

# Pv Unit 1

## Archived Operator Log

Event Date	Entry	User	Sublog
06/14/2004 12:30:00 PM	Licensing made this follow-up ENS notification to the NRC:	z98859	CR

On June 14, 2004, at approximately 07:44 Mountain Standard Time (MST) all three units at the Palo Verde Nuclear Generating Station experienced automatic reactor trips coincident with a grid disturbance and loss of offsite power in the Palo Verde Switchyard. Unit 2 declared an ALERT Emergency Plan classification at approximately 07:54 due to a loss of AC power to essential buses reduced to a single power source for greater than 15 minutes such that any additional single failure would result in a station blackout. Subsequently, at 09:51 Unit 2 downgraded the Emergency Plan classification to a NOTIFICATION OF UNUSUAL EVENT when AC power was restored from a single essential bus to both essential buses. Units 1 and 3 declared a NOTIFICATION OF UNUSUAL EVENT due to a loss of offsite power to essential buses for greater than 15 minutes. The NOTIFICATION OF UNUSUAL EVENT was terminated in all 3 units at 12:07 MST.

Unit 1 and 2 manually initiated a Main Steam Isolation System ESF actuation by procedure. Unit 3 received an automatic Main Steam Isolation System ESF actuation.

Due to the loss of offsite power, the Emergency Plan Technical Support Center (TSC) was unavailable. The Unit 2 Satellite TSC was to be staffed by the Emergency Response Organization in response to the loss of assessment capability. Power to the TSC has since been restored.

The Emergency Plan ALERT declaration includes staffing of the Joint Emergency New Center to address expected media interest.

All three units were at normal operating temperature and pressure prior to the trip. All CEAs inserted fully into the reactor cores. All Emergency Diesel Generators (EDGs) (2 per unit) associated with each of the 3 units started as expected in response to the loss of offsite power to their safety buses. Unit 2's train "A" EDG started, but did not indicate volts or amps and was manually shutdown.

A/25  


OPTIONAL FORM 99 (7-90)

### FAX TRANSMITTAL

To	Troy Pruett	From	N. Salgado	# of pages	1
Dept./Agency		Phone #			

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Event Date	Entry	User	Sublog
06/14/2004 12:31:00 PM	(continued)  The offsite power grid had several perturbations over approximately one hour following the event and has been stable since then. LCO 3.8.1, AC Sources - Operating, was entered in each unit as a result of this event. Heat removal is to atmosphere via atmospheric dump valves in natural circulation. Main steam safety valves may have lifted for a brief time. Restoration of forced reactor coolant circulation is pending assurance that the offsite power grid can reliably support the load. No major equipment was inoperable prior to the event that contributed to the event.  All 3 units are stable at normal operating temperature and pressure in Mode 3. The event did not result in any challenges to fission product barriers and there were no adverse safety consequences as a result of this event. The event did not adversely affect the safe operation of the plant or the health and safety of the public. The Resident Inspector was informed of the event and is on site.	z98859	CR
06/14/2004 12:32:31 PM	Restored Control Bldg/Room Normal ventilation. Performed: 40OP-9HJ01 Section 11.4 CONTROL BUILDING HVAC (HJ)	z01862	CR
06/14/2004 12:37:02 PM	Secured Essential chiller A. Performed: 40OP-9ECO1 Section 7 ESSENTIAL CHILLED WATER TRAIN "A" (EC)	z01862	CR
06/14/2004 12:37:16 PM	Secured Essential Chiller B. Performed: 40OP-9ECO2 Section 7 ESSENTIAL CHILLED WATER TRAIN "B" (EC)	z01862	CR
06/14/2004 12:45:33 PM	Secured EW A. Performed: 40OP-9EW01 Section 10 ESSENTIAL COOLING WATER SYSTEM (EW) TRAIN A	z01862	CR
06/14/2004 12:45:34 PM	Secured EW B. Performed: 40OP-9EW01 Section 10 ESSENTIAL COOLING WATER SYSTEM (EW) TRAIN A	z01862	CR
06/14/2004 12:55:00 PM	Reset MSIS.	z98859	CR
06/14/2004 01:03:00 PM	0743 "A" DG start on LOP. 1240 Paralleled "A" DG with the grid. 1248 Lowered "A" DG load to 1.4MW. 1254 Lowered "A" DG load to .4 MW and opened output breaker. 1303 Stopped "A" DG. Cooldown cycle sat.	z76479	CR
06/14/2004 01:20:44 PM	Energized NAN-S04 per SA 66.	z76479	CR
06/14/2004 01:30:00 PM	Energized NAN-S02 per SA 76.	z76479	CR

# Pv Unit 2

## Archived Operator Log

Event Date	Entry	User	Sublog
06/15/2004 05:10:00 AM	Entered LCO: 3.7.5 Condition B Equip OOS None AFA P01 INOPERABLE due to the steam trap drain valves being closed. Entered LCO 3.7.5 Condition A and B. CRDR to be generated for reportability requirements.	z63667	CR
06/15/2004 05:10:00 AM	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-9 Z Z 02 at 0556. CRDR to be generated for reportability requirements.	z63667	CR
06/15/2004 06:00:00 AM	Assumed area, Unit is down and in MODE 3, NO demins inservice, all chemical additions are secured, blowdown demins are aligned for 'A' LEAD and 'B' LAG, 'A' CWNT is inservice, Hydrazine day tanks are batched at 1% concentration, Ammonia day tanks are batched per CCI with ETA added, High TDS sump is tagged out for wall replace, 'C' service vessel is tagged out for resin trap inspection,	z21954	Demin
06/15/2004 06:10:00 AM	Exited LOOP/ Loss of Forced Circulation. Performed: 40EP-9E007 Section Step 77 LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION	z63667	CR

# Pv Unit 3

## Archived Operator Log

Event Date	Entry	User	Sublog
06/14/2004 12:07:07 PM	Late Entry: Exited Emergency Plan classification of NUE following restoration of off-site power and shutdown of both Diesel Generators.	Z99661	CR
06/14/2004 12:10:00 PM	Removed Condensate Service Vessels A, B & E from service. Performed: 40OP-95C03 Section 8.0 OPERATING THE CONDENSATE DEMINERALIZER SYSTEM	Z79374	CR
06/14/2004 12:29:00 PM	Restored Aux Bldg Ventilation Performed: 40EP-9EO07 Section Step 53 LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION	Z19267	CR
06/14/2004 12:35:00 PM	Restored Fuel Bldg Ventilation Performed: 40EP-9EO07 Section Step 54 LOSS OF OFFSITE POWER/LOSS OF FORCED CIRCULATION	Z19267	CR
06/14/2004 12:39:00 PM	Started B Normal Chiller. Performed: 40OP-9WC01 Section 4.0 NORMAL CHILLED WATER SYSTEM (WC)	Z79374	CR
06/14/2004 12:53:32 PM	Started A Normal Chiller. Performed: 40OP-9WC01 Section 4.0 NORMAL CHILLED WATER SYSTEM (WC)	Z79374	CR
06/14/2004 01:13:15 PM	Pyrolysate Detector secured. Performed: 40OP-96H01 Section 10.3 GENERATOR HYDROGEN	Z79374	CR
06/14/2004 01:15:14 PM	Restored LD per Standard appendix 12 Performed: 40EP-9EO10 Section 12 STANDARD APPENDICES	Z99332	CR
06/14/2004 01:18:37 PM	Started CHN-P03A RMWP A Performed: 40OP-9CH01 Section 4 CVCS NORMAL OPERATIONS	Z99332	CR
06/14/2004 01:35:08 PM	2B RCP Oil Lift Pump started when power was restored to 3-E-NBN-S02, the oil lift pump ran and then subsequently tripped on thermal overload, the thermals were reset locally, only to have observed the pump tripped again shortly there after on thermals.	Z79374	CR
* 06/14/2004 01:44:59 PM	Reestablished RCP seal injection and seal bleedoff. Performed: 40OP-9CH03 Section 4.1 REACTOR COOLANT PUMP SEAL INJECTION SYSTEM	Z99332	CR
06/14/2004 02:00:32 PM	Completed 1 hour monitoring of hot leg injection header pressure per 40AL-9RK2B-2B09B (SI CHK VLV LEAK PRESS HI) Second Priority Operator Action.  POINT ID: SIP5390 (Hot Leg Inj A Reactor Coolant Loop 1 Chk Vlv Leak Press Hi) There was no significant pressure increase.	Z79374	CR
06/14/2004 02:18:42 PM	Vented SIT 2A to 619 psig. to clear high pressure alarm. Performed: 40OP-9SI03 Section 4.4 SAFETY INJECTION TANK OPERATIONS	Z99332	CR