	80	04/93 RFO	Bobbin	WAR	2.85 2AVB	+0.00
		04/93 RFO	Bobbin	WAR	3.78 3AVB	+0.00
39	81	04/93 RFO	C/L Special Int	VOL	0.65 9TH TSP	-9.23
39	96	04/93 RFO	C/L Special Int	VOL	0.66 10TH TSP	+17.37
40	38	04/93 RFO	Bobbin	WAR	0.91 3AVB	+0.00
40	70	04/93 RFO	Bobbin	WAR	1.74 3AVB	+0.00
40	88	04/93 RFO	Bobbin	IDI	6.12 TE-HL	+17.04
		04/93 RFO	H/L Tubesheet	MAI	1.16 TTS-HL	-3.81
		04/93 RFO	H/L Special Int	MAI	0.68 TE-HL	+16.35
41	44	04/93 RFO	Bobbin	WAR	1.04 3AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.06 4AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.99 2AVB	+0.00

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G 8 - ATTACHMENT #2 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
41	48	04/93 RFO	Bobbin	WAR	0.99	2AVB	+0.00
41	53	04/93 RFO	C/L Special Int	VOL	0.42	TTS-CL	+22.69
		04/93 RFO	C/L Special Int	NOI	0.31	19TH TSP	+12.99
		04/93 RFO	C/L Special Int	VOL	0.70	11TH TSP	+22.33
41	58	04/93 RFO	Bobbin	WAR	1.43	1AVB	+0.00
41	64	04/93 RFO	Bobbin	WAR	2.71	2AVB	+0.00
		04/93 RFO	Bobbin	WAR	2.75	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	3.62	1AVB	+0.00
41	65	04/93 RFO	Bobbin	WAR	2.91	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	3.33	2AVB	+0.00
41	66	04/93 RFO	Bobbin	WAR	1.12	1AVB	+0.00
41	68	04/93 RFO	Bobbin	WAR	1.34	1AVB	+0.00
41	70	04/93 RFO	Bobbin	WAR	1.98	1AVB	+0.00
41	71	04/93 RFO	Bobbin	WAR	1.20	1AVB	+0.00
41	91	04/93 RFO	Bobbin	IDI	2.96	TE-HL	+17.69
		04/93 RFO	H/L Tubesheet	SAI	2.52	TTS-HL	-3.01
		04/93 RFO	H/L Special Int	SAI	1.67	TE-HL	+17.16
42	45	04/93 RFO	C/L Special Int	VOL	0.54	13TH TSP	+5.97
42	59	04/93 RFO	Bobbin	WAR	4.75	1AVB	+0.00
42	64	04/93 RFO	Bobbin	WAR	3.16	1AVB	+0.00
42	77	04/93 RFO	Bobbin	IDI	7.78	TE-HL	+14.14
		04/93 RFO	H/L Special Int	MAI	2.49	TE-HL	+13.90
43	22	04/93 RFO	Bobbin	WAR	0.88	2AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.47	1AVB	+0.00
43	23	04/93 RFO	Bobbin	WAR	0.33	2AVB	+0.00
43	39	04/93 RFO	C/L Special Int	VOL	0.13	17TH TSP	+12.06
43	88	04/93 RFO	Bobbin	IDI	3.10	TE-HL	+15.35
		04/93 RFO	H/L Special Int	SAI	1.27	TE-HL	+15.14
43	89	04/93 RFO	Bobbin	IDI	11.06	TE-HL	+17.24
		04/93 RFO	H/L Tubesheet	MAI	1.68	TTS-HL	-4.47
		04/93 RFO	H/L Special Int	MAI	1.07	TE-HL	+17.12
44	46	04/93 RFO	Bobbin	WAR	0.88	1AVB	+0.00
44	72	04/93 RFO	C/L Special Int	VOL	0.20	10TH TSP	+2.25
		04/93 RFO	C/L Special Int	VOL	0.39	10TH TSP	+6.33
		04/93 RFO	C/L Special Int	VOL	0.42	11TH TSP	+14.52
		04/93 RFO	C/L Special Int	VOL	0.47	11TH TSP	+20.41
		04/93 RFO	C/L Special Int	VOL	0.63	10TH TSP	-0.61
44	76	04/93 RFO	C/L Special Int	VOL	0.78	9TH TSP	+19.96
44	82	04/93 RFO	Bobbin	IDI	46.76	TE-HL	+3.32
		04/93 RFO	H/L Special Int	MAI	0.44	TTS-HL	-18.34
44	86	04/93 RFO	Bobbin	ODI	1.42	1ST TSP	+0.07
		04/93 RFO	H/L Special Int	MAI	0.24	1ST TSP	+0.14
45	40	04/93 RFO	Bobbin	WAR	0.83	1AVB	+0.00
46	28	04/93 RFO	Bobbin	IDI	16.03	TE-HL	+7.21
		04/93 RFO	H/L Special Int	SAI	0.90	TE-HL	+7.21
46	29	04/93 RFO	Bobbin	IDI	6.52	TE-HL	+10.32
		04/93 RFO	H/L Special Int	MAI	0.56	TE-HL	+6.58
47	33	04/93 RFO	Bobbin	NOI	0.60	1ST TSP	-0.13
		04/93 RFO	H/L Special Int	SAI	0.39	1ST TSP	-0.13
48	82	04/93 RFO	Bobbin	NOI	0.81	1ST TSP	+0.10
		04/93 RFO	Bobbin	NOI	1.06	2ND TSP	+0.02
49	40	04/93 RFO	Bobbin	ODI	2.30	17TH TSP	-0.13
		04/93 RFO	C/L Special Int	VOL	0.62	17TH TSP	-0.16
49	56	04/93 RFO	Bobbin	WAR	2.10	19TH TSP	+0.00
		04/93 RFO	C/L Special Int	VOL	0.21	19TH TSP	-0.36
49	57	04/93 RFO	Bobbin	ODI	2.59	19TH TSP	-0.07
		04/93 RFO	Bobbin	ODI	2.69	17TH TSP	-0.16
		04/93 RFO	C/L Special Int	VOL	0.41	19TH TSP	-0.10
		04/93 RFO	C/L Special Int	VOL	0.56	17TH TSP	-0.17
49	83	04/93 RFO	Bobbin	NOI	1.18	2ND TSP	+0.20

Total Indications Found = 580  
 Total Tubes Found = 311

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
2	8	04/93 RFO	C/L Special Int	VOL	0.34	18TH TSP	+9.92
		04/93 RFO	C/L Special Int	VOL	0.47	18TH TSP	+18.74
2	11	04/93 RFO	C/L Special Int	VOL	0.94	11TH TSP	+17.29
2	14	04/93 RFO	C/L Special Int	VOL	0.52	18TH TSP	+19.20
2	58	04/93 RFO	C/L Special Int	VOL	0.41	15TH TSP	+11.06
2	59	04/93 RFO	H/L Tubesheet	SAI	0.40	TTS-HL	+0.11
2	63	04/93 RFO	C/L Special Int	VOL	0.26	18TH TSP	+18.37
		04/93 RFO	C/L Special Int	VOL	0.30	18TH TSP	+34.59
2	68	04/93 RFO	H/L Tubesheet	SAI	0.64	TTS-HL	+0.11
2	88	04/93 RFO	Bobbin	ADS	7.98	15TH TSP	+18.72
		04/93 RFO	C/L Special Int	VOL	1.24	13TH TSP	-3.90
2	101	04/93 RFO	H/L Tubesheet	SAI	0.26	TTS-HL	+0.06
2	102	04/93 RFO	H/L Tubesheet	SAI	0.59	TTS-HL	-0.03
2	112	04/93 RFO	H/L Tubesheet	SAI	0.24	TTS-HL	+0.03
2	113	04/93 RFO	H/L Tubesheet	MAI	0.54	TTS-HL	+0.01
3	10	04/93 RFO	U-Bend	SAI	1.03	7TH TSP	+9.68
3	16	04/93 RFO	U-Bend	VOL	0.62	8TH TSP	-0.07
		04/93 RFO	U-Bend	VOL	0.66	7TH TSP	+17.94
3	72	04/93 RFO	H/L Tubesheet	VOL	0.18	TTS-HL	-3.12
3	75	04/93 RFO	U-Bend	SAI	1.27	7TH TSP	+9.29
3	105	04/93 RFO	Bobbin	IDI	8.84	TE-HL	+17.09
		04/93 RFO	H/L Tubesheet	MAI	0.70	TTS-HL	-3.08
		04/93 RFO	H/L Special Int	MAI	0.40	TTS-HL	-3.40
4	4	04/93 RFO	C/L Special Int	VOL	0.23	11TH TSP	+28.34
4	31	04/93 RFO	U-Bend	VOL	0.75	8TH TSP	+7.13
4	50	04/93 RFO	U-Bend	SAI	1.03	7TH TSP	+16.48
4	64	04/93 RFO	H/L Tubesheet	MAI	0.35	TTS-HL	-1.51
4	78	04/93 RFO	C/L Special Int	VOL	0.37	12TH TSP	+13.45
4	101	04/93 RFO	U-Bend	VOL	0.51	7TH TSP	+8.05
4	112	04/93 RFO	H/L Tubesheet	MAI	0.15	TTS-HL	-1.70
5	53	04/93 RFO	H/L Tubesheet	MAI	0.31	TTS-HL	-4.32
5	57	04/93 RFO	H/L Tubesheet	SAI	0.17	TTS-HL	+0.12
5	61	04/93 RFO	C/L Special Int	VOL	0.59	10TH TSP	+24.30
5	69	04/93 RFO	C/L Special Int	VOL	0.48	8TH TSP	-11.92
6	8	04/93 RFO	Bobbin	ADS	5.50	9TH TSP	+17.32
6	93	04/93 RFO	Bobbin	ADS	7.00	1ST TSP	+21.41
		04/93 RFO	H/L Special Int	VOL	0.82	2ND TSP	-2.57
		04/93 RFO	H/L Special Int	VOL	0.83	1ST TSP	+21.41
6	101	04/93 RFO	H/L Tubesheet	SAI	0.49	TTS-HL	-2.72
6	104	04/93 RFO	C/L Special Int	VOL	0.60	11TH TSP	+6.04
7	13	04/93 RFO	C/L Special Int	VOL	0.43	17TH TSP	+0.87
7	17	04/93 RFO	Bobbin	NQI	0.66	9TH TSP	-0.52
7	75	04/93 RFO	Bobbin	ODI	0.80	1ST TSP	+10.00
7	94	04/93 RFO	Bobbin	IDI	11.87	TE-HL	+15.03
		04/93 RFO	H/L Special Int	SAI	0.49	TTS-HL	-6.93
		04/93 RFO	H/L Special Int	SAI	6.12	TTS-HL	-5.32
8	5	04/93 RFO	C/L Special Int	VOL	0.50	11TH TSP	+16.95
8	9	04/93 RFO	Bobbin	NQI	0.74	5TH TSP	+40.00
		04/93 RFO	H/L Special Int	VOL	0.28	5TH TSP	+40.00
8	20	04/93 RFO	C/L Special Int	VOL	0.39	8TH TSP	-7.74
8	21	04/93 RFO	C/L Special Int	VOL	0.26	11TH TSP	+10.58
8	22	04/93 RFO	C/L Special Int	VOL	0.72	11TH TSP	-7.18
8	29	04/93 RFO	Bobbin	ADS	3.78	5TH TSP	+23.14
		04/93 RFO	H/L Special Int	VOL	0.43	5TH TSP	+23.14
8	56	04/93 RFO	Bobbin	NQI	0.30	1ST TSP	-0.08
		04/93 RFO	H/L Special Int	SAI	0.25	1ST TSP	-0.06
9	10	04/93 RFO	Bobbin	NQI	0.63	3RD TSP	+25.38
9	20	04/93 RFO	C/L Special Int	VOL	0.35	12TH TSP	+19.61
9	31	04/93 RFO	Bobbin	ADS	6.06	2ND TSP	+16.50
9	35	04/93 RFO	C/L Special Int	VOL	0.36	TTS-CL	+20.22
9	49	04/93 RFO	Bobbin	NQI	0.67	6TH TSP	+4.91
		04/93 RFO	H/L Special Int	VOL	0.76	6TH TSP	+5.51
9	51	04/93 RFO	Bobbin	NQI	1.00	6TH TSP	+37.46
		04/93 RFO	H/L Special Int	VOL	0.80	7TH TSP	-8.00
9	66	04/93 RFO	Bobbin	NQI	0.24	2ND TSP	-0.02

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	SAI	0.29	2ND TSP	-0.02
9	77	04/93 RFO	C/L Special Int	VOL	0.56	10TH TSP	+34.56
9	98	04/93 RFO	H/L Tubesheet	SAI	0.18	TTS-HL	-0.06
9	106	04/93 RFO	H/L Tubesheet	SAI	0.40	TTS-HL	+0.05
10	11	04/93 RFO	C/L Special Int	VOL	0.33	13TH TSP	+4.98
10	21	04/93 RFO	Bobbin	ADS	2.21	1ST TSP	+4.44
10	26	04/93 RFO	C/L Special Int	VOL	0.24	11TH TSP	-3.15
10	106	04/93 RFO	H/L Tubesheet	SAI	0.66	TTS-HL	+0.00
11	8	04/93 RFO	C/L Special Int	VOL	0.29	15TH TSP	+6.43
11	13	04/93 RFO	C/L Special Int	VOL	0.12	9TH TSP	-2.90
11	62	04/93 RFO	C/L Special Int	VOL	0.60	13TH TSP	+4.63
11	80	04/93 RFO	Bobbin	NQI	0.83	2ND TSP	+0.16
11	97	04/93 RFO	C/L Special Int	VOL	0.39	11TH TSP	-2.64
11	110	04/93 RFO	C/L Special Int	VOL	0.37	12TH TSP	+15.54
11	111	04/93 RFO	Bobbin	NQI	1.78	14TH TSP	+1.91
		04/93 RFO	C/L Special Int	VOL	0.46	14TH TSP	+1.97
12	9	04/93 RFO	C/L Special Int	VOL	0.15	12TH TSP	+9.57
12	14	04/93 RFO	C/L Special Int	VOL	0.22	11TH TSP	-3.17
12	39	04/93 RFO	C/L Special Int	VOL	0.51	17TH TSP	+15.06
12	97	04/93 RFO	Bobbin	ODI	0.37	3RD TSP	-0.04
13	105	04/93 RFO	Bobbin	NQI	0.75	2ND TSP	-0.13
14	20	04/93 RFO	Bobbin	NQI	0.51	7TH TSP	+3.67
14	61	04/93 RFO	Bobbin	IDI	15.03	TE-HL	+6.71
		04/93 RFO	H/L Special Int	MAI	1.91	TE-HL	+6.71
14	69	04/93 RFO	Bobbin	IDI	11.48	TE-HL	+7.63
		04/93 RFO	H/L Special Int	MAI	1.47	TE-HL	+7.63
14	98	04/93 RFO	Bobbin	IDI	9.17	TE-HL	+14.21
		04/93 RFO	H/L Special Int	SAI	0.46	TTS-HL	-5.97
14	112	04/93 RFO	Bobbin	IDI	29.98	TE-CL	+1.54
15	4	04/93 RFO	C/L Special Int	VOL	0.23	9TH TSP	+9.81
		04/93 RFO	C/L Special Int	VOL	0.31	9TH TSP	+8.57
15	11	04/93 RFO	C/L Special Int	VOL	0.57	12TH TSP	+6.90
15	22	04/93 RFO	Bobbin	NQI	0.58	13TH TSP	+6.20
		04/93 RFO	C/L Special Int	VOL	0.13	18TH TSP	+3.37
		04/93 RFO	C/L Special Int	VOL	0.23	20TH TSP	-26.56
		04/93 RFO	C/L Special Int	VOL	0.27	13TH TSP	+6.37
15	38	04/93 RFO	Bobbin	ADS	5.55	3RD TSP	+36.32
15	48	04/93 RFO	C/L Special Int	VOL	0.31	14TH TSP	+3.60
15	56	04/93 RFO	H/L Tubesheet	VOL	0.36	TTS-HL	-4.72
15	58	04/93 RFO	H/L Tubesheet	SAI	0.51	TTS-HL	+0.04
15	79	04/93 RFO	C/L Special Int	VOL	0.24	11TH TSP	+30.40
16	11	04/93 RFO	C/L Special Int	VOL	0.39	11TH TSP	+27.08
16	13	04/93 RFO	Bobbin	NQI	0.55	11TH TSP	+23.72
		04/93 RFO	C/L Special Int	VOL	0.24	11TH TSP	+20.31
		04/93 RFO	C/L Special Int	VOL	0.57	11TH TSP	+22.45
16	15	04/93 RFO	C/L Special Int	VOL	0.14	14TH TSP	+2.91
		04/93 RFO	C/L Special Int	VOL	0.24	14TH TSP	+5.69
		04/93 RFO	C/L Special Int	VOL	0.45	14TH TSP	+9.22
16	27	04/93 RFO	C/L Special Int	VOL	0.17	17TH TSP	+8.68
16	33	04/93 RFO	Bobbin	ODI	1.37	10TH TSP	+29.12
		04/93 RFO	C/L Special Int	VOL	0.29	10TH TSP	+28.65
16	56	04/93 RFO	Bobbin	NQI	2.08	18TH TSP	+4.89
16	101	04/93 RFO	Bobbin	ODI	0.47	3RD TSP	-0.10
17	8	04/93 RFO	Bobbin	NQI	0.99	10TH TSP	+9.17
		04/93 RFO	C/L Special Int	VOL	0.72	10TH TSP	+8.79
17	10	04/93 RFO	Bobbin	NQI	0.84	11TH TSP	+14.97
		04/93 RFO	C/L Special Int	VOL	0.53	11TH TSP	+14.33
17	13	04/93 RFO	Bobbin	NQI	0.55	17TH TSP	-0.05
17	21	04/93 RFO	C/L Special Int	VOL	0.48	9TH TSP	+25.92
17	32	04/93 RFO	H/L Tubesheet	SAI	0.22	TTS-HL	-3.66
17	34	04/93 RFO	Bobbin	WAR	2.46	16TH TSP	-0.40
		04/93 RFO	C/L Special Int	VOL	0.35	16TH TSP	-0.73
17	55	04/93 RFO	Bobbin	IDI	1.69	TE-HL	+12.36
17	61	04/93 RFO	Bobbin	IDI	4.26	TE-HL	+11.84
		04/93 RFO	H/L Special Int	MAI	3.56	TE-HL	+11.84



\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
17	72	04/93 RFO	Bobbin	NQI	0.85	9TH TSP	+27.19
		04/93 RFO	C/L Special Int	VOL	0.44	9TH TSP	+27.50
17	75	04/93 RFO	H/L Tubesheet	SAI	0.43	TTS-HL	+0.01
18	11	04/93 RFO	C/L Special Int	NQI	0.98	13TH TSP	+1.18
		04/93 RFO	C/L Special Int	NQI	2.00	13TH TSP	-2.61
18	27	04/93 RFO	Bobbin	NQI	0.52	17TH TSP	+0.00
18	77	04/93 RFO	Bobbin	ADS	7.18	10TH TSP	+17.77
		04/93 RFO	C/L Special Int	VOL	0.71	10TH TSP	+17.37
18	78	04/93 RFO	C/L Special Int	VOL	0.27	10TH TSP	+32.29
18	88	04/93 RFO	Bobbin	ADS	1.11	17TH TSP	+15.94
		04/93 RFO	C/L Special Int	VOL	0.45	16TH TSP	-6.13
19	46	04/93 RFO	Bobbin	NQI	0.46	10TH TSP	+18.16
		04/93 RFO	Bobbin	NQI	0.69	10TH TSP	+16.07
		04/93 RFO	C/L Special Int	VOL	1.73	10TH TSP	+18.16
		04/93 RFO	C/L Special Int	VOL	3.17	10TH TSP	+16.00
19	87	04/93 RFO	H/L Tubesheet	MAI	0.23	TTS-HL	-0.27
19	95	04/93 RFO	Bobbin	ADS	8.15	10TH TSP	+14.26
		04/93 RFO	C/L Special Int	VOL	0.46	10TH TSP	+14.36
20	42	04/93 RFO	H/L Tubesheet	SCI	0.31	TTS-HL	+0.00
20	87	04/93 RFO	H/L Tubesheet	SAI	0.25	TTS-HL	+0.00
21	7	04/93 RFO	C/L Special Int	VOL	0.29	11TH TSP	-3.25
21	65	04/93 RFO	C/L Special Int	VOL	0.23	17TH TSP	+6.28
22	9	04/93 RFO	C/L Special Int	VOL	0.36	20TH TSP	-5.48 to -2.61
22	18	04/93 RFO	Bobbin	ADS	4.53	2ND TSP	+19.75
		04/93 RFO	H/L Special Int	VOL	0.08	2ND TSP	+19.75
22	21	04/93 RFO	C/L Special Int	VOL	0.48	16TH TSP	+0.00
22	88	04/93 RFO	H/L Special Int	VOL	0.64	5TH TSP	+24.97
		04/93 RFO	H/L Special Int	VOL	0.65	5TH TSP	+16.80
22	94	04/93 RFO	C/L Special Int	VOL	0.30	19TH TSP	+3.14
		04/93 RFO	C/L Special Int	VOL	0.32	19TH TSP	+6.13
23	10	04/93 RFO	Bobbin	ADS	5.55	6TH TSP	+35.52
		04/93 RFO	H/L Special Int	VOL	0.22	6TH TSP	+35.52
23	15	04/93 RFO	C/L Special Int	VOL	0.40	17TH TSP	+4.36
23	54	04/93 RFO	C/L Special Int	VOL	3.36	TTS-CL	+5.39
		04/93 RFO	C/L Special Int	VOL	4.24	TTS-CL	+9.79
23	67	04/93 RFO	Bobbin	ADS	3.41	6TH TSP	+18.44
24	79	04/93 RFO	H/L Tubesheet	VOL	0.60	TTS-HL	+2.80
24	91	04/93 RFO	C/L Special Int	VOL	0.43	9TH TSP	+19.15
25	7	04/93 RFO	Bobbin	ID1	3.23	TE-HL	+10.73
25	37	04/93 RFO	C/L Special Int	VOL	0.55	TTS-CL	+20.90
25	44	04/93 RFO	C/L Special Int	VOL	1.84	10TH TSP	-13.03
26	14	04/93 RFO	C/L Special Int	VOL	0.40	20TH TSP	-14.80
26	69	04/93 RFO	Bobbin	ADS	5.65	2ND TSP	+21.32
27	31	04/93 RFO	Bobbin	WAR	1.45	3AVB	+0.00
27	32	04/93 RFO	Bobbin	WAR	1.26	4AVB	+0.00
27	51	04/93 RFO	Bobbin	ADS	4.45	12TH TSP	+17.59
		04/93 RFO	C/L Special Int	VOL	1.96	12TH TSP	+17.67
27	56	04/93 RFO	Bobbin	ADS	8.78	17TH TSP	+10.21
		04/93 RFO	C/L Special Int	VOL	2.47	17TH TSP	+10.19
27	58	04/93 RFO	C/L Special Int	VOL	0.59	12TH TSP	+15.12
28	31	04/93 RFO	C/L Special Int	VOL	0.30	11TH TSP	+19.02
29	77	04/93 RFO	C/L Special Int	VOL	0.16	17TH TSP	+19.33
30	58	04/93 RFO	C/L Special Int	VOL	1.10	10TH TSP	-6.85
30	75	04/93 RFO	C/L Special Int	VOL	0.64	9TH TSP	+7.94
30	102	04/93 RFO	C/L Special Int	VOL	0.18	18TH TSP	+5.36
30	105	04/93 RFO	Bobbin	ODI	1.39	3AVB	+0.00
		04/93 RFO	U-Bend	VOL	0.34	2AVB	-0.15
		04/93 RFO	U-Bend	VOL	0.43	3AVB	+0.17
31	32	04/93 RFO	C/L Special Int	VOL	0.93	10TH TSP	-1.53
31	33	04/93 RFO	Bobbin	ADS	6.05	1ST TSP	+13.18
31	38	04/93 RFO	Bobbin	WAR	0.46	2AVB	+0.00
31	41	04/93 RFO	Bobbin	ADS	5.96	11TH TSP	+36.48
31	50	04/93 RFO	Bobbin	WAR	0.89	1AVB	+0.00
31	67	04/93 RFO	Bobbin	WAR	0.99	3AVB	+0.00
31	78	04/93 RFO	H/L Tubesheet	SAI	2.27	TTS-HL	+0.00

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G C - ATTACHMENT #3 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
32	56	04/93 RFO	C/L Special Int	VOL	2.07	10TH TSP	+25.69
		04/93 RFO	C/L Special Int	VOL	2.57	10TH TSP	+28.42
32	74	04/93 RFO	C/L Special Int	VOL	0.18	17TH TSP	+7.08
		04/93 RFO	C/L Special Int	VOL	0.53	17TH TSP	+9.28
33	33	04/93 RFO	Bobbin	WAR	1.86	3AVB	+0.00
33	46	04/93 RFO	Bobbin	WAR	0.89	2AVB	+0.00
33	97	04/93 RFO	C/L Special Int	VOL	0.13	TTS-CL	+1.59
33	101	04/93 RFO	H/L Tubesheet	SAI	0.29	TTS-HL	+0.06
33	102	04/93 RFO	Bobbin	WAR	0.89	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	0.95	2AVB	+0.00
34	13	04/93 RFO	C/L Special Int	VOL	0.73	9TH TSP	+22.37
34	101	04/93 RFO	Bobbin	WAR	0.64	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	0.96	2AVB	+0.00
35	19	04/93 RFO	Bobbin	WAR	1.43	2AVB	+0.00
35	29	04/93 RFO	Bobbin	WAR	1.12	2AVB	+0.00
35	46	04/93 RFO	Bobbin	WAR	1.24	1AVB	+0.00
35	48	04/93 RFO	Bobbin	WAR	1.03	1AVB	+0.00
35	53	04/93 RFO	Bobbin	WAR	1.39	1AVB	+0.00
35	56	04/93 RFO	Bobbin	WAR	1.36	1AVB	+0.00
35	88	04/93 RFO	H/L Tubesheet	SAI	0.30	TTS-HL	+0.12
36	55	04/93 RFO	Bobbin	WAR	0.99	1AVB	+0.00
36	100	04/93 RFO	Bobbin	WAR	1.15	3AVB	+0.00
37	75	04/93 RFO	C/L Special Int	VOL	0.32	13TH TSP	+4.16
37	99	04/93 RFO	C/L Special Int	VOL	0.25	10TH TSP	-7.49
38	25	04/93 RFO	Bobbin	WAR	0.56	3AVB	+0.00
38	31	04/93 RFO	Bobbin	WAR	1.16	4AVB	+0.00
		04/93 RFO	Bobbin	WAR	2.47	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	0.90	2AVB	+0.00
38	51	04/93 RFO	Bobbin	WAR	0.90	2AVB	+0.00
38	67	04/93 RFO	C/L Special Int	VOL	0.34	10TH TSP	+23.46
39	28	04/93 RFO	Bobbin	WAR	2.61	3AVB	+0.00
39	29	04/93 RFO	Bobbin	WAR	2.19	2AVB	+0.00
39	30	04/93 RFO	Bobbin	WAR	0.61	2AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.01	3AVB	+0.00
39	32	04/93 RFO	Bobbin	WAR	1.16	2AVB	+0.00
39	39	04/93 RFO	Bobbin	WAR	0.90	3AVB	+0.00
39	50	04/93 RFO	Bobbin	WAR	1.48	1AVB	+0.00
39	52	04/93 RFO	Bobbin	WAR	1.06	1AVB	+0.00
39	82	04/93 RFO	Bobbin	WAR	1.65	2AVB	+0.00
39	84	04/93 RFO	Bobbin	ADS	5.88	6TH TSP	+22.63
		04/93 RFO	H/L Special Int	VOL	0.68	6TH TSP	+21.63
40	20	04/93 RFO	Bobbin	WAR	0.63	2AVB	+0.00
40	26	04/93 RFO	Bobbin	WAR	0.70	1AVB	+0.00
40	28	04/93 RFO	Bobbin	WAR	0.60	2AVB	+0.00
40	33	04/93 RFO	Bobbin	WAR	0.91	2AVB	+0.00
40	39	04/93 RFO	Bobbin	WAR	1.04	2AVB	+0.00
40	41	04/93 RFO	Bobbin	WAR	2.90	2AVB	+0.00
40	42	04/93 RFO	Bobbin	WAR	1.08	3AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.88	2AVB	+0.00
40	43	04/93 RFO	Bobbin	WAR	1.52	4AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.93	2AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.95	3AVB	+0.00
40	46	04/93 RFO	Bobbin	WAR	0.63	1AVB	+0.00
40	47	04/93 RFO	Bobbin	WAR	1.47	1AVB	+0.00
40	48	04/93 RFO	Bobbin	WAR	1.01	1AVB	+0.00
40	50	04/93 RFO	Bobbin	WAR	1.06	3AVB	+0.00
40	61	04/93 RFO	Bobbin	WAR	4.19	2AVB	+0.00
40	64	04/93 RFO	Bobbin	WAR	0.91	1AVB	+0.00
40	82	04/93 RFO	Bobbin	WAR	0.66	2AVB	+0.00
40	83	04/93 RFO	Bobbin	WAR	1.40	2AVB	+0.00
41	24	04/93 RFO	Bobbin	WAR	1.76	2AVB	+0.00
41	39	04/93 RFO	Bobbin	WAR	1.93	2AVB	+0.00
41	52	04/93 RFO	C/L Special Int	VOL	2.59	9TH TSP	+29.09
41	55	04/93 RFO	Bobbin	WAR	0.99	2AVB	+0.00
41	62	04/93 RFO	C/L Special Int	VOL	0.29	9TH TSP	-12.13
42	54	04/93 RFO	Bobbin	ADS	4.04	6TH TSP	+22.69

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
42	55	04/93 RFO	C/L Special Int	VOL	0.25 11TH TSP	+23.44
42	92	04/93 RFO	Bobbin	NOI	1.68 4TH TSP	+13.43
		04/93 RFO	H/L Special Int	VOL	0.53 4TH TSP	+13.91
42	93	04/93 RFO	H/L Tubesheet	VOL	0.29 TTS-HL	+0.80
42	94	04/93 RFO	H/L Tubesheet	VOL	0.14 TTS-HL	+0.24
43	22	04/93 RFO	Bobbin	WAR	0.58 1AVB	+0.00
43	33	04/93 RFO	Bobbin	WAR	1.08 2AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.83 3AVB	+0.00
43	47	04/93 RFO	Bobbin	WAR	1.30 1AVB	+0.00
43	48	04/93 RFO	Bobbin	WAR	0.91 1AVB	+0.00
43	50	04/93 RFO	Bobbin	WAR	0.96 1AVB	+0.00
43	53	04/93 RFO	Bobbin	WAR	1.30 1AVB	+0.00
43	54	04/93 RFO	Bobbin	WAR	0.79 1AVB	+0.00
43	55	04/93 RFO	Bobbin	WAR	0.82 1AVB	+0.00
43	56	04/93 RFO	Bobbin	WAR	2.10 1AVB	+0.00
		04/93 RFO	Bobbin	ADS	8.08 4TH TSP	+12.20
		04/93 RFO	H/L Special Int	VOL	0.66 4TH TSP	+12.40
43	61	04/93 RFO	H/L Tubesheet	VOL	0.41 TTS-HL	-1.94
44	32	04/93 RFO	C/L Special Int	VOL	0.33 12TH TSP	+17.90
44	42	04/93 RFO	C/L Special Int	VOL	0.20 10TH TSP	-5.95
44	45	04/93 RFO	Bobbin	ADS	3.63 3RD TSP	+7.24
44	59	04/93 RFO	Bobbin	ODI	0.93 11TH TSP	+18.11
44	60	04/93 RFO	Bobbin	ADS	3.87 TTS-HL	+10.06
		04/93 RFO	H/L Special Int	VOL	0.13 TTS-HL	+10.06
44	66	04/93 RFO	C/L Special Int	VOL	0.31 9TH TSP	-2.87
		04/93 RFO	C/L Special Int	VOL	0.34 9TH TSP	-6.84
		04/93 RFO	C/L Special Int	VOL	0.40 9TH TSP	-4.73
		04/93 RFO	C/L Special Int	VOL	0.67 9TH TSP	-9.18
44	92	04/93 RFO	H/L Tubesheet	SCI	0.36 TTS-HL	-0.10
45	40	04/93 RFO	Bobbin	ADS	2.27 5TH TSP	+26.87
47	65	04/93 RFO	C/L Special Int	VOL	0.28 16TH TSP	-1.35
		04/93 RFO	C/L Special Int	VOL	0.40 10TH TSP	+5.33
48	41	04/93 RFO	C/L Special Int	VOL	0.24 17TH TSP	+13.66
48	55	04/93 RFO	C/L Special Int	VOL	1.53 11TH TSP	+11.80
48	60	04/93 RFO	Bobbin	ADS	3.45 6TH TSP	+14.08
		04/93 RFO	H/L Special Int	VOL	0.34 6TH TSP	+14.08
48	66	04/93 RFO	C/L Special Int	VOL	0.20 10TH TSP	-4.38
48	78	04/93 RFO	C/L Special Int	VOL	0.53 10TH TSP	+4.62
48	79	04/93 RFO	H/L Tubesheet	SAI	0.47 TTS-HL	+0.04
		04/93 RFO	C/L Special Int	VOL	0.37 14TH TSP	+10.25
48	84	04/93 RFO	H/L Tubesheet	SAI	0.28 TTS-HL	+0.08
49	34	04/93 RFO	C/L Special Int	VOL	0.18 TTS-CL	+25.06
49	39	04/93 RFO	Bobbin	ODI	3.97 16TH TSP	+0.51
		04/93 RFO	C/L Special Int	VOL	0.40 16TH TSP	+0.14
		04/93 RFO	C/L Special Int	VOL	0.45 17TH TSP	+0.23
49	41	04/93 RFO	Bobbin	WAR	3.76 14TH TSP	+0.00
		04/93 RFO	Bobbin	WAR	4.21 17TH TSP	+0.00
		04/93 RFO	Bobbin	WAR	6.61 16TH TSP	+0.00
		04/93 RFO	C/L Special Int	VOL	0.86 16TH TSP	+0.05
		04/93 RFO	C/L Special Int	VOL	1.08 17TH TSP	+0.17
49	45	04/93 RFO	C/L Special Int	VOL	3.87 10TH TSP	+14.73
49	50	04/93 RFO	Bobbin	ODI	2.40 14TH TSP	+11.50
49	58	04/93 RFO	H/L Tubesheet	VOL	0.23 TTS-HL	+0.32
		04/93 RFO	H/L Tubesheet	VOL	0.25 TTS-HL	+0.65
49	59	04/93 RFO	Bobbin	ODI	3.40 14TH TSP	+11.26
		04/93 RFO	C/L Special Int	VOL	0.44 11TH TSP	+18.87
49	62	04/93 RFO	Bobbin	ODI	1.48 14TH TSP	+11.34
49	66	04/93 RFO	Bobbin	ADS	4.43 3RD TSP	+9.76
		04/93 RFO	H/L Special Int	VOL	0.44 3RD TSP	+9.76
49	69	04/93 RFO	C/L Special Int	VOL	0.17 TTS-CL	+6.57
		04/93 RFO	C/L Special Int	VOL	0.22 TTS-CL	+4.84
49	70	04/93 RFO	Bobbin	ODI	2.19 12TH TSP	+1.14
49	72	04/93 RFO	Bobbin	ADS	2.82 6TH TSP	+41.98
		04/93 RFO	H/L Special Int	VOL	0.22 6TH TSP	+41.98
49	74	04/93 RFO	Bobbin	WAR	2.95 14TH TSP	+0.00

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	Bobbin	WAR	8.12	16TH TSP	+0.00
		04/93 RFO	C/L Special Int	VOL	0.43	16TH TSP	+0.00
		04/93 RFO	C/L Special Int	VOL	0.60	16TH TSP	+0.00
49	76	04/93 RFO	Bobbin	WAR	0.94	16TH TSP	+0.30
		04/93 RFO	C/L Special Int	VOL	0.41	16TH TSP	+0.00
49	79	04/93 RFO	Bobbin	WAR	3.93	16TH TSP	+0.00
		04/93 RFO	C/L Special Int	VOL	0.86	16TH TSP	+0.00
49	81	04/93 RFO	C/L Special Int	VOL	0.54	16TH TSP	+0.00

Total Indications Found = 333  
Total Tubes Found = 246

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
2	35	04/93 RFO	H/L Tubesheet	SAI	0.28	TTS-HL	-1.91
		04/93 RFO	H/L Tubesheet	SAI	0.72	TTS-HL	-4.25
2	38	04/93 RFO	Bobbin	IDI	2.00	TE-HL	+17.71
		04/93 RFO	H/L Tubesheet	MAI	1.60	TTS-HL	-2.11
		04/93 RFO	H/L Special Int	MAI	1.91	TTS-HL	-3.59
2	39	04/93 RFO	Bobbin	IDI	3.30	TE-HL	+10.54
		04/93 RFO	H/L Special Int	MAI	1.80	TTS-HL	-10.71
2	48	04/93 RFO	Bobbin	ADS	11.11	3RD TSP	+19.36
		04/93 RFO	H/L Special Int	VOL	0.48	3RD TSP	+21.67
		04/93 RFO	H/L Special Int	VOL	0.65	3RD TSP	+3.20
		04/93 RFO	H/L Special Int	VOL	1.10	3RD TSP	+6.07
		04/93 RFO	H/L Special Int	VOL	1.17	3RD TSP	+16.08
		04/93 RFO	H/L Special Int	VOL	1.23	3RD TSP	+18.61
2	58	04/93 RFO	C/L Special Int	VOL	0.27	20TH TSP	+4.06
2	61	04/93 RFO	Bobbin	IDI	1.85	TE-HL	+13.51
		04/93 RFO	Bobbin	ODI	7.86	TE-HL	+8.41
		04/93 RFO	H/L Special Int	MAI	1.99	TTS-HL	-12.67
		04/93 RFO	H/L Special Int	SAI	0.90	TTS-HL	-7.38
2	63	04/93 RFO	H/L Tubesheet	SAI	0.36	TTS-HL	+0.03
2	70	04/93 RFO	Bobbin	ADS	8.16	TTS-HL	+22.87
		04/93 RFO	H/L Special Int	VOL	0.41	TTS-HL	+22.76
2	76	04/93 RFO	Bobbin	IDI	3.37	TE-HL	+15.43
		04/93 RFO	H/L Special Int	MAI	1.87	TTS-HL	-6.50
2	79	04/93 RFO	H/L Tubesheet	MAI	0.48	TTS-HL	-1.73
2	89	04/93 RFO	Bobbin	IDI	4.46	TE-HL	+18.50
		04/93 RFO	H/L Tubesheet	MAI	2.98	TTS-HL	-3.03
		04/93 RFO	H/L Special Int	MAI	2.88	TTS-HL	-2.90
2	114	04/93 RFO	Bobbin	NQI	3.55	1ST TSP	+0.00
3	27	04/93 RFO	Bobbin	IDI	2.29	TE-HL	+17.60
		04/93 RFO	H/L Tubesheet	SAI	1.36	TTS-HL	-3.92
		04/93 RFO	H/L Special Int	SAI	1.23	TTS-HL	-3.80
3	36	04/93 RFO	Bobbin	IDI	3.34	TE-HL	+16.22
		04/93 RFO	H/L Tubesheet	SAI	1.32	TTS-HL	-4.68
		04/93 RFO	H/L Special Int	SAI	0.90	TTS-HL	-4.51
3	40	04/93 RFO	H/L Tubesheet	MAI	0.67	TTS-HL	-4.99
3	46	04/93 RFO	C/L Special Int	VOL	0.50	11TH TSP	+8.26
3	50	04/93 RFO	H/L Tubesheet	SAI	0.26	TTS-HL	-0.85
3	75	04/93 RFO	H/L Tubesheet	MAI	0.79	TTS-HL	-4.00
3	76	04/93 RFO	Bobbin	IDI	2.53	TE-HL	+18.43
		04/93 RFO	H/L Tubesheet	MAI	1.56	TTS-HL	-2.77
		04/93 RFO	H/L Special Int	SAI	1.74	TTS-HL	-2.66
3	78	04/93 RFO	Bobbin	IDI	2.94	TE-HL	+16.56
		04/93 RFO	H/L Tubesheet	MAI	1.68	TTS-HL	-4.58
		04/93 RFO	H/L Special Int	MAI	1.56	TTS-HL	-4.89
3	80	04/93 RFO	H/L Tubesheet	MAI	3.28	TTS-HL	-3.80
3	83	04/93 RFO	H/L Tubesheet	SAI	0.41	TTS-HL	-3.09
3	91	04/93 RFO	H/L Tubesheet	SAI	0.47	TTS-HL	-4.98
3	110	04/93 RFO	Bobbin	IDI	2.91	TE-HL	+7.73
3	111	04/93 RFO	Bobbin	NQI	1.00	1ST TSP	-0.04
3	112	04/93 RFO	Bobbin	NQI	1.43	1ST TSP	-0.07
3	113	04/93 RFO	Bobbin	NQI	0.79	2ND TSP	+0.02
		04/93 RFO	Bobbin	NQI	2.97	1ST TSP	+0.00
3	114	04/93 RFO	Bobbin	NQI	2.43	1ST TSP	+0.00
4	7	04/93 RFO	H/L Tubesheet	VOL	0.15	TTS-HL	+3.48
		04/93 RFO	H/L Tubesheet	VOL	0.20	TTS-HL	+1.84
4	35	04/93 RFO	C/L Special Int	VOL	0.44	11TH TSP	+25.21
4	37	04/93 RFO	H/L Tubesheet	VOL	0.75	TTS-HL	-0.13
4	41	04/93 RFO	Bobbin	IDI	5.53	TE-HL	+7.98
		04/93 RFO	H/L Special Int	MAI	0.93	TE-HL	+8.31
4	55	04/93 RFO	Bobbin	ADS	6.09	4TH TSP	+38.85
4	71	04/93 RFO	Bobbin	ODI	1.39	6TH TSP	+23.02
		04/93 RFO	Bobbin	ODI	2.73	6TH TSP	+26.69
		04/93 RFO	H/L Special Int	VOL	0.17	6TH TSP	+25.99
		04/93 RFO	H/L Special Int	VOL	0.26	6TH TSP	+19.37
		04/93 RFO	H/L Special Int	VOL	0.28	6TH TSP	+10.87

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	VOL	0.28	6TH TSP	+13.05
		04/93 RFO	H/L Special Int	VOL	0.36	6TH TSP	+26.69
4	84	04/93 RFO	Bobbin	IDI	7.58	TE-HL	+10.08
		04/93 RFO	H/L Special Int	MAI	1.27	TTS-HL	-12.65
4	97	04/93 RFO	H/L Tubesheet	SAI	0.51	TTS-HL	-4.25
5	4	04/93 RFO	Bobbin	IDI	11.19	TE-HL	+15.15
		04/93 RFO	H/L Special Int	MAI	1.97	TTS-HL	-6.34
5	7	04/93 RFO	Bobbin	IDI	3.11	TE-HL	+11.65
		04/93 RFO	H/L Special Int	MAI	1.46	TTS-HL	-9.94
5	12	04/93 RFO	Bobbin	NQI	7.02	7TH TSP	+15.92
5	14	04/93 RFO	Bobbin	NQI	5.44	7TH TSP	+15.18
5	15	04/93 RFO	Bobbin	NQI	6.10	7TH TSP	+10.22
5	30	04/93 RFO	H/L Tubesheet	SAI	0.13	TTS-HL	-0.15
5	31	04/93 RFO	Bobbin	IDI	3.67	TE-HL	+13.72
		04/93 RFO	H/L Special Int	MAI	1.35	TTS-HL	-7.70
5	41	04/93 RFO	H/L Tubesheet	SAI	0.25	TTS-HL	+0.06
5	45	04/93 RFO	H/L Tubesheet	SAI	0.24	TTS-HL	-0.09
5	48	04/93 RFO	H/L Tubesheet	SAI	0.15	TTS-HL	+0.06
5	56	04/93 RFO	Bobbin	IDI	3.42	TE-HL	+5.34
5	62	04/93 RFO	Bobbin	NQI	0.26	7TH TSP	-0.04
5	67	04/93 RFO	Bobbin	IDI	2.64	TE-HL	+13.26
		04/93 RFO	H/L Special Int	MAI	1.08	TTS-HL	-7.98
5	68	04/93 RFO	Bobbin	IDI	8.88	TE-HL	+10.23
		04/93 RFO	H/L Special Int	MAI	0.85	TTS-HL	-13.01
5	73	04/93 RFO	H/L Tubesheet	VOL	0.18	TTS-HL	-2.61
5	79	04/93 RFO	H/L Tubesheet	SAI	0.43	TTS-HL	-1.03
5	81	04/93 RFO	C/L Special Int	VOL	0.46	TTS-CL	+9.77
5	82	04/93 RFO	C/L Special Int	VOL	0.42	16TH TSP	-1.14
5	86	04/93 RFO	Bobbin	NQI	0.47	11TH TSP	+40.42
5	94	04/93 RFO	Bobbin	ADS	4.97	5TH TSP	+38.62
5	95	04/93 RFO	H/L Tubesheet	VOL	0.21	TTS-HL	-2.58
5	98	04/93 RFO	Bobbin	NQI	0.22	1ST TSP	+0.02
		04/93 RFO	H/L Special Int	SAI	0.13	1ST TSP	+0.02
5	110	04/93 RFO	Bobbin	ODI	1.45	TTS-HL	+4.25
6	1	04/93 RFO	H/L Tubesheet	SAI	0.26	TTS-HL	+0.00
6	24	04/93 RFO	Bobbin	ADS	3.84	13TH TSP	+4.35
		04/93 RFO	C/L Special Int	VOL	0.26	13TH TSP	+3.76
6	33	04/93 RFO	H/L Tubesheet	SAI	0.55	TTS-HL	-5.23
6	35	04/93 RFO	Bobbin	IDI	8.14	TE-HL	+8.40
		04/93 RFO	H/L Tubesheet	SAI	0.76	TTS-HL	-2.92
		04/93 RFO	H/L Special Int	MAI	0.71	TE-HL	+8.42
		04/93 RFO	H/L Special Int	MAI	1.14	TE-HL	+2.43
6	54	04/93 RFO	Bobbin	NQI	0.67	12TH TSP	+9.61
6	57	04/93 RFO	C/L Special Int	VOL	0.34	9TH TSP	+4.87
6	65	04/93 RFO	C/L Special Int	VOL	0.52	9TH TSP	+9.38
6	67	04/93 RFO	Bobbin	IDI	2.35	TE-HL	+18.20
		04/93 RFO	H/L Special Int	MAI	1.06	TTS-HL	-2.12
6	68	04/93 RFO	Bobbin	IDI	8.72	TE-HL	+17.30
		04/93 RFO	H/L Tubesheet	MAI	2.58	TTS-HL	-3.97
		04/93 RFO	H/L Special Int	MAI	3.04	TTS-HL	-4.79
6	71	04/93 RFO	Bobbin	IDI	6.75	TE-HL	+16.34
		04/93 RFO	H/L Special Int	MAI	4.21	TTS-HL	-5.64
6	89	04/93 RFO	Bobbin	ADS	3.72	2ND TSP	+11.69
6	109	04/93 RFO	Bobbin	NQI	0.17	1ST TSP	-0.05
7	35	04/93 RFO	H/L Tubesheet	SAI	0.90	TTS-HL	-4.28
7	47	04/93 RFO	Bobbin	ADS	2.73	TTS-HL	+6.33
		04/93 RFO	H/L Special Int	VOL	0.19	TTS-HL	+9.88
		04/93 RFO	H/L Special Int	VOL	0.28	TTS-HL	+5.83
7	54	04/93 RFO	C/L Special Int	VOL	0.41	TTS-CL	+3.59
7	61	04/93 RFO	H/L Tubesheet	SAI	0.69	TTS-HL	-2.59
7	87	04/93 RFO	Bobbin	IDI	4.29	TE-HL	+9.47
		04/93 RFO	H/L Special Int	MAI	1.17	TE-HL	+8.69
7	91	04/93 RFO	H/L Tubesheet	MAI	1.37	TTS-HL	-3.92
8	20	04/93 RFO	C/L Special Int	VOL	0.76	11TH TSP	+18.78
8	24	04/93 RFO	H/L Tubesheet	SAI	0.28	TTS-HL	-4.20

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
8	63	04/93 RFO	Bobbin	IDI	5.56	TE-HL	+15.66
		04/93 RFO	H/L Special Int	MAI	1.70	TTS-HL	-4.85
8	74	04/93 RFO	Bobbin	IDI	14.29	TE-HL	+6.20
		04/93 RFO	H/L Special Int	MAI	1.47	TTS-HL	-15.00
8	75	04/93 RFO	H/L Tubesheet	SAI	0.69	TTS-HL	-3.09
8	83	04/93 RFO	Bobbin	IDI	5.92	TE-HL	+13.50
		04/93 RFO	H/L Special Int	MAI	0.29	TTS-HL	-3.92
		04/93 RFO	H/L Special Int	MAI	1.31	TTS-HL	-7.70
8	99	04/93 RFO	Bobbin	ADS	5.73	3RD TSP	+10.39
		04/93 RFO	H/L Special Int	VOL	0.23	3RD TSP	+9.08
8	101	04/93 RFO	C/L Special Int	VOL	0.23	16TH TSP	+8.61
8	102	04/93 RFO	Bobbin	IDI	4.59	TE-HL	+16.62
		04/93 RFO	H/L Tubesheet	MAI	1.85	TTS-HL	-4.59
		04/93 RFO	H/L Special Int	MAI	1.31	TTS-HL	-4.32
8	104	04/93 RFO	C/L Special Int	VOL	0.35	11TH TSP	+17.36
9	5	04/93 RFO	Bobbin	ODI	10.52	TE-HL	+14.46
		04/93 RFO	H/L Special Int	MAI	3.50	TTS-HL	-6.91
9	11	04/93 RFO	Bobbin	NOI	0.81	2ND TSP	+0.08
		04/93 RFO	H/L Special Int	SAI	0.19	2ND TSP	+0.13
9	15	04/93 RFO	C/L Special Int	MAI	1.11	TE-CL	+15.12
9	24	04/93 RFO	H/L Tubesheet	SAI	1.30	TTS-HL	-4.00
9	41	04/93 RFO	C/L Special Int	VOL	1.02	11TH TSP	+43.06
9	59	04/93 RFO	U-Bend	NOI	0.18	7TH TSP	+9.95
9	62	04/93 RFO	H/L Tubesheet	MAI	0.83	TTS-HL	-0.68
9	71	04/93 RFO	Bobbin	IDI	3.14	TE-HL	+17.43
		04/93 RFO	H/L Tubesheet	MAI	0.98	TTS-HL	-3.32
		04/93 RFO	H/L Special Int	MAI	0.96	TTS-HL	-4.27
9	77	04/93 RFO	Bobbin	IDI	4.01	TE-HL	+8.10
		04/93 RFO	H/L Tubesheet	SAI	1.00	TTS-HL	-2.96
		04/93 RFO	H/L Special Int	MAI	1.30	TTS-HL	-3.39
		04/93 RFO	H/L Special Int	SAI	1.59	TTS-HL	-16.28
9	81	04/93 RFO	Bobbin	IDI	6.39	TE-HL	+16.20
		04/93 RFO	Bobbin	IDI	8.55	TE-HL	+6.86
		04/93 RFO	H/L Tubesheet	SAI	3.00	TTS-HL	-4.28
		04/93 RFO	H/L Special Int	MAI	2.95	TE-HL	+6.57
		04/93 RFO	H/L Special Int	SAI	3.60	TE-HL	+16.28
9	85	04/93 RFO	Bobbin	IDI	6.70	TE-HL	+10.37
		04/93 RFO	H/L Special Int	MAI	1.20	TTS-HL	-11.56
9	98	04/93 RFO	Bobbin	IDI	2.93	TE-HL	+15.26
10	10	04/93 RFO	C/L Special Int	VOL	0.33	13TH TSP	+7.66
10	85	04/93 RFO	Bobbin	IDI	20.02	TE-HL	+11.41
		04/93 RFO	H/L Special Int	MAI	0.52	TTS-HL	-11.03
10	87	04/93 RFO	Bobbin	IDI	4.52	TE-HL	+14.57
		04/93 RFO	H/L Special Int	MAI	1.31	TTS-HL	-7.52
10	88	04/93 RFO	Bobbin	IDI	1.60	TE-HL	+12.89
		04/93 RFO	H/L Special Int	MAI	1.94	TTS-HL	-8.89
11	12	04/93 RFO	C/L Special Int	VOL	0.37	12TH TSP	+11.20
11	13	04/93 RFO	C/L Special Int	MAI	1.27	TE-CL	+16.84
11	33	04/93 RFO	C/L Special Int	VOL	0.34	16TH TSP	+6.22
11	36	04/93 RFO	C/L Special Int	VOL	0.19	14TH TSP	-2.53
		04/93 RFO	C/L Special Int	VOL	0.23	14TH TSP	-0.57
11	72	04/93 RFO	Bobbin	IDI	9.53	TE-HL	+13.61
		04/93 RFO	H/L Special Int	MAI	3.68	TTS-HL	-8.31
11	84	04/93 RFO	Bobbin	IDI	4.63	TE-HL	+5.55
		04/93 RFO	Bobbin	IDI	16.07	TE-HL	+13.66
		04/93 RFO	Bobbin	IDI	24.98	TE-HL	+10.58
		04/93 RFO	H/L Special Int	MAI	3.65	TE-HL	+13.66
		04/93 RFO	H/L Special Int	MAI	5.17	TE-HL	+10.58
		04/93 RFO	H/L Special Int	SAI	4.78	TE-HL	+5.55
11	85	04/93 RFO	Bobbin	IDI	21.01	TE-HL	+9.46
		04/93 RFO	H/L Special Int	MAI	2.21	TTS-HL	-14.82
11	96	04/93 RFO	Bobbin	IDI	7.20	TE-HL	+17.10
		04/93 RFO	H/L Tubesheet	SAI	3.73	TTS-HL	-3.89
		04/93 RFO	H/L Special Int	SAI	3.79	TTS-HL	-3.61
11	99	04/93 RFO	Bobbin	ADS	5.49	3RD TSP	+9.87

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
11	103	04/93 RFO	Bobbin	IDI 4.25	TE-HL	+14.27
		04/93 RFO	H/L Special Int	SAI 2.45	TTS-HL	-7.94
12	28	04/93 RFO	C/L Special Int	VOL 0.26	10TH TSP	+5.92
12	30	04/93 RFO	H/L Tubesheet	MAI 1.30	TTS-HL	-4.37
12	65	04/93 RFO	Bobbin	ADS 5.77	TTS-HL	+19.68
		04/93 RFO	Bobbin	ADS 8.45	9TH TSP	+22.04
		04/93 RFO	H/L Special Int	VOL 0.24	TTS-HL	-2.37
		04/93 RFO	C/L Special Int	VOL 0.58	9TH TSP	+22.04
12	66	04/93 RFO	Bobbin	ADS 2.22	3RD TSP	+34.32
		04/93 RFO	H/L Special Int	VOL 0.19	4TH TSP	-9.15
12	113	04/93 RFO	C/L Special Int	VOL 0.39	9TH TSP	+16.00
13	11	04/93 RFO	Bobbin	IDI 13.03	TE-HL	+13.30
		04/93 RFO	H/L Special Int	MAI 0.79	TE-HL	+12.41
		04/93 RFO	H/L Special Int	MAI 3.29	TE-HL	+13.71
		04/93 RFO	C/L Special Int	VOL 0.40	9TH TSP	+5.57
13	27	04/93 RFO	Bobbin	IDI 22.70	TE-HL	+16.09
		04/93 RFO	H/L Tubesheet	SAI 5.58	TTS-HL	-4.99
		04/93 RFO	H/L Special Int	SAI 5.24	TTS-HL	-5.11
13	57	04/93 RFO	Bobbin	ODI 0.90	9TH TSP	+37.43
		04/93 RFO	Bobbin	ADS 6.16	13TH TSP	+7.53
		04/93 RFO	Bobbin	ODI 1.38	13TH TSP	+8.70
		04/93 RFO	C/L Special Int	VOL 0.44	12TH TSP	-3.47
		04/93 RFO	C/L Special Int	VOL 0.66	12TH TSP	-2.30
13	65	04/93 RFO	Bobbin	IDI 14.63	TE-HL	+8.01
		04/93 RFO	H/L Special Int	MAI 0.51	TE-HL	+9.06
13	66	04/93 RFO	Bobbin	IDI 16.83	TE-HL	+12.96
		04/93 RFO	H/L Special Int	MAI 2.67	TTS-HL	-8.53
13	71	04/93 RFO	H/L Tubesheet	VOL 0.58	TTS-HL	+1.84
13	75	04/93 RFO	H/L Tubesheet	SAI 0.44	TTS-HL	+0.02
13	77	04/93 RFO	Bobbin	IDI 17.16	TE-HL	+14.80
		04/93 RFO	H/L Tubesheet	MAI 0.18	TTS-HL	+0.08
		04/93 RFO	H/L Special Int	MAI 4.68	TTS-HL	-6.84
13	83	04/93 RFO	Bobbin	IDI 9.39	TE-HL	+10.45
		04/93 RFO	H/L Special Int	MAI 1.28	TTS-HL	-11.42
13	87	04/93 RFO	H/L Tubesheet	MAI 0.55	TTS-HL	-4.32
13	89	04/93 RFO	Bobbin	IDI 7.66	TE-HL	+15.10
		04/93 RFO	H/L Special Int	MAI 3.57	TTS-HL	-6.45
14	48	04/93 RFO	Bobbin	IDI 4.99	TE-HL	+7.35
		04/93 RFO	H/L Special Int	MAI 1.96	TE-HL	+5.72
14	53	04/93 RFO	C/L Special Int	VOL 0.25	12TH TSP	+6.86
14	54	04/93 RFO	C/L Special Int	VOL 0.25	20TH TSP	+3.59
14	56	04/93 RFO	H/L Tubesheet	SAI 0.32	TTS-HL	+0.03
14	80	04/93 RFO	Bobbin	IDI 10.82	TE-HL	+9.33
		04/93 RFO	H/L Special Int	MAI 0.54	TTS-HL	-11.87
14	91	04/93 RFO	H/L Tubesheet	MAI 0.38	TTS-HL	-4.61
15	6	04/93 RFO	H/L Tubesheet	VOL 0.41	TTS-HL	-0.01
15	22	04/93 RFO	Bobbin	ODI 2.44	TTS-HL	+17.68
		04/93 RFO	H/L Special Int	VOL 0.59	TTS-HL	+16.38
15	35	04/93 RFO	C/L Special Int	VOL 0.23	TTS-CL	+9.76
15	38	04/93 RFO	Bobbin	IDI 37.73	TE-HL	+15.60
		04/93 RFO	H/L Special Int	MAI 8.32	TTS-HL	-5.91
15	59	04/93 RFO	Bobbin	IDI 59.64	TE-HL	+17.49
		04/93 RFO	H/L Special Int	MAI 9.65	TTS-HL	-5.34
15	61	04/93 RFO	Bobbin	IDI 3.54	TE-HL	+12.37
		04/93 RFO	Bobbin	IDI 8.97	TE-HL	+9.39
		04/93 RFO	H/L Special Int	MAI 1.27	TTS-HL	-12.10
		04/93 RFO	H/L Special Int	MAI 2.52	TTS-HL	-8.11
15	62	04/93 RFO	Bobbin	ADS 3.50	6TH TSP	+28.49
15	64	04/93 RFO	H/L Tubesheet	MAI 1.39	TTS-HL	-3.98
15	85	04/93 RFO	Bobbin	IDI 13.17	TE-HL	+11.61
		04/93 RFO	H/L Special Int	MAI 1.55	TTS-HL	-11.10
15	91	04/93 RFO	Bobbin	NQI 0.38	2ND TSP	-0.02
15	108	04/93 RFO	C/L Special Int	VOL 0.39	12TH TSP	+7.56
16	11	04/93 RFO	Bobbin	IDI 52.59	TE-HL	+14.93
		04/93 RFO	H/L Tubesheet	MAI 7.07	TTS-HL	-6.50



\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	MAI	7.31	TE-HL	+14.93
		04/93 RFO	C/L Special Int	VOL	0.17	17TH TSP	+14.33
16	13	04/93 RFO	Bobbin	IDI	36.87	TE-HL	+12.90
		04/93 RFO	H/L Special Int	MAI	3.84	TE-HL	+12.99
16	14	04/93 RFO	Bobbin	IDI	6.17	TE-HL	+13.93
		04/93 RFO	H/L Tubesheet	SAI	1.29	TTS-HL	-7.35
		04/93 RFO	H/L Special Int	SAI	0.54	TE-HL	+8.67
		04/93 RFO	H/L Special Int	SAI	1.12	TE-HL	+13.87
16	17	04/93 RFO	Bobbin	IDI	17.09	TE-HL	+11.51
		04/93 RFO	H/L Special Int	MAI	5.68	TE-HL	+11.06
16	21	04/93 RFO	Bobbin	IDI	23.11	TE-HL	+17.48
		04/93 RFO	H/L Tubesheet	MAI	6.16	TTS-HL	-4.01
		04/93 RFO	H/L Special Int	MAI	6.34	TE-HL	+18.31
16	32	04/93 RFO	C/L Special Int	VOL	0.39	19TH TSP	+4.03
16	33	04/93 RFO	Bobbin	ADS	7.31	6TH TSP	+24.84
		04/93 RFO	H/L Special Int	VOL	0.50	7TH TSP	-10.36
		04/93 RFO	H/L Special Int	VOL	0.62	7TH TSP	-20.01
16	41	04/93 RFO	Bobbin	IDI	3.06	TE-HL	+14.05
		04/93 RFO	H/L Special Int	SAI	1.72	TTS-HL	-8.37
16	47	04/93 RFO	Bobbin	IDI	3.81	TE-HL	+7.05
		04/93 RFO	H/L Special Int	MAI	1.04	TE-HL	+5.81
16	63	04/93 RFO	C/L Special Int	VOL	0.20	12TH TSP	+6.53
		04/93 RFO	C/L Special Int	VOL	0.21	12TH TSP	+15.54
		04/93 RFO	C/L Special Int	VOL	1.00	12TH TSP	+12.80
16	98	04/93 RFO	H/L Tubesheet	SAI	0.32	TTS-HL	-2.09
17	12	04/93 RFO	Bobbin	IDI	5.36	TE-HL	+17.57
		04/93 RFO	H/L Tubesheet	MAI	1.19	TTS-HL	-3.89
		04/93 RFO	H/L Special Int	MAI	0.87	TE-HL	+18.31
17	15	04/93 RFO	Bobbin	IDI	15.36	TE-HL	+15.79
		04/93 RFO	H/L Special Int	MAI	5.19	TE-HL	+15.90
17	24	04/93 RFO	Bobbin	IDI	7.31	TE-HL	+13.38
		04/93 RFO	H/L Special Int	MAI	1.26	TE-HL	+14.49
17	42	04/93 RFO	C/L Special Int	VOL	0.80	8TH TSP	-2.84
17	81	04/93 RFO	H/L Tubesheet	SAI	0.88	TTS-HL	-4.50
17	85	04/93 RFO	Bobbin	IDI	3.04	TE-HL	+15.47
		04/93 RFO	H/L Special Int	MAI	1.38	TTS-HL	-6.42
17	94	04/93 RFO	Bobbin	IDI	12.00	TE-HL	+11.16
		04/93 RFO	H/L Special Int	MAI	0.76	TTS-HL	-10.91
18	4	04/93 RFO	Bobbin	IDI	6.77	TE-HL	+10.35
		04/93 RFO	H/L Special Int	MAI	1.04	TTS-HL	-11.64
18	11	04/93 RFO	Bobbin	IDI	3.34	TE-HL	+16.12
		04/93 RFO	H/L Special Int	SAI	1.22	TTS-HL	-5.39
18	16	04/93 RFO	Bobbin	IDI	9.10	TE-HL	+14.95
		04/93 RFO	H/L Special Int	SAI	3.83	TE-HL	+14.95
18	34	04/93 RFO	Bobbin	IDI	15.86	TE-HL	+13.04
		04/93 RFO	H/L Special Int	MAI	2.85	TTS-HL	-9.89
18	38	04/93 RFO	C/L Special Int	VOL	0.65	11TH TSP	-2.36
18	48	04/93 RFO	Bobbin	ADS	3.80	6TH TSP	+16.72
		04/93 RFO	H/L Special Int	VOL	0.44	6TH TSP	+16.27
18	89	04/93 RFO	Bobbin	IDI	3.83	TE-HL	+12.38
		04/93 RFO	H/L Special Int	MAI	2.34	TE-HL	+14.23
18	96	04/93 RFO	Bobbin	IDI	5.36	TE-HL	+14.43
		04/93 RFO	H/L Special Int	MAI	0.56	TTS-HL	-7.24
		04/93 RFO	H/L Special Int	SAI	0.64	TTS-HL	-13.96
19	22	04/93 RFO	Bobbin	IDI	3.53	TE-HL	+16.96
		04/93 RFO	H/L Tubesheet	MAI	4.37	TTS-HL	-4.23
		04/93 RFO	H/L Special Int	MAI	1.54	TE-HL	+18.37
19	36	04/93 RFO	Bobbin	ADS	10.14	6TH TSP	+33.33
		04/93 RFO	H/L Special Int	VOL	1.00	7TH TSP	-11.66
19	62	04/93 RFO	Bobbin	IDI	22.66	TE-HL	+6.96
		04/93 RFO	Bobbin	IDI	27.18	TE-HL	+13.19
		04/93 RFO	H/L Special Int	MAI	0.48	TTS-HL	-7.37
		04/93 RFO	H/L Special Int	MAI	2.43	TTS-HL	-13.65
19	86	04/93 RFO	Bobbin	ADS	10.50	11TH TSP	+13.59
		04/93 RFO	C/L Special Int	VOL	0.76	11TH TSP	+13.59

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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

S/G D - ATTACHMENT #4 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
19	87	04/93 RFO	Bobbin	IDI	4.26	TE-HL	+12.45
		04/93 RFO	H/L Special Int	MAI	1.50	TTS-HL	-9.59
19	108	04/93 RFO	Bobbin	ADS	12.83	TTS-CL	+14.27
		04/93 RFO	C/L Special Int	VOL	1.21	TTS-CL	+14.02
20	30	04/93 RFO	C/L Special Int	VOL	0.37	12TH TSP	+6.82
20	38	04/93 RFO	Bobbin	IDI	7.87	TE-HL	+11.18
		04/93 RFO	H/L Special Int	MAI	1.40	TTS-HL	-10.92
20	54	04/93 RFO	H/L Tubesheet	VOL	2.18	TTS-HL	+0.96
20	66	04/93 RFO	Bobbin	ADS	4.82	1ST TSP	+15.58
		04/93 RFO	H/L Special Int	VOL	0.52	1ST TSP	+14.78
20	74	04/93 RFO	Bobbin	ADS	7.01	TTS-HL	+8.30
		04/93 RFO	Bobbin	ADS	3.19	2ND TSP	+3.83 to +38.36
		04/93 RFO	Bobbin	ADS	5.45	1ST TSP	+3.45 to +14.67
		04/93 RFO	H/L Special Int	VOL	0.40	TTS-HL	+8.41
		04/93 RFO	H/L Special Int	VOL	0.70	TTS-HL	+7.52
		04/93 RFO	H/L Special Int	VOL	0.24	2ND TSP	+20.64
20	76	04/93 RFO	Bobbin	ADS	2.29	4TH TSP	+13.95
20	90	04/93 RFO	Bobbin	IDI	6.36	TE-HL	+14.36
		04/93 RFO	H/L Special Int	MAI	1.85	TTS-HL	-7.24
20	92	04/93 RFO	Bobbin	IDI	8.53	TE-HL	+11.31
		04/93 RFO	H/L Special Int	MAI	1.33	TTS-HL	-10.40
20	98	04/93 RFO	C/L Special Int	VOL	0.30	9TH TSP	-1.38
		04/93 RFO	C/L Special Int	VOL	0.32	9TH TSP	-9.07
20	106	04/93 RFO	C/L Special Int	VOL	0.61	12TH TSP	+2.12
21	34	04/93 RFO	Bobbin	IDI	12.51	TE-HL	+2.79
		04/93 RFO	H/L Special Int	MAI	4.61	TE-HL	+2.96
21	43	04/93 RFO	Bobbin	IDI	23.35	TE-HL	+9.42
		04/93 RFO	H/L Special Int	MAI	1.22	TE-HL	+9.05
21	75	04/93 RFO	H/L Tubesheet	MAI	0.42	TTS-HL	-2.37
22	10	04/93 RFO	Bobbin	IDI	23.95	TE-HL	+16.67
		04/93 RFO	H/L Tubesheet	MAI	8.77	TTS-HL	-4.97
		04/93 RFO	H/L Special Int	MAI	7.09	TTS-HL	-4.80
22	27	04/93 RFO	C/L Special Int	VOL	0.97	13TH TSP	+4.24
22	30	04/93 RFO	Bobbin	IDI	4.43	TE-HL	+6.15
		04/93 RFO	H/L Special Int	MAI	1.21	TE-HL	+6.15
22	38	04/93 RFO	Bobbin	IDI	86.25	TE-HL	+15.35
		04/93 RFO	H/L Special Int	MAI	7.88	TTS-HL	-6.92
22	81	04/93 RFO	Bobbin	IDI	0.47	3AVB	+0.00
23	11	04/93 RFO	Bobbin	IDI	2.91	TE-HL	+16.80
		04/93 RFO	H/L Special Int	MAI	0.32	TTS-HL	-4.84
23	56	04/93 RFO	Bobbin	IDI	6.26	TE-HL	+11.44
		04/93 RFO	H/L Special Int	MAI	0.41	TE-HL	+11.05
23	76	04/93 RFO	C/L Special Int	SAI	0.27	10TH TSP	+29.50
23	92	04/93 RFO	Bobbin	IDI	11.93	TE-HL	+6.98
		04/93 RFO	H/L Special Int	MAI	0.86	TE-HL	+7.45
24	19	04/93 RFO	Bobbin	IDI	7.17	TE-HL	+17.65
		04/93 RFO	H/L Tubesheet	MAI	4.04	TTS-HL	-3.97
		04/93 RFO	H/L Special Int	MAI	3.06	TTS-HL	-4.30
24	20	04/93 RFO	Bobbin	IDI	3.46	TE-HL	+15.73
		04/93 RFO	H/L Special Int	SAI	1.77	TE-HL	+16.17
24	23	04/93 RFO	Bobbin	IDI	14.01	TE-HL	+16.73
		04/93 RFO	H/L Tubesheet	MAI	4.51	TTS-HL	-5.17
		04/93 RFO	H/L Special Int	MAI	3.57	TE-HL	+17.49
24	108	04/93 RFO	Bobbin	IDI	3.27	TE-HL	+18.05
25	10	04/93 RFO	C/L Special Int	VOL	0.27	11TH TSP	+14.18
25	54	04/93 RFO	Bobbin	IDI	23.17	TE-HL	+12.68
		04/93 RFO	H/L Special Int	MAI	1.38	TE-HL	+12.54
25	104	04/93 RFO	Bobbin	ADS	6.71	2ND TSP	+8.33
		04/93 RFO	H/L Special Int	VOL	0.23	2ND TSP	+7.56
26	28	04/93 RFO	Bobbin	ADS	6.58	9TH TSP	+38.36
		04/93 RFO	C/L Special Int	VOL	1.40	8TH TSP	-5.97
26	30	04/93 RFO	C/L Special Int	VOL	0.53	11TH TSP	+27.06
26	40	04/93 RFO	Bobbin	IDI	6.80	TE-HL	+16.53
		04/93 RFO	H/L Tubesheet	MAI	1.00	TTS-HL	-4.20
		04/93 RFO	H/L Special Int	MAI	1.07	TTS-HL	-6.08

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G D - ATTACHMENT #4 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
26	66	04/93 RFO	Bobbin	IDI	7.81	TE-HL	+10.41
		04/93 RFO	H/L Special Int	MAI	1.19	TTS-HL	-6.62
		04/93 RFO	H/L Special Int	SAI	1.06	TTS-HL	-12.71
26	80	04/93 RFO	Bobbin	IDI	1.66	TE-HL	+8.15
26	81	04/93 RFO	Bobbin	IDI	1.48	TE-HL	+11.28
26	96	04/93 RFO	H/L Tubesheet	SAI	0.13	TTS-HL	-0.80
27	18	04/93 RFO	Bobbin	IDI	2.73	TE-HL	+16.47
		04/93 RFO	H/L Special Int	SAI	1.45	TE-HL	+17.31
27	32	04/93 RFO	H/L Tubesheet	NGI	0.41	TTS-HL	+0.08
27	35	04/93 RFO	Bobbin	IDI	1.52	TE-HL	+16.78
		04/93 RFO	H/L Special Int	MAI	0.91	TTS-HL	-4.43
27	55	04/93 RFO	C/L Special Int	VOL	0.28	10TH TSP	-15.79
27	69	04/93 RFO	Bobbin	IDI	45.01	TE-HL	+3.62
		04/93 RFO	H/L Special Int	MAI	1.06	TE-HL	+3.87
27	75	04/93 RFO	H/L Tubesheet	SCI	0.24	TTS-HL	-0.03
27	82	04/93 RFO	Bobbin	IDI	4.75	TE-HL	+11.42
27	84	04/93 RFO	C/L Special Int	VOL	0.25	11TH TSP	+26.38
27	98	04/93 RFO	C/L Special Int	VOL	0.34	16TH TSP	+7.73
28	9	04/93 RFO	H/L Tubesheet	VOL	0.16	TTS-HL	+1.70
28	43	04/93 RFO	C/L Special Int	VOL	0.83	TTS-CL	+11.95
28	57	04/93 RFO	Bobbin	ODI	2.28	11TH TSP	+24.24
		04/93 RFO	C/L Special Int	VOL	0.59	11TH TSP	+24.28
28	70	04/93 RFO	Bobbin	IDI	28.29	TE-HL	+3.95
		04/93 RFO	H/L Special Int	MAI	2.42	TE-HL	+4.87
28	71	04/93 RFO	H/L Tubesheet	MAI	0.74	TTS-HL	+0.09
28	99	04/93 RFO	Bobbin	ODI	1.91	TTS-HL	+13.52
		04/93 RFO	H/L Special Int	VOL	0.71	TTS-HL	+13.81
29	10	04/93 RFO	H/L Tubesheet	SAI	0.77	TTS-HL	+0.04
29	11	04/93 RFO	H/L Tubesheet	MAI	0.61	TTS-HL	-2.69
29	20	04/93 RFO	Bobbin	IDI	1.30	TE-HL	+16.40
		04/93 RFO	H/L Tubesheet	SAI	0.38	TTS-HL	-3.38
		04/93 RFO	H/L Special Int	SAI	0.48	TE-HL	+17.77
29	21	04/93 RFO	H/L Tubesheet	MAI	0.51	TTS-HL	-3.86
29	23	04/93 RFO	H/L Tubesheet	SAI	0.61	TTS-HL	-2.72
29	34	04/93 RFO	Bobbin	IDI	5.04	TE-HL	+16.54
		04/93 RFO	H/L Tubesheet	MAI	1.28	TTS-HL	-3.78
		04/93 RFO	H/L Special Int	MAI	1.37	TTS-HL	-4.60
29	43	04/93 RFO	Bobbin	IDI	2.41	TE-HL	+17.23
		04/93 RFO	H/L Tubesheet	SAI	0.54	TTS-HL	-2.84
		04/93 RFO	H/L Special Int	SAI	0.63	TTS-HL	-4.18
29	46	04/93 RFO	Bobbin	IDI	7.31	TE-HL	+12.32
		04/93 RFO	H/L Special Int	MAI	0.44	TTS-HL	-10.35
29	49	04/93 RFO	Bobbin	IDI	7.10	TE-HL	+16.89
		04/93 RFO	H/L Tubesheet	MAI	2.30	TTS-HL	-3.40
		04/93 RFO	H/L Special Int	MAI	2.34	TTS-HL	-3.76
29	54	04/93 RFO	Bobbin	IDI	2.27	TE-HL	+10.63
		04/93 RFO	H/L Special Int	MAI	0.34	TE-HL	+10.65
29	66	04/93 RFO	Bobbin	IDI	3.07	TE-HL	+12.90
		04/93 RFO	Bobbin	IDI	3.51	TE-HL	+11.04
		04/93 RFO	H/L Special Int	MAI	0.36	TTS-HL	-11.35
		04/93 RFO	H/L Special Int	MAI	1.53	TTS-HL	-8.63
		04/93 RFO	C/L Special Int	VOL	0.51	10TH TSP	+9.93
		04/93 RFO	C/L Special Int	VOL	0.69	10TH TSP	+4.00
29	67	04/93 RFO	Bobbin	IDI	12.89	TE-HL	+11.15
		04/93 RFO	H/L Special Int	MAI	2.69	TTS-HL	-11.48
29	79	04/93 RFO	H/L Tubesheet	MAI	0.57	TTS-HL	-0.17
29	88	04/93 RFO	Bobbin	IDI	8.36	TE-HL	+12.38
		04/93 RFO	H/L Special Int	MAI	1.99	TTS-HL	-9.12
30	11	04/93 RFO	C/L Special Int	VOL	0.23	10TH TSP	+16.90
30	14	04/93 RFO	C/L Special Int	VOL	0.23	15TH TSP	+6.80
		04/93 RFO	C/L Special Int	VOL	0.44	11TH TSP	+5.60
30	39	04/93 RFO	Bobbin	IDI	9.39	TE-HL	+2.22
		04/93 RFO	H/L Special Int	MAI	1.17	TE-HL	+2.24
30	61	04/93 RFO	Bobbin	IDI	3.27	TE-HL	+8.29
		04/93 RFO	Bobbin	IDI	7.94	TE-HL	+6.38

S/G D - ATTACHMENT #4 INDICATIONS OF IMPERFECTIONS

REPORT

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
		04/93 RFO	H/L Special Int	MAI	0.39	TE-HL	+5.97
		04/93 RFO	H/L Special Int	MAI	0.66	TE-HL	+7.73
30	62	04/93 RFO	Bobbin	IDI	2.27	TE-HL	+17.64
		04/93 RFO	H/L Tubesheet	SAI	1.12	TTS-HL	-4.16
		04/93 RFO	H/L Special Int	SAI	1.16	TTS-HL	-2.27
30	64	04/93 RFO	Bobbin	IDI	3.49	TE-HL	+6.46
		04/93 RFO	H/L Special Int	MAI	0.49	TE-HL	+6.21
30	68	04/93 RFO	Bobbin	IDI	8.43	TE-HL	+13.10
		04/93 RFO	H/L Special Int	MAI	1.38	TTS-HL	-8.56
30	69	04/93 RFO	Bobbin	IDI	4.28	TE-HL	+7.04
		04/93 RFO	H/L Special Int	MAI	1.19	TE-HL	+7.82
30	76	04/93 RFO	Bobbin	IDI	6.46	TE-HL	+5.88
		04/93 RFO	H/L Special Int	MAI	0.75	TTS-HL	-16.45
		04/93 RFO	H/L Special Int	SAI	0.34	TTS-HL	-7.66
30	77	04/93 RFO	Bobbin	IDI	23.50	TE-HL	+13.63
		04/93 RFO	H/L Special Int	MAI	0.67	TTS-HL	-9.08
30	80	04/93 RFO	Bobbin	IDI	6.05	TE-HL	+14.45
		04/93 RFO	H/L Special Int	MAI	1.35	TTS-HL	-7.91
30	90	04/93 RFO	Bobbin	ADS	5.24	2ND TSP	+41.39
		04/93 RFO	H/L Special Int	VOL	0.57	3RD TSP	-3.01
31	14	04/93 RFO	Bobbin	IDI	10.41	TE-HL	+12.11
		04/93 RFO	H/L Special Int	MAI	1.49	TTS-HL	-10.16
31	29	04/93 RFO	Bobbin	IDI	9.59	TE-HL	+18.15
		04/93 RFO	H/L Tubesheet	MAI	3.28	TTS-HL	-2.91
		04/93 RFO	H/L Special Int	MAI	2.77	TE-HL	+19.49
31	38	04/93 RFO	Bobbin	IDI	54.68	TE-HL	+15.13
		04/93 RFO	H/L Special Int	MAI	5.40	TTS-HL	-7.34
31	100	04/93 RFO	Bobbin	IDI	4.14	TE-HL	+10.91
32	26	04/93 RFO	Bobbin	ADS	5.92	TTS-CL	+20.73
		04/93 RFO	C/L Special Int	VOL	0.38	20TH TSP	-8.94
32	38	04/93 RFO	Bobbin	IDI	4.54	TE-HL	+16.22
		04/93 RFO	H/L Tubesheet	SAI	0.70	TTS-HL	-4.19
		04/93 RFO	H/L Special Int	SAI	0.57	TTS-HL	-5.24
32	43	04/93 RFO	Bobbin	IDI	4.86	TE-HL	+8.40
		04/93 RFO	H/L Special Int	MAI	2.22	TE-HL	+6.86
32	59	04/93 RFO	C/L Special Int	VOL	0.28	11TH TSP	+2.38
		04/93 RFO	C/L Special Int	VOL	0.30	11TH TSP	-3.47
		04/93 RFO	C/L Special Int	VOL	0.35	10TH TSP	+19.26
		04/93 RFO	C/L Special Int	VOL	0.38	10TH TSP	+22.38
		04/93 RFO	C/L Special Int	VOL	0.52	11TH TSP	+5.12
32	67	04/93 RFO	Bobbin	ODI	6.17	16TH TSP	+1.51
		04/93 RFO	C/L Special Int	VOL	3.35	16TH TSP	+1.51
32	88	04/93 RFO	C/L Special Int	VOL	0.14	15TH TSP	+4.94
		04/93 RFO	C/L Special Int	VOL	0.27	15TH TSP	+10.15
32	92	04/93 RFO	Bobbin	ADS	4.15	2ND TSP	+38.57
32	97	04/93 RFO	C/L Special Int	VOL	0.41	9TH TSP	+25.74
33	20	04/93 RFO	Bobbin	IDI	5.51	TE-HL	+8.88
		04/93 RFO	H/L Special Int	MAI	0.71	TTS-HL	-12.94
33	23	04/93 RFO	Bobbin	NQI	0.24	1ST TSP	+0.05
		04/93 RFO	H/L Special Int	SAI	0.18	13T TSP	+0.18
33	27	04/93 RFO	C/L Special Int	VOL	0.29	11TH TSP	+8.84
33	33	04/93 RFO	Bobbin	IDI	4.12	TE-HL	+17.16
		04/93 RFO	H/L Tubesheet	MAI	0.96	TTS-HL	-3.21
		04/93 RFO	H/L Special Int	MAI	1.31	TTS-HL	-4.31
33	55	04/93 RFO	Bobbin	WAR	0.56	1AVB	+0.00
33	98	04/93 RFO	C/L Special Int	VOL	0.38	13TH TSP	+4.41
34	60	04/93 RFO	Bobbin	IDI	12.00	TE-HL	+18.16
		04/93 RFO	H/L Tubesheet	MAI	0.53	TTS-HL	-2.65
		04/93 RFO	H/L Tubesheet	SAI	0.65	TTS-HL	-0.16
		04/93 RFO	H/L Special Int	MAI	0.52	TTS-HL	-2.39
34	73	04/93 RFO	Bobbin	IDI	3.33	TE-HL	+13.79
		04/93 RFO	H/L Special Int	SAI	2.05	TTS-HL	-8.25
34	84	04/93 RFO	C/L Special Int	VOL	0.36	16TH TSP	+5.26
35	17	04/93 RFO	Bobbin	IDI	1.98	TE-HL	+13.55
		04/93 RFO	H/L Special Int	MAI	0.37	TTS-HL	-8.66

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G D  
 04/93 RFO

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

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

ROW	COL	OUTAGE	TEST TYPE	IMD VOLTS	LOCATION	
35	18	04/93 RFO	Bobbin	NQI	1.15 TTS-CL	+12.25
		04/93 RFO	Bobbin	NQI	0.80 1ST TSP	-0.02
		04/93 RFO	H/L Tubesheet	SAI	0.43 TTS-HL	-6.36
		04/93 RFO	H/L Special Int	SAI	0.39 1ST TSP	+0.04
		04/93 RFO	C/L Special Int	VOL	0.62 15TH TSP	+9.02
35	27	04/93 RFO	Bobbin	ADS	9.09 5TH TSP	+32.95
35	28	04/93 RFO	C/L Special Int	VOL	0.32 12TH TSP	+14.32
35	38	04/93 RFO	Bobbin	IDI	1.72 TE-HL	+16.48
		04/93 RFO	H/L Tubesheet	MAI	0.37 TTS-HL	-3.86
		04/93 RFO	H/L Special Int	MAI	0.60 TTS-HL	-5.74
35	49	04/93 RFO	H/L Tubesheet	NQI	0.28 TTS-HL	-0.15
35	56	04/93 RFO	Bobbin	ADS	7.62 10TH TSP	+35.65
35	58	04/93 RFO	Bobbin	IDI	8.56 TE-HL	+14.13
		04/93 RFO	H/L Special Int	MAI	0.97 TTS-HL	-7.26
35	61	04/93 RFO	C/L Special Int	VOL	0.23 11TH TSP	+2.20
		04/93 RFO	C/L Special Int	VOL	0.42 12TH TSP	+15.73
		04/93 RFO	C/L Special Int	VOL	0.93 12TH TSP	+6.00
35	65	04/93 RFO	Bobbin	IDI	5.26 TE-HL	+17.02
		04/93 RFO	Bobbin	IDI	8.95 TE-HL	+14.56
		04/93 RFO	H/L Tubesheet	MAI	1.66 TTS-HL	-3.29
		04/93 RFO	H/L Special Int	MAI	0.67 TTS-HL	-4.13
		04/93 RFO	H/L Special Int	SAI	0.68 TTS-HL	-7.47
35	98	04/93 RFO	C/L Special Int	VOL	0.66 11TH TSP	+3.90
36	16	04/93 RFO	Bobbin	ADS	3.18 5TH TSP	+36.84
		04/93 RFO	H/L Special Int	VOL	0.73 6TH TSP	-7.51
36	29	04/93 RFO	C/L Special Int	VOL	0.52 17TH TSP	+9.73
36	35	04/93 RFO	H/L Tubesheet	SAI	0.27 TTS-HL	-3.65
36	37	04/93 RFO	C/L Special Int	VOL	0.11 17TH TSP	+6.55
		04/93 RFO	C/L Special Int	VOL	0.13 17TH TSP	+9.11
36	41	04/93 RFO	H/L Tubesheet	SAI	0.51 TTS-HL	-3.60
36	100	04/93 RFO	U-Bend	NQI	0.50 8TH TSP	+2.69
37	26	04/93 RFO	Bobbin	IDI	15.98 TE-HL	+11.10
		04/93 RFO	H/L Special Int	MAI	0.31 TE-HL	+11.74
37	27	04/93 RFO	Bobbin	ADS	3.71 13TH TSP	+6.47
		04/93 RFO	C/L Special Int	VOL	0.71 13TH TSP	+6.27
37	31	04/93 RFO	C/L Special Int	VOL	0.33 TTS-CL	+7.44
		04/93 RFO	C/L Special Int	VOL	0.44 17TH TSP	+6.25
37	33	04/93 RFO	Bobbin	IDI	1.24 TE-HL	+19.62
		04/93 RFO	H/L Tubesheet	MAI	0.29 TTS-HL	-1.15
		04/93 RFO	H/L Special Int	MAI	0.25 TTS-HL	-1.55
37	40	04/93 RFO	C/L Special Int	VOL	0.50 12TH TSP	+6.73
37	46	04/93 RFO	H/L Tubesheet	SCI	0.23 TTS-HL	-0.05
37	63	04/93 RFO	Bobbin	IDI	28.48 TE-HL	+12.47
		04/93 RFO	H/L Tubesheet	SCI	0.49 TTS-HL	-0.04
		04/93 RFO	H/L Special Int	MAI	1.41 TTS-HL	-9.74
37	72	04/93 RFO	C/L Special Int	VOL	0.40 11TH TSP	+14.53
37	73	04/93 RFO	C/L Special Int	VOL	0.31 11TH TSP	+12.56
37	81	04/93 RFO	H/L Tubesheet	MAI	1.03 TTS-HL	-5.53
37	86	04/93 RFO	Bobbin	IDI	11.45 TE-HL	+12.15
		04/93 RFO	H/L Special Int	MAI	1.54 TTS-HL	-9.62
38	24	04/93 RFO	Bobbin	IDI	11.57 TE-HL	+14.01
		04/93 RFO	H/L Tubesheet	MAI	0.72 TTS-HL	-5.73
		04/93 RFO	H/L Special Int	MAI	1.30 TE-HL	+16.02
		04/93 RFO	H/L Special Int	MAI	1.34 TE-HL	+15.00
38	26	04/93 RFO	H/L Tubesheet	MAI	1.50 TTS-HL	-4.57
38	46	04/93 RFO	Bobbin	IDI	23.01 TE-HL	+16.74
		04/93 RFO	H/L Tubesheet	MAI	5.57 TTS-HL	-3.50
		04/93 RFO	H/L Special Int	MAI	4.30 TTS-HL	-5.58
38	51	04/93 RFO	C/L Special Int	VOL	0.34 11TH TSP	+10.28
38	53	04/93 RFO	Bobbin	WAR	1.27 1AVB	+0.00
		04/93 RFO	Bobbin	IDI	10.55 TE-HL	+12.63
38	63	04/93 RFO	Bobbin	IDI	9.52 TE-HL	+13.39
		04/93 RFO	H/L Special Int	MAI	2.96 TTS-HL	-8.96
38	66	04/93 RFO	Bobbin	IDI	3.25 TE-HL	+12.35
		04/93 RFO	H/L Special Int	MAI	3.07 TTS-HL	-9.63

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
38	69	04/93 RFO	Bobbin	ADS	4.67 3RD TSP	+8.51
38	71	04/93 RFO	C/L Special Int	VOL	0.26 TTS-CL	+3.21
		04/93 RFO	C/L Special Int	VOL	0.62 TTS-CL	+8.56
		04/93 RFO	C/L Special Int	VOL	0.15 10TH TSP	+14.51
		04/93 RFO	C/L Special Int	VOL	0.33 10TH TSP	+9.95
		04/93 RFO	C/L Special Int	VOL	0.41 10TH TSP	+9.64
38	72	04/93 RFO	H/L Tubesheet	MAI	0.55 TTS-HL	-3.84
		04/93 RFO	H/L Tubesheet	SAI	0.33 TTS-HL	+0.02
39	30	04/93 RFO	Bobbin	WAR	1.37 3AVB	+0.00
		04/93 RFO	Bobbin	IDI	8.01 TE-HL	+16.53
		04/93 RFO	H/L Tubesheet	MAI	2.68 TTS-HL	-3.14
		04/93 RFO	H/L Tubesheet	SAI	0.27 TTS-HL	-0.05
		04/93 RFO	H/L Special Int	MAI	2.35 TE-HL	+18.39
		04/93 RFO	C/L Special Int	VOL	0.40 11TH TSP	-3.29
39	33	04/93 RFO	C/L Special Int	VOL	0.33 9TH TSP	+24.19
39	34	04/93 RFO	Bobbin	IDI	6.89 TE-HL	+17.52
		04/93 RFO	H/L Tubesheet	MAI	1.06 TTS-HL	-2.46
		04/93 RFO	H/L Special Int	MAI	1.04 TTS-HL	-3.89
39	36	04/93 RFO	Bobbin	WAR	0.74 1AVB	+0.00
39	39	04/93 RFO	Bobbin	IDI	4.54 TE-HL	+9.39
		04/93 RFO	H/L Special Int	MAI	0.63 TE-HL	+9.22
39	45	04/93 RFO	Bobbin	IDI	10.41 TE-HL	+9.17
		04/93 RFO	H/L Special Int	MAI	2.22 TTS-HL	-13.06
39	51	04/93 RFO	Bobbin	WAR	1.22 1AVB	+0.00
39	52	04/93 RFO	Bobbin	IDI	18.09 TE-HL	+13.37
39	67	04/93 RFO	Bobbin	IDI	6.35 TE-HL	+13.30
		04/93 RFO	H/L Special Int	MAI	1.58 TTS-HL	-8.29
39	70	04/93 RFO	H/L Tubesheet	SAI	0.69 TTS-HL	-4.37
39	72	04/93 RFO	Bobbin	IDI	2.25 TE-HL	+15.58
		04/93 RFO	H/L Special Int	MAI	0.43 TTS-HL	-6.14
39	84	04/93 RFO	Bobbin	IDI	8.57 TE-HL	+12.37
		04/93 RFO	H/L Special Int	MAI	1.60 TTS-HL	-9.07
40	31	04/93 RFO	Bobbin	ADS	6.73 12TH TSP	+5.55
		04/93 RFO	C/L Special Int	VOL	0.88 12TH TSP	+5.42
40	52	04/93 RFO	Bobbin	IDI	9.42 TE-HL	+16.64
		04/93 RFO	H/L Tubesheet	SAI	3.91 TTS-HL	-2.78
		04/93 RFO	H/L Special Int	MAI	1.91 TE-HL	+16.23
40	62	04/93 RFO	Bobbin	IDI	8.45 TE-HL	+12.37
		04/93 RFO	H/L Special Int	MAI	1.05 TTS-HL	-8.72
40	66	04/93 RFO	Bobbin	WAR	1.54 1AVB	+0.00
40	75	04/93 RFO	Bobbin	IDI	9.58 TE-HL	+9.14
		04/93 RFO	H/L Special Int	MAI	2.78 TTS-HL	-11.19
		04/93 RFO	H/L Special Int	SAI	0.40 TTS-HL	-16.24
40	93	04/93 RFO	Bobbin	WAR	0.91 1AVB	+0.00
40	94	04/93 RFO	Bobbin	WAR	0.60 1AVB	+0.00
41	21	04/93 RFO	H/L Tubesheet	SAI	0.43 TTS-HL	-0.06
41	22	04/93 RFO	H/L Tubesheet	SAI	0.29 TTS-HL	+0.17
41	23	04/93 RFO	Bobbin	ADS	3.42 TTS-CL	+13.12
41	34	04/93 RFO	H/L Tubesheet	SCI	0.34 TTS-HL	-0.05
41	41	04/93 RFO	H/L Tubesheet	SAI	0.50 TTS-HL	-2.74
41	46	04/93 RFO	H/L Tubesheet	SCI	0.31 TTS-HL	-0.05
41	48	04/93 RFO	Bobbin	HQI	0.28 1ST TSP	-0.05
		04/93 RFO	H/L Special Int	SAI	0.16 1ST TSP	-0.01
41	53	04/93 RFO	Bobbin	IDI	5.90 TE-HL	+15.27
		04/93 RFO	H/L Tubesheet	MAI	1.82 TTS-HL	-5.27
41	94	04/93 RFO	H/L Tubesheet	VOL	0.10 TTS-HL	+0.74
42	36	04/93 RFO	Bobbin	ADS	8.97 7TH TSP	+5.72
		04/93 RFO	U-Bend	VOL	0.71 7TH TSP	+5.65
42	39	04/93 RFO	Bobbin	ADS	5.28 11TH TSP	+34.41
		04/93 RFO	C/L Special Int	VOL	0.54 10TH TSP	-9.28
42	43	04/93 RFO	C/L Special Int	VOL	0.32 9TH TSP	+21.59
42	47	04/93 RFO	C/L Special Int	VOL	0.23 12TH TSP	+11.59
42	51	04/93 RFO	Bobbin	IDI	7.88 TE-HL	+14.22
		04/93 RFO	H/L Special Int	MAI	2.10 TE-HL	+13.92
42	54	04/93 RFO	C/L Special Int	VOL	0.30 16TH TSP	+9.47

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

S/G D  
 04/93 RFO

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

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

ROW	COL	OUTAGE	TEST TYPE	IND VOLTS	LOCATION	
42	70	04/93 RFO	H/L Tubesheet	SAI	0.74 TTS-HL	-4.27
43	37	04/93 RFO	Bobbin	ODI	0.78 3AVB	+0.00
43	46	04/93 RFO	Bobbin	ODI	0.89 1AVB	+0.00
43	47	04/93 RFO	Bobbin	IDI	1.52 TE-HL	+14.00
43	52	04/93 RFO	Bobbin	ADS	8.09 2AVB	+11.54
		04/93 RFO	U-Bend	VOL	2.17 2AVB	+12.43
43	68	04/93 RFO	Bobbin	WAR	0.77 1AVB	+0.00
43	92	04/93 RFO	H/L Tubesheet	NQI	0.22 TTS-HL	-0.20
44	37	04/93 RFO	H/L Special Int	MAI	3.60 TTS-HL	-6.97
44	49	04/93 RFO	Bobbin	ODI	0.68 1AVB	+0.00
44	53	04/93 RFO	Bobbin	ODI	1.00 1AVB	+0.00
44	54	04/93 RFO	Bobbin	IDI	4.11 TE-HL	+11.70
44	59	04/93 RFO	Bobbin	IDI	5.93 TE-HL	+16.15
		04/93 RFO	H/L Tubesheet	SAI	1.20 TTS-HL	-5.52
		04/93 RFO	H/L Tubesheet	SCI	1.34 TTS-HL	+0.01
		04/93 RFO	H/L Special Int	SAI	1.17 TTS-HL	-4.80
44	62	04/93 RFO	C/L Special Int	VOL	0.35 11TH TSP	-6.01
44	66	04/93 RFO	Bobbin	WAR	1.31 1AVB	+0.00
44	70	04/93 RFO	Bobbin	IDI	9.29 TE-HL	+15.32
		04/93 RFO	H/L Special Int	MAI	1.42 TTS-HL	-6.38
		04/93 RFO	C/L Special Int	VOL	0.21 17TH TSP	+21.72
		04/93 RFO	C/L Special Int	VOL	0.22 17TH TSP	+20.70
44	92	04/93 RFO	H/L Tubesheet	NQI	0.33 TTS-HL	-0.22
45	25	04/93 RFO	C/L Special Int	VOL	0.58 9TH TSP	+11.08
45	34	04/93 RFO	Bobbin	ODI	0.87 1AVB	+0.00
45	36	04/93 RFO	C/L Special Int	VOL	0.40 9TH TSP	+16.01
45	41	04/93 RFO	H/L Tubesheet	MAI	0.35 TTS-HL	-1.36
45	44	04/93 RFO	H/L Tubesheet	MAI	0.16 TTS-HL	-3.10
45	57	04/93 RFO	Bobbin	WAR	1.67 1AVB	+0.00
45	59	04/93 RFO	Bobbin	WAR	1.73 1AVB	+0.00
45	61	04/93 RFO	Bobbin	IDI	7.48 TE-HL	+12.09
		04/93 RFO	H/L Special Int	SAI	2.43 TTS-HL	-8.50
45	67	04/93 RFO	Bobbin	IDI	5.06 TE-HL	+15.29
		04/93 RFO	H/L Special Int	MAI	1.44 TTS-HL	-6.62
45	78	04/93 RFO	Bobbin	ODI	0.96 1ST TSP	-0.10
45	83	04/93 RFO	U-Bend	SCI	0.15 8TH TSP	-0.12
46	30	04/93 RFO	Bobbin	ADS	14.46 3AVB	-3.46
		04/93 RFO	U-Bend	VOL	0.85 3AVB	-2.94
46	33	04/93 RFO	Bobbin	ADS	5.44 3RD TSP	+28.15
		04/93 RFO	H/L Special Int	VOL	0.44 3RD TSP	+27.17
46	44	04/93 RFO	C/L Special Int	VOL	0.32 9TH TSP	+22.18
46	48	04/93 RFO	Bobbin	IDI	12.23 TE-HL	+3.71
		04/93 RFO	H/L Special Int	MAI	2.11 TE-HL	+4.94
46	60	04/93 RFO	C/L Special Int	VOL	0.17 10TH TSP	+9.25
46	73	04/93 RFO	C/L Special Int	VOL	0.45 13TH TSP	+2.21
46	78	04/93 RFO	Bobbin	WAR	1.28 1AVB	+0.00
		04/93 RFO	Bobbin	WAR	1.66 1AVB	+0.00
47	35	04/93 RFO	Bobbin	IDI	6.06 TE-HL	+14.52
		04/93 RFO	H/L Special Int	SAI	3.90 TTS-HL	-6.96
47	36	04/93 RFO	Bobbin	ODI	0.84 14TH TSP	+12.50
		04/93 RFO	C/L Special Int	VOL	0.65 14TH TSP	+12.22
47	61	04/93 RFO	Bobbin	NQI	0.14 4TH TSP	+0.00
47	71	04/93 RFO	Bobbin	WAR	1.92 1AVB	+0.00
47	78	04/93 RFO	Bobbin	WAR	1.57 1AVB	+0.00
47	87	04/93 RFO	Bobbin	ODI	0.90 1ST TSP	+1.19
		04/93 RFO	H/L Special Int	SAI	0.11 1ST TSP	+1.28
48	30	04/93 RFO	H/L Tubesheet	SAI	0.57 TTS-HL	-3.43
48	44	04/93 RFO	H/L Tubesheet	SAI	0.15 TTS-HL	-0.09
48	52	04/93 RFO	Bobbin	IDI	3.64 TE-HL	+16.15
		04/93 RFO	H/L Tubesheet	MAI	1.19 TTS-HL	-4.26
		04/93 RFO	H/L Special Int	MAI	1.81 TTS-HL	-4.63
49	36	04/93 RFO	Bobbin	IDI	10.27 TE-HL	+13.17
		04/93 RFO	H/L Special Int	MAI	1.62 TTS-HL	-8.54
49	38	04/93 RFO	C/L Special Int	VOL	0.24 14TH TSP	+0.13
		04/93 RFO	C/L Special Int	VOL	0.75 16TH TSP	-0.01

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

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

ROW	COL	OUTAGE	TEST TYPE	IND	VOLTS	LOCATION	
49	45	04/93 RFO	Bobbin	IDI	3.51	TE-HL	+5.62
49	66	04/93 RFO	C/L Special Int	VOL	0.37	20TH TSP	+4.95
49	70	04/93 RFO	Bobbin	IDI	4.23	TE-HL	+3.03
		04/93 RFO	H/L Special Int	MAI	1.18	TE-HL	+3.71
49	78	04/93 RFO	C/L Special Int	VOL	0.60	17TH TSP	+0.00
49	79	04/93 RFO	C/L Special Int	VOL	0.23	17TH TSP	+0.00
49	81	04/93 RFO	C/L Special Int	VOL	0.44	17TH TSP	+0.00
49	83	04/93 RFO	Bobbin	ODI	0.83	16TH TSP	+10.12

Total Indications Found = 723

Total Tubes Found = 400



\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

ATTACHMENT #6 - TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
2	104	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	114	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	14	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	16	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	18	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	36	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	48	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	113	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
4	61	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
5	47	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
5	48	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
5	87	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
7	3	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
7	43	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
7	91	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
7	96	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
8	55	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	15	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
10	30	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
12	9	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
12	30	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
12	42	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
14	43	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
14	47	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
14	101	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
15	50	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
16	37	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
18	82	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
18	85	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
18	111	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
19	58	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
20	46	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
21	8	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL

ATTACHMENT #6 - TUBES PLUGGED OR REPAIRED								
ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
21	27	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
21	58	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
21	70	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
21	85	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
21	92	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
22	93	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
23	64	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
23	66	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
25	48	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
25	95	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
25	103	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
26	38	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
27	22	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
28	24	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
28	85	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
28	99	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
29	74	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
31	18	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
32	60	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
32	86	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
33	37	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
34	29	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
35	50	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
37	99	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	53	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
42	59	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
44	86	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
47	33	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL

Total Indications Found = 122  
 Total Tubes Found = 61  
 Total Tubes in Input File = 61

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

ATTACHMENT #7 - TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
2	59	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	68	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	101	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	102	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	112	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
2	113	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	10	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	75	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
3	105	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
4	50	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
4	64	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
4	112	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
5	57	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
8	9	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
8	56	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	49	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	51	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	66	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	98	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
9	106	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
10	106	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
11	62	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
11	80	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
15	58	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
16	101	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
17	75	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
18	11	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
19	87	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
20	42	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
20	87	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
31	78	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
33	101	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
35	88	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL

ATTACHMENT #7 - TUBES PLUGGED OR REPAIRED								
ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
37	68	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
42	69	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
42	92	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
42	93	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
42	94	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
43	61	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
44	92	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
46	64	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
48	79	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
48	84	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
49	58	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL

Total Indications Found = 88  
 Total Tubes Found = 44  
 Total Tubes in Input File = 44

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

ATTACHMENT #8 - TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
2	35	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
2	38	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
2	48	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
2	63	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
2	79	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
2	89	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	50	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	75	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	76	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	78	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	80	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	83	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
3	91	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
4	37	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	30	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	41	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	45	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	48	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	79	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
5	98	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
6	1	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
6	67	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
7	35	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	2	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	11	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	59	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	62	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	71	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
9	77	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
13	75	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
13	77	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
14	56	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL
15	6	04/93 RFO	PLG		ROLL		1690	TE-CL
		04/93 RFO	PLG		ROLL		1690	TE-HL

ATTACHMENT #8 - TUBES PLUGGED OR REPAIRED								
ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
16	98	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
20	54	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
23	76	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
26	96	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
27	32	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
27	75	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
28	71	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
29	10	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
29	79	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
31	29	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
32	67	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
33	23	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
34	60	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
35	18	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
35	49	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
35	65	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
36	41	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
36	100	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
37	33	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
37	46	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
37	63	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
37	73	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
38	72	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
39	30	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	21	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	22	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	34	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	41	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	46	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	48	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
41	94	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
43	92	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL
44	59	04/93 RFO	PLG	ROLL			1690	TE-CL
		04/93 RFO	PLG	ROLL			1690	TE-HL

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

ATTACHMENT #8 - TUBES PLUGGED OR REPAIRED								
ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	LENGTH	MATL	LEG
44	70	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
44	92	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
45	41	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
45	44	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
45	78	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
45	83	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
47	87	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL
48	44	04/93	RFO	PLG	ROLL		1690	TE-CL
		04/93	RFO	PLG	ROLL		1690	TE-HL

Total Indications Found = 148  
Total Tubes Found = 74  
Total Tubes in Input File = 74

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

ATTACHMENT #5 - TUBES PLUGGED OR REPAIRED						
ROW	COL	OUTAGE	REPAIR CODE	TYPE	LOCATION	MATL LEG
2	47	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
2	53	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
2	110	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
6	105	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
7	51	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
9	98	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
9	100	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
10	26	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
10	113	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
13	85	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
14	25	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
14	76	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
14	92	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
16	49	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
16	66	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
18	5	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
19	92	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
21	89	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
22	84	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
23	89	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
26	62	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
27	34	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
28	82	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
33	16	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
33	50	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
35	29	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
35	76	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
36	60	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
36	72	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
37	28	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
40	45	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
44	39	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL
44	81	4/93 RFO	PLG	ROLL		1690 TE-CL
		4/93 RFO	PLG	ROLL		1690 TE-HL



ATTACHMENT #5 - TUBES PLUGGED OR REPAIRED					
ROW	COL	OUTAGE	REPAIR CODE	TYPE LOCATION	MATL LEG
47	61	4/93 RFO	PLG	ROLL	1690 TE-CL
		4/93 RFO	PLG	ROLL	1690 TE-HL
48	83	4/93 RFO	PLG	ROLL	1690 TE-CL
		4/93 RFO	PLG	ROLL	1690 TE-HL

Total Indications Found = 70  
Total Tubes Found = 35  
Total Tubes in Input File = 35