

Power Reactor

Event Number: 50769

Facility: PILGRIM

Notification Date: 01/27/2015

Region: 1 State: MA

Notification Time: 06:41 [ET]

Unit: [1] [ ] [ ]

Event Date: 01/27/2015

RX Type: [1] GE-3

Event Time: 04:02 [EST]

NRC Notified By: GRANT FLYNN

Last Update Date: 01/27/2015

HQ OPS Officer: STEVE SANDIN

Emergency Class: NON EMERGENCY

Person (Organization):

10 CFR Section:

CHRISTOPHER CAHILL (R1DO)

50.72(b)(2)(iv)(B) - RPS ACTUATION - CRITICAL

MICHELE EVANS (NRR)

50.72(b)(2)(xi) - OFFSITE NOTIFICATION

BERNARD STAPLETON (IRD)

50.72(b)(3)(iv)(A) - VALID SPECIF SYS ACTUATION

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	A/R	Y	52	Power Operation	0	Hot Shutdown

## Event Text

### AUTOMATIC REACTOR SCRAM ON TURBINE TRIP DUE TO LOSS OF OFFSITE POWER

"On Tuesday January 27, 2015 at 0402 hours, with the Pilgrim Nuclear Power Station (PNPS) Reactor Mode Select Switch (RMSS) in Run and reactor power approximately 52% an automatic reactor scram signal was received due to the automatic trip of the main turbine that was initiated by the opening of the main generator breaker, ACB-104. The event occurred during winter storm 'Juno.' Prior to the event off-site transmission Line 355 was de-energized due [to] weather conditions and its associated PNPS switchyard breakers (ACB-105, a main generator breaker and ACB-102), were open. Per station procedures, reactor power was being lowered, a reactor protection system bus had been placed onto a back-up power supply, the Emergency Diesel Generators had been started and were powering the associated safety related 4 KV buses. The second off-site transmission Line 342 de-energized and the associated PNPS switchyard breakers (ACB-104 main generator breaker and ACB-103) opened. The Shutdown Transformer off-site power supply has remained available throughout this event. All control rods were verified to be fully inserted. Per plant design, Primary Containment Isolation System (PCIS) Group II sampling systems, Group VI Reactor Water Clean-up (RWCU) system and Reactor Building Isolation System (RBIS) isolations occurred. Currently, the EDG's are powering the safety related 4KV buses, reactor water level is being maintained by the Reactor Core Isolation Cooling (RCIC) system and reactor pressure is being maintained by High Pressure Coolant Injection (HPCI) system. The station is conducting a plant cool down at this time. All systems responded as designed with the exception of a non-safety-related diesel air compressor, K-117 that failed to start."

The licensee will notify the State and local governments and plans on issuing a press release. The NRC Resident Inspector has been informed.