

LICENSEE: PUBLIC SERVICE ELECTRIC & GAS CO.
SITE: SALEM 1 EN NUMBER: 27053
DOCKET: 05000272 EVENT DATE: 04-07-94
RX TYPE: PWR EVENT TIME: 10:47
VENDORS: W-4-LP NOTIFY DATE: 04-07-94
EMERGENCY CLASS: ALE REGION: 1 STATE: NJ TIME: 11:31
OPS OFFICER: CHAUNCEY GOULD
10 CFR SECTION: AAEC 50.72(a)(1)(i) EMERGENCY DECLARED
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
1 A/R Y 75 POWER OPERATION 0 HOT STANDBY

THE PLANT HAD A REACTOR TRIP FROM 25% POWER ON POWER LOW RANGE/HIGH FLUX SIGNAL AND A SAFETY INJECTION INITIATION ON LOW-LOW TAVG COINCIDENT WITH HIGH STEAM FLOW.

THE LICENSEE WAS LOWERING REACTOR POWER BECAUSE OF THE LOSS OF SOME CIRCULATING WATER PUMPS AT THE TIME OF THE TRIP. POWER WAS LOWERED TO LESS THAN 10%, THUS AUTOMATICALLY INSTATING THE LOW POWER TRIP SET POINT OF 25%. THE LICENSEE HAS SPECULATED THAT OPERATORS BEGAN WITHDRAWING CONTROL RODS TO RESTORE A LOWER THAN NORMAL TAVG. POWER INCREASED TO 25%, AND A REACTOR TRIP WAS RECEIVED, ALL RODS FULLY INSERTED.

A SAFETY INJECTION SIGNAL WAS RECEIVED BECAUSE OF A LOW LOW TAVG IN CONJUNCTION WITH HIGH STEAM FLOW SIGNAL. AT LEAST TWO MAIN STEAM ISOLATION VALVES AND TWO FEED WATER ISOLATION VALVES FAILED TO CLOSE AS REQUIRED, IN ADDITION, THE MAIN FEED PUMPS FAILED TO TRIP. THE SUBSEQUENT COOLDOWN OF THE REACTOR COOLANT SYSTEM CAUSED PRESSURIZER PRESSURE AND LEVEL TO DROP. A SECOND SAFETY INJECTION SIGNAL WAS RECEIVED ON LOW PRESSURIZER PRESSURE.

THE PLANT WAS TAKEN SOLID BY THE HIGH HEAD SAFETY INJECTION PUMPS. THE POWER OPERATED RELIEF VALVES (PORVs) ON THE PRESSURIZER OPENED AND RELIEVED TO THE PRESSURIZER RELIEF TANK (PRT). THE BLOW OUT DISC ON THE PRT BLEW OUT TO PREVENT OVER PRESSURIZATION OF THE TANK. THE PRT RELIEVES TO THE CONTAINMENT.

UPDATE AT 11:55 4/7/94 FROM HEDMON TO GOULD AT 11:26 THE "11" STEAM GENERATOR SAFETY VALVE LIFTED AND FULLY RESEATED. THE COOLDOWN RESULTED IN A DECREASE IN RCS PRESSURE. THIS WORKED IN CONJUNCTION WITH THE OVER FEEDING TO CAUSE THE SECOND SI SIGNAL.

* * * UPDATE @ 13:53 4/7/94 FROM HEDMON TO MCGINTY * * *
LICENSEE DECLARED A PRECAUTIONARY ALERT AT 13:16 4/7/94 TO HELP STAFF THE TSC IN RESPONSE TO THE ABOVE EVENT.

* * * UPDATE AT 1602 EDT BY KARSCH * * * COMMISSIONER'S ASSISTANTS BRIEFING
BRIEFER (WENSINGER) RGN 1, ATTENDEES AEOD (JORDAN & HOLAHAN), IRB (BROCKMAN), PA (BEECHER), SP (LOHAUS), EDO (TATUM), NRR EO (DENNIG), SECY (BATES), CA (MADDEN), ROGERS' (SORENSEN), SELIN'S (BAKER), REMICK'S (GOODMAN), DePLANQUE'S (RULAND), OTHERS NRR (DENBECK), NRR/RSB (COLLINS).

THE LICENSEE HAS DRAWN A BUBBLE IN THE PRESSURIZER AND INTENDS TO LOWER PRESSURIZER LEVEL TO 50% AND BEGIN A NORMAL COOLDOWN TO COLD SHUTDOWN.

UPDATE AT 20:31 BY GIGGETTS/OTT TO GOULD THE LICENSEE TERMINATED THE ALERT AND NOUE AT 20:20ET BASED ON PLANT COOLDOWN BEING IN PROGRESS. THEY ARE IN HOT STANDBY(483F AND 1500PSI). THE COOLDOWN RATE IS 25-30F/HR. THEY EXPECT TO BE IN MODE 4 BY MIDNIGHT. RI WAS NOTIFIED.

THE FOLLOWING AGENCIES WERE NOTIFIED OF THE ALERT AND ITS TERMINATION:

1. DOE (VISNOSKY)
2. USDA (COOPER/GRAHAM)
3. HHS (BURGER)
4. FEMA (SIMMERS/CARR)
5. EPA (LYMON/CONKLIN)

*** UPDATE DATE/TIME:4/8/94 @ 0410 BY:McGINTY ***
AS OF 0410 EST ON 4/8/94, THE PLANT IS IN MODE 4 AT 370 psig AND 350F. PREPARATIONS ARE BEING MADE TO PLACE RHR ON SERVICE. THE LICENSEE ANTICIPATES REACHING COLD SHUTDOWN AT ABOUT NOON, TODAY. THE LICENSEE HAD NO NEW INFORMATION TO REPORT REGARDING THE EVENT.

LICENSEE: SALEM GENERATING STATION
SITE: SALEM
DOCKET:
RX TYPE:
VENDORS:
EMERGENCY CLASS: N/A REGION: 1 STATE: NJ
OPS OFFICER: DOUG WEAVER
10 CFR SECTION: CDEF 21.21(b)(2)
UNIT SCRAM RX INIT INITIAL MODE
CODE CRIT PWR

EN NUMBER:27469
EVENT DATE: 06-30-94
EVENT TIME: 00:00
NOTIFY DATE: 06-30-94
TIME: 13:35
DEFECTS/NONCOMPLIANCE
CURR CURRENT MODE
PWR

HIGH STEAM LINE FLOW SAFETY INJECTION (SI) INSTRUMENTATION SIGNAL SUMMATORS PM-505B AND PM-506B SATURATE HIGH FOLLOWING A LOSS OF POWER AND SUBSEQUENT REENERGIZATION.

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DUE TO THE EVENT ON APRIL 7, 1994 (EVENT #27053), TESTING OF THE SIGNAL SUMMATORS WAS INITIATED. THE SUMMATORS WERE FOUND TO BE IN A NONCONSERVATIVE STATE FOLLOWING A LOSS OF POWER AND SUBSEQUENT REENERGIZATION. THE SETPOINT OF THE SI SIGNAL IS ABOVE THAT REQUIRED BY TECH SPECS FOR AN UNSPECIFIED PERIOD OF TIME DURING THE ABOVE SET OF CIRCUMSTANCES. THE SUMMATORS WERE SUPPLIED BY WESTINGHOUSE.

HOO NOTE: SEE EVENT #27053.