

ATTACHMENT TO LER 81-09/3L
NORTHEAST NUCLEAR ENERGY COMPANY
MILLSTONE NUCLEAR POWER STATION - UNIT 1
PROVISIONAL LICENSE NUMBER DPR-21
DOCKET NUMBER 50-245

IDENTIFICATION OF OCCURRENCE

A reactor protection system instrument setting was found to be less conservative than that established by the technical specification.

CONDITIONS PRIOR TO OCCURRENCE

Prior to the occurrence the plant was shutdown for performance of main turbine repairs.

DESCRIPTION OF OCCURRENCE

On May 11, 1981 at 1100 hours while performing routine surveillance, Main Steam Line High Radiation Functional Test, the subchannel B trip setpoint was found to be 700 mR/hr. Technical Specification Table 3.1.1 requires that the trip level setting be less than or equal to seven (7) times the normal full power background dose rate, which corresponded to a maximum trip setpoint of 689 mR/hr. Additionally, the subchannel B downscale trip was found to be inoperative. The normal downscale trip setpoint is 0.1 mR/hr.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

Failure of the subchannel to trip at its desired setpoint is attributable to instrument setpoint drift.

ANALYSIS OF OCCURRENCE

The main steam line radiation monitoring system consists of four (4) radiation monitors arranged in one-out-of-two-twice logic system. On receipt of a main steam line radiation signal, the system initiates a reactor scram and isolation to reduce the source of radiation to the extent necessary to prevent excessive release of radioactive materials. Failure of the subsystem in question to trip at its desired setpoint did not result in a condition that has not been previously analyzed. The remaining subsystems were found to be within their desired setpoint range and would have initiated the required action of a main steam line high radiation condition had existed.

CORRECTIVE ACTION

The subsystem in question was recalibrated to within its acceptable setpoint range and was satisfactorily tested.

The radiation monitor was manufactured by the General Electric Company and has a scale maximum of 1×10^6 mR/hr.