

1-2

REFER/RELEASE

LOGDATE ENTRY
6/14/2004 12:10:47 AM Placed cwnt-a in service. Isolated cwnt-b for sampling.
Performed: 40OP-9CM01 Section 4.0
OPERATING THE CHEMICAL WASTE SYSTEM
6/14/2004 12:45:00 AM Exited Chemistry Action Level #1 on High Sulfates in Steam Generators
#1 and 2. Readings are <10 ppb by Chemistry sample.
6/14/2004 12:55:00 AM Stopped 0.5 hypo to A SP; also verified all hypo secured to A SP.
Completed: 40OP-9SP03 Section 8.3 (12hr hypo add)
SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN A
6/14/2004 12:55:30 AM Stopped 0.5 hypo to B SP; also verified all hypo secured to B SP.
Completed: 40OP-9SP04 Section 8.3 (12hr hypo add)
SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN B
6/14/2004 2:37:55 AM Transferred cwnt-b to retention basin. Authorized at 0227.
Performed: 40OP-9CM01 Section 5.0
OPERATING THE CHEMICAL WASTE SYSTEM
6/14/2004 2:50:38 AM RCS Dilution
Diluted the RCS 21.5 gallons
to the CH pump suction for temperature and ASI control.
Iaw 40OP-9CH01 Section 7
6/14/2004 3:52:16 AM Delithiation
Performed a 30 minute delithiation of RCS per 40op-9CH02 sec
4.4
6/14/2004 4:14:42 AM Commenced fill of the RMWT with demin water via valve CHN-V770.
Starting level is 33.3 ft.
6/14/2004 4:24:00 AM Isolated hydrogen hi & lo pressure switches for maintenance. Permit
#104018.
Started: 40TD-9GA01 Section 24 Hydrogen Permit #104018
SERVICE GASES - NITROGEN AND HYDROGEN
6/14/2004 5:26:55 AM Secured release lineup on cwnt-b.
Performed: 40OP-9CM01 Section 5.5
OPERATING THE CHEMICAL WASTE SYSTEM
6/14/2004 6:07:10 AM JSCALOR Average Power Readings
Time JSCALORH 12 Hour Avg.
0600 99.94 99.98
0700 99.97 99.98

6/14/2004 6:30:00 AM SHIFT CREW: Unit 2 - Crew C
SM*: Dave Burns
CRS*: Robert Carbonneau
RO*: Lou Berberich
CO*: Roger Miller
FTA*: Chuck Pryor
Area 1: Walt Parker
Area 2: John Russo
Area 3: Armando Salgado
Area 4: Rich Mason
RW: Leo Bond

A114

DEMIN: Bobby Castillo
STA: Jim Moreland
NRC Comm:
Shift Tech: Lori Webb
STSC Comm: Lori Webb
E-Plan AO:
Chemistry: Bert Engstrom
Effluent: Paul Rein
RP Tech: Harvey Bowman

* Turnover Checklist have been completed by all Control Room Staff

6/14/2004 7:41:00 AM Reactor Trip due to grid disturbance and subsequent loss of Off Site Power. CRDR 2715709.

6/14/2004 7:50:56 AM Completed Standard Post Trip Actions. Diagnosed Loss of Offsite Power/Loss of Forced Circulation. B Diesel Generator has started and is suppling the B ESF Bus. A Diesel Generator started and it's output breaker closed, however no output voltage was evident on the bus and the A Diesel was emergency stopped. Entered 40EP-9EO07 "Loss of Offsite Power/ Loss of Forced Circulation" Emergency Operating Procedure.

6/14/2004 7:51:10 AM Manually initiated a MSIS.
Performed: 40EP-9EO07 Section step 6
LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION

6/14/2004 7:54:50 AM Declared E-Plan Classiification EAL of Alert based on PVNGS emergency status code 2-3 for Loss of All Offsite Power to Essential Busses for Greater than 15 Minutes and one 4.16 KV bus is powered from a single offsite power source. There are no protective actions required at this time.

6/14/2004 9:00:57 AM Energized NAN-S05 and NAN-S03.

6/14/2004 9:06:12 AM Main generator H2 vented and depressurized due to loss of seal oil system.
Performed: 40EP-9EO10 Section 62
STANDARD APPENDICES

6/14/2004 9:27:36 AM Energized PBA-S03.

6/14/2004 9:40:00 AM Restored S/U channel # 1 to service.

6/14/2004 9:51:17 AM E-Plan Classiification EAL of Alert was exited.

6/14/2004 10:00:47 AM Energized NAN-S01
Performed: 40EP-9EO10 Section Appendix 75
STANDARD APPENDICES

6/14/2004 10:02:43 AM Started the A Plant Cooling Water.
Performed: 40EP-9EO07 Section 3
LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION

6/14/2004 10:24:00 AM Energized NAN-S02
Performed: 40EP-9EO10 Section Appendix 76
STANDARD APPENDICES

6/14/2004 10:26:20 AM Started the A Nuclear Cooling Water Pump.
Performed: 40EP-9EO07 Section 3
LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION

6/14/2004 11:02:00 AM Restored letdown, Pressurizer level control in manual, "B" Charging Pump running.
Performed: 40EP-9EO10 Section Appendix 12
STANDARD APPENDICES

6/14/2004 11:15:51 AM Started A and B normal chillers.
Performed: 40OP-9WC01 Section 4
NORMAL CHILLED WATER SYSTEM (WC)

6/14/2004 11:32:20 AM Started the A Charging Pump to return to 2 pump operation.

Performed: 40EP-9EO10 Section Appendix 12
 STANDARD APPENDICES
 6/14/2004 11:58:52 AM Restored Seal Bleed Off to all 4 RCP's
 Performed: 40EP-9EO07 Section 3
 LOSS OF OFFSITE POWER/LOSS OF FORCED
 CIRCULATION
 6/14/2004 12:23:22 PM Started both trains of Fuel Building Normal Ventilation.
 Performed: 40EP-9EO07 Section 3
 LOSS OF OFFSITE POWER/LOSS OF FORCED
 CIRCULATION
 6/14/2004 1:14:07 PM Pressurizer level control, and letdown backpressure returned to auto.
 Performed: 40EP-9EO10 Section Appendix 12
 STANDARD APPENDICES
 6/14/2004 2:17:00 PM A spray pond filter pump was found by the area operator to be running
 with no discharge pressure and was secured.
 Performed: 40OP-9SP05 Section 10
 ESSENTIAL SPRAY POND FILTER OPERATIONS TRAIN A
 6/14/2004 2:40:01 PM Started 0.25 GPM hypochlorite addition IAW CCI 04-198.
 Started: 40OP-9SP03 Section 8
 SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN A
 6/14/2004 2:40:45 PM Started 0.25 GPM hypochlorite addition IAW CCI 04-198.
 Started: 40OP-9SP04 Section 8
 SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN B
 6/14/2004 3:25:18 PM Removed pyrolysate collector and core monitor from service (as directed
 by 40OP-9ZZ10 sect. 6)
 Performed: 40OP-9GH01 Section 10
 GENERATOR HYDROGEN
 6/14/2004 3:36:52 PM Started HAN-J01B and HAN-A01B.
 Performed: 40OP-9HA01 Section 4.3
 AUXILIARY BUILDING HVAC (HA)
 6/14/2004 4:10:01 PM Secured 0.25 GPM hypochlorite addition.
 Completed: 40OP-9SP03 Section 8
 SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN A
 6/14/2004 4:10:45 PM Secured 0.25 GPM hypochlorite addition.
 Completed: 40OP-9SP04 Section 8
 SPRAY POND CHEMICAL ADDITION SYSTEM TRAIN B
 6/14/2004 4:12:58 PM Isolated TC to main generator H2 coolers.
 Performed: 40OP-9ZZ10 Section 6.0
 MODE 3 TO MODE 5 OPERATIONS
 6/14/2004 4:18:07 PM The Engineering and Mechanical Maintenance review of E charging pump
 is complete and the pump has been filled and vented and is available for
 service. Pump-trip-review revealed inadequate valve line-up (low suction
 pressure trip). Pump operation will continue to be periodically monitored
 by maintenance over the next 48 hours.
 6/14/2004 5:14:22 PM Started E charging pump to support upcoming RCP starts.
 Performed: 40OP-9CH01 Section 4
 CVCS NORMAL OPERATIONS
 6/14/2004 5:16:42 PM Started 1 A RCP.
 Performed: 40EP-9EO10 Section 1
 STANDARD APPENDICES
 6/14/2004 5:17:03 PM Stopped E charging pump.
 Performed: 40OP-9CH01 Section 4
 CVCS NORMAL OPERATIONS
 6/14/2004 5:22:17 PM Started 2A RCP.
 Performed: 40EP-9EO10 Section 1
 STANDARD APPENDICES

6/14/2004 6:00:00 PM Assumed the area with plant in mode 3 in natural circulation. All chemical additions secured. No power to CWNT level indicators. RC# 4 in the M&H and ready for transfer. SV "C" RTO for laterals inspection. SV "A" isolated/empty. B/D demins lined up "A" lead "B" lag.

6/14/2004 6:06:27 PM Stopped 2A and 1A RCPs based on low motor amperages. EOP's and Normal Operating Procedures require the RCP's to operated in a band of 360 to 500 AMPS. ECC was contacted to adjust bus voltage as low a possible (resulting amperage was 340).
 Performed: 40EP-9EO10 Section 1
 STANDARD APPENDICES

6/14/2004 6:30:00 PM SHIFT CREW: Unit 2 - Crew D
 SM*: Tom Jury
 CRS*: Dennis Martin
 RO*: Mary Ann Padglick
 CO*: Ken Thommen
 FTA*: Robert Fisher
 Area 1: Ed Krafton
 Area 2: Chuck Barr
 Area 3: Guy Karafa
 Area 4: Robert Rentfro
 RW:
 DEMIN: Art Flores
 STA: Kevin Graham
 NRC Comm: Rob Warner
 Shift Tech:
 STSC Comm:
 E-Plan AO: Jerry Rott
 Chemistry: Sean McKenna
 Effluent: Gary Jones
 RP Tech: Tony Mason
 * Turnover Checklist have been completed by all Control Room Staff

6/14/2004 8:40:00 PM Started RCP 1A and 2A RCP
 Performed: 40EP-9EO07 Section Step 59
 LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION

6/14/2004 8:51:00 PM Stopped RCP 1A and 2A RCP due to runnig amps less than 360 per Standard Appx 1. The running RCP amps indicate 345 on phase B local indication.
 Performed: 40EP-9EO07 Section Step 59
 LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION

6/14/2004 9:12:00 PM Energized NGN-L14 after resetting its 86 lockout.
 Performed: 40OP-9NG01 Section 4.0
 480V NON-CLASS 1E SWITCHGEAR

6/14/2004 9:16:58 PM Reset UV flags on the following buses: 2ENANS01B 227-1 27H UV relay; 2ENANS02B 227 S1 UV; 2ENBNS01B 427-S1 UV, 427-11, 427-21 Transfer Block; 2ENBNS02B 427S1 UV, 427S2 UV.

6/14/2004 9:17:34 PM CEDMCS has a TF, Timer Failure, alarm on subgroups 19 & 20. CRS notified and I&C will be contacted.

6/14/2004 9:26:00 PM Energized NHN-M06 and NHN-M24.
 Performed: 40OP-9NH01 Section 4
 480V NON-CLASS 1E MCC

6/14/2004 10:04:14 PM Seal Oil system restored. Secured Emergency Seal Oil Pump.
 Performed: 40OP-9SO01 Section 4 Restoration of Seal Oil System
 GENERATOR SEAL OIL SYSTEM (SO)

6/14/2004 10:09:20 PM Received Unexpected Alarm SIT 2A/2B Press Low Level
 Alarm Window 2D2D
 Pressed up all 4 SITs after receiving the SIT 2A/2B low pressure alarm. Used 40OP-9SI03 sect. 4.3.
 Alarm Status - Clear ? - YES
 Work Mech - NO

6/14/2004 10:20:01 PM N2 OffLoad
 Refilled N2 Storage Tank IAW 40OP-9GA01 section # 4.6

	Initial	Final
Tank Level	50 inches	150 inches
Tank Press	150 psig	160 psig

6/14/2004 10:26:00 PM Removed "A" Diesel Generator from service for maintenance troubleshooting.
 Started: 40TD-9DG01 Section 2.0 - "A" Diesel Generator #105317
 DIESEL GENERATOR

6/14/2004 10:45:00 PM Started the following Circ Water Tower #1 Fans, A, B, D, F, G, H, J, K, M, N, O, and P.
 Performed: 40OP-9CW03 Section 4.0
 COOLING TOWER OPERATION

6/14/2004 10:56:00 PM Started the following Circ Water Tower #3 Fans, B, C, D, E, F, H, I, J, K, L, M, and O.
 Performed: 40OP-9CW03 Section 4
 COOLING TOWER OPERATION

6/14/2004 11:06:48 PM Secured "A" & "C" CEDM Fans which had started on LOP earlier today.
 Performed: 40OP-9HC01 Section 4 Secured "A" & "C" Fans
 HVAC CONTAINMENT (HC)

6/14/2004 11:25:03 PM Restored IAC "B" to Standby following Loss of Power and subsequent restoration.
 Performed: 40OP-9IA01 Section 6 Restored IAC "B" to Standby
 INSTRUMENT AIR SYSTEM (IA)

6/15/2004 12:05:00 AM Found NC flowing from PSV tail piece, Isolated NC to the evap by closing NC HCV214 and HCV 209. Estimated 9000 gal into TDS from NC. Notified RP and chemistry. Attempted to reopen, but PSV 266 continues to leak. WO 2715791 written.

6/15/2004 12:12:05 AM Started AFN and started feeding SG's. Feed from AFB secured.
 Performed: 40OP-9AF02 Section 5 Switched to AFN
 NON-ESSENTIAL AUXILIARY FEEDWATER PUMP OPERATION

6/15/2004 12:53:28 AM Secured AFB. Feeding with AFN.
 Performed: 40OP-9AF01 Section 10 Secured AFB
 ESSENTIAL AUXILIARY FEEDWATER SYSTEM

6/15/2004 1:52:00 AM Energized NGN-L20 prior to starting Circ Water Fans.
 Performed: 40OP-9NG01 Section 4
 480V NON-CLASS 1E SWITCHGEAR

6/15/2004 2:01:00 AM Started the following Circ Water Tower #2 Fans, B, C, D, E, F, H, I, J, K, L, M, and O.
 Performed: 40OP-9CW03 Section 4
 COOLING TOWER OPERATION

6/15/2004 2:03:28 AM Removed RPCS from service.
 Started: 40OP-9SF04 Section 6.0
 OPERATION OF THE REACTOR POWER CUTBACK SYSTEM

6/15/2004 2:20:00 AM Commenced hydrazine addition to Non-Class aux feed pump.
 Performed: 40OP-9SC09 Section 7.5
 OPERATION OF THE SECONDARY CHEMICAL ADDITION

6/15/2004 2:22:00 AM SYSTEM
 Started the "B" Circ Water Pump.
 Performed: 40OP-9CW01 Section 4
 OPERATING THE CIRCULATING WATER SYSTEM

6/15/2004 3:00:21 AM 0242 NNN-D15 transfer from emergency to normal power source.
 0248 NNN-D16 transfer from emergency to normal power source.
 0300 NNN-D12 transfer from emergency to normal power source.
 Performed: 40OP-9NN01 Section 4.3 D12/15/16 Transfer from
 Emergency to Normal
 120V AC NON-CLASS 1E INSTRUMENT POWER (NN)

6/15/2004 3:54:08 AM Secured hydrazine addition to suction of Non-Class Aux feed pump. P-15
 off but still lined up.
 Performed: 40OP-9SC09 Section 7.5.8
 OPERATION OF THE SECONDARY CHEMICAL ADDITION
 SYSTEM

6/15/2004 4:00:30 AM Started RCP 1A & 2A.
 Performed: 40EP-9EO10 Section APX. 1 restart RCPs
 STANDARD APPENDICES

6/15/2004 4:01:00 AM With NAN-S01 Voltage @ 14100 V, steady state amperage following the
 restart of RCPs 1A & 2A was ~340 and 350 amps respectively. Step 19.1
 of Standard Appendix 1 directs securing the RCP(s) if the RCP amps fail
 to stabilize within the range of 360 - 500 amps. Whereas 40OP-9RC02,
 Reactor Coolant Pump Operation Step 4.3.27 verifies that RCP motor
 amperage stabilizes at approximately 360 - 500 amps.

The basis for the > 360 amp lower limit is based on a note in the misc
 setpoint document that states that the lower amp limit allows the Operator
 to identify two-phase flow. Completion of the Safety Function Status
 Checks has continuously verified that the RCS has been > 24 degrees or
 more subcooled (typically > 125 degrees subcooled). As such, two-phase
 flow concerns have not been applicable. The lower than expected
 amperage is attributed to a combination of higher than normal bus voltage.
 Further, since the U2 SGR outage, the nominal amp levels for the RCPs
 have been < 375 which is ~ 20 amps lower than pre SGR outage levels.

Given that the amperages for the 1A and 2A RCPs were steady, that
 subcooling was always available, and that the assumptions that lead to the
 lower limit were not applicable, it was decided to use the "approximate"
 consideration of amp limits in the OP procedure and conclude that the
 RCPs were operating satisfactorily given the conditions. This conclusion
 was discussed with the SSM, STA Section Leader, and Op Standards.

6/15/2004 4:25:31 AM Secured "B" Essential Chiller.
 Performed: 40OP-9EC02 Section 7 Secured "B" Chiller
 ESSENTIAL CHILLED WATER TRAIN "B" (EC)

6/15/2004 4:28:24 AM Secured "B" EW.
 Performed: 40OP-9EW02 Section 10 Secured "B" EW
 ESSENTIAL COOLING WATER SYSTEM (EW) TRAIN B

6/15/2004 4:30:05 AM Raised all SIT pressures to maintain within normal band.
 Performed: 40OP-9SI03 Section 4 Adjusted SIT Pressures
 SAFETY INJECTION TANK OPERATIONS

6/15/2004 5:08:21 AM Stopped B spray pond pump after chemical addition.
 Performed: 40OP-9SP02 Section 5.4
 ESSENTIAL SPRAY POND (SP) TRAIN B

6/15/2004 5:10:00 AM Entered LCO: 3.7.5 Condition B
 Equip OOS None
 AFA P01 INOPERABLE due to the steam trap drain valves being

CADR ?

6/15/2004 5:10:00 AM

closed. Entered LCO 3.7.5 Condition A and B. CRDR to be generated for reportability requirements.

Entered LCO: 3.8.1 Condition B

Equip OOS None

DG A INOPERABLE due to voltage regulation failure in accordance with step 76 of LOOP/Loss of Force Circulation, Ensure compliance with applicable LCOs and STs. Completed SR 40ST-9ZZ02 at 0556. CRDR to be generated for reportability requirements.

→ 6/15/2004 6:10:00 AM

Exited LOOP/ Loss of Forced Circulation.

Performed: 40EP-9EO07 Section Step 77

LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION