

Attachment 1

PBNP SG Nozzle Dam Installation & Vent Path Timeline April 9, 2004

Time	Issue Logged and Logbook Taken From
0:00	Unit 1 in Mode 5 RCS temp 110 degrees F RCS is in reduced inventory Reactor Vessel Level 24%. (STATION LOG)
1:00	IPTE brief started
2:00	IPTE brief completed (approx.)
3:01	Enter Mode 6 - Started head detensioning (OCC & STATION LOG)
4:00	Maintenance reports that they are having problems removing the last bolt for the pressurizer manway. They are planning to work through turnover to get it removed. (OCC LOG)
4:30	Commence installation of Unit 1 B S/G Cold Leg Nozzle Dam (STATION LOG)
4:30	S/G Jumpers arrive at B S/G platform (approx.)
4:34	Commenced installation of B S/G Cold Leg nozzle dam (OCC LOG)
4:34	1B S/G Cold Leg Nozzle Dam center in bowl (FME Material Control Log)
4:40	1B S/G Cold Leg Nozzle Dam sides in bowl (FME Material Control Log)
4:52	Commenced 1A S/G Cold Leg Nozzle Dam installation (STATION LOG)
4:52	RPM reports to OCC that 1 S/G jumper lost breathing air and had collapsed hood. (OCC LOG)
4:59	Received word that the S/G jumper is OK and he believes he pinched his hose, Also noted that air pressure may have been a little low - adjusted up. Work has resumed.
5:15	1A S/G Cold Leg Nozzle Dam center in bowl (FME Material Control Log)
5:21	1B S/G Cold Leg Nozzle Dam installed, moving to A S/G cold leg. (OCC LOG)
5:25	RP reports that both cold leg nozzle dams are installed and they are moving to hot legs. (OCC LOG)
5:26	1A S/G Cold Leg Nozzle Dam sides in bowl (FME Material Control Log)
5:37	Installation of 1A&1B S/G Cold Leg Nozzle Dams are complete and verified installed. Commence installation of 1A S/G Hot Leg Nozzle Dam. (STATION LOG)
5:37	Commenced 1A S/G Hot Leg Nozzle Dam installation
5:44	Installation of Unit 1 A and B S/G Cold Leg Nozzle Dams are complete and verified installed. Commence installation of Unit 1 A S/G Hot Leg Nozzle Dam. (OCC LOG)
5:52	1A S/G Hot Leg Nozzle Dam center in bowl (FME Material Control Log)
5:55	1A S/G Hot Leg Nozzle Dam sides in bowl (FME Material Control Log)
6:00	Start of turnover meeting (start of dayshift)
6:20	Site Director question's OCC on importance of vent path sequence, Ops claims it is ok per procedure. (approx.)
6:33	1A S/G Hot Leg Nozzle Dam sides out of bowl for re-alignment of center (FME Material Control Log)
6:35	Outage Director brings copy of NUREG-1449 to OCC stating vent path requirement (approx.)
6:43	1B S/G Hot Leg Nozzle Dam center in bowl (FME Material Control Log)
6:47	One A S/G Hot Leg Nozzle Dam side out of bowl (FME Material Control Log)
6:47	1B S/G Hot Leg Nozzle Dam sides in bowl (FME Material Control Log)
	THESE TWO 0647 TIME ENTRIES IN THE FME LOG ARE CRITICAL FROM THE STANDPOINT THAT THEY INDICATE, ALTHOUGH PURELY BY COINCIDENCE AND NOT INTENTION, THAT THE "A" S/G HOT LEG NOZZLE DAM WAS BEING DISASSEMBLED (ONE SIDE OUT) JUST PRIOR OR NEARLY SIMULTANEOUSLY AS THE "B" S/G HOT LEG NOZZLE DAM FINAL SIDES WERE GETTING INSTALLED. THESE TIMES ARE THE TIMES THAT THE NOZZLE DAM PIECES WERE PASSED INTO THE BOWL, AND ALLOWING FOR THE FEW SECONDS IT TAKES FOR THE TECH IN THE BOWL TO POSITION THE PIECES IN PLACE, WE CAN SUMMIZE THAT THERE WAS, ALTHOUGH BY ACCIDENT, A HOT LEG VENT AT ALL TIME.