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February 29, 2000

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

LaSalle County Station, Units 1 and 2
Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: Annual Report for LaSalle County Station

This report is submitted in accordance with Technical Specification 6.6.A.2.

Enclosed is the Annual Report of LaSalle County Station for the period of January, 1999, through December, 1999.

Should you have any questions concerning this letter, please contact Mr. Frank A. Spangenberg, III, Regulatory Assurance Manager, at (815) 357-6761, extension 2383.

Respectfully,

A handwritten signature in black ink, appearing to read "Frank A. Benjamin".

Jeffrey A. Benjamin
Site Vice President
LaSalle County Station

Attachment

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - LaSalle County Station

**ANNUAL REPORT FOR LASALLE
COUNTY STATION**

**JANUARY 1999
THROUGH
DECEMBER 1999**

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I. Introduction

The LaSalle County Nuclear Station is a two-unit facility owned by Commonwealth Edison Company and located near Marseilles, Illinois. Each unit is a Boiling Water Reactor with a designed net electrical output of 1078 Megawatts. Waste heat is rejected to a man-made cooling pond using the Illinois River for make-up and blow-down. The Architect-Engineer was Sargent and Lundy and the contractor was Commonwealth Edison Company.

Unit 1 was issued operating license number NPF-11 on April 17, 1982. Initial criticality was achieved on June 21, 1982 and commercial power operation commenced in January 1984.

Unit 2 was issued operating license number NPF-18 on December 16, 1983. Initial criticality was achieved on March 10, 1984 and commercial power operation commenced in October 1984.

This report was compiled by Sherard R. Anderson, telephone number (815) 357-6761, extension 2620.

II. Annual Reportable Documentation for Unit 1 and Unit 2

A. Summary of Operating Experience

The summary of the operating experience has been reported monthly in LaSalle's NRC Monthly Reports for January 1999 through December 1999. For safety related maintenance (non-outage related) performed during the period of January through December 1999, see Attachment A.

B. Outages and Forced Downpowers

Unit 1 and Unit 2 outages are summarized in Attachment B and forced downpowers are summarized in Attachment C. Note that forced downpowers were determined using the NEI definition for the "Unplanned Power Changes" indicator. These include all load drops greater than 20% of rated reactor power that occurred less than 72 hours from an initiating event.

C. Radiation Exposure

For the radiation exposure of LaSalle Station personnel for the reporting period of January 1999 through December 1999, see Appendix C.

D. Indications of Failed Fuel Elements

On March 25, 1999, Unit 1 had indications of leaking fuel. Flux tilt testing was completed, and control rods were inserted to suppress power in the leaking bundle. On August 18, 1999, Unit 1 had new indications of leaking fuel. Flux tilt testing was again performed to determine the location of the new leaking bundle; however, no new leaking fuel bundle was identified. The cycle was completed on October 23, 1999 with multiple rods inserted. During core unload, both in-mast and vacuum can sipping were performed. Bundles YJD643 (cell 11-16) and YJD636 (cell 19-08) were identified as the leakers. After visual inspections, the root causes of the fuel failures were still unknown. More detailed inspections of the bundles will be performed at a later date.

E. Tests and Experiments Not Described in the Safety Analysis Report (SAR)

Summaries of all tests and experiments not described in the SAR that were performed during this reporting period, January 1, 1999, through December 31, 1999, will be provided in a separate report at a later date in accordance with the requirements of 10CFR50.71(e) and 10CFR50.59.

F. Changes to Procedures Covered in the SAR

Summaries of all changes to procedures covered in the SAR performed during this reporting period, January 1, 1999, through December 31, 1999, will be provided in a separate report at a later date in accordance with the requirements of 10CFR50.71(e) and 10CFR50.59.

G. Summary of Changes to the Facility Which are Described in the SAR

Summaries of all changes to the facility as described in the SAR performed during this reporting period, January 1, 1999, through December 31, 1999, will be provided in a separate report at a later date in accordance with the requirements of 10CFR50.71(e) and 10CFR50.59.

H. Survey of Evaluation Results of Chlorine Shipments by Barge on the Illinois River

Per the USFAR, every 3 years a survey will be conducted to re-evaluate the use of chlorine, within 5 miles of the control room, to ensure that a chlorine hazard does not exist. The last survey performed was in 1997 and the results were included in the NRC Annual Report for that year. The next survey is scheduled to be performed in 2000, and will be included in next year's annual report.

I. Summary of Events Exceeding Technical Specification 3.4.5 – Specific Activity Limits

During this reporting period, January 1, 1999 through December 31, 1999, there were no events exceeding the limits of Technical Specification 3.4.5, Specific Activity Limits.

ATTACHMENT A

**SAFETY-RELATED CORRECTIVE MAINTENANCE
NON-OUTAGE RELATED**

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT COMMON
(NON-OUTAGE RELATED)

	1060		SPING-3B BACKUP FOR WRGM	LED READOUT NOT FUNCTIONING FOR CHANNELS 14 AND 15.
DC	980063859	0DC22E-CB8	SPACE	INSTALL FME BARRIER OVER CB-8 SPACE
DG	970031388	0DG01K	ENGINE, DIESEL GENERATOR	CORRECT LEAKS FOUND DURING PMT
DG	980034064	0DG01K	ENGINE, DIESEL GENERATOR	REPLACE TWO BROKEN BOLT ON DG AIR INTAKE BOX MOUNTED ON GEN
DG	990102054	0DG01P	0 DG COOLING WATER PUMP	PUMP DP IN REQUIRED ACTION RANGE
DG	980008109	0DG018	DG "0" COOLING WTR STRNR DRN STOP	VALVE DIFFICULT TO OPERATE
DG	990009224	0DG12MB	0 DG B STARTING AIR STRAINER	CLEAN/INSPECT Y-STRAINER ON ODG 'B' STARTING AIR
DG	980008112	0DG22A	PIPE,	PIPE CAP IS ONLY ENGAGED BY ONE THREAD / REPOSITION ANGLE
DG	990074887	0PS-DG043A	0 DG A AIR COMP CONTROL (S38)	CHECK CALIBRATION OF PRESSURE SWITCH 0PS-DG043A
DO	970136673	0DO02T	0 DG DAY TANK	GASKET LEAK ON DIESEL DAY TANK MANWAY COVER, REPLACE GASKET
D18	990051592	0D18-R519	RECORDER, SBGT WIDE RANGE NOBLE GAS MONITOR	GREEN PEN STICKS, NOT RESPONDING TO SOURCE CHECKS
PL	990091036	0PLD1J	ASSY_- PANEL, SBGT VENT SAMPLE CONDITIONER	"A" PREFILTER DISCHARGE SOLENOID VALVE LEAKING BY
PL	990009242	0PLD2J	ASSY_- PANEL, SBGT WIDE RANGE GAS MONITOR	SBGT WRGM MID/HIGH RANGE FLOW IS LOW
VC	990060560	0FZ-VC041B	CONT RM AIR COND SYSDMPR 18YB	TROUBLESHOOT 0FZ-VC041B DAMPER ACTUATOR FOR 0VC18YB
VC	980085047	0PDI-VC026	CR A/C EMERG M/U AIR FLTR D/P	0PDI-VC026 LEAKS. WOULDN'T HOLD PRESSURE DURING CAL.
VC	990018585	0PDR-VC027	D/P RECORDER	BLACK PEN READING 2 PSID WITH NO SYSTEM FLOW
VC	980065515	0PI-VC134	VC COMPRESSOR A LO OIL PRESS	GAUGE NEEDLE IS VIBRATING AND HARD TO READ PRESSURE.
VC	990028244	0PI-VC135	VC COMPRESSOR A HI DISCH PRESS	GAUGE READING 50 PSI WITH NO PRESSURE ON IT
VC	990001705	0TI-VC143	HEATER IN TEMP TRAIN 0VC01SB	PERFORM BOP CAL
VC	990001706	0TI-VC144	HEATER OUT TEMP TRAIN 0VC01SB	PERFORM BOP CAL
VC	990114527	0TS-VC172	VC COMPRESSOR 0VC05CB HIGH OIL TEMP	SWITCH DOES NOT AGREE WITH INDICATOR, MAY TRIP ERRONEOUSLY
VC	980102415	0VC000	MISCELLANEOUS WORK REQUESTS	REPLACE "A" VC & VE DUCT INSULATION TO SUPPORT DCP 9800194
VC	980080773	0VC03AA	CNSDR COIL CONT ROOM HVAC AIR COOLED	COILS HAVE DIRT AND FEATHERS STUCK TO THEM
VC	980054079	0VC03CA	MOTOR, CR HVAC EMERG M/U AIR FAN 0A	SECURE MOTOR BEARING DUST SEAL
VC	990064387	0VC05CA	0A CONTROL ROOM HVAC REFER	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
VC	990079339	0VC05CA	0A CONTROL ROOM HVAC REFER	TRIPPED ON HIGH OIL TEMP DURING SD SEQUENCE
VC	990079648	0VC05CA	CONTROL RM HVAC REFRIG COMP 0A	REPAIR DAMAGED 1/4 IN FREON LINE
VC	980133679	0VC24YA	DAMPER, CR A/C SYST	DAMPER IS MISSING LOCKING DEVICE
VC	990088073	0VC52YA	DAMPER, MIN OUTSIDE AIR ISOLATION	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
VC	980061226	0XY-VC087B	CONT RM A/C SYS B CONT RM A/C SYS	RECONFIGURE AIR DUCT DETECTOR SAMPLE TUBES FOR 0XY-VC087B
VD	990009146	0VD01F	FILT SB DIESEL GEN ROOM VENT SPLY	FILTER ARE DIRTY. NEED TO CHANGE. HIGH DIFF PRESS ALARMING
VD	970060527	0VD02C	FAN, HP DG FUEL STOR TANK ROOM VENT	FAN FLEX CONNECTORS HAVE BECOME BRITTLE AND NEED REPLACED
VD	990113077	0VD03YA	DAMPER DG RM VENT	DAMPER DID NOT MODULATE PROPERLY/SEE NOTES
VE	990028951	0FS-VE004	AEER A/C MIX DMPR REHTR CONT	FLOW SWITCH SPURIOUSLY ACTUATING
VE	990029128	0PI-VE104	COMPRESSOR, 0VE04CA HI DISCH PRESSURE	GAUGE IS LEAKING AT THE FITTING. FIX FITTING TO GAUGE
VE	990020055	0VE000	MISCELLANEOUS WORK REQUESTS	LOCATE REFRIGERANT LEAK AND REPAIR IT.
VE	980058718	0VE01CB	ASSY_- FAN, HVAC SUPPLY	VE SUPPLY END OF BELL HOUSING DAMAGED. HAS A CRACK IN IT.

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II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT COMMON
(NON-OUTAGE RELATED)

VE	980058749	0VE01CB	ASSY_-_FAN, HVAC SUPPLY	FLEX CONNECTION AT DISCHARGE OF SUPPLY FAN LEAKING
VE	970011159	0VE02AA	AIR COOLED CONDENSING UNIT	ENCLOSURE HAS AN ACCESS PANNEL THAT IS MISSING LATCHES WHICH
VE	990016364	0VE02CB	BRKR, 236X-2 B5 AEER RETURN FAN O/B	REPLACE BREAKER CONTACTOR (SEE WR 98034868)
VE	980125132	0VE04AB	HEATING COIL AUX ELEC EQUIP RM HVAC U-1 ZONE	LIGHTS CANNOT BE INSTALLED ON SIDE OF DISCONNECT PANEL
VE	980111265	0VE04CA	A VE COMPRESSOR, REFRIGERATION	OIL LEAK UNDER FILTER AND OIL PUMP AREA.
VE	990043949	0VE04CA	REFRG COMP AUX EL EQUIP RM SPLY SYS	OIL TEMPERATURE IS RUNNING HIGH - CLOSE TO TRIP SETPOINT.
VE	990063856	0VE04CA	A VE COMPRESSOR, REFRIGERATION	COMPRESSOR IS LEAKING FREON AND OIL OUT OF THE SHAFT SEAL
VE	980054888	0VE05AA	HEATING COIL AUX EL EQUIP RM HVAC UNIT-2ZONE	TASK 01 FAILED PMT - CONTINUE TROUBLESHOOTING
VE	980133691	0VE17YB	DAMPER, HVAC ISOLATION	DAMPER IS MISSING LOCKING DEVICE
XX	990021587	0XXDR011	DOOR #011, WATERTIGHT, RX BSMNT FROM PP	REPAIR / REPLACE WATERTIGHT DOOR SEAL
XX	990084163	0XXDR011	DOOR #011, WATERTIGHT, RX BSMNT FROM PP	DOOR 11, RB RACEWAY TO HPCS PUMP ROOM
ZZ	970035816	0ZZ-AB000	AUXILIARY BUILDING	HOLE IN NORTH WALL AIR SUCKING THROUGH SEE NOTES.
ZZ	970058314	0ZZ-AB000	AUXILIARY BUILDING	REPAIR CREVICE IN N/WEST CORNER OF WALL "AUX BLDG AIR LOCK"
ZZ	970125331	0ZZ-AB000	AUXILIARY BUILDING	GROUT VOIDS IN SLAB AND AT BASE OF WALL IN FAN ROOM
ZZ	980022341	0ZZ-AB000	AUXILIARY BUILDING	GROUT TWO HOLES LOCATED ABOVE FIRE EXTG 214
ZZ	980041749	0ZZ-AB000	AUXILIARY BUILDING	REPAIR LOOSE FIREPROOFING ON STRUCT STEEL
ZZ	980042642	0ZZ-AB000	AUXILIARY BUILDING	FILL VOID SPACES W/ FIREPROOFING AT COLUMN/MASONRY INTERFACE
ZZ	980092021	0ZZ-AB000	AUXILIARY BUILDING	JUNCTION BOX IS SLIGHTLY AJAR WITH A CABLE HANGING OUT OF IT
ZZ	980105693	0ZZ-AB000	AUXILIARY BUILDING	WATER FROM VR SH COILS LEAKING THRU WALL INTO 0DA01 DRAIN.
ZZ	980118866	0ZZ-AB000	AUXILIARY BUILDING	GROUT OPENINGS IN WEST WALL OF U1, DIV.1, 250VDC BATTERY RM
ZZ	990001336	0ZZ-AB000	AUXILIARY BUILDING	SAFETY CONCERN HOLE IN FLOOR
ZZ	990013965	0ZZ-AB000	AUXILIARY BUILDING	TOILET OR DOWNSTREAM PIPING IS PLUGGED
ZZ	990015463	0ZZ-AB000	AUXILIARY BUILDING	REPAIR LOOSE AND MISSING FIREPROOFING ON STRUCT STEEL
ZZ	990015464	0ZZ-AB000	AUXILIARY BUILDING	REPAIR LOOSE AND MISSING FIREPROOFING ON STRUCT STEEL
ZZ	990015994	0ZZ-AB000	AUXILIARY BUILDING	REPAIR LOOSE AND MISSING FIREPROOFING ON STRUCT STEEL
ZZ	990015995	0ZZ-AB000	AUXILIARY BUILDING	REPAIR 2 SMALL HOLES (1/2") WITH GROUT.
ZZ	990015998	0ZZ-AB000	AUXILIARY BUILDING	REPAIR SMALL HOLE (1/2") WITH GROUT.
ZZ	990017285	0ZZ-AB000	AUXILIARY BUILDING	AREA 10"X 84" OF FIRE PROOFING MISSING ON BEAM
ZZ	990020128	0ZZ-AB000	AUXILIARY BUILDING	REPAIR SMALL HOLE (1/2") WITH GROUT.
ZZ	990102333	0ZZ-AB000	AUXILIARY BUILDING	FLOOR DRAIN IS PLUGGED
ZZ	980012247	0ZZ-DG001	UNIT 1 DIESEL GENERATOR BUILDING	REPAIR GOUGE IN FIRE BARRIER BTWN. 1A & 1B DG ROOMS
ZZ	980089034	0ZZ-DG001	UNIT 1 DIESEL GENERATOR BUILDING	GROUT FOUR HOLES IN BLOCK WALL.
ZZ	970042644	0ZZ-LSH000	LAKE SCREEN HOUSE	GROUT AT BASE WHERE DISCHARGE LINE MEETS WS TUNNEL IS CRACKE
ZZ	970049759	0ZZ-RB000	REACTOR BUILDING	2" HOLE IN WALL/PATCH HOLE / DRY PACK THE EXISTING HOLE
ZZ	980098235	0ZZ-RB000	REACTOR BUILDING	SAFETY RAILS/GATE NEEDS REPLACING ON PLATFORMS IN MS TUNNEL

ATTACHMENT A
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(NON-OUTAGE RELATED)

ZZ	980109950	0ZZ-RB000	REACTOR BUILDING	TROUBLESHOOT FOR POTENTIAL CAVITY LEAK THROUGH DRAIN PIPES
ZZ	980118921	0ZZ-RB000	REACTOR BUILDING	J-BOX JB453R COVER IS NOT SECURED. THIS IS LOCATED IN PIPE
ZZ	990002238	0ZZ-RB000	REACTOR BUILDING	REPAIR IDENTIFIED RECESSED AREA IN THE CONCRETE
ZZ	990091713	0ZZ-RB000	REACTOR BUILDING	R-133 (U1) WHIP RESTRAINT, ONE NUT IS LOOSE, REINSTALL
ZZ	970042406	0ZZ000	MISCELLANEOUS WORK REQUESTS	1 LOOSE SCREW ON JUNCTION BOX 2JB159R, POT DIV 1 PROBLEM

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
(NON-OUTAGE RELATED)

AP	960026498	1AP83E-F3	LV 1VQ050	THE RIGHT BUCKET LOCKING TAB IS BROKE OFF AND WILL NEED TO
AP	980011068	1AP04E-10	BUS TIE BREAKER	141Y BUS TO 141X BRKR RACKING DIFFICULTY
AP	980036085	1AP06E-3	DIESEL GENERATOR 1A MAIN FEED	RBM: SBM SWITCH STUCK IN THE CLOSED POSITION DURING TESTING
AP	980041345	1AP21E-303C	A AEER HVAC AIR COOLED CNDSR FAN 0VE03CA	0VE03CA RACKING POSITION INDICATOR IS BROKEN, REPLACE
AP	980043676	1AP21E-303D	A AEER HVAC SUPPLY FAN 0VE01CA	TRIP INTERLOCK RACKING MECHANISM SLIDE TUBE STICKS.
AP	980134483	1AP72E-A5	CUBICLE, MCC 135X-2	BKR HANDLE BROKEN--REPLACE
AP	990010584	1APD5E	VOLTAGE REGULATING TRANSFORMER	VOLTAGE TRANSFORMER FAILURE: REPLACE/REPAIR AND TEST
AP	990016490	1AP22E-403C	B PRIMARY CONTAINMENT VENT SUPPLY FAN 1VP02CB	1VP02CB: RMS-9 TRIP UNIT DOES NOT FUNCTION PROPERLY
AP	990027138	1APD5E	VOLTAGE REGULATING TRANSFORMER	TROUBLESHOOT AND REPAIR PER LAP-1300-1T2
AP	990027222	1AP80E-E1-25	FEEDWATER INLET CHECK VALVES 1B21-F032A/B VOLTAGE REG XFMR 1APD5	BREAKER NEEDS TO BE REPLACED FOLLOWING TRANSFORMER FAILURE
B21	990026514	1B21-N517	MSR-B BETWEEN STAGES (BRS-1)	COMPUTER POINT T375 FAILED HIGH
B21	990100393	1B21-K104C	RELAY, H13P609,	TERMINAL #7 ON RELAY IS LOOSE
B33	980092962	1B33-K606C	RX RECIRC PUMP 1B FLOW	CONTINGENCY TO TROUBLESHOOT 1/2 SCRAM DURING LIS-NR-107
B33	990042164	1B33-K607C	RX RECIRC PUMP TOTALFLOW C	FLOW UNIT C MOVING MODE SWITCH CAUSES 1/2 SCRAMS
C11	990002840	1C11-D5439	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 54-39	N2 LEAK BETWEEN CHARGING CAP AND NIPPLE
C11	990035138	1C11-N044	HCU 14-39 ACCUMULATOR PRESS SWITCH	ALARM DID NOT CLEAR WITH PRESSURE AT 1060# AND WATER DRAINED
C11	990035138	1C11-N044	HCU 14-39 ACCUMULATOR PRESS SWITCH	FAILED PMT, REPAIR/REPLACE
C11	990078039	1C11-N088	HCU 22-15 ACCUMULATOR PRESS SWITCH	INTERMITTENT ALARM---PRESS GOOD AT 1120PSI NO WATER PRESENT
C51	980131584	1C51-K601H	IRM CHANNEL H MONITOR	IRM H READ HIGHER THAN EXPECTED DURING L1P02 STARTUP
C51	980132024	1C51-K601A	IRM CHANNEL A MONITOR	IRM A RANGE 6 TO 7 OVERLAP NEEDS ADJUSTMENT
C51	980132026	1C51-K601D	IRM CHANNEL D MONITOR	IRM D RANGE 6 TO 7 OVERLAP NEEDS ADJUSTMENT
C51	980133009	1C51-K601E	IRM CHANNEL E MONITOR	IRM E READING IS BOUNCING AROUND AS COMPARED TO OTHER IRM'S
C51	990023642	1C51-R603B	IRM/APRM CHANNELS RECORDER	PEAK TO PEAK OSCILLATIONS ARE HIGHER THAN OTHER APRM RECDRS
C51	990029106	1C51-K605GN	AVERAGE PWR RANGE MONITOR CHNL B	FAILED TO CHANNEL CHECK ON TRIP TEST. READS 108 VS 101
C51	990053265	1C51B-S001B	ALARM LEVEL APRM B & APRM D	P/B CONTACTS NOT ALWAYS MAKING UP. REPLACE P/B.
C51	990065855	1C51-K605GR	AVERAGE PWR RANGE MONITOR CHNL D	TROUBLESHOOT 1C51-K605GR OPRM
C51	990065862	1C51-K605GS	AVERAGE PWR RANGE MONITOR CHNL E	TROUBLESHOOT APRM "E"
C51	990090395	1C51-K605GR	AVERAGE PWR RANGE MONITOR CHNL D	CAUSED INADVERTENT 1/2 SCRAM WHILE INSTALLING OPRM
C51	990098082	1C51-K605GL	LOCAL PWR RANGE MON DET 48-09 LEVEL D	CONNECTOR NEEDS TO BE REPAIRED/REPLACED
C51	990098936	1C51-K605GL	LOCAL PWR RANGE MON DET 48-09 LEVEL D	LPRM IS DRIFTING-1C51-K605GL-48-09 LVL D.
C51	990100718	1C51A-S003B	REC 1C51-R603 B SEL IRM B OR APRM B	APRM TRIP LEVEL P/B STICKS CAUSING FALSE APRM READING
C51	990105304	1C51-K605GT	AVERAGE PWR RANGE MONITOR CHNL F	UNEXPECTED 1/2 SCRAM FROM APRM F WHILE HOLDING INOP-INHIBIT
C71	990065248	1C71-S003C	ELEC PROT ASSEMBLY	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
C71	990082127	1C71-N006E	TURBINE STOP VALVE 2 POSITION SWITCH	SWITCH MAY BE DEGRADED, TROUBLE SHOOT & REPAIR
CM	980121030	1PT-CM032	S-POOL PRESS XMITTER	SEALTITE COMING OUT OF CONDUIT CONNECTION
CM	980134622	1LT-CM030	SUP POOL WIDE RANGE LEVEL XMTR	COMPUTER POINT A911 IS INDICATING LOWER THAN RECORDER PEN.
CW	980020338	1PI-CW005	B CIRC WATER PUMP DSCH PRESSURE	INSTRUMENT STAND BOLTS BROKEN FROM

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
(NON-OUTAGE RELATED)

			INDICATOR	FLOOR, REPLACE
D18	970075031	1D18-N009D	REACTOR BLDG VENT DETECTOR	REPLACE HEAT SHRINK FOR MOISTURE SEAL ON CONNECTOR
D18	990032838	1D18-R800	RECORDER, CR HVAC AIR INTAKE	RECORDER NOT FOLLOWING MONITORS, PRINTING A STRAIGHT LINE
D18	990086920	1D18-K611B	CARBON BED VAULT MONITOR	HI RAD ALARM COMING IN W/ LOCAL READINGS OF 20 MR/HR
D18	990090393	1D18-R800	RECORDER, CR HVAC AIR INTAKE	RECORDER IS NOT PRINTING
D18	990092908	1D18-K751C	CONTROL ROOM HVAC AIR INTAKE	CR RAD MON 1D18-K751C FAILED DOWN SCALE
D18	990098420	1D18-R800	RECORDER, CR HVAC AIR INTAKE	RECORDER IS NOT PRINTING - BELT NEEDS TO BE REPLACED.
DC	990014911	1DC01E	250VDC BATTERY	CORROSION FOUND ON 26 CELLS DURING PERFORMANCE OF LOS-DC-W1
DG	980031319	1DG067A	1A DG A STARTING AIR AUXILIARY ACCUMULATOR DRAIN VALVE	VALVE LEAKS BY SLIGHTLY WHEN FULL CLOSED. REPAIR/REPLACE VLV
DG	980042759	1DG08CA	1A DG A STARTING AIR COMPRESSOR	GUARD SCREEN ON AFTERCOOLER RUBBING ON PULLEY
DG	990050128	1DG061A	ASSY_ VALVE, 1A D/G BANK A STARTER AIR SUPPLY	1A DG FAILED TO START THE FIRST TIME DURING LOS-DG-M2 ATT 1A
DG	990050128	1DG061A	1A DG A/C STARTING AIR MOTORS SUPPLY CONTROL VALVE	DISSASSEMBLE/INSPECT/REPAIR NEW CONTROL VALVE
DG	990050132	1DG059A	1A DG A STARTING AIR PRESS REGULATING VALVE	1A DG FAILED TO START THE FIRST TIME DURING LOS-DG-M2 ATT 1A
DG	990063362	1DG049A	1A DG A STARTING AIR COMPRESSOR DSCH CHECK VALVE	CHECK VALVE HAD DISC STUCK IN SEAT/DISASSEMBLE AND INSPECT
DO	970066250	1DO05T	1A DIESEL GEN DAY TNK	MANWAY ON NORTH END OF TANK HAS DEVELOPED A SLOW LEAK.
E12	960026231	1E12C300B	PUMP, RESIDUAL HEAT REMOVAL SER WTR	LOWER SUCTION FLANGE BOLTS LT STD FOR THREAD ENGAGEMENT
E12	960026232	1E12C300A	PUMP, RESIDUAL HEAT REMOVAL SER WTR	SUCTION FLANGE BOLTS LT STD FOR THREAD ENGAGEMENT
E12	970114592	1E12-F330D	D RHR SERVICE WATER PUMP SUCT VALVE	CLEAN FOLLOWER AND BOLTS
E12	980049985	1E12-F335A	A RHR SERVICE WATER PUMP SUCT PRESS IND 1E12-R526 ROOT VALVE	NUT MISSING FROM PACKING GLAND, REPLACE
E12	990051604	1E12-F330D	D RHR SERVICE WATER PUMP SUCT VALVE	PACKING LEAK, PUDDLE ON YOKE AFTER PUMP RUNNING 1/2 HR
E12	990075769	1E12-N016A	A RHR PUMP DSCH PRESS	SWITCH APPARENTLY STUCK CLOSED, AND WON'T RESET OPEN.
E12	990075769	1E12-N016A	A RHR PUMP DSCH PRESS	REPAIR / REPLACE SWITCH IDENTIFIED IN TASK 01
E12	990102446	1E12-R601	TEMP RECORDER	CAUSES POINT #5 TO PEG UPSCALE WHEN PULLED OUT
E22	970006525	1E22-C003	MOTOR, HPCS WTR LEG	CLEAN DIRTY AIR INTAKES ON HPCS WATER LEG PUMP MOTOR
E22	980010100	1E22-P301B	1B DG AUXILIARY CONTROL PANEL	"LOW AIR PRESS" ANNUNCIATOR (1E22-N504 & 5) ERRONEOUS INDICA
E22	980043411	1E22B-S018	HPCS DG FUEL PRIMING PMP MOTOR	REPOSITION FUEL OIL LINE FROM SKID MOUNTED PANEL
E22	980052524	1E22-S001	GOVERNOR ASSEMBLY / DIESEL DRIVEN GENERATOR HPCS	GOVERNOR OIL SIGHTGLASS IS LEAKING OIL.
E22	980057374	1E22-S001-N	HEAT EXCHANGER, DIESEL COOL WTR	ADJUST BOLT TORQUE TO STOP FLANGE LEAK
E22	980057374	1E22-S001-N	HEAT EXCHANGER, DIESEL COOL WTR	REMOVE SEISMIC SUPPORT, TORQUE FLOATING END, AND REINSTALL.
E22	980089131	1E22-N521	1B DG JACKET WATER LOW PRESS	DURING THE IDLE START OF THE 1B DG IAW LOS-DG-M3 LOCAL LOW
E22	990007749	1E22-S001-C	PUMP, AC LUBE OIL CIRC (B7)	THERE IS OIL LEAKING FROM A PLUG ON THE DISCHARGE LINE.
E22	990060631	1E22-S001	1B DIESEL GENERATOR	FUEL OIL LEAK ON 1B DG MOTOR DRIVEN PUMP SUCTION STRAINER
E22	990064575	1E22-K500	POWER SUPPLY	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
E22	990085041	1E22-S001-C	COUPLING, AC LUBE OIL CIRC (B7) PP	1B DG AC CIRCULATING OIL PUMP MOTOR TO PUMP RUBBER COUPLING
E22	990097509	1E22-S001	GOVERNOR, DIESEL GENERATOR	GOVERNOR ALLOWED THE DIESEL TO OVERSPEED

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
(NON-OUTAGE RELATED)

E22	990119775	1E22-S001	ENGINE, HPCS DG	EXHAUST PIPE SEAL BROKEN
E31	980081716	1E31-N009A	B MS LINE HI FLOW	1E31-N009A LO / HI SIDE SNUBBER (DAMPNER) SMAL LEAK
E31	990069844	1E31-N009A	B MS LINE HI FLOW	REPALCE 1E31-N009A
E31	990073584	1E31-N010A	C MS LINE HI FLOW	OUT OF TOLERANCE BEYOND REJECTION LIMIT AND CONTACTS ERRATIC
E31	990122703	1E31-N012A	RHR SUCTION HIGH FLOW SWITCH	SWITCH WOULDN'T HOLD PRESSURE.
E51	980097007	1E51-D317	RCIC TURBINE EXHAUST DRAIN LINE STRAINER	DISASSEMBLE, INSPECT AND REPAIR STRAINER PLUG THAT LEAKS.
E51	990000469	1E51-N002	RCIC PUMP DSCH HI/LOW FLOW	REPLACE 1E51-N002
E51	990122697	1E51-N012A	RCIC TURB EXH RUPTURE DISK HI PRESS	COULD NOT MAINTAIN PRESSURE DURING CAL WITH STOP VLV CLOSED
F21	960049809	1F21E003	BRIDGE, REFUEL	TROLLEY AND BRIDGE GEAR BOXES HAVE OIL LEAKS / REPAIR
FC	970080640	1FC03PA	MOTOR, FUEL POOL EMERG M/U PUMP	MOTOR AIR INTAKE SCREEN IS BROKEN
G33	970106919	1G33-Z00108A	DRN OTLT VLV UA	VALVE PACKING LEAKS 2-3 DROPS/MINUTE
G33	980016280	1G33-Z001-81	SIGHT FLOW GLASS	SIGHTGLASS NEEDS CLEANING
H13	970006522	1H13-P611	ASSY_-_PANEL, RX PROTECTION TRIP SYST B	REPLACE & SECURE SPECIFIC TB SHIELDS IN 1H13-P611.
H13	970020918	1H13-P603	ASSY_-_PANEL, RX CONTROL	VARIOUS TERMINAL STRIP COVERS ARE MISSING SCREWS - REPLACE.
HG	940059577	1HG005A	ASSY_-_VALVE, GATE	2 OF 8 BONNET TO BODY STUDS DON'T HAVE FULL THREAD ENGAGEMEN
HG	990036077	1HG027	ACTUATOR, VLV	VALVE DID NOT CLOSE AS EXPECTED PER LOP-HG-01
PA	970063584	1PA12J	ASSY_-_PANEL, H2 RECOMBINER CONTROL	ALARM WINDOW PANEL FOR F2 RECOMBINER PANEL BROKEN
PC	990076721	1PC000	MISC WORK REQS - SAFETY RELATED PKG REQD	INSTALL BANANA JACKS FOR LIS-MS-102.
PL	990028151	1PL25J	ASSY_-_PANEL, DG ROOM VENT SYST DIV-2	DG VENT SUPPLY AIR FILTER D/P HI ALARMUP AND WILL NOT RESET.
PL	990037195	1PL25J	ASSY_-_PANEL, DG ROOM VENT SYST DIV-2	DOOR #3 OPEN ALARM WILL NOT RESET WITH DOOR #3 CLOSED.
RH	960028896	1RH80AB	PIPE,	1RH80AB - REPLACE BOLTS ON RHR SW PUMP D SUCTION FLANGE
RH	990082655	1RH85BB	PIPE,	ALIGN AND TIGHTEN CLAMP
RH	990082689	1RH03-1052X	1RH03AB-18.00-SUBSYS-1RH08:RIGID SEISMIC RESTRAINT	STRUT MOUNTING CONFIGURATION UNACCEPTABLE, REPAIR
VD	980114059	1UAI-VD021	DG RM VENT ANNUN	ANNUNCIATOR 2-1 FAILED LAMP TEST ON PANEL 1PL24J
VD	990106012	1TZ-VD013C	DIESEL GEN RM 1DG01PMOD DPR 1VD19Y	CONTINGENCY TO TROUBLESHOOT AND REPAIR PER NSP-WC-3010
VG	980023136	1FZ-VG003	POSITIONER, SBTG TRAIN SUCTION DMPR	DAMPER ACTUATOR IS CYCLING
VG	980023136	1FZ-VG003	POSITIONER, SBTG TRAIN SUCTION DMPR	ACTUATOR IS LEAKING OIL
VG	980075796	1VG01S	SGTS EQUIP TRAIN	PREFILTER HAS SOME SEPARATOR DAMAGE / REPLACE
VX	970042751	1VX30Y	DAMPER, SWGR HEAT RMVL	LOUVERS ARE MISSING 3 OF 6 HOLD DOWN NUTS AND 1 LUG.
VY	960029571	1VY03A	B / C RHR PUMP ROOM COOLER	DIRECTIONAL BLADES ON REGISTER BENT OUT OF SHAPE
VY	980030876	1VY000	MISCELLANEOUS WORK REQUESTS	UPPER DIFFUSER FOR 1VY01A COOLER DUCT BROKEN BLADES
VY	980053562	1VY04C	ASSY_-_FAN, LPCS PUMP ROOM COOLING	1 BOLT MISSING FROM SUCTION BOOT - REPLACE
VY	980097183	1TIC-VY023	RHR WS PP A/B TEMP CONT MOD DMPR	TROUBLESHOOT/REPAIR TEMPERATURE CONTROL LOOP.
VY	980114449	1VY04A	LPCS PUMP ROOM COOLER	INLET DOOR SPRUNG IN MIDDLE - HAS SLIGHT GAP - ADJUST STOPS
VY	980118122	1TZ-VY023C	RHR SER WTR PUMP A&BTEMP CONT DPR 1VY03Y	REPLACE ACTUATOR PER LEP-EQ-127

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
(NON-OUTAGE RELATED)

AP	970025026	2AP82E-F4	MSIV - LCS OTBD SYS AIR BLOWER 2E32-C002F	CUBICLE F4 BREAKER HANDLE BROKEN OFF. REPLACE AS REQ'D
AP	970100042	2AP21E-302D	AUX ELECTRIC EQUIP ROOM SYS REFRG COMP 0VE04CB	TRIP INTERLOCK AIR GAP NEAR ZERO.
AP	970126470	2AP22E-402D	CONTROL ROOM HVAC REFRIGERATION UNIT 0B	TRBLSHOOT/REPAIR RIGHT DRAW OUT SLIDE
AP	980122093	2AP82E-B2	2E12-F009 RHR SHTDN COOLING SUCT HDR INBD STOP NORMAL SPLY	HANDLE INTERLOCK SCREW STRIPPED
AP	990030367	2AP83E-D4	DRYWELL VENT & PURGE OUTBOARD ISOL VLV	COMPUTER POINT D434 INDICATES POWER NOT AVAILABLE
AP	990031219	2AP21E-302A	RELAY, 74, 236X 302A	DID NOT RECEIVE AMBER TRIP LIGHT
AP	990040508	2AP20E-203C	2B RHR SERVICE WTR PMP 2E12-C300B	2E12-C300B MOMENTARY AUTO TRIP ALARM WHEN STARTING PUMP
B21	950042834	2B21-F032A	VALVE, FEEDWATER CHECK	PIF #L1999-01933 FAILED PMT - ADJUST PACKING
B21	990046848	2B21-R884A	RX LEVEL/PRESS POST-ACCIDENT RECORDER	DIV I WR LEVEL IND STRAIGHT LINING ON RECORDER
B21	990065288	2B21-N051A	RX PRESS	PRESSURE INDICATION SLOWLY DECREASING
B21	990092316	2B21-R614B	RX STEAM LINE RELIEF & SAFETY VLV	SRV TEMP CYCLING
C11	990022619	2C11-D3059-107	CRD HCU ACCUMULATOR WATER SIDE DRAIN VALVE	VALVE LEAKS BY 10 DPM. LEAKS WITH CAP INSTALLED.
C11	990044371	2C11-D1019-123	CRD HCU INSERT DRIVE WATER DIRECTIONAL CONTROL VALVE	ROD TRIPLE NOTCHES IN ON SINGLE NOTCH INSERT SIGNALS
C11	990049195	2C11-D5419	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 54-19	CAUSING SPURIOUS HI TEMP ALARMS IN MCR
C11	990051011	2C11-P003	LOCAL FLOW STATION RACK FOR COND CHAMBER 2B21-D004B	BACKFILL PANEL FLOW IS AT 0.35 GPH, NEEDS TO BE INCREASED
C11	990061761	2C11-D1447	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 14-47	CAUSING SPURIOUS HI TEMP ALARMS IN MCR
C11	990064788	2C11-D0243	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 02-43	THREADED NIPPLE INTO THE N2 BLOCK SLOWLY LEAKS NITROGEN.
C11	990072623	2C11-D5823	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 58-23	LEAKY FITTING FOLLOWING PRESSURE SWITCH REPLACEMENT
C11	990096152	2C11-D001063	CONTROL UNIT CRD HYDRAULIC 30-19	ROD 30-19 LOST FULL OUT IND
C11	990103424	2C11-D5843-111	CRD HCU ACCUMULATOR INSTRUMENT BLOCK VALVE	NITROGEN LEAK AROUND VALVE STEM AND WHERE CHARGING NIPPLE
C51	990040601	2C51-K605FP	LOCAL PWR RANGE MON DET 24-17 LEVEL D	DOWNSCALE LIGHTS ARE ILLUMINATED WITH LPRM READING 18/125THS
C51	990040608	2C51-K605AH	LOCAL PWR RANGE MON DET 40-41 LEVEL C	LPRM SPIKED UPSCALE.
C51	990044520	2C51-R603A	IRM/APRM CHANNELS A,C RECORDER	BOTH PENS SPORADIC TRACKING -- DIGITAL INDICATION GOOD
C51	990046831	2C51-R603D	IRM/APRM/RBM CHANNELS RECORDER	GREEN PEN ERRATIC AFTER PUSHING TEST BUTTON
C51	990061094	2C51-R604G	LPRM GR 2 LEVEL C	READS ERRATIC. FROM 25% TO 60%
C51	990064738	2C51-R603B	IRM/APRM/RBM CHNLS B,D RECORDER	DIGITAL AND PEN INDICATION DO NOT AGREE WITH BACKPANEL
C51	990073208	2C51-K605GP	AVERAGE PWR RANGE MONITOR CHNL C	RECEIVED UNEXPECTED A2 NEUTRON MONITORING HALF SCRAM
C51	990099429	2C51-K605GM	AVERAGE PWR RANGE MONITOR CHNL A	APPEARS THAT THE K11 RELAY IS MAKING A HUMMING NOISE
C51	990113089	2C51-K605GT	AVERAGE PWR RANGE MONITOR CHNL F	RECEIVING HIGH ALARM AND ROD BLOCK ALARM
C51	990116940	2C51-R603C	IRM/APRM/RBM CHNLS RECORDER	GREEN CHART PEN HOLDER/CARRIAGE BENT--WONT TRACK
CM	990039598	2LT-CM062	SUP POOL LEVEL XMTR	TRANSMITTER IS SLUGGISH AND WILL NOT REPEAT. REPLACE
CM	990080114	2RR-CM011	RECORDER, POST LOCA GROSS GAMMA RAD	RED PEN MOTOR APPEARS TO BE FROZEN IN PLACE
CM	990080605	2LI-CM179	P/C FLOOD LEVEL INDICATOR	CONTAINMENT FLOOD LEVEL INDICATION READING 3 FEET LOW.
CM	990086245	2PI-CM173	O2 ANALYZER B REAGENT GAS BOTTLE	GAS LEAK BY GAUGE ON REGULATOR
D18	970017542	2D18-K610A	MAIN STEAM LINE A MONITOR	PANEL COVER IS TORN, REPLACE.

ATTACHMENT A
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
(NON-OUTAGE RELATED)

D18	990039267	2D18-K611A	CARBON BED VAULT MONITOR	REQUIRES SET POINT CHANGE DUE TO CONTROL ROOM ALARMS
D18	990039269	2D18-K611B	CARBON BED VAULT MONITOR	REQUIRES SET POINT CHANGE DUE TO CONTROL ROOM ALARMS
D18	990039756	2D18-K611A	CARBON BED VAULT MONITOR	TROUBLESHOOT WHY THE 2A OG CRBON BED VAULT SPIKES ITS ALARM
D18	990114043	2D18-K751A	CONTROL ROOM HVAC AIR INTAKE	B VC A RAD MONITOR SPIKED TO > 1000MR CAUSING CR ALARM
DC	990048221	2DC06E-2C	RCIC BARO CND SR VAC PMP	2DC06E-2C: TROUBLE SHOOT & REPAIR 74 RELAY FAILURE/TRIP IND.
DG	980130238	2DG060B	2A DG B STARTING AIR STRAINER OUTLET VALVE	GLAND AROUND VLV STEM HAS BAD AIR LEAK.
E12	980135707	2E12-F095	FUEL POOL EMER MU SPLY PRESS TAP DWNST STOP	STEM THRUST BEARING RETAINER NUT HAS LOOSENED AND BACKED OUT
E12	990009996	2E12-F330A	A RHR SERVICE WTR PMP SUCT STOP	PACKING GLAND FOR THE 2E12-F330A PAINTED BROWN/PACKING LEAK
E12	990044147	2E12-F445	VALVE, ADDED PER DCP 9600198 DCN 000948M00	DURING LOS-RH-Q1 IT WAS DISCOVERED THAT THIS VALVE LEAKS BY
E12	990044289	2E12-N010CA	RHR FLOW 2C PRESS DIFF	INSTALL NEW SOR.
E12	990061797	2E12-R602A	RHR HEAT EXCH 2A SERVICE WATER FLOW	GAUES READS HIGH PLEASE CALIBRATE
E12	990066524	2E12-N016A	RHR PUMP 2A DISCH PRESSURE	RELAY 2B21C-K009A IS ENERGIZED AND SHOULD NOT BE.
E12	990103676	2E12-N019B	RHR PUMP 2B DISCH PRESSURE	SWITCH FAILURE/REPAIR OR REPLACE
E12	990103676	2E12-N019B	RHR PUMP 2B DISCH PRESSURE	SWITCH FAILURE/REPAIR OR REPLACE
E12	990105537	2E12-N010AB	RHR FLOW 2A PRESS DIFF	2H13-P601-C304 CHATTERS/COMES IN LATE, RECAL 2E12-N010AB
E12	990116477	2E12-R601	RHR HE 2A & 2B INLT OUTLT & SW TEMP	RECORDER NOT ADVANCING.
E22	990105217	2E22-D317B	2B DG B STARTING AIR STRAINER	AIR STRAINER DRAIN BUSHING/PLUG LEAKS FROM THREADS.
E22	990107454	2E22-S001	2B DIESEL GENERATOR	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
E51	990061817	2E51-F361	VALVE, HYDRAULIC GOVERNOR RI TURB	RCIC TURBINE GOVERNOR VALVE NEEDS INSPECTION/REPAIR
E51	990090206	2E51-F086	VALVE, RI VAC BRKR ISOL VLV	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
E51	990130093	2E51-F086	ACTUATOR, RI VAC BRKR ISOL VLV	ADJUST CLOSED LIMIT SWITCH AND VOTES TEST
FC	960045732	2FC047A	FUEL POOL EMER MU PMP 2A DSCH TO FUEL POOL HOSE CONN STOP	BLIND FLANGE AND GASKET DEGRADED - RUSTED AND FLAKING OFF
FC	960069044	2FC03PA	PUMP, FUEL POOL EMERG M/U	PUMP VIBRATIONS TRENDING UPWARD.
LL	980081101	2LL140E	ELBP	ELBP 2-40 NEEDS CAGE INSTALLED, REQUIRED BY APP. R
PC	990067978	2PC001A	PRI CNMT VAC BKR 2A	DIV 1 OPEN LIGHT DID NOT LIGHT DURING VALVE CYCLING.
VD	990080963	2TCU-VD003	TEMP	CONTROLLER FAILED - INDICATES DOWNSCALE, DOES NOT CONTROL
VG	980131687	2VG007B	SBGT FILT DELUGE VLV SOL PILOT VLV MAN OPERATOR KNOB	DISASSEMBLE AND INSPECT VALVES ASSOCIATED WITH 2VG007B
VX	990116467	2VX08C	MOTOR, FAN MS SET ROOM 1 BATT ROOM EXH	REPLACE BOTH BEARINGS, HPI FOR BEARING CAT # IDENTIFICATION
VY	970036128	2TS-VY004	LPCS PP CUBE TEMP CONT	REPAIR NICKED WIRE ON N.O. CONTACT
VY	990096761	2TIC-VY024	RHR WS PP C/D TEMP CONT MOD DMPR	ALARMING AT 84 F/SHOULD BE AT 125 F

ATTACHMENT B

UNIT SHUTDOWNS

**ATTACHMENT B
II.B UNIT SHUTDOWNS
(UNIT 1)**

Date: (YYMMDD)	99/09/02	Generator Off- Line: (hours)	59.5	Outage Type:	Forced (L1F36)
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REASON: Following an operator error associated with a Feedwater Level Control subloop out-of-service, an automatic scram on low reactor level occurred.

CRITICAL PATH ACTIVITIES: Forced outage recovery.

CORRECTIVE ACTIONS (LER# if applicable): See Unit 1 LER 99-003.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED:

System WR # EPN Equipment Name Defect/Request/Description

C51	990090146	1C51-K601G	IRM CHANNEL G MONITOR	ERRATIC INDICATION. SPIKING UPSCALE
C51	990091714	1C51-000	MISCELLANEOUS WORK REQUESTS	DISCRIMINATOR ADJUSTMENTS PER NDD FOR LIP-NR-515.
VG	990091554	1VG01S	STANDBY GAS TREATMENT SYSTEM FILTER UNIT	OPEN DOOR AND RELOCKWIRE

Date: (YYMMDD)	99/10/23	Generator Off- Line: (hours)	727.0	Outage Type:	Refueling (L1R08)
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REASON: Refueling Outage

CRITICAL PATH ACTIVITIES: See Appendix A

CORRECTIVE ACTIONS (LER# if applicable): N/A

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: See Appendix B

**ATTACHMENT B
II.B UNIT SHUTDOWNS
(UNIT 2)**

Date: (YYMMDD)	99/01/01	Generator Off- Line: (hours)	2,411.2	Outage Type:	Refueling (L2R07)
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REASON: Refueling Outage Extension

CRITICAL PATH ACTIVITIES: While in recovery mode, critical path activities were system readiness reviews and system turnover. Once all systems were returned to service, critical path activities were fuel reload, reactor vessel reassembly, and startup testing.

CORRECTIVE ACTIONS (LER# if applicable): N/A

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: See Appendix B

Date: (YYMMDD)	99/08/21	Generator Off- Line: (hours)	55.1	Outage Type:	Forced (L2F27)
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REASON: Automatic Scram on low reactor water level due to a feedwater level control system transient.

CRITICAL PATH ACTIVITIES: Feedwater transient investigation and forced outage recovery

CORRECTIVE ACTIONS (LER# if applicable): See Unit 2 LER-99-002.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED:

System	WR #	EPN	Equipment Name	Defect/Request/Description
B21	990087964	2B21-F032B	FW CHECK VLV POS IND SWITCH	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
C51	990087963	2C51-K601C	IRM CHANNEL C MONITOR	INOP INHIBIT SWITCH DOES NOT WORK PROPERLY.
C51	990087967	2C51-K601G	IRM CHANNEL G MONITOR	INOP SWITCH DOES NOT WORK PROPERLY
VX	990088960	2PDS-VX042	SWGR DIV-1 BATT ROOM 107 FAN 02C D/P	D/P SWITCH FAILED

**ATTACHMENT B
II.B UNIT SHUTDOWNS
(UNIT 2)**

Date: (YYMMDD)	99/11/16	Generator Off- Line: (hours)	61.4	Outage Type:	Forced (L2F28)
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REASON: Manual Scram initiated in response to EHC system malfunction

CRITICAL PATH ACTIVITIES: EHC malfunction investigation and forced outage recovery

CORRECTIVE ACTIONS (LER# if applicable): See Unit 2 LER 99-003.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

ATTACHMENT C

FORCED DOWNPOWERS

**ATTACHMENT C
II.B UNIT FORCED DOWNPOWERS
(UNIT 1)**

Date: (YYMMDD)	99/01/05	Operation at Reduced Power (Hours):	27.6
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REASON: Power was reduced in response to a Heater Drain system transient which caused a loss of pumped forward drains.

CRITICAL PATH ACTIVITIES: Recovery of isolated Feedwater Heaters.

CORRECTIVE ACTIONS (LER# if applicable): A failed Heater Drain Tank level controller card was replaced.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

Date: (YYMMDD)	99/01/24	Operation at Reduced Power (Hours):	14.2
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REASON: Power was reduced in response to decreasing condenser vacuum during swap of Off Gas trains.

CRITICAL PATH ACTIVITIES: Recovery of condenser vacuum.

CORRECTIVE ACTIONS (LER# if applicable): A bound open manual valve in the Off Gas system was repaired and placed in the closed position.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

**ATTACHMENT C
II.B UNIT FORCED DOWNPOWERS
(UNIT 1)**

Date: (YYMMDD)	99/07/08	Operation at Reduced Power (Hours):	16.3
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REASON: Perform unplanned cycling of condenser waterbox inlet isolation valves for waterbox flushing purposes.

CRITICAL PATH ACTIVITIES: Waterbox isolation valve cycling

CORRECTIVE ACTIONS (LER# if applicable): None.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

Date: (YYMMDD)	99/11/28	Operation at Reduced Power (Hours):	26.8
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REASON: Power was reduced to allow for closure of the #2 Turbine Control Valve (TCV) in order to isolate an EHC fluid leak.

CRITICAL PATH ACTIVITIES: Repair of the EHC fluid leak.

CORRECTIVE ACTIONS (LER# if applicable): EHC leak was isolated.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

**ATTACHMENT C
II.B UNIT FORCED DOWNPOWERS
(UNIT 2)**

Date: (YYMMDD)	99/08/21	Operation at Reduced Power (Hours):	0.9
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REASON: Power was reduced to allow repairs to the potential transformer associated with the 'A' phase of the main generator

CRITICAL PATH ACTIVITIES: N/A – Automatic Scram occurred 1 hour into this downpower.

CORRECTIVE ACTIONS (LER# if applicable): Blown fuses in the metering instrumentation for the Unit 2 main generator were replaced during the forced outage which followed this downpower.

RADIOACTIVITY RELEASE/EXPOSURE OVER 10% OF ANNUAL LIMITS: None

SAFETY RELATED CORRECTIVE MAINTENANCE COMPLETED: None

APPENDIX A

REFUELING OUTAGE (L1R08) CRITICAL PATH ACTIVITIES

**APPENDIX A
REFUELING OUTAGE (L1R08)
CRITICAL PATH ACTIVITIES**

TURBINE GENERATOR OFFLINE

NOBLE METALS INJECTION

REACTOR SHUTDOWN TO COOLDOWN

REACTOR DISASSEMBLY

FUEL SIPPING – SUPPRESSED BUNDLES

FUEL SHUFFLE #1 AND FUEL SIPPING

CONTROL ROD BLADE UNCOUPLING

REACTOR VESSEL WORK WINDOW

- Reactor Nozzle Flushing (N6A, N6C, N2D, N2E, N10, N2A, and N6G)
- Jet Pump 9 and 10 Repairs
- Remove IRM Dry Tubes
- IRM and LPRM Replacements
- Vessel Internal Inspections
- Vacuum Guide Tubes
- Control Rod Blade Replacements and Shuffles

FUEL SHUFFLE #2 AND FUEL SIPPING

REACTOR VESSEL REASSEMBLY

DRYWELL FLOOR BYPASS TEST

STARTUP TESTING AND POWER ASCENSION

TURBINE GENERATOR ONLINE

APPENDIX B

**SAFETY-RELATED MAINTENANCE
REFUELING OUTAGES L1R08 AND L2R07**

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
REFUELING OUTAGE L1R08

AP	970111873	1AP04E-4	LOW PRESSURE CORE SPRAY PUMP	REPLACE LUGS AT TB AA PTS 14, 15 & 16 (TOP)
AP	980011073	1AP05E-8	CIRCULATING WATER PUMP 1B	CUBICLE FLOOR IS UNEVEN; DIFFICULT TO INSERT/REMOVE BREAKER.
AP	990110490	1AP07E-001	ACB 1432 - FEED FROM SAT 1AP91E(TR 142)	PERFORM LEP-AP-06 ON SAT BRKR DUE TO TEST POSITION TESTING
AP	990118450	1AP19E-103A	0 DG COOLING WATER PUMP 0DG01P	1AP19E-103A FOR 0DG01P FAILED TO CLOSE ON 1VY04C FAN START
AP	960102291	1AP19E-103C	AB 480V MCC 1AP72E (135X-2) FEED	RACKING MECH PROBLEM, 135X 1AP19E-103C 135X-2 FEED
AP	990095467	1AP20E-204B	RB 480V MCC 1AP76E (135Y-2) FEED	INSPECT BRKR REMOVED BY WR 950106870-01:INSTALL IN 135Y/204B
AP	980032903	1AP71E-C2	1E12-F009 RHR SDC SUCT HDR INBD ISOL VALVE EMER POWER SUPPLY	PLASTIC BREAKER HANDLE IS CRACKED IN THE AREA OF THE PADLOCK
B13	960047934	1B13-D003	VESSEL, REACTOR	WEDGES ON JP # 1 & 8 , INSTALLATION.
B21	960060078	1B21-F001	VALVE, RX HEAD VENT	PT #4 ON 1E31-R612 READS 213 DEGREES, 1B21F001 AND F002 LEAK
B21	990115654	1B21-F013A	SRV A LIFT INDICATING SWITCH ASSEMBLY	GROUND TRACED TO LEADS OF 1B21-F013A LISA ASSMBY. REPAIR
B21	980135518	1B21-F013C-C	SRV C UMF-1 SOLENOID VALVE 'C'	REPLACE CONNECTOR ON "C" SRV
B21	990111406	1B21-F013J-C	SRV J IMF-2 SOLENOID VALVE 'C'	REPLACE C SOLENOID AIR VALVE
B21	990108668	1B21-F013M-C	SRV M IMF-2 SOLENOID VALVE 'C'	CONDUIT TO 'C' SOLENOID IS MISSING SUPPORT BRACKET
B21	980095087	1B21-F013N	C MAIN STEAM LINE SAFETY RELIEF VALVE	REPLACE SRV #1B21-F013N.
B21	980133196	1B21-F013S	B MAIN STEAM LINE SAFETY RELIEF VALVE	REPLACE SRV #1B21-F013S.
B21	990113631	1B21-F016	VALVE, I/B MSIV DRN HEADER I/B STOP	VALVE FOUND TO HAVE SEAT LEAKAGE DURING LLRT
B21	990113241	1B21-F032A	SOLENOID VALVE	3 OUT FOUR SOL VALVES CONNECTIONS LEAKING AIR, 4TH AT UNION
B21	990112504	1B21-F032B	FW CHECK VLV POS IND SWITCH	DUAL INDICATION AT 80% OPEN.
B21	990112504	1B21-F032B	FW CHECK VLV POS IND SWITCH	CLOSED INDICATION WITH CONTROL SWITCH IN OPEN
B21	990113507	1B21-F032B	B FEEDWATER LINE OTBD TESTABLE CHECK VALVE	1B21F032B LEAKING AIR, MAY BE O-RINGS NOT SEATED RIGHT
B21	980052558	1B21-F067D	ACTUATOR, MSL O/B DRAIN VLV	SMB-000 / D/R, R/R, REFURB, EQ INSPECT, SPRINGPACK, VOTES
B21	980075042	1B21-F326C	VALVE, EX FLOW CHK	EXCESS FLOW CHECK VALVE DID NOT RESET
B21	980075813	1B21-F328A	VALVE, EX FLOW CHK	CHECK VALVE DID NOT RESET AUTOMATICALLY
B21	980075814	1B21-F328D	VALVE, EX FLOW CHK	CHECK VALVE DID NOT AUTOMATICALLY RESET
B21	990083471	1B21-F405B	B MSR 2ND STAGE MS SPLY PRESS XMTR 1B21-N545 ROOT VALVE	BAD PACKING LEAK - CAN'T TIGHTEN - BLOWING STEAM
B21	990083470	1B21-F408B	B MSR 1ST STG MS SPLY HDR D/P XMTR 1B21-N558 HI SIDE ROOT VLV	BAD PACKING LEAK - BLOWING STEAM
B21	960050196	1B21-MOVCA6	VALVE, HP EXH LINES TO MSR 1B DRN	VALVE LEAKING BY SEAT
B21	970125356	1B21-N034G-LSV	RX CORE JET PUMP 4 FLOW LOW SIDE STOP VLV	LOW SIDE STOP VALVE ALLOWS FLOW WHEN CLOSED
B21	990111442	1B21-N048B-SV	DRYWELL HI PRESS ALARM/INTLK SW STOP VLV	STOP VALVE LEAKED BY DURING LIS-NB-116B, REPAIR/REPLACE
B21	990097538	1B21-N401B-VV	REACTOR VESSEL HIGH PRESS ARI AND ATWS TRANSMITTER VENT VLV	DURING LIS-NB-120B FOUND 1B21-N401B WOULD LEAK BY *
B21	960044363	1B21F022B	B MS INBD ISOL	VALVE PACKING LEAKING, REPACK.
B33	990114238	1B33-F019	VALVE, CONTROL	AIR ACTUATOR DIAPHRAM DAMAGED/NEED REPAIRED/REPLACED
B33	980050034	1B33-F051B	C/U SUCT FROM 1B RECIRC LOOP UPSTRMDRN STOP VLV	VALVE LEAKS BY: REPLACE VALVE
B33	980050035	1B33-F052B	C/U SUCT FROM 1B RECIRC LOOP DWNST DRN STOP VLV	VALVE LEAKS BY: REPLACE VALVE
B33	980075812	1B33-F307B	VALVE, EX FLOW CHK	CHECK VALVE DID NOT RESET AUTOMATICALLY
B33	980075811	1B33-F313A	VALVE, EX FLOW CHK	CHECK VALVE DID NOT RESET AUTOMATICALLY
B33	980075809	1B33-F313D	VALVE, EX FLOW CHK	CHECK VALVE WOULD NOT RESET WITHOUT MANUAL PREPRESSURIZATION

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
REFUELING OUTAGE L1R08

B33	990107703	1B33-F317B	VALVE, EX FLOW CHK	CHECK VALVE FAILED TO CHECK. DIS-ASSEMBLE AND CLEAN.
C11	990012997	1C11-D0619	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 06-19	DOUBLE-NOTCHED 48 TO 44 DURING LOS-AA-W1(DRIVE WATER @ 275#)
C11	990111900	1C11-D0623	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 06-23	WAS INAPPROPRIATELY DE-TORQUED. REPLACE O-RINGS IF REQUIRED
C11	990001332	1C11-D0639	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 06-39	DOUBLE NOTCHES IN FROM 48 TO 44 WITH NORMAL DRIVE PRESS.
C11	980089092	1C11-D1011	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 10-11	DOUBLE NOTCH DURING LOS-AA-W1
C11	990004085	1C11-D1443	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 14-43	DOUBLE NOTCHED TO POSITION 44 DURING LOS-AA-W1
C11	990115981	1C11-D1819	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 18-19	U1 HCU 18-19 ACCUM N2 CHARGING NIPPLE LEAKS AT INST. BLOCK
C11	990118368	1C11-D2643	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 26-43	P6 BLOCK FITTING & N2 CAP IS LEAKING ON HCU 26-43, REPLACE
C11	980101916	1C11-D3427	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 34-27	HIGH TEMP ALARM UP (266 DEG). ALARM WAS BYPASSED ON SEPT 23
C11	990008339	1C11-D3851	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 38-51	ROD DOUBLE NOTCHED FROM POS 48 TO POS 44 ON LOS-AA-W1
C11	990116451	1C11-D4619-126	CRD HCU SCRAM INLET VALVE	VALVE HAS PACKING LEAK. REPAIR PLEASE.
C11	990004089	1C11-D5043	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 50-43	DOUBLE NOTCHED TO POS 44 DURING LOS-AA-W1
C11	990012998	1C11-D5051	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 50-51	DOUBLE-NOTCHED 48 TO 44 DURING LOS-AA-W1(DRIVE WATER @ 270#)
C34	990108257	1C34-N017	REACTOR WATER LEVEL UPSET RANGE XMTR	LEAKY VENT VALVE
C51	990080603	1C51-K601D	IRM CHANNEL D MONITOR	IRM D FAILED SHIELD TO GRN TEST. BELIEVE UNDER VESSEL PROBL
C51	990112029	1C51-K605GS	AVERAGE PWR RANGE MONITOR CHNL E	APRM E INOP INHIBIT SWITCH ERATTIC.
C51	990118369	1C51-R603A	IRM A, C/APRM A,C CHANNELS	DIGITAL INDICATION FOR IRM "A" DOES NOT AGREE WITH RED PEN.
C51	990112903	1C51-000	MISCELLANEOUS WORK REQUESTS	REDUCE DIAMETER OF NEW LPRM STRING TO FIT GUIDE TUBE
C71	990111444	1C71-N002B-SV	PRIMARY CNMT HI PRESS ALARM/INTLK SW STOP VLV	STOP VALVE LEAKED BY DURING LIS-NB-116B, REPAIR/REPLACE
C71	990118177	1C71A-K010C	RELAY, H13P609, TSV-3 NOT OPEN SCRAM	TROUBLESHOOT AND REPAIR PER NSP-WC-3010
DC	990107919	1DC06E	DIV I 250VDC MCC 121Y	T-SHOOT AND REPAIR PER NSP-WC-3010 AND SYS ENG DIRECTION
DC	990115039	1DC06E-7C-C	RELAY, CONT 121Y 7C RI VAC PP DISCH VLV	1DC06E-7C: REPLACE 74 RELAY
DC	980069243	1DC14E	ASSY_-_BATTERY, 125 VDC DIV-2	CELL 35 HAS A POST SEAL NUT THAT IS CRACKED.
DC	990115654	1ER-DC015	RECORDER, GROUND DETECTOR 111X	NEGATIVE 20V GROUND
D18	990118173	1D18-K615D	FUEL POOL VENTILATIOEXHAUST	TRIP CONTACTS QUESTIONABLE / OPEN
D18	990108179	1D18-K751C	CONTROL ROOM HVAC AIR INTAKE	MONITOR NOW DOWNSCALE
E12	990111761	1E12-F008	VALVE, RHR SUCT CLNG O/B ISOL	VALVE FAILED LLRT DUE TO EXCESSIVE LEAKAGE PAST SEAT
E12	970102028	1E12-F024A	ACTUATOR, RHR TEST RETURN VLV	1E12-F024A / ADJUST, REPAIR, REPLACE MDPI
E12	990109056	1E12-F042C	VALVE, RHR INJECT	EXCESSIVE SEAT LEAKAGE DURING LLRT, REPAIR/ELIMINATE LEAKAGE
E12	990050495	1E12-F072A	A RHR PUMP DSCH DRAIN VALVE	VALVE LEAKS BY PRESURIZING DOWNSTREAM PIPING
E12	980068348	1E12-F074B	VALVE, RHR HX VENT VLV	PACKING LEAK
E12	990028588	1E12-F098A	A RHR PUMP DSCH VALVE	PACKING LEAK 1-2 DPM
E12	970098034	1E12-F339A	A RHR HEAT EXCH SERVICE WTR HP VENT STOP	WATER LEAKS PAST THE VALVE SEAT WHEN IT IS CLOSED
E12	990108708	1E12-F360B	RHR SDC SUCT HDR D/P SW 1E31-N012BA/BB LO SIDE EXCESS FLOW CK VL	DISASSEMBLE, AND CLEAN EXCESS FLOW CHECK VALVE
E12	990069839	1E12-000	MISC WORK REQS - SAF REL, CODE REL PKG REQD	BACKFILL C RHR INSTS. IN L1R08

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 1
REFUELING OUTAGE L1R08

E12	950117307	1E12D300A	STRNR RHR SERVICE WTR	1E12D300A - INSPECT STRAINER, COVER IS LEAKING
E31	980107374	1E31-N008A-LSV	A MS LINE HI FLOW LOW SIDE STOP VLV	1E31-N008A 'A' MS LINE HI FLOW LOW SIDE STOP VLV LEAKS BY
E31	980135561	1E31A-K003D	RELAY, CONTROL	REPLACE DEFECTIVE RELAY DISCOVERED DURING LES-LD-101
E51	990118452	1E51-C003	RCIC WATER LEG PUMP	PUMP CASING IS LEAKING, REPAIR
E51	970129597	1E51-D303	SPARGER, FAB ASSY DTLS PER M844-5	PERFORM CHK VLV INSPECT 1E51-F040 & REMOVE HOSE FROM SPARGER
E51	990116142	1E51-F063	VALVE, RI STM LINE I/B ISOL	MANUALLY BACKSEAT OPEN PER MOV GROUP TORQUE SHEET
E51	990083082	1E51-F064	VALVE, RHR HX O/B ISOL	DETERM AND ROLL BACK CABLE
E51	990111504	1E51-F065	POS IND SWITCH CLOSED	VALVE CONTROL ROOM INDICATION WAS INTERMITTENT
E51	990107769	1E51-F066	VALVE, NOSLAM CHECK	SMALL AIR LEAK AT NIPPLE CONNECTION INTO SOLENOID VALVE
E51	960043268	1E51C002	TURBINE, RI	REPLACE EGR S.I. 247A18 (PIF 96-1139)
FC	990116482	1FC11MB	B FUEL POOL FILTER/DEMIN OUTLET STRAINER	HIGH DIFFERENTIAL PRESSURE ALARM RECIEVED ON STRAINER
F21	990110090	1F21-E003	BRIDGE, REFUEL	MAST IS BINDING, REPLACE MAST
H13	990114469	1H13-P623	OUTBOARD VALVE RELAY VERTICAL BOARD	REPLACE RELAY 1B21A-KX203 PER LEP-GM-163
H22	990118577	1H22-P010	JET PUMP INSTRUMENT PANEL A	VERIFYING IF DRAIN VALVES FOR 1B21-R005 ARE LEAKING BY.
MS	970136693	1MS04-1017C	1MS04BK-12.00-SUBSYS- 1MS02: CONSTANT	LOOKS LIKE ONE OF THE SUPPORT BOLTS IS MISSING JAMB NUT
MS	990111359	1MS04-1245S	1MS04BR-12.00-SUBSYS- 1MS03: SNUBBER	REMOVED WRONG SNUBBER / REINSTALL
NB	990109838	1NB13-1001S	1NB13A-04.00-SUBSYS- 1NB01: SNUBBER	1NB13-1001S SHOWED DEGRADED WHEN TESTING. REPLACE
PC	970107091	1PC000	MISCELLANEOUS WORK REQUESTS	COATING IS BLISTERED AND PEELING IN LARGE SECTIONS
PC	990114174	1PC001A-ZS	P/C VAC BREAKER VLV POS IND SWITCH	DIV 2 NO DUAL IND WHILE CLOSING & SLOW TO SHOW FULL CLOSED
PC	990113655	1PC002A	VAC BKR 1PC001A DW ISOL STOP	1PC002A HAS EXCESSIVE SEAT LEAKAGE/REPAIR TO ELIMINATE LEAK
RI	990013946	1RI40A	PIPE,	REMOVE APPROX 1" OF PIPE TO ELIMINATE STRAIN ON 1E12-F036B
VP	980050007	1VP053A	A DW COOLER OUTLET OTBD ISOL VALVE	VALVE PACKING PROTRUDING OUT OF FOLLOWER.CANNOT ADJUST
VP	980050005	1VP063B	VALVE, GATE	VALVE PACKING FOLLOWER TO BODY HAS MATERIAL BUILDUP
VP	990114229	1VP113B	VALVE, BUTTERFLY	VALVE FAILED LLRT, EXCESSIVE SEAT LEAKAGE, REPAIR AS REQD
VQ	950049268	1VQ030	VALVE, D/W VNT/PRG FROM RX	REPAIR INBOARD PIPE FLANGE FACE. REBUILD VALVE.
VQ	990012561	1VQ33B	PIPE,	REPLACE PIPE NIPPLE OFF THE 1VQ067 VALVE
VT	980065916	1VT79YB	DAMPER, VT CHECK	ADJUST DAMPER VALVE PLATE SPEED CONTROL
VT	980065915	1VT79YC	DAMPER, VT CHECK	ADJUST DAMPER VALVE PLATE SPEED CONTROL
VX	990109274	1TZ-VX019	ACTUATOR, VLV	1TZ-VX019: 1VX19YA DAMPER ACT.SPRING BROKEN, REPLACE ACT.
WR	960026213	1WR158	DW EQUIP DRN SUMP HEAT EXCH RBCCW VENT STOP	REQUIRES PIPE WRENCH TO OPERATE

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

AP	970010885	2AP000	MISCELLANEOUS WORK REQUESTS	ELECTRICAL CONDUIT PULLING TEE COVER MISSING
AP	960114025	2AP02E	6.9 KV SWGR 252	REPAIR BENT/BROKEN LOUVERS AND STRAIGHTEN ONE DOOR AT 2AP02E
AP	980011071	2AP04E-01	RECIRC MG SET DRIVE MOTOR 2A BREAKER 1A	CLEAN AND LUBRICATE TSC SWITCH - A RR 1A BRKR
AP	980011071	2AP04E-1	TIE BREAKER TO UNIT 1 SWGR 141Y	CLEAN AND LUBRICATE TSC SWITCH - TIE TO U1 141Y
AP	980011071	2AP04E-12	SYSTEM AUXILIARY TRANSFORMER MAIN FEED	CLEAN AND LUBRICATE TSC SWITCH - SAT FD TO 241Y
AP	980011071	2AP04E-2	480V SWGR 233	CLEAN AND LUBRICATE TSC SWITCH - FD TO SWGR 233
AP	980011071	2AP04E-3	BUS TIE BREAKER	CLEAN AND LUBRICATE TSC SWITCH - 241Y TIE TO 241X
AP	980011071	2AP04E-4	480V SWGR 235X & 235Y	CLEAN AND LUBRICATE TSC SWITCH - FD TO 235X/Y
AP	980011071	2AP04E-5	PRIMARY CONTAINMENT WATER CHILLER 2A	CLEAN AND LUBRICATE TSC SWITCH - FD TO 2A VP CHILLER
AP	980011071	2AP04E-6	CONTROL ROD DRIVE FEED PUMP 2A	CLEAN AND LUBRICATE TSC SWITCH - FD TO 2A CRD PP
AP	980011071	2AP04E-7	RESIDUAL HEAT REMOVAL PUMP 2A	CLEAN AND LUBRICATE TSC SWITCH - FD TO 2A RHR PP
AP	980011071	2AP04E-8	SUPP POOL CLEANUP & TRANSFER PUMP 2B	CLEAN AND LUBRICATE TSC SWITCH - FD TO 2B SF PP
AP	970050800	2AP06E	INSTR MEDIUM VOLTAGE SWITCHGEAR	UNIT TIE BUS DUCT FOR 142Y/242Y MISSING VENT SCREENS(SMALL
AP	980001875	2AP06E-01	B REACTOR RECIRC PUMP LFMG SET 2B33-S001B DRIVE MOTOR BREAKER 1B	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-11	DIESEL GENERATOR 2A MAIN FEED	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-13	SYSTEM AUXILIARY TRANSFORMER MAIN FEED	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-2	TIE BREAKER TO UNIT 1 SWGR 142Y	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-3	480V SWGR 234X & 234Y	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-4	BUS TIE BREAKER	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-5	480V SWGR 236X & 236Y	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-6	PRIMARY CONTAINMENT WATER CHILLER 2B	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-7	CONTROL ROD DRIVE FEED PUMP 2B	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-8	RESIDUAL HEAT REMOVAL PUMP 2C	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	980001875	2AP06E-9	SUPPR POOL CLEANUP & TRANSFER PUMP 2A	CLEAN AND LUBRICATE TSC SWITCH LINKAGE FOR 242Y BKR CUBICLES
AP	960105074	2AP09E-2	RX RECIRC PMP 2B33-C001B BKR 4B	REPLACE LOCAL C/S FOR 2B33-C001PB_PMP BKR 4B @_SWGR 252-1/C2
AP	980092157	2AP09E-2	RX RECIRC PMP 2B33-C001B BKR 4B	RACKING DOOR PUSHED IN/REPAIR
AP	990026477	2AP20E-202A	RWCU RECIRC PMP 2A 2G33-C001A	NEED TO REPLACE 74 RELAY FOR 2G33-C001A
AP	990026853	2AP20E-203C	2B RHR SERVICE WTR PMP 2E12-C300B	RIGHT HAND SIDE OF BREAKER DOES NOT MOVE WHEN RACKED.
AP	970100029	2AP21E-302C	DG 2A COOLING WTR PMP 2DG01P	RACKING MECHANISM SLIGHTLY BENT 2DG01P
AP	970050943	2AP22E-401A	H2 RECOMBINER POWER CABINET	TRIP LEVER HAS ZERO CLEARANCE. WHEN BKR IS CLOSED CLEARANCE
AP	990005597	2AP75E-A1	REACTOR RECIRC PUMP SUCTION VALVE	SMB 2 / TROUBLESHOOT / REPAIR. VALVE STOPS IN OPEN DIRECTION
AP	990029884	2AP76E-C4	2E51-C003 RCIC WTR LEG PMP	COMPUTER POINT D092 IN ALARM (NO POWER) WHILE PUMP IS ON
AP	980101407	2AP78E-D4	RX PROT MG SET RM 1 BATT RM EXH FAN	BREAKER 2AP78E-D4 FAILED PMT IN TASK 01/ TROUBLESHOOT!
AP	990014367	2AP79E-7C	HI PRESS CORE SPRAY PUMP DISCH VALVE	REPAIR/REPLACE BREAKER HANDLE

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

AP	990021910	2AP80E-A3-F	DG 2A SPACE HEATER	CONTACTOR AND FUSE FOUND ___ BAD NEED TO REPLACE BOTH
AP	980133146	2AP80E-D5	MAIN STEAM LINE DRAIN ISOLATION VALVE	REPLACE TERM BLOCK
AP	990023747	2AP82E-F3	2A DG FUEL OIL TRANSFER PUMP	TROUBLESHOOT 2D001P @ MCC 236Y-1/F3 TRIPPING
AP	960097388	2AP83E-B3	SBLC STRG TNK OTLT VLV B	CLEAN CONTACTS / REPLACE DEFECTIVE 74 DEVICE FROM CUB.
B21	990025319	2B21-F013G-A	SRV G IMF-2 SOLENOID VALVE 'A'	REPLACE SRV PILOT SOLENOID VALVE
B21	990017219	2B21-F013N-A	SRV N IMF-2 SOLENOID VALVE 'A'	BAD CABLE WRAP TO THE SRV SOLENOID, REWRAP
B21	990019600	2B21-F019	VALVE, O/B MSL DRN VLV	PACKING LEAK NOTED DURING LLRT/REPAIR AS REQUIRED
B21	990026651	2B21-F022C	VALVE, I/B MSL ISOLATION	PAINT / TOUCH-UP EQUIPMENT AS NECESSARY
B21	990026867	2B21-F022C	VALVE, SOLENOID, I/B MSIV	THE #2 SOLENOID ON MSIV C IS LEAKING AIR ON THE INLET
B21	990026868	2B21-F022D	D MS INBD ISOL VLV	MISSING SCREW IN THE SOLENOID JUCTION BOX
B21	950042834	2B21-F032A	VALVE, FEEDWATER CHECK	ADJUST/REPACK VALVE, FAILED PMT, PIF:L1999-01559
B21	950042834	2B21-F032A	VALVE, FEEDWATER CHECK	PIF #L1999-01791 FAILED PMT - ADJUST PACKING
B21	950107712	2B21-F032A	SOLENOID VALVE	REPAIR LEAKS ON PIPING & REPLACE DEFECTIVE SOLENOID VALVE
B21	950107712	2B21-F032A	SOLENOID VALVE	FAILED PMT. REPAIR AIR LEAKS AND REPLACE SOLENOID VALVE(S).
B21	990019567	2B21-F032A	LIMIT SWITCH	REPLACE LIMIT SWITCH
B21	960092277	2B21-F032B	VALVE, FEEDWATER CHECK	PIF #L1999-01791 FAILED PMT - ADJUST PACKING
B21	960101253	2B21-F032B	SOLENOID VALVE	*2B21F032B * REPAIR LEAKS ON PIPING, FOUND BY OPERATIONS
B21	960101253	2B21-F032B	SOLENOID VALVE	FAILED PMT. REPAIR AIR LEAKS/REPLACE SOLENOID(S) AS REQUIRED
B21	990019567	2B21-F032B	LIMIT SWITCH	REPLACE LIMIT SWITCHES FOR 2B21-F032B W/EQ SWITCHES
B21	990025319	2B21-F036G	VALVE, NOSLAM CHECK	CHECK VALVE LEAKS BY. FOUND DURING LTS-500-19 ON 3/8/99.
B21	990025321	2B21-F036K	VALVE, NOSLAM CHECK	CHECK VALVE LEAKS BY. FOUND DURING LTS-500-19 ON 3/8/99.
B21	990025320	2B21-F036P	VALVE, NOSLAM CHECK	CHECK VALVE LEAKS BY. FOUND DURING LTS-500-19 ON 3/8/99.
B21	960079798	2B21-F065A	VALVE, FW ISOLATION	DISASSEMBLE/ASSEMBLE TO SUPPORT BONNET REPAIRS ON 2B21-F065A
B21	980098236	2B21-F065A	VALVE, FW ISOLATION	2B21-F065A HAS A PACKING LEAK.
B21	990023671	2B21-F365	VALVE, EX FLOW CHK	VALVE CHECKS BUT DOES NOT REOPEN ALL OF THE WAY
B21	960087621	2B21-F508A	RWCU RTN TO A FW LINE MAN STOP	RETORQUE PACKING TO STOP LEAK
B21	990029755	2B21-F529A	VALVE, CHECK	CHECK VALVE HAS EXCESSIVE SEAT LEAKAGE
B21	990029756	2B21-F529B	VALVE, CHECK	CHECK VALVE HAS EXCESSIVE SEAT LEAKAGE
B21	980128950	2B21-K100CX	RELAY, H13P609,	DURING LIS-MS-207A, THIS RELAY DIDN'T CYCLE EVERY TIME.
B21	990024638	2B21-N034A	JET PUMP 1 A FLOW XMITTER	REPLACE INSTRUMENTS AS NEEDED TO SUPPORT LIP-RR-604
B21	990034484	2B21-N051A	RX PRESS	INDICATION ON 2B21-R884A IS READING DOWNSCALE DURING
B21	970004077	2B21-N400A	REACTOR VESSEL LEVEL (ARI/RPT)	COMPUTER POINT C558 INDICATES "LOW" WHEN RX LEVEL IS HIGH.
B21	990016763	2B21-N413A	LPCS/RHR A INJ VLVS REACTOR PRESS INTLK	STOP VALVE PLUGGED/REPLACE STOP VALVE
B21	970108613	2B21-N707A	MASTER TRIP UNIT	GAGE SCALE IN UNIT 2 2B21-N707A IS DIFFERENT THAN UNIT 1
B21	970108614	2B21-N707B	REACTOR VESSEL WATER LEVEL 1	GAGE SCALE IN UNIT 2 2B21-N707B IS DIFFERENT THAN UNIT 1
B21	970108615	2B21-N707C	REACTOR VESSEL WATER LEVEL 1	GAGE SCALE IN UNIT 2 2B21-N707C IS DIFFERENT THAN UNIT 1

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

B21	970108616	2B21-N707D	REACTOR VESSEL WATER LEVEL 1	GAGE SCALE IN UNIT 2 2B21-N707D IS DIFFERENT THAN UNIT 1
B21	990022529	2B21-N709A	REACTOR VESSEL WATER LEVEL 8	INDICATES DOWNSCALE, SHOULD BE UPSCALE
B21	980114370	2B21-R004A	RX VESSEL PRESSURE	GAGE HAS EXCESSIVE DEAD BAND/REPLACE INDICATOR
B21	990018099	2B21-R510	PNL H22-P009 EXCESS FLOW ROTOMETER	FLOW INDICATOR, DOESN'T INDICATE FLOW AS REQUIRED
B21	960092806	2B21F010B	VALVE, TILTING DISC CHECK	CHECK VALVE FAILED LLRT / REPAIR AS NECESSARY
B21	960112574	2B21F032B	B FW INLT TESTABLE CK VLV	NO OPEN OR CLOSED INDICATION EXCEPT <85% OPEN LIGHT
B21	990017214	2B21H-K004C	RELAY, H13P609, MSL LO PRESS ISOL	REPLACE HFA RELAY 2B21H-K004C AT PANEL 2H13-P609
B21	980041302	2B21H-K066X10	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X10 2PA14J
B21	980041302	2B21H-K066X11	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X11 2PA14J
B21	980041302	2B21H-K066X12	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X12 2PA14J
B21	980041246	2B21H-K066X17	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X17 IN 2PA14J
B21	980041302	2B21H-K066X3	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X3 2PA14J
B21	980041302	2B21H-K066X4	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X4 IN 2PA14J
B21	980041302	2B21H-K066X5	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X5 2PA14J
B21	980041302	2B21H-K066X6	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X6 2PA14J
B21	980041302	2B21H-K066X7	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X7 2PA14J
B21	980041302	2B21H-K066X8	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X8 2PA14J
B21	980041302	2B21H-K066X9	RELAY, CONTROL	REPLACE RELAY 2B21H-K066X9 2PA14J
B21	960071880	2FT-B21N034G	JET PUMP 4 G FLOW XMITTER	INSTRUMENT STOP VALVE LEAKS BY REPLACE STOP VALVE
B21	960070526	2PS-B21N039V	RX PRESSURE INTLK FOR SRV 2B21-F013V	REPIPE INSTRUMENT VENT VALVE, VALVE IS POORLY POSITIONED
B21	960088431	2PT-B21N401B	REACTOR VESSEL LEVEL (ARI/RPT)	2B21-N401B FOUND STOP VLV LEAKING
B33	970019803	2B33-C001B	PUMP, RX RECIRC	REPLACE PUMP SEAL
B33	990004095	2B33-F060A	ASSY_-_VALVE, RR FLOW CONTROL	ACTUATOR IS LEAKING DURING OIL FLUSH, REPAIR
B33	980093622	2B33-F067A	VALVE, RR PUMP DISCHARGE	VALVE PACKING LEAK/ADJUST OR REPLACE PACKING
B33	950091721	2B33-F345A	DIV I OUTBOARD HPU ISOLATION VALVE, GLOBE	FAILED PMT ON TASK 01
B33	960095567	2B33F066A	2A RX RECIRC PMP FLOW CONT VLV BELOW SEAT DRN DWNST STOP VLV	DRAIN LINE IS PLUGGED, WOULD NOT DRAIN.
B33	960002673	2B33F307B	VALVE, EX FLOW CHK	CRWR LOST POSITION INDICATION._(2B33F307B EXCESS FLOW CHECK)
B33	960088435	2B33F315B	VALVE, EX FLOW CHK	VALVE DOES NOT RESET ON ITS OWN, CLEAN AND INSPECT
CM	990024549	2CM004	VLV 3/4 IN EXCESS FLOW CK	LOW PRESSURE EXCESS FLOW CHECK VALVE FAILED TO RESET
CM	990024050	2CM012	VLV 3/4 IN EXCESS FLOW CK	CHECK VALVE STICKS AND WILL NOT OPEN FULLY/ REBUILD
CM	950014546	2CM019B	DW HUMIDITY MONITOR "B" OTLT UPSTRM ISOL	EXCESSIVE LEAKAGE DURING LLRT LTS-100-31
CM	990009563	2CM019B	DW HUMIDITY MONITOR "B" OTLT UPSTRM ISOL	VALVE 2CM019B FAILED POSITION INDICATION TEST
CM	990026054	2CM020A	DW HUMIDITY MONITOR "A" OTLT DWNST ISOL	VALVE HAS NO POSITION INDICATION
CM	950014465	2CM020B	DW HUMIDITY MONITOR "B" OTLT DWNST ISOL	VALVE 2CM020B FAILED POSITION INDICATION TEST
CM	990026199	2CM025A	PNL 2PL76J SMPL OTLT STOP	VALVE LIMIT SWITCHES NEED ADJUSTMENT & CLOSED LAMP BLOWS
CM	990024551	2CM102	EXCESS FLOW CK VLV DW PRESS LVL	DURING TESTING VALVE FAILED TO REOPEN ALL OF THE WAY
CM	990026248	2HS-CM004	TRITIUM GRAB SAMPLE STATION INBD ISOL VLVS	HANDSWITCH (SBM) STICKING WHEN GOING TO THE OPEN POSITION

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

CM	990036182	2LI-CM030	S-POOL WTR LVL	FAILED CHANNEL CHECK PER LOS-RX-M1.RECALIBRATE.
CM	970136547	2PDS-CM094	POST LOCA A H2 SAMPLE D/P	REPLACE SOR SWITCH 2PDS-CM094
CM	970136547	2PDS-CM095	POST LOCA A O2 SAMPLE D/P	REPLACE SOR SWITCH 2PDS-CM095
CM	990016769	2PI-CM027	D/W PRESS NARROW RANGE	REPAIR/REPLACE METER
CM	990021985	2PT-CM032	S-POOL PRESS XMITTER	L128 COM. POINT INDICATES HRL, PRESSURE IS NORMAL CURRENTLY
CM	990036194	2PT-CM032	S-POOL PRESS XMITTER	INDICATES NEGATIVE PRESSURE
CM	990018110	2PT-CM055	S-POOL PRESS XMITTER	2PT-CM055 VENT CONNECTION THREADS ARE BAD.
CM	960068534	2TE-CM057M	SUPP POOL WTR SRV# F013M&K (AZ1M 149)	ERRATIC INDICATION
CM	990032277	2TE-CM057M	SUPP POOL WTR SRV# F013M&K (AZ1M 149)	2TE-CM057M,ELEMENT #2 READS 6 DEG LOW,W/ 10 DEG OF ADJACENT
CM	990011337	2TR-CM037B	DELETE, USE 2TR-CM037B, COMPONENT TYPE RP	CH.3 PEN DOES NOT MOVE SERVO BOARD
CM	980072678	2TR-CM038A	SUPP POOL WATER BULK TEMPERATURE	PEN READS DOWNSCALE AND REPLACE DIGITAL DISPLAY
C11	990024729	2C11-D001078	CONTROL UNIT CRD HYDRAULIC 30-11	NO 06 POSITION
C11	950050251	2C11-D001115	CONTROL UNIT CRD HYDRAULIC 58-43	THE ACCUMULATOR BALL CHECK LEAKED BY DURING LTS-1100-17
C11	990024743	2C11-D001127	CONTROL UNIT CRD HYDRAULIC 42-39	NO 06 POSITION
C11	990024735	2C11-D001136	CONTROL UNIT CRD HYDRAULIC 38-35	NO 06 POSITION
C11	990014803	2C11-D0219	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 02-19	LOST POSITION INDICATION
C11	990026172	2C11-D0219	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 02-19	INSTRUMENT BLOCK CHARGING CONNECTION LEAKING
C11	990018175	2C11-D0239-126	CRD HCU SCRAM INLET VALVE	PACKING LEAK, APPROXIMATELY 10 DROPS PER MINUTE
C11	990035348	2C11-D0627-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	THE DCV STICKS OPEN AFTER SIGNAL CAUSING DOUBLE NOTCHING
C11	990036599	2C11-D0627-123	CRD HCU INSERT DRIVE WATER DIRECTIONAL CONTROL VALVE	CONTROL ROD WAS WITHDRAWN TO POSITION 02 WITH NO PROBLEMS.
C11	990013468	2C11-D1035-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	120 DIRECTIONAL CONTROL VALVE IS LEAKING WATER
C11	990013467	2C11-D1415-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	THE COIL AND SHELL ARE NOT INSTALLED CORRECTLY
C11	990028590	2C11-D1855	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 18-55	2C11-D1855/ HCU WILL NOT HOLD N2 CHARGE.
C11	990026955	2C11-D2215-107	CRD HCU ACCUMULATOR WATER SIDE DRAIN VALVE	REPAIR SEAT LEAKAGE ON 2C11-D2215-107.
C11	970136092	2C11-D3003-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	WATER LEAKING FROM FITTING, REPAIR /REPLACE
C11	970136092	2C11-D3003-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	SOLENOID VALVE IS LEAKING AROUND CORE ASSEMBLY
C11	970134918	2C11-D3003-121	CRD HCU INSERT EXHAUST WATER DIRECTIONAL CONTROL VALVE	SOLENOID COVER IS INSTALLED UPSIDE DOWN
C11	990031613	2C11-D3035	CONTROL ROD DRIVE HYDRAULIC CONTROL UNIT 30-35	HCU WILL NOT HOLD N2 CHARGE, N2 LOW PRESSURE ALARMS
C11	990022194	2C11-D4647-126	CRD HCU SCRAM INLET VALVE	PACKING LEAK. 10 DROPS/MINUTE
C11	990001787	2C11-D4655-127	CRD HCU SCRAM OUTLET VALVE	PACKING LEAK
C11	990001786	2C11-D5447-127	CRD HCU SCRAM OUTLET VALVE	PACKING LEAK
C11	970134915	2C11-D5823-120	CRD HCU WITHDRAWAL EXHAUST WTR DIRECTIONAL CONTROL VALVE	LEAKING WATER FROM FITTING,REPAIR/REPLACE
C11	990022011	2C11-D5843-111	CRD HCU ACCUMULATOR INSTRUMENT BLOCK VALVE	CHARGING FITTING IS BAD AND WILL NOT SEAL TO CHARGING HOSE
C11	980062694	2C11-F380	VALVE, AIR SCRAM DISH VOL VENT	REMOVE UNAPPROVED ANTI-ROTATION DEVICE.
C11	970081532	2C11-F381	POS IND SWITCH	LIMIT SWITCH DID NOT PERFORM AS REQUIRED, NEEDS ADJUSTMENT
C11	970081532	2C11-F381	POS IND SWITCH	2C11-F381: FAILED PMT REPAIR/CORRECT LIMITS AS REQ'D

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

C11	980062695	2C11-F388	VALVE, AIR SCRAM DISCH VOL VENT	REMOVE UNAPPROVED ANTI-ROTATION DEVICE.
C11	980062696	2C11-F389	VALVE, AIR SCRAM DISCH VOL VENT	REMOVE UNAPPROVED ANTI-ROTATION DEVICE.
C11	990019210	2C11-F402A	ARI EXH TO SDV VENT VLV F388 (UP LADDER)	NO LIGHT INDICATION WHEN VALVE TAKEN TO OPEN POSITION
C11	990031612	2C11-N021	HCU 18-55 ACCUMULATOR PRESS SWITCH	HCU WILL NOT HOLD N2 CHARGE, N2 LOW PRESSURE ALARMS
C11	990018997	2C11-N319	HCU 42-43 ACCUMULATOR LIQUID LEVEL SWITCH	REPLACE LEVEL SWITCHES AS NEEDED TO SUPPORT LIP-RD-607
C11	990021889	2C11-N616A	CRD CHARGING WATER HEADER PRESSURE	TROUBLE SHOOT REASON WHY GROSS FAILURE WILL NOT FUNCTION
C11	990018997	2C11-R025	HCU 18-55 ACCUMULATOR PRESS INDICATOR	REPLACE PRESSURE GAGES AS NEEDED TO SUPPORT LIP-RD-607
C11	990023635	2C11-000	MISCELLANEOUS WORK REQUESTS	CONTINGENCY WR TO REPAIR FULL CORE HYDRO TESTING
C11	990026955	2C11-000	MISCELLANEOUS WORK REQUESTS	ADJUST PACKING ON VARIOUS MANUAL VALVES
C11	990026955	2C11-000	MISCELLANEOUS WORK REQUESTS	ADJUST PACKING ON INLET AND OUTLET SCRAM VALVES
C11	990011345	2C11A-Z005	FOUR ROD DISPLAY P603	UPPER RIGHT LENS IS CRACKED-REPAIR/REPLACE
C34	990025778	2C34-K624C	RX LVL C HI ALARM UNIT	UNABLE TO RESET RX WATER LVL HI C TRIP-LEVEL 8 TRIP
C41	970004730	2C41-D302	SIGHTGLASS, SBLC TANK LVL	SIGHTGLASS PIPING CONNECTIONS ARE LEAKING SODIUM PENTABORATE
C41	990008084	2C41-F004A	A SBLC INJECTION SQUIB VALVE	CONTINUITY UNEXPECTEDLY RESTORED FOLLOWING FIRING
C41	990008085	2C41-F004B	B SBLC INJECTION SQUIB VALVE	CONTINUITY UNEXPECTEDLY RESTORED FOLLOWING SQUIB FIRING
C41	990010142	2C41-F029A	A SBLC PUMP DSCH RELIEF VALVE	RELIEF LIFTED WITH PUMP AT NORMAL PRESSURE DURING LOS-SC-Q1
C41	970069823	2C41-M600A	STANDBY LIQUID CONT METER RELAY	A SQUIB VALVE CONT MONITOR METER RELAY MALFUNCTION SEE DET.
C41	990009725	2C41-M600A	STANDBY LIQUID CONT METER RELAY	NO CONTINUITY ALARM IS UP AND NO CONTINUITY LIGHT IS LIT
C51	990027305	2C51-J004D	ASSY - GUIDE TUBE VALVE, TIP BALL AND SHEAR VALVE	VALVE WILL NOT CYCLE WHEN ENERGIZED
C51	980027148	2C51-K601D	IRM CHANNEL D MONITOR	TRBLSHT SPIKING IRM CHANNEL
C51	990021559	2C51-K601G	IRM CHANNEL G MONITOR	CONNECTOR FELL OFF OF HV CABLE
C51	980010111	2C51-K605FM	LOCAL PWR RANGE MON DET 24-17 LEVEL B	DOWNSCALE LIGHT DOES NOT LIGHT
C51	990026937	2C51-K605FN	LOCAL PWR RANGE MON DET 24-17 LEVEL C	INTERMITTENT CONTACT BETWEEN LPRM CARD AND EDGE CONNECTOR
C51	990028946	2C51-K605FP	LOCAL PWR RANGE MON DET 24-17 LEVEL D	DOWNSCALE LAMPS ARE NOT LIGHTING.
C51	970069292	2C51-K605GJ	LOCAL PWR RANGE MON DET 48-09 LEVEL B	LPRM BECAME ERRATIC AND WENT UPSCALE
C51	980133032	2C51-K605GM	AVERAGE PWR RANGE MONITOR CHNL A	APRM A CIRCUIT BOARD Z31 HAS MISSING COMPONENT VR2
C51	990028948	2C51-K605GN	AVERAGE PWR RANGE MONITOR CHNL B	DOWNSCALE LAMPS ARE NOT LIGHTING.
C51	990030479	2C51-K605GN	AVERAGE PWR RANGE MONITOR CHNL B	RIGHT POWER SUPPLY FOR APRM B + 20 VDC NEED TO BE REPLACED
C51	990028950	2C51-K605GR	AVERAGE PWR RANGE MONITOR CHNL D	S6 RESET SWITCH IS GOING BAD.
C51	970078492	2C51-000	MISCELLANEOUS WORK REQUESTS	LPRM CABLE CLAMPS LOOSE IN 2H13-P608
C61	970063653	2C61-P001	ASSY_-_PANEL, REMOTE S/D INSTR	ALL 4 REAR DOORS DRAG ON BOTTOM, ADJUST
C61	990035822	2C61A-S007	SWITCH AT 2C61P001 RI INST TRANS	2C61-S7 RCIC INST XFER SW HAS DIRTY CONTACTS
C71	990022584	2C71-N005A	EHC OIL LINE PRESS	DURING CALIBRATION FOUND TUBING NOT EXTENDING PAST FERREL
C71	990007718	2C71-N006A	CONDUIT, ELECT SEAL ASSEMBLY	RESTORE SEAL ASSEMBLIES TO ORIGINAL DESIGN CONFIGURATION
C71	980132048	2C71-N006F	CONDUIT, ELECT SEAL ASSEMBLY	SKINNED CONDUCTOR AND BROKEN SEALTIGHT.
C71	980041258	2C71A-K004B1	RELAY, H13P611,	REPLACE RELAY 2C71A-K004B1 IN 2H13-P611

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

C71	980041254	2C71A-K004C1	RELAY, H13P609, MSL ISOL	REPLACE RELAY 2C71A-K004C1 IN 2H13-P609
C71	980020496	2C71A-K006A	RELAY, H13P609, RX VSSL LVL 3 SCRAM/ISOL	RELAY MAKING UNUSUAL NOISE
C71	980052565	2C71A-K016B	TIME DELAY RELAY	LOUD BUZZING NOISE
DC	960096176	2DC06E	2DC06E - 250 VDC MCC	REAR BUS BARRIER IS CRACKED AND NEEDS TO BE REPLACED
DC	990029728	2DC06E-4B	RCIC STM TO TURB VLV 2E51-F045	CONTACTS ON RELAY ARE STICKING CLOSED WHEN DE-ENERGIZED.
DC	990029660	2DC06E-4C	RCIC PMP SUCT. FROM COND STRG TNK 2E51-F010	CONTACTS ON THE 74 RELAY ARE STICKING CLOSED.
DC	990029727	2DC06E-5B	RCIC TEST BYP TO CNDSR STRG TNK VLV 2E51-F022	CONTACTS ON 74 RELAY STICKING CLOSED WHEN DE-ENERGIZED.
DC	990029883	2DC06E-7B	RCIC TURB EXH. TO SUP POOL 2E51-F068	74 RELAY STICKS INTERMITTENTLY-REPLACE 74 RELAY
DC	970028591	2DC11E	DIV I 125VDC DISTRIBUTION PANEL 211Y	SCREW MISSING/LOOSE ON PROT COVERS FOR CB-19/CB-23
DC	970033023	2DC11E	DIV I 125VDC DISTRIBUTION PANEL 211Y	SAFETY PANEL NOT COVERING BUS WORK IN DIST. CABINET 211Y
DC	980122818	2DC18E	ASSY_-_BATTERY,DIV 3 125V	REPLACE CELL #1 TAKEN FOR UNIT 1 DIV III BATTERY BANK
DC	990033686	2II-DC005	BATTERY CHARGER 2DC03E DC AMMETER	AMPS "ZERO" SHOULD INDICATE 2 OR 3 AMPS..REPLACE OR REPAIR.
DC	980032563	2II-DC052	AMMETER, 2PM01J CHARGER 1A 125VDC	INDICATES 40 AMPS WHILE LOCAL (2II-DC011) INDICATES 28 AMPS.
DC	980032564	2II-DC054	AMMETER, 2PM01J CHARGER 1B 125VDC DIV-2	INDICATES 39 AMPS WHILE LOCAL (2II-DC061) INDICATES 30 AMPS.
DG	960118449	2DG01K	PUMP, AC LUBE OIL CIRC (B7)	OIL LEAKING FROM THREADED DISCHARGE PIPE OF PUMP
DG	970031401	2DG01K	2A DIESEL GENERATOR	2A D/G EXP.TANK LOWER SIGHTGLASS STOP VLV. MISSING HANDWHEEL
DG	970046249	2DG01K	2A DIESEL GENERATOR	4160 VOLT BUS DUCT MISSING VENT SCREEN . DANGER HIGH VOLT
DG	980003911	2DG01K	2A DIESEL GENERATOR	CYLINDER TEST VALVE FOR CYLINDER #17 BINDS UPON REMOVAL
DG	990001397	2DG01K	ENGINE, DIESEL GENERATOR	GOVERNOR BOOSTER WAS OBSERVED LEAKING;REPLACE BOOSTER
DG	990001405	2DG01K	ENGINE, DIESEL GENERATOR	'2A' DG FAILED A-BANK START, TROUBLESHOOT PROBLEM
DG	990001406	2DG01K	2A DIESEL GENERATOR	CHANGE OUT AIR START SOLENOID VALVES
DG	990022556	2DG01K	ENGINE, DIESEL GENERATOR	ENGINE EXHAUST PYROMETER SENSOR SEALTITE CONNECTORS LOOSE
DG	980049276	2DG01P	MOTOR, DG A COOLING WTR PUMP	MOTOR WINDING SCREENS ARE FALLING APART.REPLACE.
DG	990008868	2DG024	NE CUBICLE AREA COOLER OTLT STOP	SUSPECT VALVE DISK SEPARATION (TESTING PER LTS 200-27)
DG	990002314	2DG038	2A DG COOLER OUTLET HI POINT VENT VALVE	VALVE HAD TO BE OPERATED USING A 12" PIPE WRENCH TO OPEN IT.
DG	990009207	2DG076	2A DG ENGINE LUBE OIL DRAIN VALVE	REPAIR OIL LEAK BETWEEN PIPE AND ELBOW ON DG OIL DRAIN PIPE
DG	990001403	2DG08KA	2A DG A STARTING AIR MOTOR	REPLACE "A" BANK AIR START MOTORS
DG	990017301	2DG086	2A DG LUBE OIL SOAK BACK AND CIRC PUMPS SUCT VALVE	VALVE LEAKS AT GASKET, APP. 1 DROP PER MINUTE WITH SYS. SD
DG	970031290	2HS-DGS036	2A DIESEL GENERATOR ENGINE MAINT. KEY LOCKOUT SW.	CONTROL SW. FACE PLATE IS CRACKED. OLD FACE PLATE IS
DG	970111164	2PDS-DG049	2A DG LUBE OIL FILTER RESTRICTED (S17)	SWITCH IS ACTIVATING ALARM WITH NO PRESSURE ON SYSTEM.
DO	980024529	2DO003	2A DG FUEL OIL XFR PMP DSCH STOP	BONNET LEAKS
DO	970086579	2DO01P	2A DG FUEL TRANSFER PUMP	REPLACE PUMP BEARINGS.
DO	970071225	2DO02P	2B DG FUEL TRANSFER PUMP	2DO02P HAS A SMALL SEAL PACKING LEAK. LEAKS TO PMP LEAK SUMP
DO	970071224	2DO02T	2B DG FUEL STORAGE TANK	2DO02T MANWAY LEAK IDENTIFIED ON AT TAG 277519 DRIPS T FLOOR

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

DO	910042505	2DO024	ASSY_-_VALVE, GLOBE	OPEN INDICATION DOES NOT LIGHT; CLOSED INDICATION STAYS LIT
DO	980044041	2DO03P	DIESEL FIRE PUMP FUEL TRANSFER PUMP	2DO03P SUCTION STRAINER BLOWDOWN LINE IS LEAKING #2 FO T FLR
DO	990011489	2DO04T	2B DG DAY TANK	THE GASKET IS LEAKING. THE LEAKAGE IS MONITORED, BUT WE WILL
D18	990001402	2D18-K751A	CONTROL ROOM HVAC AIR INTAKE	CRWR DETECTOR FAILED DOWNSCALE
D18	990003566	2D18-K751A	CONTROL ROOM HVAC AIR INTAKE	FAILED DOWNSCALE AND TRIPPED OUT OF OPERATE 3 TIMES
D18	980123597	2D18-K751B	CONTROL ROOM HVAC AIR INTAKE	2D18-K751B FAILED DOWNSCALE
D18	990008230	2D18-K751B	CONTROL ROOM HVAC AIR INTAKE	FAILED DOWNSCALE
D18	990029659	2D18-K751C	CONTROL ROOM HVAC AIR INTAKE	FAILED DOWNSCALE
D18	990017773	2D18-N009D	REACTOR BLDG VENT DETECTOR	SCREW MISSING FROM DETECTOR HOUSING, REPLACE SCREW
E12	980096273	2E12-C002A	MOTOR, RHR PP	REPLACE MISSING MOTOR AIR DISCHARGE SCREEN
E12	970031291	2E12-C300C	SWITCH, 236X 303-A LOCAL TRANSFER	CONTROL SW. FACE PLATE IS CRACKED. REPLACE FACE PLATE
E12	980126269	2E12-D300B	B RHR SERVICE WATER STRAINER	REPAIR / COAT INTERIOR SURFACES OF STRAINER AS NECESSARY
E12	940059014	2E12-F027B	VALVE, RHR P/C SPRAY	REPACK 2E12-F027B
E12	990018506	2E12-F050A	VALVE, RHR TESTABLE NOSLAM CHECK	CONTINGENCY TO REMOVE/REINSTALL INTERFERENCES
E12	980098214	2E12-F090A	A RHR S/D COOLING DSCH HDR STOP - 150'	PACKING LEAK
E12	980098215	2E12-F092B	B RHR LPCI INJECTION LINE MAN STOP - 330'	2E12-F092B HAS A PACKING LEAK
E12	980098215	2E12-F092B	B RHR LPCI INJECTION LINE MAN STOP - 330'	DISASSEMBLE AND REPAIR THE BEVEL GEAR OPERATOR
E12	990018731	2E12-F099A	VALVE, RHR TEST CHECK BYP VLV	REPAIR VALVE #2E12-F099A
E12	990022618	2E12-F311B	VALVE, RHR HX SHL/SD RELIEF	RELIEF VALVE CAP WEEPING AT GASKET DURING VT-2 EXAM.
E12	990006660	2E12-F328B	B RHR HEAT EXCH OTLT PROCESS RAD.MONITOR INLT STOP	VALVE BINDING. CAN NOT VERIFY VALVE POSITION
E12	980091814	2E12-F337C	C RHR PMP SEAL COOLER INLT DRN VLV	MISSING ONE GLAND NUT/CHECK PACKING
E12	980091856	2E12-F338B	B RHR PMP SEAL COOLER OTLT DRN VLV	MISSING ONE GLAND NUT/CHECK PACKING
E12	980091813	2E12-F338C	C RHR PMP SEAL COOLER OTLT DRN VLV	MISSING ONE GLAND NUT/CHECK PACKING
E12	970044746	2E12-N010AB	RHR FLOW 2A PRESS DIFF	INSTRUMENT HAS LOOSE CONDUIT FITTING/TIGHTEN L2R07
E12	990020008	2E12-N010CB	RHR FLOW 2C PRESS DIFF	SWITCH HAS A DIAPHRAM LEAK OR THE EQUALIZER IS LEAKING BY
E12	990018177	2E12-N413A	RHR A INJECTION VLV REACTOR PRESS INTLK	STOP VALVE HAS EXTERNAL LEAKAGE
E12	990020972	2E12-N413A	RHR A INJECTION VLV REACTOR PRESS INTLK	AFTER CONSOLIDATION PACKING STILL LEAKS
E21	980126978	2E21-C001	LPCS PUMP MOTOR COOLER	LOCATE & REPAIR OIL LEAK @ LPCS PUMP MOTOR COOLER 2E21-C001
E21	990012101	2E21-F005	ACTUATOR, LPCS INJECTION VLV	STEMNUT LOCKNUT ROTATED SLIGHTLY OFF STAKEMARKS
E21	990027084	2E21-F012	LPCS PMP FULL FLOW TEST VLV	VALVE DID NOT RESPOND AS EXPECTED DURING RESPONSE TIME TEST
E21	990013380	2E21-F018	VALVE, LPCS PP DISCH TO S-POOL RELIEF	SAFETY WIRE IS MISSING FROM VALVE.
E21	980109232	2E21-F051	LIMIT SWITCH	VALVE INDICATES DUAL WHEN CLOSED
E21	990011545	2E21-N009	LPCS PP DISCH PRESS	SWITCH FAILED TO RESET WHILE PERFORMING LIS-LP-204
E22	970101958	2E22-C001	MOTOR, HPCS PUMP	BOLT MISSING FROM LOWER S/W MOTOR VENT ASSEMBLY, FIX!
E22	980085029	2E22-C001	MOTOR, HPCS PUMP	MOTOR INSTRUMENT BOX LOOSE/TIGHTEN

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

E22	980014022	2E22-C002	HPCS DIESEL COOL WATER PUMP	REMOVE STRUT & CONTINGENCY TO REMOVE/REINST WELD TO ALIGN PP
E22	980014022	2E22-C002	HPCS DIESEL COOL WATER PUMP	PUMP FAILED TEST/REALIGN AS NECESSARY
E22	990017236	2E22-C002	HPCS DIESEL COOL WATER PUMP	DISASSEMBLE/ REMOVE/ SHIP TO UNION PUMP FOR REPAIRS.
E22	970106677	2E22-F024	HPCS PUMP DSCH CHECK VALVE	2E22-F024/ FAILED PMT/ REWORK
E22	990022655	2E22-F341	SUP POOL LEVEL SW 2E22-N002A/B UPPER LEG EXCESS CHECK VALVE	VALVE CHECKS BUT DOES NOT REOPEN ALL OF THE WAY
E22	990022656	2E22-F342	SUP POOL LEVEL SW 2E22-N002A/B LOWER LEG EXCESS CHECK VALVE	VALVE CHECKS BUT DOES NOT REOPEN ALL OF THE WAY
E22	990013970	2E22-P301B	2B DG AUXILIARY CONTROL PANEL	AGASTAT RELAY HAS CROSS THREADED SCREW
E22	970019440	2E22-R549	125 VOLT BATTERY CHARGER 2C (2DC19E) AMP	REPLACE DC AMMETER ON DIV 3 BATT CHARGER
E22	970019440	2E22-R550	125 VOLT BATTERY CHARGER 2C (2DC19E) VOL	REPLACE DC VOLTMETER ON DIV 3 BATT CHARGER
E22	980032577	2E22-S001	ENGINE, HPCS DG	INSTALL THE BOTTOM 2 MOUNTING BOLTS IN ENGINE JUNCTION BOX
E22	980111175	2E22-S001	2B DIESEL GENERATOR	FUEL OIL LEAK (1 DPM)
E22	990016363	2E22B-S027	HPCS DG VOLTAGE REG RAISE/LOWER	TROUBLESHOOT ERRATIC INDICATION OF VAR METER
E31	990032292	2E31-N007AA	RHR/RCIC STM SUPPLY HI FLOW DETECTION	POSSIBLE DIAPHRAM FAILURE
E31	980121556	2E31-N008A	MS LINE A HI FLOW DETECTION	NEED TO IDENTIFY SCOPE FOR IMD
E31	980090378	2E31-N012AA	RHR WTR SUPPLY HI FLOW DETECTION	BLEEDER SCREW IS LEAKING.REMOVE AND SEAL WITH PIPE SEALANT
E31	990032970	2E31-R620	RWCU DIFF FLOW	GE-180 IS NOT REPEATABLE REPLACE FOUND DURING RT201
E51	980089655	2E51-F028	VLV 1-1/4 IN CK	CLEAN,FLUSH, & INSPECT PER LAP-300-30.
E51	980128207	2E51-F063	VALVE, RI STM LNNE I/B ISOL	DISASSEMBLE, INSPECT, REPAIR AND REASSEMBLE VALVE.
E51	980092161	2E51-F064	ACTUATOR, RHR HX O/B ISOL VLV	STEM PROTECTOR MISSING
E51	990028147	2E51-F065	VALVE, AIR RI TESTABLE CHK VLV	CAM WHICH ACTUATES POSITION INDICATION SWITCH IS LOOSE
E51	960092759	2E51-F066	VALVE, NOSLAM CHECK	WILL NOT GIVE FULL CLOSED INDICATION, 2E51-F066
E51	950079883	2E51-F086	VALVE, RI VAC BRKR ISOL VLV	REPACK, REPAIR VALVE
E51	990035596	2E51-F086	ACTUATOR, RI VAC BRKR ISOL VLV	00 / TROUBLESHOOT AND REPAIR PER LAP-1300-1T2
E51	960092552	2E51-F329	RCIC WTR LEG PMP RECIRC STOP	LEAKS BY
E51	990036274	2E51-N010LS	LEVEL SWITCH / ADDED PER DCP 9400312 DCN 000398E00	LEVEL SWITCH DID NOT PICK UP TO OPEN 2E51-F054
E51	990029780	2E51A-S026	RCIC TURB TRIP AND THROTTLE VLV	C/S DOES NOT RETURN TO NORMAL AFTER RELEASING. STICKS.
E51	960038217	2E51F005	RCIC BARO CNDSR COND PMP DSCH TO RBEDT DWNST STOP	REPAIR ACTUATOR/VALVE, POTENTIAL SEAT LEAKAGE
FC	970111871	2FC03PA	MOTOR, FUEL POOL EMERG M/U PUMP	MOTOR VENT SCREEN IS DAMAGED.REPLACE
F21	950101209	2F21-E003	BRIDGE, REFUEL	MAIN HOIST CABLE REQ REPLACEMENT
G33	990027882	2G33-C001A	MOTOR, RWCU RECIRC PUMP	PUMP FAILED TO START, BREAKER TRIPPED WITHIN 0.05 SECONDS
HG	980021329	2HG005A	VALVE, GLOBE	IMPROPER THREAD ENGAGEMENT ON 2 BODY TO BONNET BOLTS
HG	980054080	2HG005A	VALVE, GLOBE	OUTER RING OF PACKING IS PARTWAY OUT FROM UNDER THE FOLLOWER
HT	990026009	2TS-HT012A	H2/02 MON HT TEMP CONT. DIV. 2	ERRATIC OPERATION WILL NOT READ TEMPERATURE
H13	980113311	2H13-P602	ASSY_- PANEL, RWCU/RX RECIRC CONTROL	LIGHT DOES NOT ILLUMINATE WHEN REQUIRED
H13	970074489	2H13-P608	ASSY_- CABINET, POWER RANGE NEUTRON MONITOR	MISSING VARIOUS HARDWARE, THIS AR FOR ALL APRMS,LPRMS,RBMS
H13	990003286	2H13-P631	ASSY_- PANEL, AUTOMATIC DEPRESSION SYST B RELAY	BLOWING BULBS DS13B AND DS14B AT PANEL 2H13-P631

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

H13	980092044	2H13-P636	ASSY_-_CABINET, DIV-2 RAD MONITOR	WIRE AT DD-2 NOT FULLY INSERTED IN LUG BARREL & LUG IS LOOSE
H22	980097169	2H22-P026	ASSY_-_PANEL, D RX LEVEL/PRESSURE LOCAL	MULTIPLE LOOSE CABLES/CONDUITS AT JBOXES AND IND UNITS
H22	970044750	2H22-P029	ASSY_-_PANEL, B RI LOCAL INSTR	REPLACE MISSING JUNCTION BOX COVERS ON BACK OF RACK.
H22	980097167	2H22-P075	ASSY_-_PANEL, LLS/SRV DIV-2 INSTR RACK	MULTIPLE LOOSE CABLES/CONDUITS ON PS AT PANEL
H22	980097168	2H22-P076	ASSY_-_PANEL, LLS/SRV DIV-2 INSTR RACK	MULTIPLE LOOSE CABLES/CONDUITS ON PS AT PANEL
MS	990024067	2MS00-2026S	2MS10RA-00.75-SUBSYS- 2MSD2: RIGID RESTRAINT	SNUBBER PIN IS MISSING WASHER EXCESSIVE GAP
NB	990024078	2NB12-2001C	SUBSYS- 2NBA3: CONSTANT	CONDENSING POT TENSIONER ROD BENT.
NB	950115308	2NB15A	PIPE, RX LVL REFERENCE LEG	MALE TONGUE ON TONGUE AND GROOVE FLANGE DAMAGED/REPLACE
PC	990031974	2PC000	MISCELLANEOUS WORK REQUESTS	TENDON V 229B LEAKS GREASE
PC	990028525	2PC001B-ZS	P/C VAC BREAKER VLV POS IND SWITCH	NO OPEN OR DUAL INDICATION FOR DIV ONE
PC	950092068	2PC002C	VAC BKR 2PC001C DW ISOL STOP	REBUILD VALVE
PL	960062476	2PL77J	ASSY_-_PANEL, B P/C HYDROGEN/OXYGEN MONITORING	PIF96-1725/OP EVAL DETERMINED THAT PUMP SHOULD BE REPLACED
PL	970137551	2PL77J	ASSY_-_PANEL, B P/C HYDROGEN/OXYGEN MONITORING	REPLACE SOR SWITCHES INSTALLED IN 2PL77J
RE	970063676	2LTS-RE046	SW RX BLDG SUMP 2RE04 DIVERSE LEVEL	PEGGED LOW DOES NOT INDICATE PROPER LEVEL
RH	950079735	2RHA6-2801X	2RHA6A-14.00-SUBSYS- 2RH24: RIGID SEISMIC RESTRAINT	REALIGN SPHERICAL BEARINGS ON STRUTS
RH	990034591	2RH04-2869C	2RH04B-20.00-SUBSYS- 2RH01: CONSTANT	REMOVE TRAVEL STOPS PER PIF #L1999-01786.
RH	990015389	2RH90-2001X	2RH90AA-04.00-SUBSYS- 2CS15: RIGID SEISMIC RESTRAINT	REPLACE MISSING NUT ON SUPPORT 2RH90-2001X PIF INITIATED
RR	990033181	2RRC3-2003X	2RR08EA-00.75-SUBSYS- 2RRC3: RIGID SEISMIC RESTRAINT	1/2" SS PIPE CLAMP MISSING FASTENER ON OUTSIDE OF CLAMPSHELL
RR	990024065	2RR00-2008S	2RR02AA-24.00-SUBSYS- 2RH01: SNUBBER	PULL PIN ON SNUBBER AND THREAD IN EXTENTION TUBE
RR	990013002	2RR17-2998S	2RR17AB-01.50-SUBSYS- 2RR01: SNUBBER	THE AUXILLARY TUBE STEEL FOR THIS SUPPORT HAS A LOOSE BOLT.
RT	990024068	2RT01-2873S	2RT01AB-04.00-SUBSYS- 2RR01: SNUBBER	LOAD PIN IS MISSING A WASHER
VC	980102414	2VC000	MISCELLANEOUS WORK REQUESTS	REPLACE "B" VC DUCT INSULATION.
VD	970001434	2TCU-VD008	DG01K ROOM DMPR 09YA/YB, 10YA/YB	TEMPERATURE CONTROL UNIT READING INCORRECTLY, CAUSING
VD	970052643	2TCU-VD013	DG01K ROOM DMPR 2VD17Y/18Y	VERIFY THAT A 1/10 AMP FUSE IS IN THE CONTROLLER
VQ	990017593	2VQ026	VALVE, S-POOL VNT/PRG FROM RX	EXCESSIVE SEAT LEAKAGE DURING LLRT, REPAIR AS REQUIRED.
VQ	990022750	2VQ029	VALVE, DW VNT/PRG FROM RX VLV	CLEAN SEAT AND LAMINATED SEAL WITH SCOTCHBRITE
VQ	950048630	2VQ030	VALVE, DW VNT/PRG FROM RX	REBUILD VALVE ACTUATOR
VQ	950048630	2VQ030	VALVE, DW VNT/PRG FROM RX	REWORK ACTUATOR SUPPORT TO ALLEVIATE BINDING/MISS ALIGNMENT
VQ	990017700	2VQ030	SOLENOID, DW VNT/PRG FROM RX VLV	AIR CONTINUOUSLY LEAKING FROM EXHAUST PORT OF SOLENOID
VQ	950048631	2VQ031	ACTUATOR, S-POOL VNT/PRG OUTLET VLV	INSTRUMENT AIR LINES WERE DAMAGED DURING REMOVAL REPLACE
VQ	990024554	2VQ061	VALVE, EX FLOW CHK, VQ N2 TO DW	DURING TESTING VALVE FAILED TO REOPEN ALL OF THE WAY
VT	990006202	2VT000	MISCELLANEOUS WORK REQUESTS; SAFETY RELATED PACKAGE REQUIRED	STIFFENER BROKE INSIDE ZONE 1 DUCT UPSTRM 2VT04YA DAMPER
VT	990006202	2VT000	MISCELLANEOUS WORK REQUESTS; SAFETY RELATED PACKAGE REQUIRED	STIFFENER IN ZONE 1 DUCT IS BROKEN AND OTHER WELDS ARE CRACK
VT	990026862	2VT79YA	DAMPER, VT ISOL CHECK	SOLENOID VALVE LEAKS/REPAIR
VT	990026866	2VT79YA	DAMPER, VT ISOL CHECK	DAMPER SHOWS DUEL INDICATION WITH DAMPER CLOSED/REPAIR

APPENDIX B
II.A SAFETY-RELATED MAINTENANCE COMPLETED – UNIT 2
REFUELING OUTAGE L2R07

VT	990026863	2VT79YB	DAMPER, VT ISOL CHECK	SOLENOID VALVE LEAKS/REPAIR
VT	990026864	2VT79YC	DAMPER, VT ISOL CHECK	SOLENOID VALVE LEAKS/REPAIR
VX	980067045	2FZ-VX028	SWGR HT REMOVAL SYS MIXED AIR TEMP CONT	UPGRADE EXISTING ACTUATOR FROM 1000 LB TO 1500 LB UNIT
VX	980067045	2FZ-VX028	SWGR HT REMOVAL SYS MIXED AIR TEMP CONT	REPAIR/REPLACE SEALTITE FOR ACTUATOR '2FZ-VX028'
VX	980129738	2PDS-VX044	SWGR DIV-2 BATT ROOM 05C D/P	ALARM UP FOR "LOW D/P ON EXHAUST FAN" FOR DIV 2 BATT. ROOM.
VX	990024864	2PDS-VX046	SWGR BATT ROOM M6 SET FAN 08C D/P	ALARMS WITH FAN RUNNING. TROUBLESHOOT AND REPAIR
VX	990020133	2TZ-VX009A	SWGR HT REMVL DIV 1 AREA RET AIR TEMP	DAMPER IS LEAKING OIL AND DOES NOT SOUND RIGHT
VY	960082610	2VY01A	ASSY_-_COIL, EQUIP COOL	2VY01A\COOLER DP IS HIGH, NEEDS TO BE CHEMICALLY CLEANED
VY	960082613	2VY04A	ASSY_-_COIL, EQUIP COOL	2VY04A\COOLER DP IS HIGH, NEEDS TO BE CHEMICALLY CLEANED
WR	970084496	2WR225	VALVE	2WR225/ FAILED PMT/ REWORK

APPENDIX C

LASALLE STATION RADIATION EXPOSURE

APPENDIX C II.C LASALLE STATION RADIATION EXPOSURE

NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 1999

--NUMBER OF PERSONNEL (> 100 MR)--

---QUANTITY OF PERSON-REM---

	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS	TOTAL PERSONS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS	TOTAL PERSON REM
<u>REACTOR OPERATIONS AND SURVEILLANCE</u>								
MAINTENANCE	173	31	122		6.844	2.948	3.931	
OPERATIONS	62	0	0		9.024	0.000	0.000	
HEALTH PHYSICS	53	0	4		2.998	0.000	0.014	
SUPERVISORY	38	0	23		2.601	0.000	2.466	
ENGINEERING	20	0	1		1.567	0.000	0.114	
	346	31	150	527	23.034	2.948	6.525	32.507
<u>ROUTINE MAINTENANCE</u>								
MAINTENANCE	190	64	749		110.903	13.433	205.754	
OPERATIONS	76	0	2		22.922	0.000	0.022	
HEALTH PHYSICS	58	0	51		20.800	0.000	17.091	
SUPERVISORY	55	0	47		14.479	0.000	9.910	
ENGINEERING	26	0	55		3.685	0.000	13.137	
	405	64	904	1373	172.789	13.433	245.914	432.136
<u>INSERVICE INSPECTION</u>								
MAINTENANCE	140	9	223		0.934	0.149	15.448	
OPERATIONS	4	0	0		0.045	0.000	0.000	
HEALTH PHYSICS	3	0	4		0.008	0.000	0.899	
SUPERVISORY	31	0	24		0.491	0.000	1.055	
ENGINEERING	24	0	28		0.850	0.000	5.825	
	202	9	279	490	2.328	0.149	23.227	25.704
<u>SPECIAL MAINTENANCE</u>								
MAINTENANCE	3	2	72		0.068	0.087	6.197	
OPERATIONS	0	0	0		0.000	0.000	0.000	
HEALTH PHYSICS	0	0	5		0.000	0.000	0.351	
SUPERVISORY	2	0	4		0.002	0.000	0.115	
ENGINEERING	0	0	5		0.000	0.000	0.411	
	5	2	86	93	0.070	0.087	7.074	7.231
<u>WASTE PROCESSING</u>								
MAINTENANCE	10	1	37		0.024	0.000	1.430	
OPERATIONS	48	0	5		0.630	0.000	4.058	
HEALTH PHYSICS	28	0	0		0.339	0.000	0.000	
SUPERVISORY	3	0	0		0.018	0.000	0.000	
ENGINEERING	0	0	0		0.000	0.000	0.000	
	89	1	42	132	1.011	0.000	5.488	6.499
<u>REFUELING</u>								
MAINTENANCE	42	13	271		0.456	0.611	19.302	
OPERATIONS	9	0	0		1.185	0.000	0.000	
HEALTH PHYSICS	17	0	6		1.456	0.000	0.281	
SUPERVISORY	19	0	6		1.002	0.000	0.071	
ENGINEERING	1	0	19		0.015	0.000	2.647	
	88	13	302	403	4.114	0.611	22.301	27.026
<u>TOTAL BY JOB FUNCTION</u>								
MAINTENANCE	190	62	748	1000	119.229	17.228	252.062	388.519
OPERATIONS	72	0	5	77	33.806	0.000	4.080	37.886
HEALTH PHYSICS	56	0	50	106	25.601	0.000	18.636	44.237
SUPERVISORY	52	0	45	97	18.593	0.000	13.617	32.210
ENGINEERING	25	0	57	82	6.117	0.000	22.134	28.251
*****GRAND TOTAL*****	395	62	905	1362	203.346	17.228	310.529	531.103