NRC FORM 366
7 77)

U S NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

UPDATE REPORT
PREVIOUS REPORT DATE 033183

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | C T M N S 2 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | (5)

LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

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0 1 | REPORT SOURCE L (6) | 0 5 0 0 0 3 3 6 (7) | 0 3 0 2 8 3 (8) | 0 9 0 3 8 5 (9)

DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During a plant cooldown on 2 March 1983, the pressurizer spray water temperature
0 3 differential exceeded the limit outlined in T.S.3.4.9.2.c., a maximum pressurizer
0 4 spray water temperature differential of 350°F. An engineering evaluation was
0 5 performed to determine the effects on the fracture toughness properties of the
0 6 pressurizer, and it was determined that the pressurizer remains acceptable for
0 7 continued operation. Similar LER's: None
0 8

SYSTEM CODE: C A (11) | CAUSE CODE: X (12) | CAUSE SUBCODE: Z (13) | COMPONENT CODE: X X X X X X (14) | COMP SUBCODE: Z (15) | VALVE SUBCODE: Z (16)

(17) LER/RO REPORT NUMBER: EVENT YEAR 8 3 | SEQUENTIAL REPORT NO: 0 1 0 | OCCURRENCE CODE: 0 3 | REPORT TYPE: X | REVISION NO: 1

ACTION TAKEN: X (18) | FUTURE ACTION: Z (19) | EFFECT ON PLANT: Z (20) | SHUTDOWN METHOD: Z (21) | HOURS: 0 0 0 0 (22) | ATTACHMENT SUBMITTED: Y (23) | NPRDS FORMS: N (24) | PRIME COMP SUPPLIER: N (25) | COMPONENT MANUFACTURER: C 4 9 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The cause of the out-of-limit condition was due to the fact that the pressurizer
cooled down at a much slower rate than did the RCS, such that when auxiliary spray
was initiated, a temperature differential > 350°F occurred. A Technical Specific-
ation change has been approved by the NRC to help increase the actual pressurizer
cooldown while in Mode 3.

FACILITY STATUS: D (28) | % POWER: 0 0 0 (29) | OTHER STATUS (30): NA | METHOD OF DISCOVERY: A (31) | DISCOVERY DESCRIPTION (32): Review of Data

ACTIVITY RELEASED: Z (33) | CONTENT OF RELEASE: Z (34) | AMOUNT OF ACTIVITY (35): NA | LOCATION OF RELEASE (36): NA

PERSONNEL EXPOSURES — NUMBER: 0 0 0 (37) | TYPE: Z (38) | DESCRIPTION (39): NA

PERSONNEL INJURIES — NUMBER: 0 0 0 (40) | DESCRIPTION (41): NA

LOSS OF OR DAMAGE TO FACILITY (43) — TYPE: Z (42) | DESCRIPTION: NA

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PDR ADOCK 05000336
S PDR

PUBLICITY — ISSUED: N (44) | DESCRIPTION (45): NA

NRC USE ONLY

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NAME OF PREPARER: Robert Borchert | PHONE: (203) 447-1791 X-4418

NORTHEAST UTILITIES

THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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

Reference: Facility Operating License No. DPR-65
Docket No. 50-336
Reportable Occurrence RO 50-336/83-10/03X-1

Gentlemen:

This letter forwards the Licensee Event Report 83-10/3X-1. This report explains the corrective action taken as a result of the pressurizer spray water differential temperature of greater than 350°F.

Yours truly,

NORTHEAST NUCLEAR ENERGY COMPANY

Wayne D. Romberg
Station Superintendent
Millstone Nuclear Power Station

WDR/RB:ejl

Attachment: LER RO 50-336/83-10/03X-1

cc: Dr. T. E. Murley, Region I

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ATTACHMENT TO LER 83-10/03X-1
NORTHEAST NUCLEAR ENERGY COMPANY
MILLSTONE NUCLEAR POWER STATION - UNIT 2
FACILITY OPERATING LICENSE NUMBER DPR-65
DOCKET NO. 50-336

Causing Description and Corrective Actions

During plant cooldown on 2 March 1983, the pressurizer spray water temperature differential exceeded the limit outlined in T.S.3.4.9.2.c., a maximum pressurizer spray water temperature differential of 350°F. This occurred while in Mode 4, with an RCS temperature of approximately 290°F, a steam space temperature of approximately 545°F and with RCS pressure less than 500 psig. At this RCS temperature, with only one RCP operating, there was insufficient pressurizer pressure control, such that when auxiliary spray was initiated, spray water temperature differentials of 367°F for a period of approximately 8 minutes and 391°F for a period of approximately 4 minutes occurred.

An engineering evaluation was performed on the pressurizer spray nozzle and the pressurizer spray piping to determine the effects on the out-of-limit condition on the fracture toughness properties of the pressurizer. It was determined that these transients did not compromise the structural integrity of the pressurizer spray nozzle or the pressurizer spray piping, and that the pressurizer remains acceptable for continued operation.

A Technical Specification change has been approved by the NRC. This change allows a greater pressurizer level span, which helps to increase the actual pressurizer cooldown while in Mode 3.