LICENSEE: NORTHEAST UTILITIES
SITE: MILLSTONE 3 EN NUMBER:25332
DOCKET: 05000423 EVENT DATE: 03-31-93
RX TYPE: PWR EVENT TIME: 01:20
VENDORS: W-4-LP NOTIFY DATE: 03-31-93
EMERGENCY CLASS: N/A REGION: 1 STATE: CT TIME: 01:38
OPS OFFICER: STEVE SANDIN
10 CFR SECTION: ARPS 50.72(b)(2)(ii) RPS ACTUATION
AESF 50.72(b)(2)(ii) ESF ACTUATION

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INITIAL MODE	CURR PWR	CURRENT MODE
3	A/R	Y	100	POWER OPERATION	0	HOT STANDBY

UNIT 3 EXPERIENCED A REACTOR TRIP FOLLOWING A RAPID DECREASE IN TURBINE POWER FOR REASONS UNKNOWN.

FOR REASONS UNKNOWN AND UNDER INVESTIGATION THE TURBINE CONTROL VALVES CLOSED RAPIDLY REDUCING TURBINE POWER CAUSING WATER LEVEL IN ALL STEAM GENERATORS TO SHRINK BELOW THE LOW-LOW LEVEL SETPOINT. THIS RESULTED IN AN REACTOR TRIP AND ACTUATION OF ALL AUXILIARY FEEDWATER PUMPS. ALL CONTROL RODS FULLY INSERTED. NO PRIMARY SAFETY/RELIEF VALVES LIFTED. AFW IS CURRENTLY IN USE TO RECOVER SG LEVELS. STEAM GENERATOR SAFETY VALVE "MSS-SVV-31D" ON #4 SG LIFTED DURING THE TRANSIENT AND FAILED TO FULLY RESEAT. PRESSURE IN THE #4 SG IS STABLE AT 1000PSIG. THE LICENSEE WAS UNSURE OF THE SETPOINT OF THIS PARTICULAR SAFETY, HOWEVER, THE LOWEST SETPOINT FOR ANY SG SAFETY IS 1185PSIG. THE LICENSEE HAS NO PROBLEMS WITH AN UNCONTROLLED COOLDOWN AND THERE IS NO KNOWN SG TUBE LEAKAGE. THE LICENSEE HAS MAINTENANCE PERSONNEL EVALUATING THE SG SAFETY VALVE TO DETERMINE WHETHER A SUBSEQUENT COOLDOWN IS NECESSARY. THE LICENSEE'S INTENTION IS TO MAINTAIN SG PRESSURE > 660 PSIG (MSIV ESF SETPOINT) PENDING REPAIRS. PLANT TEMPERATURE IS BEING CONTROLLED VIA THE ADDITION OF COLD AFW AND PRIMARILY THE RELEASE OF STEAM THROUGH THE #4 SG SAFETY WITH LITTLE USE OF THE CONDENSER STEAM DUMPS NECESSARY. PRIOR TO THE TRANSIENT, A TURBINE THRUST BEARING WEAR DETECTOR TEST WAS COMPLETED SAT. THIS TEST IS AUTOMATICALLY SEQUENCED VIA THE EHC SYSTEM BY AN OPERATOR DEPRESSING A PUSHBUTTON. WHEN THE FEEDBACK SIGNAL IS RECEIVED, A STATUS LAMP INDICATES THAT THE TEST HAS BEEN COMPLETED SAT AND THE OPERATOR RELEASES THE PUSHBUTTON. THE TURBINE CONTROL VALVES WERE OBSERVED CLOSING IMMEDIATELY FOLLOWING THE OPERATOR RELEASING THIS PUSHBUTTON. NORMAL OFFSITE POWER AND ALL EDGs ARE AVAILABLE. THE LICENSEE INFORMED STATE/LOCAL AGENCIES AND THE NRC RESIDENT INSPECTOR VIA RADIO PAGER. A PRESS RELEASE MAY BE ISSUED IN THE MORNING.

* * * 0350EST 03/31/93 DURING MORNING STATUS CALL BY S.SANDIN * * *

THE LICENSEE WAS UNABLE TO PLACE THE AUX BOILER IN SERVICE FOR SECONDARY PLANT STEAM LOADS AND, AS A RESULT, IT WAS NECESSARY AT 0237EST TO SHUT THE MSIVs TO LIMIT THE PLANT COOLDOWN. ALSO, SEVERAL ATTEMPTS TO LIFT AND RESEAT THE #4 SG SAFETY WERE UNSUCCESSFUL. THE LICENSEE INTENDS TO COMMENCE A COOLDOWN TO MODE 5 SHORTLY FOR REPAIRS. THE CAUSE OF THE FAST CLOSE ON THE TURBINE CONTROL VALVES HAS NOT BEEN DETERMINED. ON FURTHER REVIEW, A PRIMARY PORV LIFTED AT LEAST ONCE WHICH IS NORMAL FOR THIS TYPE OF TRANSIENT. NOTIFIED R1DO(HAVERKAMP).

* * * UPDATE 03/31/93 0905EST FROM:MARTIN BY:SCARFO * * *
AT 0905EST, THE LICENSEE DETERMINED THAT THE PLANT WILL BE SHUTDOWN FOR GREATER THAN 48 HOURS. THE LICENSEE IS REQUIRED TO NOTIFY THE STATE AND LOCAL AGENCIES OF THIS DEVELOPMENT. THE LICENSEE INFORMED THE NRC RESIDENT INSPECTOR. R1DO(HAVERKAMP) NOTIFIED.