

LICENSEE: NORTH ATLANTIC ENERGY SERVICE COMPA
SITE: SEABROOK 1 EN NUMBER: 27430
DOCKET: 05000443 EVENT DATE: 06-22-94
RX TYPE: PWR EVENT TIME: 10:00
VENDORS: W-4-LP NOTIFY DATE: 06-22-94
EMERGENCY CLASS: N/A REGION: 1 STATE: NH TIME: 13:02
OPS OFFICER: GREG SCARFO
10 CFR SECTION: ADAS 50.72(b)(2)(i) DEG/UNANALYZED COND
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
1 N N 0 REFUELING 0 REFUELING

REACTOR COOLANT PUMP (RCP) TURNING VANE CAP SCREWS (TVCS) AND TVCS LOCKING CUPS WERE DISLODGED AND FOUND IN THE BOTTOM OF THE REACTOR VESSEL.

THE FOLLOWING IS THE TEXT OF A FACSIMILE SUBMITTED BY THE LICENSEE:

"NORTH ATLANTIC ENERGY SERVICE CORPORATION CONSERVATIVELY DETERMINED ON JUNE 22, 1994, AT 1000AM THAT A REPORTABLE CONDITION PURSUANT TO 10CFR50.72(b)(2)(i) EXISTS AT SEABROOK STATION.

NORTH ATLANTIC IS CURRENTLY PERFORMING UNDERWATER INSPECTIONS OF THE 193 FUEL ASSEMBLIES WHICH WERE UTILIZED DURING CYCLE 3. THE PURPOSE OF THE INSPECTIONS IS TO DETERMINE IF ANY FUEL ASSEMBLIES WERE DEGRADED BY THE RCP TURNING VANE CAPSCREW (TVCS) OR TVCS LOCKING CUPS. THE TVCS WAS FOUND IN THE BOTTOM OF THE REACTOR VESSEL IN EARLY JUNE DURING REFUELING OUTAGE 3. THE LOCKING CUPS WERE FOUND ON THE LOWER CORE SUPPORT PLATE AFTER ECCS FLOW TESTING WHICH WAS A REFUELING OUTAGE SURVEILLANCE. TO DATE, 109 OF THE 193 FUEL ASSEMBLIES HAVE BEEN INSPECTED IN THE SPENT FUEL POOL WITH THE FOLLOWING RESULTS:

- ONE FUEL ASSEMBLY BOTTOM NOZZLE WAS FOUND TO HAVE MINOR MARKINGS
- TWO OTHER ADJACENT FUEL ASSEMBLIES WERE FOUND TO HAVE BOTTOM NOZZLE DEGRADATION. THIS DEGRADATION APPEARS TO HAVE BEEN CAUSED BY THE WEARING ACTION OF THE TVCS AGAINST THE BOTTOM NOZZLES OF THE 2 FUEL ASSEMBLIES. THE DEGRADATION IS LIMITED TO THE BOTTOM NOZZLES WITH NO DEGRADATION BEING FOUND ON THE FUEL PINS THEMSELVES.

NORTH ATLANTIC IS CONSERVATIVELY REPORTING THIS CONDITION UNDER THE AFOREMENTIONED REPORTING CRITERIA SINCE THE POTENTIAL EXISTED

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FOR FURTHER DEGRADATION OF THE FUEL ASSEMBLY BOTTOM NOZZLES
LEADING TO POSSIBLE FUTURE FUEL DEGRADATION."
END OF TEXT.

NO FUEL CLADDING OR OTHER FUEL ASSEMBLY DAMAGE HAS BEEN DETECTED
AT THIS TIME. AN INSPECTION OF THE REACTOR COOLANT SYSTEM (RCS)
LOOPS IS ONGOING TO DETERMINE IF ANY DAMAGE WAS SUSTAINED. THE
REACTOR COOLANT PUMPS (RCPs) HAVE BEEN REMOVED AND NEW CAP SCREWS
WILL BE WELDED ONTO THE TURNING VANE BOLTS, AS APPROVED BY
WESTINGHOUSE. A PART 21.21 NOTIFICATION ON THESE TVCSs AND TVCS
LOCKING CUPS FOR THE WESTINGHOUSE STANDARD RCP IS BEING
CONSIDERED. THE CAUSE OF THE LOOSENED TVCSs AND TVCS LOCKING
CUPS IS BELIEVED TO BE THERMAL CYCLING. THE LICENSEE WILL INFORM
THE NRC RESIDENT INSPECTOR.