

LIC-98-0116
Enclosure

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN STATION UNIT NO. 1

FORM NIS-1

OWNER'S REPORT FOR INSERVICE INSPECTIONS

9809040237 980902
PDR ADOCK 05000285
Q PDR

7. Components Inspected

[illegible]

(12/88) This form (E00029) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NIS-1 (Back)

8. Examination Dates 04/01/98 to 06/04/98
9. Inspection Period Identification Second Period
10. Inspection Interval Identification Third Interval (09/26/93 to 09/25/03)
11. Applicable Edition of Section XI 1989 Addenda N/A
12. Date/Revision of Inspection Plan September 1, 1995, Rev. 3
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
See attachment
14. Abstract of Results of Examinations and Tests.
See attachment
15. Abstract of Corrective Measures.
None

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) N/A Expiration Date N/A
 Date Aug 17 19 98 Signed Jack L. Skiles By OPPD
 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 or Province of NEBRASKA and employed by HSB I + I Co. of HARTFORD, CT have inspected the components described in this Owner's Report during the period JAN 31, 1997 to AUG 17, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's 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, tests, and corrective measures described in this Owner's 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.

K. Saltzman Commissions NB11047 N I, A
 Inspector's Signature National Board, State, Province, and Endorsements
 Date Aug 17 19 98

1998 REFUELING OUTAGE					
CATEGORY	ITEM #	COMPONENT	ISO #	EXAM	RESULTS
B-M-2	B-12.50	12-SDC-20/HCV-348-M2	A-42	VT3	ACCEPTABLE
C-F-1	C5.11	12-LPH-2001/25	B-16	PT/UT	ACCEPTABLE
F-A	F1.20	12-LPH-2001/25-PR	B-16	VT3	ACCEPTABLE
C-F-1	C5.11	12-LPH-2001/30	B-16	PT/UT	ACCEPTABLE
C-F-1	C5.30	2-CH-14/01	B-64	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-14/03	B-64	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-14/04	B-64	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-14/18	B-64	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-14/19	B-64	PT	ACCEPTABLE
F-A	F1.20	2-CH-14/19-PR	B-64	VT3	ACCEPTABLE
F-A	F1.20	2-CH-14/19-PR-1	B-64	VT3	ACCEPTABLE
C-F-1	C5.21	4-CH-13/02	B-76	PT/UT	ACCEPTABLE
C-F-1	C5.21	4-CH-13/04	B-76	PT/UT	ACCEPTABLE
F-A	F1.20	2-CH-26/11-PR-1	B-79	VT3	ACCEPTABLE
C-F-1	C5.30	2-CH-26/14	B-79	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-26/15	B-79	PT	ACCEPTABLE
F-A	F1.20	2-CH-26/15-PR	B-79	VT3	ACCEPTABLE
F-A	F1.20	2-CH-26/15-PR-1	B-79	VT3	ACCEPTABLE
C-F-1	C5.30	2-CH-30/01	B-84	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-30/04	B-84	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-30/05	B-84	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-30/14	B-84	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-30/15	B-84	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-31/01	B-85	PT	ACCEPTABLE
C-C	C3.20	16-FW-2001/02-PL-1	B-07	MT	ACCEPTABLE
C-C	C3.20	16-FW-2001/02-PL-2	B-07	MT	ACCEPTABLE
C-C	C3.20	16-FW-2001/02-PL-3	B-07	MT	ACCEPTABLE
C-C	C3.20	16-FW-2001/02-PL-4	B-07	MT	ACCEPTABLE
F-A	F1.20	10-AC-2001/18-PR-6	B-50	VT3	ACCEPTABLE
F-A	F1.20	10-AC-2001/18-PR-7	B-50	VT3	ACCEPTABLE
F-A	F1.20	8-AC-2001/20-PR	B-52	VT3	ACCEPTABLE
F-A	F1.30	12-RW-1/PR-RWS-124	C-24	VT3	ACCEPTABLE
F-A	F1.30	12-RW-2B/PS-RWH-16	C-28	VT3	ACCEPTABLE
F-A	F1.30	6-AC-2/PR-ACS-382	C-37	VT3	ACCEPTABLE
F-A	F1.30	10-AC-1A/PS-ACH-2	C-38	VT3	ACCEPTABLE
F-A	F1.30	10-AC-1A/PS-ACH-3	C-38	VT3	ACCEPTABLE
F-A	F1.30	8-AC-1/PS-ACH-197	C-39	VT3	ACCEPTABLE
F-A	F1.30	8-AC-2B/PR-ACH-194	C-44	VT3	ACCEPTABLE
F-A	F1.30	8-AC-2B/PR-ACS-28	C-44	VT3	ACCEPTABLE
B-M-2	B12.50	12-SDC-20/HCV-347-M2	A-42	VT3	ACCEPTABLE
F-A	F1.20	6-AC-2002/02-PR	B-49	VT3	ACCEPTABLE
F-A	F1.20	6-AC-2002/04-PR	B-49	VT3	ACCEPTABLE
F-A	F1.20	6-AC-2002/04-PS	B-49	VT3	ACCEPTABLE
F-A	F1.30	16-RW-14/PS-RWS-25/RWH-31	C-25	VT3	ACCEPTABLE
F-A	F1.30	14-RW-2/PR-RWH-34	C-26	VT3	ACCEPTABLE
F-A	F1.30	14-RW-2/PS-RWS-26	C-26	VT3	ACCEPTABLE
F-A	F1.30	10-AC-4A/PR-ACS-83	C-50	VT3	ACCEPTABLE
F-A	F1.30	10-AC-4B/PS-ACH-41	C-50	VT3	ACCEPTABLE
F-A	F1.30	14-RW-2/PR-RWS-38	C-26	VT3	ACCEPTABLE
F-A	F1.20	8-CSS-2003/02-PR-2	B-28	VT3	ACCEPTABLE
F-A	F1.20	24-SI-2002/12-PR	B-37	VT3	ACCEPTABLE

1998 REFUELING OUTAGE					
CATEGORY	ITEM #	COMPONENT	ISO #	EXAM	RESULTS
C-F-1	C5.11	24-SI-2002/13	B-37	PT/UT	ACCEPTABLE
C-F-1	C5.12	24-SI-2002/13E	B-37	PT/UT	ACCEPTABLE
C-F-1	C5.12	24-SI-2002/13I	B-37	PT/UT	ACCEPTABLE
C-F-1	C5.11	24-SI-2002/16	B-37	PT/UT	ACCEPTABLE
C-F-1	C5.12	24-SI-2002/16D	B-37	PT/UT	ACCEPTABLE
F-A	F1.20	24-SI-2002/17-PR-1	B-37	VT3	ACCEPTABLE
C-F-1	C5.11	24-SI-2002/22	B-37	PT/UT	ACCEPTABLE
C-F-1	C5.12	24-SI-2002/22U	B-37	PT/UT	ACCEPTABLE
F-A	F1.20	8-HPSI-2001/02-PR-3	B-40	VT3	ACCEPTABLE
C-F-1	C5.11	6-SI-2002/03	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.12	6-SI-2002/03D	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.12	6-SI-2002/03U	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.11	6-SI-2002/06	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.12	6-SI-2002/06D	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.12	6-SI-2002/06U	B-42	PT/UT	ACCEPTABLE
C-F-1	C5.30	2-CH-23/01C	B-74	PT	ACCEPTABLE
C-F-1	C5.30	2-CH-23/02C	B-74	PT	ACCEPTABLE
C-F-1	C5.21	4-CH-11/18	B-74	PT/UT	ACCEPTABLE
C-F-1	C5.21	4-CH-11/21	B-74	PT/UT	ACCEPTABLE
F-A	F1.20	4-CH-11/22-PR	B-74	VT3	ACCEPTABLE
F-A	F1.20	4-CH-11/28-PR-2	B-74	VT3	ACCEPTABLE
F-A	F1.20	4-CH-11/30-PR-1	B-74	VT3	ACCEPTABLE
C-F-1	C5.11	12-SDC-2020/12	B-11	PT/UT	ACCEPTABLE
F-A	F1.20	12-SDC-2020/12-PR	B-11	VT3	ACCEPTABLE
C-F-1	C5.12	12-SDC-2020/12D	B-11	PT/UT	ACCEPTABLE
F-A	F1.20	12-LPSI-2002/13-PR-2	B-17	VT3	ACCEPTABLE
C-F-1	C5.11	12-LPSI-2002/15	B-17	PT/UT	ACCEPTABLE
C-F-1	C5.12	12-LPSI-2002/15D	B-17	PT/UT	ACCEPTABLE
C-F-1	C5.11	12-LPSI-2003/08	B-18	PT/UT	ACCEPTABLE
C-F-1	C5.11	12-LPSI-2003/09	B-18	PT/UT	ACCEPTABLE
F-A	F1.20	4-CH-10/05-PR-2	B-73	VT3	ACCEPTABLE
F-A	F1.20	4-CH-12/17-PR-1	B-75	VT3	ACCEPTABLE
D-A	D1.20	4-FW-4/PS-FWH-209-1	C-10	VT3	ACCEPTABLE
D-A	D1.20	4-FW-4/PS-FWH-210-1	C-10	VT3	ACCEPTABLE
C-F-2	2 THIN	10-AC-2001/08	B-50	MT/UT	ACCEPTABLE
C-F-2	2 THIN	10-AC-2001/15	B-50	MT/UT	ACCEPTABLE
F-A	F1.30	4-FW-6/PR-FWH-129	C-12	VT3	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-01	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-02	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-03	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-04	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-05	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-06	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-07	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-32	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-33	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-34	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-35	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-36	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-37	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-38	A-01A	MT/UT	ACCEPTABLE

1998 REFUELING OUTAGE					
CATEGORY	ITEM #	COMPONENT	ISO #	EXAM	RESULTS
B-G-1	B6.30	RPV-G1-S-39	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-40	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-41	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-42	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-43	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-44	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-45	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-46	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-47	A-01A	MT/UT	ACCEPTABLE
B-G-1	B6.30	RPV-G1-S-48	A-01A	MT/UT	ACCEPTABLE
The following examinations are not required by ASME Section XI 1989 Edition.					
They were performed due to NRC concerns noted in the Federal Register, volume 62, number 232, dated 12/3/97					
B-J	N/A	3-HPH-12/01	A-30	UT	ACCEPTABLE
B-J	N/A	3-HPH-12/04	A-30	UT	ACCEPTABLE
B-J	N/A	3-HPH-12/05	A-30	UT	ACCEPTABLE
B-J	N/A	3-HPH-12/11	A-30	UT	ACCEPTABLE
B-J	N/A	3-HPH-14/03	A-31	UT	ACCEPTABLE
B-J	N/A	3-HPH-14/06	A-31	UT	ACCEPTABLE
B-J	N/A	3-HPH-14/08	A-31	UT	ACCEPTABLE
B-J	N/A	3-HPH-14/09	A-31	UT	ACCEPTABLE
B-J	N/A	3-HPH-14/11	A-31	UT	ACCEPTABLE
B-J	N/A	3-HPH-24/01	A-33	UT	ACCEPTABLE
B-J	N/A	3-HPH-24/06	A-33	UT	ACCEPTABLE
B-J	N/A	3-HPH-24/08	A-33	UT	ACCEPTABLE

EXAMS PERFORMED DURING THE THIRD TEN YEAR INTERVAL WITH LESS THAN 100% OF CODE REQUIRED VOLUMETRIC COVERAGE

1995 RFO

COMPONENT ID	WAVE MODE	CAUSE OF LIMITATION	% COVERAGE	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
RHE-N-11	SHEAR	NOZZLE GEOMETRY	99	A-07	B-D	B3.150	SHELL TO NOZZLE	REGEN. HEAT EXCHANGER
RPV-G1-FL	SHEAR	RPV FLANGE LIP EXTENDS OVER EXAM AREA	92.1	A-01A	B-G-1	B6.40	THREADS IN RPV FLANGE	REACTOR VESSEL
RHE-N-14	RL	SPUN CAST. ONE DIRECTION	50	B-43	C-B	C2.21	NOZZLE TO SHELL	REGEN. HEAT EXCHANGER
RHE-N-15	RL	SPUN CAST. ONE DIRECTION	50	B-43	C-B	C2.21	SHELL TO NOZZLE	REGEN. HEAT EXCHANGER
12-SDC-20/18A	SHEAR	REDUCER GEOMETRY, ONE SIDED EXAM	91.5	A-42	B-J	B9.11	PIPE TO REDUCER	SHUTDOWN COOLING

1996 RFO

COMPONENT ID	WAVE MODE	CAUSE OF LIMITATION	% COVERAGE	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
RPVCH-HF-1	SHEAR	SEISMIC SKIRT AND SUPPORT LUGS	77.9	A-02A	B-A	B1.40	HEAD TO FLANGE	REACTOR VESSEL
PRL-1	SHEAR	RELIEF NOZZLE GEOMETRY	98	A-04	B-D	B3.110	HEAD TO NOZZLE	PRESSURIZER RELIEF
PRL-1-IR	SHEAR	WELDED INSULATION SUPPORT BOLT	99	A-04	B-D	B3.120	INNER RADIUS AREA	PRESSURIZER RELIEF
PSL-10	SHEAR	SURGE NOZZLE GEOMETRY	92.5	A-04	B-D	B3.110	HEAD TO NOZZLE	PRESSURIZER SURGE

COMPONENT ID	WAVE MODE	CAUSE OF LIMITATION	% COVERAGE	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
PSL-10-IR	SHEAR	WELDED INSULATION SUPPORT BOLTS	98	A-04	B-D	B3.120	INNER RADIUS AREA	PRESSURIZER SURGE
SG-1-C-2	SHEAR	SUPPORT LUGS AND WELDED INSULATION SUPPORT BOLTS	90.3	A-05	B-B	B2.31	HEAD TO EXTENSION RING	STEAM GENERATOR
SG-1-C-3	SHEAR	SUPPORT LUGS AND WELDED INSULATION SUPPORT BOLTS	90.3	A-05	B-B	B2.40	EXTENSION RING TO TUBESHEET	STEAM GENERATOR
MRC-1/14A	RL	SPUN CAST. ONE SIDED	50	A-08	B-J	B9.31	PIPE TO BRANCH CONNECTION	COLD LEG (SAFETY INJ)
MRC-1/03B	RL	SPUN CAST. ONE SIDED	50	A-08	B-J	B9.31	PIPE TO BRANCH CONNECTION	HOT LEG (PRES. SURGE)
MRC-1/06	RL	SPUN CAST. ELBOW GEOMETRY	83	A-08	B-F	B5.70	SAFE END TO NOZZLE	HOT LEG
MRC-1-07	RL	SPUN CAST. SAFE END GEOMETRY	73	A-08	B-F	B5.70	NOZZLE TO SAFE END	COLD LEG
MRC-1-19	RL	SPUN CAST. SAFE END GEOMETRY	62	A-08	B-F	B5.70	NOZZLE TO SAFE END	COLD LEG
16-FW-2001/11	SHEAR	3.2" VENT LINE NEXT TO THE WELD	99	B-07	C-F-2	C5.51	ELBOW TO SAFE END	FEED WATER

1998 RFO

COMPONENT ID	WAVE MODE	CAUSE OF LIMITATIONS	% COVERAGE	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
		NO LIMITED EXAMS						

LIC-98-0116
Enclosure

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN STATION UNIT NO. 1

FORM NIS-2

OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Omaha Public Power District Date August 17, 1998
Name
444 S. 16th Street Mall, Omaha, NE
Address 68102-2247 Sheet 1 of 12
2. Plant Fort Calhoun Station Unit No. 1
Name
P.O. Box 399, Fort Calhoun, NE 68023 OPPD
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OPPD Type Code Symbol Stamp N/A
Name Authorization No. N/A
See above. Expiration Date N/A
Address
4. Identification of System See attached sheets.
5. (a) Applicable Construction Code See attached Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See attached sheets.							

7. Description of Work See attached sheets.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure _____ psi Test Temp. _____ °F

See attached sheets.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this 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-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this see attached conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Jack L. Shiles

Date

8/1719 98

Owner or Owner's Designee, Title

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 or Province of Nebraska and employed by HSBI & Co. of Hartford, CT 20 KAS have inspected the components described in this Owner's Report during the period February 4, 1997 to August 17, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

KA Saltzman
Inspector's Signature

Commissions

NB 11047 N. I. A

National Board, State, Province, and Endorsements

Date

Aug 17

19

98

Fort Calhoun Station 1998 NIS-2
ASME COMPONENTS REPAIRED/REPLACED - FORT CALHOUN STATION
DURING CYCLE 17 AND 1998 REFUELING OUTAGE

Page 3 of 12

1)

WORK DOCUMENT	COMPONENT	CL	SER. NO	MANUF.	NAT'L BOARD NO.	SYS.	WORK PERFORMED	APPLICABLE CONSTRUCTION CODE	YEAR BUILT	ASME CODE STAMP Y/N	REPAIR/ REPLACEMENT	TEST CONDUCTED
MWO 930970	HCV-317	2	N/A	VELAN	N/A	SH-P	REPLACED DISC	PRE ASME SECTION III	1973	N	REPLACEMENT	PT & VT-2
MR-FC 93-022	HCV-746A	2	4662172	ANCHOR DARLING	N/A	VA-CON	REPLACED VALVE	USAS B31.7 1968 DRAFT	1995	N	REPLACEMENT	PT & VT-2
MR-FC 93-022	HCV-746B	2	4662173	ANCHOR DARLING	N/A	VA-CON	REPLACED VALVE	USAS B31.7 1968 DRAFT	1995	N	REPLACEMENT	PT & VT-2
MR-FC 94-017	SA-3A-1	3	54008	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-3A-2	3	54005	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-3B-1	3	54007	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-3B-2	3	54002	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-4A-1	3	54004	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-4A-2	3	54006	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-4B-1	3	54001	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	SA-4B-2	3	54003	BUEHLER TANK	N/A	SA	ADDED WELD METAL	ASME VIII 68W69	1973	N	REPAIR	VT
MR-FC 94-017	AC-2	3	69-470	EATON METAL PRODUCTS	3563	AC-CCW	ADDED WELD METAL	ASME VIII 68W69	1969	Y	REPAIR	VT
MWD 941264	AC-366	3	TC73523	DRESSER	N/A	AC-CCW	MACHINED NOZZLE & REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPAIR	VT-2
MR-FC 96-001	HCV-268	2	P33746-3	VELAN	N/A	CH	DRILLED DISC & REPLACED 1 STUD	ASME III 65	1969	N	REPAIR & REPLACEMENT	PT, VT, VT-2
MWO 960967	AC-1C	3	74755	WHITLOCK MFG FISHER	9261	AC-CCW	REPAIRED GASKET SEATING SURFACES	ASME III 68	1971	Y	REPAIR	PT, VT, VT-2
MWO 941259	HCV-1388B	2	4662056	CONTROLS	N/A	FW-BD	REPLACED PLUG/STEM ASSEMBLY	ANSI B-16.5	1973	N	REPLACEMENT	VT-2
MR-FC 95-022	RCF-B1/B2/B3/B4	1	FC-050-001, 002, 003, 005	GRINNELL	N/A	RC	INSTALLED REDESIGNED ATTACHMENTS & REPLACED PLATE PINS WITH BOLTS	B31.1 1987	1973	N	REPLACEMENT	N/A
MR-FC 95-024	RC-3B-M-L0-2	2	N/A	SENIOR ENGINEERING	N/A	RC	REPLACED UPPER & LOWER OIL COOLERS	ASME III 89	1995	N	REPLACEMENT	VT-2
MR-FC 95-022	3" AC-152 PIPING	2	N/A	N/A	N/A	AC-CCW	REPLACED 3" WELDED FLANGES	ASME III 89	1970/71	N	REPLACEMENT	CODE CASE N-416-1 PT, VT, VT-2
MRFC 95-022	AC-152 PIPING ATTACHED TO RC-3B MOTOR	2	N/A	N/A	N/A	AC-CCW	REPLACED PIPING & BOLTING	ASME III 89	1970/71	N	REPLACEMENT	VT-2
MWO 963676	HCV-2883A	3	N00197-1-4	MASONNEILAN	N/A	AC-RW	REPLACED VALVE SHAFT AND DISC	ASME III 74	1973	N	REPLACEMENT	VT-2
ECN 96-462	D203P	2	N/A	INLAND - RYERSON	N/A	AE	REPLACED TENDON ANCHOR HEAD	ACI-318 1963	1968	N	REPLACEMENT	N/A
ECN 96-462	D203P	2	N/A	INLAND - RYERSON	N/A	AE	REPLACED TENDON BUSHING	ACI-318 1963	1968	N	REPLACEMENT	N/A
MWO 970724	AC-10D	3	691-H0431	BYRON JACKSON	N/A	AC-RW	REPLACED PUMP ASSEMBLY	CONTRACT 763 H16	1989	N	REPLACEMENT	VT-2

Fort Calhoun Station 1998 NIS-2
ASME COMPONENTS REPAIRED/REPLACED - FORT CALHOUN STATION
DURING CYCLE 17 AND 1998 REFUELING OUTAGE

WORK DOCUMENT	COMPONENT	CL	SER. NO	MANUF.	NAT'L BOARD NO.	SYS.	WORK PERFORMED	APPLICABLE CONSTRUCTION CODE	YEAR BUILT	ASME CODE STAMP Y/N	REPAIR/REPLACEMENT	TEST CONDUCTED
MWO 971967	AC-10C	3	N/A	BYRON JACKSON	NA	AC-RW	REPLACED PUMP ASSEMBLY	CONTRACT 763 H16	1989	N	REPLACEMENT	VT-2
MWO 960772	SA-143	3	N/A	NORGREN	N/A	DG-SA	REPLACED PRESSURE REGULATOR	CONTRACT 761	1989	N	REPLACEMENT	VT-2
MWO 960272	SA-143 PIPING	3	NA	EMD	N/A	DG-SA	REPLACED PIPE & COUPLINGS & BUSHINGS	CONTRACT 761	1970	N	REPLACEMENT	VT-2
MR-FC 96-003	HCV-347	1	P-33746-1	VELAN	N/A	SI-LP	DRILLED HOLE IN DISC	B31.1-55	1969	N	REPAIR	PT, VT, VT-2
MR-FC 96-003	HCV-348	1	P-33746-2	VELAN	N/A	SI-LP	DRILLED HOLE IN DISC	B31.1-55	1969	N	REPAIR	PT, VT, VT-2
MR-FC 97-007	AC-391	3	N/A	DRESSER	N/A	AC-CCW	REPLACED VALVE	ASME III 89	N/A	N	REPLACEMENT	CODE CASE N416-1
MR-FC 97-007	AC-1179	3	N/A	ANCHOR DARLING	N/A	AC-CCW	INSTALLED NEW VALVE - NOT EXISTING	USAS B31.7 1968 DRAFT	N/A	N	REPLACEMENT	PT, VT, VT-2
MR-FC 97-007	AC-2 SUPPLY PIPING	3	69-470	EATON METAL PRODUCTS	N/A	AC-CCW	REPLACED SUPPLY PIPING SECTION	USAS B31.7 1968 DRAFT	1969	N	REPLACEMENT	PT, VT, VT-2
MWO 974059	CH-1A DISCHARGE HEADER	2	N/A	N/A	N/A	CH	REPLACED PIPE HANGER ROD	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	N/A
MWO 973679	CH-189	2	ET175-1-4	ANCHOR DARLING	N/A	CH	REPLACED VALVE	ASME III 83/S84	1992	N	REPLACEMENT	CODE CASE N416-1
MWO 980051	AC-10A	3	691H0428	BYRON JACKSON	N/A	AC-RW	REPLACED PUMP ASSEMBLY	CONTRACT 763 H16	1997	N	REPLACEMENT	VT-2
MWO 962941	AC-10A	3	691H0428	HYDROAIRE	N/A	AC-RW	REPLACED TOP & BOTTOM COLUMN PIPING	CONTRACT 763 H16	1998	N	REPLACEMENT	N/A
MWO 980050	AC-10B	3	691H0429	BYRON JACKSON	N/A	AC-RW	REPLACED PUMP ASSEMBLY	CONTRACT 763 H16	1997	N	REPLACEMENT	VT-2
MWO 962942	AC-10B	3	691H0429	HYDROAIRE	N/A	AC-RW	REPLACED TOP & BOTTOM COLUMN PIPING	CONTRACT 763 H16	1998	N	REPLACEMENT	N/A
MWO 951935	HCV-1042A	2	N/A	SCHUTTE & KOERTING	N/A	MS	DRILL & TAP SET SCREW HOLES	USAS B31.7 1968 DRAFT	1973	N	REPAIR	N/A
MR-FC 94-013	SIS-6365	2	FC-1038 FC-1039	BERGEN PATTERSON	N/A	SI-LP	WELD ADDITIONAL STIFFENER ATTACHMENTS	USAS B31.7 1968 DRAFT	1982	N	REPAIR	PT, VT
MWO 981045	RC-2B	1	56506	CE	20880	RCS	TUBESHEET PLUG INSTALLATION	ASME III 65	1970	Y	REPAIR	CODE CASE N474-1, VT
MWO 951935 & MWO 981498	HCV-1042A	2	N/A	SCHUTTE & KOERTING	N/A	MS	DRILL VALVE BODY & REPLACE 1 STUD	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT / REPAIR	MT, VT, VT-2
MR-FC 96-003	HCV-347	1	P-33746-1	VELAN	N/A	SI-LP	REPLACED WEDGE	ASME III PRE 1971	1969	N	REPLACEMENT	VT-2
MR-FC 96-003	HCV-348	1	P-33746-2	VELAN	N/A	SI-LP	REPLACED & MACHINED WEDGE	ASME III PRE 1971	1969	N	REPLACEMENT	PT, VT, VT-2
MWO 970815	CH-473	3	EB986-2-3	ANCHOR DARLING	N/A	CH	REPLACED DISC	ASME III 83/S83	1991	N	REPLACEMENT	VT-2
MWO 981690	M-94	MC	A-2592	SENIOR FLEXONICS	N/A	MS	REPLACED BELLOWES	ASME III 68	1987	N	REPLACEMENT	PT, VT, APPX, J LEAK TEST

Fort Calhoun Station 1998 NIS-2
ASME COMPONENTS REPAIRED/REPLACED - FORT CALHOUN STATION
DURING CYCLE 17 AND 1998 REFUELING OUTAGE

Page 5 of 12

3]

WORK DOCUMENT	COMPONENT	CL	SER. NO	MANUF.	NATL BOARD NO.	SYS.	WORK PERFORMED	APPLICABLE CONSTRUCTION CODE	YEAR BUILT	ASME CODE STAMP Y/N	REPAIR/ REPLACEMENT	TEST CONDUCTED
MWO 981691	M-95	MC	A-2593	SENIOR FLEXONICS	N/A	MS	REPLACED BELLOWS	ASME III 68	1987	N	REPLACEMENT	PT. VI, APPX. J LEAK TEST
MWO 942879	AC-194	3	N/A	ALLIS CHALMERS	N/A	AC-SFP	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 943451	HCV-2977	2	N/A	CRANE	N/A	SI-CS	REPLACED 1 STUD	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 942316	RWH-4	NF	N/A	PETER KIEWIT	NA	AC-RW	REPLACED BOLT & NUT	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	NA
MWO 962526	AC-10 SPARE	3	691H0428	BYRON JACKSON	N/A	AC-RW	REPLACED STUDS & NUTS	CONTRACT 763	1968	N	REPLACEMENT	N/A
MWO 971299	RC-4	1	56602	CE	20852	RC	REPLACED 20 STUDS & 20 NUTS	ASME III 65	1969	Y	REPLACEMENT	VT-2
MWO 962551	AC-184	3	N/A	ALLIS CHALMERS	N/A	AC-SFP	REPLACED 8 STUDS & 16 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MR-FC 95-022	RC-3B-M CCW PIPE FLANGES	2	8469092	GE	N/A	RC	REPLACED 16 BOLTS & 16 NUTS	USAS B31.7 1968 DRAFT	1996	N	REPLACEMENT	VT-2
MWO 970724	AC-10D	3	691H0428	BYRON JACKSON	N/A	AC-RW	REPLACED 16 BOLTS & 16 STUDS & 32 NUTS	CONTRACT 763	1968	N	REPLACEMENT	VT-2
MWO 973232	CH-182	2	N20001	ANDERSON & GREENWOOD	N/A	CH	REPLACED HILTI	USAS B31.7 1968 DRAFT	1968	N	REPLACEMENT	N/A
MWO 971246	SI-2A	2	280337	BINGHAM PUMP COMPANY	N/A	SI-HP	REPLACED SUCTION FLANGE STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 971967	AC-10C	3	691H0430	BYRON JACKSON	N/A	AC-RW	REPLACED CAPSCREWS & NUTS & WASHERS & STUDS	CONTRACT 763	1989	N	REPLACEMENT	VT-2
MWO 972366	AC-10 SPARE	3	691H0430	JACKSON	N/A	AC-RW	REPLACED STUDS & NUTS	CONTRACT 763	1989	N	REPLACEMENT	N/A
MWO 971767	HCV-2947	2	N/A	CRANE	N/A	SI-LP	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 962563	VA-287	3	N/A	JE LONEGRAN COMPANY	N/A	VA-CON	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 962564	VA-288	3	N/A	JE LONEGRAN COMPANY	N/A	VA-CON	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 970177	AC-190	3	92-1873-01(O)-02	ALLIS CHALMERS	N/A	AC-SFP	REPLACED 3 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 970918	PIPE HANGER	3	N/A	N/A	N/A	CH	REPLACED 1 NUT	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	N/A
MWO 973057	PIPE FLANGE	2	N/A	N/A	N/A	AC	REPLACED 8 STUDS & 16 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 973436	HPSI HEADER	2	N/A	N/A	N/A	SI-HP	INSTALL 1 U-BOLT & 4 NUTS	CONTRACT 763	1973	N	REPLACEMENT	N/A
MWO 962942	AC-10B	3	691H0429	BYRON JACKSON	N/A	AC-RW	REPLACED SCREWS & NUTS & STUDS	CONTRACT 763	1997	N	REPLACEMENT	VT-2
MWO 962941	AC-10A	3	691H0428	BYRON JACKSON	N/A	AC-RW	REPLACED SCREWS & NUTS & STUDS	CONTRACT 763	1973	N	REPLACEMENT	VT-2
MWO 960595	AC-10 SPARE	3	691H0430	JACKSON	N/A	AC-RW	REPLACED STUDS & NUTS	CONTRACT 763	1973	N	REPLACEMENT	N/A
MWO 980834	SIS-204	3	FC-003-137	BERGEN PATTERSON	N/A	SI-LP	REPLACED 1 CAP SCREW	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	N/A

Fort Calhoun Station 1998 NIS-2
ASME COMPONENTS REPAIRED/REPLACED - FORT CALHOUN STATION
DURING CYCLE 17 AND 1998 REFUELING OUTAGE

Page 6 of 12

4]

WORK DOCUMENT	COMPONENT	CL	SER. NO	MANUF.	NAT'L BOARD NO.	SYS	WORK PERFORMED	APPLICABLE CONSTRUCTION CODE	YEAR BUILT	ASME CODE STAMP Y/N	REPAIR/ REPLACEMENT	TEST CONDUCTED
MWO 972111	RC-142	1	N/A	CROSBY VALVE	N/A	RC	REPLACED NUTS	USAS B31.7 1968 DRAFT	1973	Y	REPLACEMENT	VT-2
MWO 980858	HCV-383-4	2	64050-1	ALLIS CHALMERS	N/A	SI-CS	REPLACED STUDS & NUTS	B31.1 1967	1973	N	REPLACEMENT	LEAK TEST
MWO 973333	FW-162	2	54628	MISSION VALVE	N/A	FW	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 981372	SI-3C	2	0669-62	INGERSOLL RAND	N/A	SI-CS	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 981467	SI-121	2	36642	MISSION VALVE	N/A	SI-LP	REPLACED NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 972035	RC-2A	1	66505	CE	20879	RC	REPLACED STUDS & NUTS	ASME III 65W66	1970	Y	REPLACEMENT	VT-2
MWO 972167	RC-2B	1	66506	CE	20880	RC	REPLACED STUDS & NUTS	ASME III 65W66	1970	Y	REPLACEMENT	VT-2
MWO 970968	MS-282	2	BNO9119	DRESSER	N/A	MS	REPLACED 1 STUD & 2 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 973152	FE-2881	2	N/A	DANIEL	N/A	SI-LP	REPLACED NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
CWO 98-0023	HCV-348	1	23518	VELAN	NA	SI-LP	REPLACED NUTS	USAS B31.1 1955	1969	N	REPLACEMENT	VT-2
MWO 981635	HCV-1041B	2	N690325	SCHUTTE & KOERTING	N/A	MS	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 951935	HCV-1042A	2	N/A	SCHUTTE & KOERTING	N/A	MS	REPLACED 5 STUDS & 5 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 972088	RC-10-28	1	N/A	CE	N/A	RC	REPLACED 1 NUT	ASME III 65W66	1973	N	REPLACEMENT	VT-2
MWO 970145	RW-121	3	90-1074-01Q-02	MISSION VALVE	N/A	AC-RW	REPLACED VALVE & 2 NUTS	USAS B31.7 1968 DRAFT	1968	N	REPLACEMENT	VT-2
CWO 96-0244	RC-2A	1	66505	CE	20879	RC	REPAIRED STUD	ASME III 65	1970	Y	REPAIR	VT
CWO 96-0244	RC-2B	1	66506	CE	20880	RC	REPAIRED STUD	ASME III 65	1970	Y	REPAIR	VT
MWO 971533	FW-162	2	54628	MISSION VALVE	N/A	FW	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 971945	RC-1 CCW PIPING	3	N/A	N/A	N/A	CCW	REPLACED STUDS & NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
ECN 96-151	RC-7D-01 thru 028	1	N/A	REUTER STOKES	N/A	RC	REPLACED ICI ASSEMBLIES	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
ECN 97-197	FW-658	3	N/A	CRANE	N/A	FW-AFW	REPLACED VALVE	ANSI B16.34	1973	N	REPLACEMENT	VT-2
MWO 973332	FW-161	2	N/A	MISSION VALVE	N/A	FW	REPLACED 1 STUD & 3 NUTS	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2
MWO 970349	HCV-331	2	G916-3-1	AMETEK	N/A	SI-LP	REPLACED STEM	USAS B31.7 1968 DRAFT	1973	N	REPLACEMENT	VT-2

**ASME COMPONENTS REPAIRED/REPLACED - FORT CALHOUN STATION
1998 REFUELING OUTAGE SNUBBER TEST/REBUILD LIST**

SNUBBER ID	LOCATION	S/N OLD	S/N NEW	MFG	DATE	LOCATION OF OLD	FUNCTIONAL TEST	EXAMINATIONS
SIS-75	1002' 8" RM 13	FC-003-344	FC-003-164	BP	03/11/98	SPARE	Y	VT-3
SIS-101	999' 0" RM 13	FC-003-351	FC-003-339	BP	02/20/98	SPARE	Y	VT-3
SIS-67	1000' 0" RM 14	FC-010-107	FC-010-055	BP	02/20/98	SIS-120	Y	VT-3
AFW-60	1007' 6" RM 19	FC-003-036	FC-003-086	BP	02/25/98	SPARE	Y	VT-3
FWS-29A	1002' 6" RM 19	FC-003-354	FC-003-105	BP	02/23/98	SPARE	Y	VT-3
RWS-131	998' 8" RM 19	FC-003-089	FC-003-108	BP	02/23/98	SPARE	Y	VT-3
SIS-21C	981' 6" RM 21	FC-003-054	FC-003-158	BP	03/11/98	RCS-19A-RIGHT	Y	VT-3
SIS-40B	981' 6" RM 22	FC-010-060	FC-010-033	BP	02/20/98	SPARE	Y	VT-3
SIS-8C	979' 6" RM 22	FC-003-133	FC-003-209	BP	02/20/98	SPARE	Y	VT-3
SIS-184	979' 6" RM 22	FC-010-061	FC-010-074	BP	03/10/98	SPARE	Y	VT-3
FWS-92	1020' 5" RM 56	FC-003-033	FC-003-097	BP	02/23/98	SPARE	Y	VT-3
FWS-64B	1040' 0" RM 81	FC-003-004	FC-003-319	BP	02/23/98	SPARE	Y	VT-3
FWS-80	1049' 6" RM 81	FC-003-027	FC-003-320	BP	02/23/98	SPARE	Y	VT-3
MSS-14 EAST	1040' 0" RM 81	FC-020-004	FC-020-027	BP	03/16/98	MSS-16 BOTTOM	Y	VT-3
MSS-16 Bottom	1037' 0" RM 81	FC-020-018	FC-020-004	BP	04/08/98	Spare	Y	VT-3
SIS-73	1002' 8" RM 13	FC-003-120	FC-003-179	BP	03/11/98	SPARE	Y	VT-3
SIS-80	1001' 4" RM 13	FC-003-129	FC-003-251	BP	03/11/98	SPARE	Y	VT-3
SIS-91A	1002' 8" RM 13	FC-020-013	FC-020-015	BP	04/22/98	SPARE	Y	VT-3
SIS-104	1001' 4" RM 13	FC-003-134	FC-003-144	BP	03/12/98	SPARE	Y	VT-3
SIS-104B	1001' 4" RM 13	FC-003-136	FC-003-157	BP	03/12/98	SPARE	Y	VT-3

SNUBBER ID	LOCATION	S/N OLD	S/N NEW	MFG	DATE	LOCATION OF OLD	FUNCTIONAL TEST	EXAMINATIONS
SIS-204	996' 0" RM 13	FC-003-137	FC-003-212	BP	03/13/98	SPARE	Y	VT-3
WDS-122R	991' 6" RM-13	FC-003-138	FC-003-221	BP	03/10/98	SPARE	Y	VT-3
WDS-122L	991' 6" RM 13	FC-003-139	FC-003-230	BP	03/10/98	SPARE	Y	VT-3
AFW-65	1002' 10" RM 19	FC-003-087	FC-003-001	BP	02/25/98	SPARE	Y	VT-3
RWS-130	998' 8" RM 19	FC-003-088	FC-003-021	BP	02/25/98	SPARE	Y	VT-3
SIS-31A	981' 6" RM 22	FC-003-183	FC-003-173	BP	03/10/98	SPARE	Y	VT-3
SIS-48	979' 6" RM 22	FC-003-186	FC-003-182	BP	03/11/98	SPARE	Y	VT-3
FWS-92A	1026' 0" RM 56	FC-003-090	FC-003-084	BP	02/25/98	SPARE	Y	VT-3
FWS-68	1049' 6" RM 81	FC-003-102	FC-003-029	BP	02/25/98	SPARE	Y	VT-3
ACS-113	1040' 0" CONT	FC-003-075	FC-003-322	BP	04/16/98	SIS-174D	Y	VT-3
ACS-116	1031' 3" CONT	FC-003-210	FC-003-193	BP	04/16/98	SPARE	Y	VT-3
ACS-304	1056' 7" CONT	FC-003-353	FC-003-141	BP	04/16/98	SIS-176H	Y	VT-3
ACS-305	1056' 7" CONT	FC-003-332	FC-003-245	BP	04/16/98	SPARE	Y	VT-3
ACS-2011-1	1018' 3" CONT	FC-003-237	FC-003-206	BP	04/20/98	SPARE	Y	VT-3
FWS-32A	1005' 2" CONT	FC-003-239	FC-003-226	BP	04/15/98	SIS-176E	Y	VT-3
FWS-35	1005' 5" CONT	FC-003-284	FC-003-229	BP	04/15/98	SPARE	Y	VT-3
MSS-8C	1038' 6" CONT	FC-003-264	FC-003-055	BP	04/22/98	SPARE	Y	VT-3
RCP-A3	1015' 3" CONT	FC-021-004	FC-021-001	G	04/28/98	SPARE	Y	VT-3
RCS-2	1006' 7" CONT	FC-003-048	FC-003-270	BP	04/25/98	SPARE	Y	VT-3
RCS-9	1016' 8" CONT	FC-003-099	FC-003-271	BP	04-17-98	SPARE	Y	VT-3
RCS-18	1015' 0" CONT	FC-003-147	FC-003-246	BP	04/20/98	SPARE	Y	VT-3
RCS-27	1052' 9" CONT	FC-003-110	FC-003-127	BP	04/15/98	SPARE	Y	VT-3

SNUBBER ID	LOCATION	S/N OLD	S/N NEW	MFG	DATE	LOCATION OF OLD	FUNCTIONAL TEST	EXAMINATIONS
RCS-32	1052' 0" CONT	FC-003-287	FC-003-273	BP	04/15/98	SIS-2041-1	Y	VT-3
RCS-49	1009' 6" CONT	FC-003-152	FC-003-269	BP	04/22/98	SIS-175A	Y	VT-3
SIS-120	1006' 4" CONT	FC-010-085	FC-010-107	BP	04/20/98	MSS-5	Y	VT-3
SIS-123	1003' 0" CONT	FC-003-069	FC-003-254	BP	04/16/98	SIS-112D	Y	VT-3
SIS-124	1005' 6" CONT	FC-003-311	FC-003-272	BP	04/20/98	SPARE	Y	VT-3
SIS-161	1014' 2" CONT	FC-003-032	FC-003-121	BP	04/17/98	SIS-174A	Y	VT-3
SIS-168A TOP	1014' 6" CONT	FC-003-290	FC-003-261	BP	04/16/98	SIS-149	Y	VT-3
SIS-2041-2	1004' 0" CONT	FC-003-313	FC-003-243	BP	04/15/98	SPARE	Y	VT-3
WDS-289	1004' 0" CONT	FC-003-240	FC-003-280	BP	04/15/98	SIS-175	Y	VT-3
FWS-242	1041' 0" RM 81	FC-32268	FC-32268	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-12A N	1040' 0" RM 81	FC-32272	FC-32272	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-12A S	1040' 0" RM 81	FC-32271	FC-32271	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-16A N	1040' 0" RM 81	FC-32273	FC-32273	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-16A S	1040' 0" RM 81	FC-32274	FC-32274	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-41 E	1030' 1" TURB	FC-32269	FC-32269	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
MSS-41 W	1031' 1" TURB	FC-32270	FC-32270	G	05/13/98	REINSTALLED IN SAME LOCATION	Y	VT-3
RCP-A2	1015' 3" CONT	FC-050-001	FC-050-004	G	04/28/98	SPARE	Y	VT-3
RCP-A4	1015' 3" CONT	FC-021-002	FC-021-008	G	04/28/98	SPARE	Y	VT-3

SNUBBER ID	LOCATION	S/N OLD	S/N NEW	MFG	DATE	LOCATION OF OLD	FUNCTIONAL TEST	EXAMINATIONS
RCP-B2	1015' 3" CONT	FC-050-002	FC-050-003	G	04/28/98	SPARE	Y	VT-3
SG-A3	1049' 0" CONT	FC-133-003	FC-133-002	G	04/28/98	SPARE	Y	VT-3
SG-A4	1049' 0" CONT	FC-133-004	FC-133-001	G	04/28/98	SPARE	Y	VT-3
ACS-2012-1	1019' 0" CONT	FC-PD26971-1243	FC-PD26971-1243	PM	05/06/98	REINSTALLED IN SAME LOCATION	Y	VT-3
CHS-2049-2	1002' 10" CONT	FC-PD26971-1252	FC-PD26971-1252	PM	05/11/98	REINSTALLED IN SAME LOCATION	Y	VT-3
HCV-327-S	1017' 0" CONT	FC-PD26971-1251	FC-PD26971-1251	PM	05/08/98	REINSTALLED IN SAME LOCATION	Y	VT-3
HCV-329-S	1017' 0" CONT	FC-PD26971-1242	FC-PD26971-1242	PM	05/05/98	REINSTALLED IN SAME LOCATION	Y	VT-3
HCV-331-S	1017' 0" CONT	FC-PD26971-1249	FC-PD26971-1249	PM	05/08/98	REINSTALLED IN SAME LOCATION	Y	VT-3
HCV-333-S	1017' 0" CONT	FC-PD26971-1235	FC-PD26971-1235	PM	05/05/98	REINSTALLED IN SAME LOCATION	Y	VT-3
SIS-34	980' 0" RM 21	FC-030-003	FC-030-003	BP	04/23/98	REINSTALLED IN SAME LOCATION	Y	VT-3
SIS-112C	1111' 6" CONT	FC-PD26971-1237	FC-PD26971-1237	PM	05/06/98	REINSTALLED IN SAME LOCATION	Y	VT-3
SIS-112E	1111' 6" CONT	FC-PD26971-1236	FC-PD26971-1236	PM	05/04/98	REINSTALLED IN SAME LOCATION	Y	VT-3
SIS-112F	1111' 6" CONT	FC-PD26971-1248	FC-PD26971-1248	PM	05/04/98	REINSTALLED IN SAME LOCATION	Y	VT-3
SIS-2034-1	1008' 2" CONT	FC-PD26971-1250	FC-PD26971-1250	PM	05/06/98	REINSTALLED IN SAME LOCATION	Y	VT-3
CHS-2049-1	1004' 1" CONT	FC-003-238	FC-003-151	BP	05/11/98	SPARE	Y	VT-3
FWS-37	1005' 5" CONT	FC-003-234	FC-003-188	BP	04/15/98	SPARE	Y	VT-3

SNUBBER ID	LOCATION	S/N OLD	S/N NEW	MFG	DATE	LOCATION OF OLD	FUNCTIONAL TEST	EXAMINATIONS
MSS-5	1054' 3" CONT	FC-010-070	FC-010-085	BP	04/27/98	SPARE	Y	VT-3
RCS-14	1031' 10" CONT	FC-003-083	FC-003-324	BP	04/29/98	SPARE	Y	VT-3
RCS-19A R	1015' 0" CONT	FC-003-266	FC-003-054	BP	04/20/98	SPARE	Y	VT-3
SIS-112D	1111' 6" CONT	FC-003-258	FC-003-069	BP	05/06/98	SPARE	Y	VT-3
SIS-149	1004' 0" CONT	FC-003-278	FC-003-290	BP	04/28/98	SPARE	Y	VT-3
SIS-174A	1050' 2" CONT	FC-003-295	FC-003-032	BP	04/27/98	SPARE	Y	VT-3
SIS-174D	1064' 0" CONT	FC-003-298	FC-003-075	BP	04/27/98	SPARE	Y	VT-3
SIS-175	1057' 0" CONT	FC-003-300	FC-003-240	BP	04/27/98	SPARE	Y	VT-3
SIS-175A	1057' 0" CONT	FC-003-301	FC-003-152	BP	04/27/98	SPARE	Y	VT-3
SIS-176E	1063' 0" CONT	FC-003-305	FC-003-239	BP	04/27/98	SPARE	Y	VT-3
SIS-176H	1063' 0" CONT	FC-003-307	FC-003-353	BP	04/27/98	SPARE	Y	VT-3
SIS-2041-1	1004' 0" CONT	FC-003-312	FC-003-287	BP	4/28-98	SPARE	Y	VT-3
RCS-41	1051' 0" CONT	10749	10749	PSA	04/29/98	REINSTALLED IN SAME LOCATION	Y	VT-3
RCS-64B	1032' 0" CONT	10748	10748	PSA	04/29/98	REINSTALLED IN SAME LOCATION	Y	VT-3

SYSTEM PRESSURE TESTS PERFORMED DURING CYCLE 17 AND 1998 REFUELING OUTAGE			
TEST PERFORMED	SYSTEM TESTED	TEST PERFORMED	SYSTEM TESTED
SE-ST-AFW-3002	AUX. FEEDWATER	SE-ST-CA-3001	COMPRESSED AIR
SE-ST-CCW-3001	COMP. COOLING WATER	SE-ST-FW-3001	MAIN FEEDWATER
SE-ST-IA-3001	INSTRUMENT AIR	OP-ST-RC-3007	REACTOR COOLANT
SE-ST-SI-3003	SAFETY INJECTION	SE-ST-SFP-3001	SPENT FUEL POOL
SE-ST-SI-3004	SAFETY INJECTION	SE-ST-SFP-3002	SPENT FUEL POOL
SE-ST-SI-3006	SAFETY INJECTION	SE-ST-SA-3002	DIESEL GEN. - STARTING AIR
SE-ST-SI-3007	SAFETY INJECTION	SE-ST-SA-3003	DIESEL GEN. - STARTING AIR
SE-ST-SI-3014	SAFETY INJECTION	SE-ST-SL-3002	SAMPLING SYSTEM
SE-ST-SI-3027	SAFETY INJECTION	SE-ST-SL-3003	SAMPLING SYSTEM
SE-ST-WDG-3004	WASTE DISPOSAL - GASEOUS	SE-ST-SL-3005	SAMPLING SYSTEM
SE-ST-WDG-3005	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3003	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3006	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3004	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3007	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3005	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3010	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3006	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3011	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3007	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3012	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3009	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3013	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3011	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3014	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3012	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3015	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3013	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3016	WASTE DISPOSAL - GASEOUS	SE-ST-WDL-3014	WASTE DISPOSAL - LIQUID
SE-ST-WDG-3017	WASTE DISPOSAL - GASEOUS		
SE-ST-WDG-3018	WASTE DISPOSAL - GASEOUS		