

UNITED STATES

ATOMIC ENERGY COMMISSIO DIRECTORATE OF REGULATORY OPERATIONS REGION 1

631 PARK AVENUE KING OF PRUSSIA, PENNSYLVANIA 19406

January 22, 1974

Those Listed Below:

ABNORMAL OCCURRENCES IN PIPING SYSTEMS

The enclosed RO Information Request (Enclosure 1) and sample instruction letter (Enclosure 2) were forwarded to the licensees

listed in Enclosure 3.

James P. O'Reilly

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Enclosures:

1. RO Information Request No. 74-I

2. Sample Letter

3. List of Licensees receiving RO Information Request No. 74-1

DISTRIBUTION: w/Addressee List

Deputy Director, FO, RO Assistant Director for RE&MP, RO Assistant Director for C&O, RO Branch Chief, FS&EB, RO Assistant Director for Plans and Programs, RO Director, L Deputy Director for Reactor Projects, L Deputy Director for Technical Review, L Assistant Director for Boiling Water Reactors, L (3 cys) Assistant Director for Pressurized Water Reactors, L (3 cys) Assistant Director for Operating Reactors, L (3 cys) Assistant Director for Environmental Projects, L (3 cys) R. F. Praley, ACRS RO Files DR Central Files NSIC D. L. Shannon, OIS

PDR

LPDR

Reg. Reg. Rdg. Rm.

Gentlemen:

The enclosed Directorate of Regulatory Operations' Information Request No. 74-1 is sent to you for response. Please submit your reply within thirty (30) days of the date of this letter to this office with a copy to the Assistant Director for Construction and Operation, Directorate of Regulatory Operations, U. S. Atomic Energy Commission, Washington, D. C. 20545.

Very truly yours,

James P. O'Reilly Director

Enclosure: RO Information Request No. 74-1

LIST OF LICENSEES

Docket No. 50-293 Boston Edison Company Attention: Mr. M. J. Feldmann, Vice President Director of Operations & Engineering 800 Boylston Street Boston, Massachusetts 02199 Docket No. 50-213 Connecticut Yankee Atomic Power Company Attention: Mr. D. C. Switzer President P. O. Box 270 Hartford, Connecticut 06101 Docket Nos. 50-3 Consolidated Edison Company Attention: Mr. William J. Cahill, Jr. 50-247 Vice President 4 Irving Place New York, New York 10003 Docket No. 50-219 Jersey Central Power & Light Company Attention: Mr. I. R. Finfrock, Jr. Vice President - Generation Madison Avenue at Punch Bowl Road Morristown, New Jersey 07960 Doc'et No. 50-309 Maine' Yankee Atomic Power Company Attention: Mr. Wendell Johnson Vice President 20 Turnpike Road Westboro, Massachusetts 01581 Docket No. 50-245 Millstone Point Company Attention: Mr. D. C. Switzer President P. O. Box 270 Hartford, Connecticut 06101 Docket Nos. 50-171 Philadelphia Electric Company 50-277 Attention: Mr. John L. Hankins Vice President, Electric Operations 2301 Market Street Philadelphia, Pennsylvania 19101 Docket No. 50-220 Niagara Mohawk Power Corporation

Attention: Mr. R. R. Schneider

300 Erie Boulevard West Syracuse, New York 13202

Vice President, Electric Operations

Rochester Gas & Electric Corporation
Attention: Mr. Keith W. Amish
Senior Vice President
Electric & Steam

89 East Avenue Rochester, New York 14649

Vermont Yankee Nuclear Power Corporation
Attention: Mr. D. E. Vandenburgh
Vice President
20 Turnpike Road
Westboro, Massachusetts 01581

Yankee Atomic Electric Company
Attention: Mr. L. E. Minnick
Vice President
20 Turnpike Road
Westboro, Massachusetts 01581

Docket No. 50-244

Docket No. 50-271

Docket No. 50-29

ENCLY RE Directorate of Regulatory Operations Information Request No. 74-1 ABNORMAL OCCURRENCES IN PIPING SYSTEMS The AEC has received notification of recent occurrences at the Indian Point 2 and San Onofre reactors which have resulted in damage to piping or piping hanger systems inside containment. Previously, reports of events resulting in unanticipated movement or damage to piping and hanger systems both inside and outside containment involving reactors of both PWR and BWR types have been received from licensees. These occurrences suggest that a pattern of events may be occurring which at individual facilities appear to be isolated events, but which in fact may have a common cause or causes and be generic in nature. It is possible that licensees have experienced other occurrences which may not have been of sufficient severity to have caused system damage, and may not have been considered reportable to the AEC under existing reporting requirements. To permit evaluation of these events for generic implications and the identification of possible common causes, information is requested regarding any event, condition, malfunction or operating error which has been observed or experienced at your facility since plant startup relating to the following:

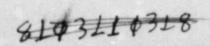
 Amomalous and excessive vibrations of piping and/or components in Quality Group A and B systems as defined in Regulatory Guide No. 1.26.

 Unanticipated pipe, component or structural displacements, plastic deformations, or damage to Quality Group A and B pipe or component support systems.

3. Malfunctions of control systems or components which resulted in the imposition of unanticipated dynamic forces upon Quality Group A or B piping systems or components.

With respect to each event identified above, the following information is requested:

- 1. The causes and operational sequences relevant to the condition or event.
- The corrective actions taken, such as replacement or modification of malfunctioning components, or the addition or modification of piping system restraints, to prevent the recurrence of the event.



In addition to the above items of interest there is another matter which may be related to events of the type under consideration. The AEC has learned of the existence at several PWR facilities of bulges in containment liners at locations adjacent to containment piping penetrations. To our knowledge these bulges have not affected containment integrity but their cause and significance are still being evaluated. To assist in further evaluation of this problem, please include in your response to this request information on any containment liner bulges observed at your facility that exceed the limits accepted following construction.