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On June 30, 1987, while performing surveillance testing on the six Main Steam Safety/Relief Valves (RV), five of the valves lifted at pressures in excess of their desired setpoint. Analysis demonstrated that the as-found valve setpoints would not have caused reactor vessel pressure to exceed its Technical Specification limit if a limiting transient had occurred. The valves were rebuilt, set to their desired setpoints and satisfactorily tested. There were no consequences.

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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

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#### LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. UCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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### I. Description of Event

On June 30, 1987, while performing surveillance testing on the Main Steam Safety Relief Valves (SRV), five (5) of the six (6) valves lifted at pressures in excess of the Technical Specification limit. The as-found setpoints of the valves were:

Pilot Assembly	Desired	As Found	Percentage of Tech: Spec, Limi							
Serial Number	Setpoint	Setpoint								
1036	1095 psig	1114 psig	101.7%							
1037	1125 psig	1174 psig	104.4%							
1038	1110 psig	1610 psig	145.0%							
1042	1125 psig	1177 psig	104.6%							
1077	1125 psig	1156 psig	102.8%							

Technical Specifications require that these valves perform their safety function at plus or minus one (1) percent of the required setpoint. This event is reportable per 10CFR50.73(a)(2)(v).

At the time of the event, the unit was shut down for a scheduled refueling outage. There were no consequences.

### II. Cause of Event

The valves in question are Model 7567F, two-stage valves manufactured by Target Rock Corporation. Setpoint drift in these valves has been experienced at Millstone 1 and at other utilities. A continuing effort by the BWR Owner's Group Subcommittee for Safety/Relief Valve Setpoint Drift is being made to determine the cause and long term corrective action for this phenomenon. Based on trending of valve test data that has been accumulated to date, the setpoint drift can be attributed to high friction at the labyrinth seal in the valve topworks assembly.

# III. Analysis of Event

Following identification of the event, the General Electric Company was contacted to determine whether the as-found valve setpoints would have allowed peak reactor vessel pressures in excess of 1375 psig during occurrence of the limiting vessel over-pressurization transient. To insure that actual conditions were bounded by the analysis, it was assumed that one valve failed to open and the remaining valves opened at 105 percent of their desired setpoints. The result of this analysis indicated that occurrence of the limiting transient, Main Steam Isolation 'Live closure from rated power with no high flux scram, would have resulted in a peak reactor vessel pressure of 1311 psig. Therefore, this event did not result in an unamalyzed condition.

NRC Form 3	86A	U.S.	. NU
(9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION		AF
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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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TEXT (If more space is required, use additional NRC form 366A's) (17)

### IV. Corrective Action

The valves in question were rebuilt, set to their desired setpoints and satisfactorily tested. Millstone 1 will continue to participate in the activities of the BWR Owner's Group Subcommittee for Safety/Relief Valve Setpoint Drift and will consider any appropriate modifications recommended by the Owner's Group\* and the valve manufacturer.

## V. Additional Information

Similar occurrences of this event at Millstone 1 have been reported as LER 85-029-00 and LER 84-012-00.



General Offices . Selden Street, Berlin, Connecticut

P.O. BOX 270 HARTFORD, CONNECTICUT 06141-0270 (203) 665-5000

July 28, 1987 MP-10620

Re: 10CFR50.73(a)(2)(v)

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Reference:

Facility Operating License No. DPR-21

Docket No. 50-245

Licensee Event Report 50-245/87-021-00

Gentlemen:

This letter forwards the Licensee Event Report 87-021-00 required to be submitted within thirty (30) days pursuant to the requirements of 10CFR50.73(a)(2)(v).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Stephen E. Scace Station Superintendent Millstone Nuclear Power Station

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SES/MJB:mo

Attachment: LER 87-021-00

cc: W. T. Russell, Region I

T. Rebelowski, Senior Resident Inspector

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