LICENSEE EVENT REPORT (LER)							U.S. NUCLEAR REGULATORY COMMISSION APPROVED ONE NO. 3180-0104 EXPIRES 8/31/86							
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NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85						
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)				b.			PAGE (3)				
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On May 14, 1984, at 5:22 a.m., a turbine runback to approximately 510 megawatts occurred. The root cause was determined to stem from an instrument power supply failure located in the nuclear instrumentation system (NIS) drawer for intermediate range (IR) channel N-35 nuclear instrumentation. A hard ground attributed to the failure tripped breaker 14 in a vital 120 volt (a.c.) instrument power buss (Panel 3P06). This de-energized an isolation transformer and removed detector voltage (supplied by the transformer) from source range (SR) channel N-31, IR channel N-35, and power range (PR) channel N-41 nuclear instrumentation. NIS PR channel N-41 generated an 'NIS Rod Drop' signal on loss of voltage to its detector and resulted in the turbine runback.

An investigation into the event identified the failure and associated hard ground to be in the IR channel N-35 high voltage instrument power supply. The instrument power fuses were pulled from N-35 and breaker 14 in Panel 3P06 closed in without problem. A low resistance (it should be high) was measured between the inner and outer shield on the high voltage cable for the N-35 detector. NIS IR channel N-35 will remain out of service until the unit comes down to enable personnel access inside the bio-wall to troubleshoot and correct the problems.

Another separate problem occurred that caused breaker 10 to trip in vital Panel 3P06 and was identified when breaker 14 was discovered tripped. Breaker 10 was reset and closed in but grounds were indicated to be occurring on the 3C inverter supplying power to Panel 3P06. The grounds cleared when breaker 10 in Panel 3P06 was opened and plant personnel began an investigation. The fault was isolated to a terminal box (TB 3200) inside containment. Leads were lifted to TB 3200 to enable closure of breaker 10 and repowering other loads fed by breaker 10.

Containment entries at power by plant personnel resulted in identifying and correcting the source of the grounds. A lock nut on an end coupling connecting the electrical conduit between TB 3200 and FIC-3-629 to FIC-3-629 (RCP 'A' component cooling water (CCW) return flow-low flow annunciator input) was found loose. This allowed the conduit to pull away from FIC-3-629 and the wiring to impart loads on a relay internal to FIC-3-629. FIC-3-629 is a Model 3623, AR-Met Rotometer with a Model 6311 indicating alarm extension. The relay (R.B.M., part #9-831) is picked up by a magnetic reed switch which closes when RCP 'A' CCW return flow is greater than 140 gpm. The loads placed on the relay dislodged its cover, exposing its coil and allowing it to eventually short to ground. The conduit and connector were refastened to FIC-3-629. The wiring was checked, the relay was replaced, and a satisfactory circuit resistance check completed prior to relanding the leads in TB 3200. The annunciator for "RCP 'A' CCW Low Return Flow" cleared when the circuit was energized and the equipment has functioned without problem since.



June 13, 1984 PNS-L1-84-207

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 84-015 Turkey Point Unit 3 Date of Event: May 14, 1984

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR to provide notification of the subject event.

Very truly yours,

Mullieur

J. W. Williams, Jr. Group Vice President Nuclear Energy

JWW/RJS/js

Att achment

cc: J. P. O'Reilly, Region II, USNRC Harold F. Reis, Esquire File 933.1

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