

3/25/81

*Region I*

LIST OF HOLDERS OF NUCLEAR POWER REACTOR OPERATING  
LICENSES AND CONSTRUCTION PERMITS RECEIVING  
IE INFORMATION NOTICE NO. 81-10

Baltimore Gas and Electric Company ATTN: Mr. A. E. Lundvall, Jr. Vice President, Supply P. O. Box 1475 Baltimore, Maryland 21203	Docket Nos. 50-317 50-318
Boston Edison Company M/C Nuclear ATTN: Mr. A. V. Morisi Nuclear Operations Support Manager 800 Boylston Street Boston, Massachusetts 02199	Docket No. 50-293
Connecticut Yankee Atomic Power Company ATTN: Mr. W. G. Council Vice President - Nuclear Engineering and Operations P. O. Box 270 Hartford, Connecticut 06101	Docket No. 50-213
Consolidated Edison Company of New York, Inc. ATTN: Mr. John D. O'Toole Assistant Vice President - Nuclear Affairs and Quality Assurance 4 Irving Place New York, New York 10003	Docket Nos. 50-03 50-247
Duquesne Light Company ATTN: Mr. C. N. Dunn Vice President Operations Division 435 Sixth Avenue Pittsburgh, Pennsylvania 15219	Docket No. 50-334
Jersey Central Power and Light Company ATTN: Mr. Ivan R. Finrock, Jr. Vice President Oyster Creek Nuclear Generating Station P. O. Box 388 Forked River, New Jersey 08731	Docket No. 50-219



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Maine Yankee Atomic Power Company ATTN: Mr. Robert H. Groce Senior Engineer-Licensing 1671 Worcester Road Framingham, Massachusetts 01701	Docket No. 50-309
Metropolitan Edison Company ATTN: Mr. H. D. Hukill Vice President and Director of TMI-1 P. O. Box 480 Middletown, Pennsylvania 17057	Docket No. 50-289
Metropolitan Edison Company ATTN: Mr. G. K. Hovey Vice President and Director of TMI-2 P. O. Box 480 Middletown, Pennsylvania 17057	Docket No. 50-320
Niagara Mohawk Power Corporation ATTN: Mr. T. E. Lempges Vice President Nuclear Generation 300 Erie Boulevard West Syracuse, New York 13202	Docket No. 50-220
Northeast Nuclear Energy Company ATTN: Mr. W. G. Council Senior Vice President - Nuclear Engineering and Operations P. O. Box 270 Hartford, Connecticut 06101	Docket Nos. 50-336 50-245 50-423
Philadelphia Electric Company ATTN: Mr. S. L. Daltroff Vice President Electric Production 2301 Market Street Philadelphia, Pennsylvania 19101	Docket Nos. 50-277 50-278
Power Authority of the State of New York Indian Point 3 Nuclear Power Plant ATTN: Mr. S. S. Zulla Resident Manager P. O. Box 215 Buchanan, New York 10511	Docket No. 50-286

Power Authority of the State of New York James A. FitzPatrick Nuclear Power Plant ATTN: Mr. R. J. Pasternak Resident Manager P. O. Box 41 Lycoming, New York 13093	Docket No. 50-333
Public Service Electric and Gas Company ATTN: Mr. F. W. Schneider Vice President - Production 80 Park Plaza - 15A Newark, New Jersey 07101	Docket Nos. 50-272 50-311
Rochester Gas and Electric Corporation ATTN: Mr. John E. Maier Vice President Electric and Steam Production 89 East Avenue Rochester, New York 14649	Docket No. 50-244
Vermont Yankee Nuclear Power Corporation ATTN: Mr. Robert L. Smith Licensing Engineer 1671 Worcester Road Framingham, Massachusetts 01701	Docket No. 50-271
Yankee Atomic Electric Company ATTN: Mr. James A. Kay Senior Engineer-Licensing 1671 Worcester Road Framingham, Massachusetts 01701	Docket No. 50-29
Duquesne Light Company ATTN: Mr. E. J. Woolever Vice President 435 Sixth Avenue Pittsburgh, Pennsylvania 15219	Docket No. 50-412
Jersey Central Power & Light Company ATTN: Mr. I. R. Finrock, Jr. Vice President 260 Cherry Hill Road Parsippany, New Jersey 07054	Docket No. 50-363
Long Island Lighting Company ATTN: Mr. M. S. Pollock Vice President - Nuclear 175 East Old Country Road Hicksville, New York 11801	Docket No. 50-322

Long Island Lighting Company ATTN: Mr. Charles P. Davis Senior Vice President 250 Old Country Road Mineola, New York 11501	Docket Nos. 50-516 50-517
Niagara Mohawk Power Corporation ATTN: Mr. Gerald K. Rhode Vice President System Project Management c/o Miss Catherine R. Seibert 300 Erie Boulevard, West Syracuse, NY 13202	Docket No. 50-410
Pennsylvania Power & Light Company ATTN: Mr. Norman W. Curtis Vice President Engineering and Construction - Nuclear 2 North Ninth Street Allentown, Pennsylvania 18101	Docket Nos. 50-387 50-388
Philadelphia Electric Company ATTN: Mr. John S. Kemper Vice President Engineering and Research 2301 Market Street Philadelphia, Pennsylvania 19101	Docket Nos. 50-352 50-353
Public Service Electric & Gas Company ATTN: Mr. T. J. Martin Vice President Engineering and Construction 80 Park Plaza - 17C Newark, New Jersey 07101	Docket Nos. 50-354 50-355
Public Service Company of New Hampshire ATTN: Mr. W. C. Tallman Chairman and Chief Executive Officer 1000 Elm Street Manchester, New Hampshire 03105	Docket Nos. 50-443 50-444
Rochester Gas & Electric Corporation ATTN: Mr. J. E. Arthur Chief Engineer 89 East Avenue Rochester, New York 14649	Docket No. 50-485

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

March 25, 1981

IE Information Notice No. 81-10: INADVERTENT CONTAINMENT SPRAY DUE TO  
PERSONNEL ERROR

Description of Circumstances:

On February 11, 1981 while in mode 5 (cold shutdown), an auxiliary unit operator at Sequoyah Unit 1 misunderstood a verbal instruction and opened a single valve in the residual heat removal (RHR) system. The opened valve created a direct flow path through the RHR system from the primary coolant system to the RHR containment spray header. A rapid primary system depressurization to atmospheric pressure resulted, and a total of about 110,000 gallons of water was sprayed into the containment from the primary system and from the refueling water storage tank (RWST).

Licensees and applicants should be aware of the following aspects of this event and should take appropriate steps to prevent a recurrence at their plant.

The auxiliary unit operator did not have adequate training or orientation at the particular duty station involved. A single valve at that station is part of the primary coolant system pressure boundary when using the residual heat removal (RHR) system for shutdown cooling. Thus, personnel/ administrative problems and a plant design feature combined to cause the event.

Design of the control room annunciators contributed to prolonging the event. The panel indicating emergency core cooling system (ECCS) valve positions is designed to warn when the ECCS is not properly aligned for the injection (safety) mode. When the first valve misalignment occurs, one light comes on in an otherwise dark field of indicators, and an alarm sounds and flashes. However, in the shutdown cooling mode, several valves are not in their injection mode position. Therefore, in the event at Sequoyah, the alarm light had already been on continuously for some time, the annunciator was not supposed to operate, and one more light coming "on" in a valve-position-indicating field with several lights already "on" was easily missed. The operators thus failed to detect the presence of the inadvertently opened valve for at least 35 minutes.

Lack of an ECCS initiation procedure for use in the shutdown cooling mode did not significantly delay recovery from this event, but potentially could have done so had the primary system been at a higher pressure. To provide injection flow for pressurizer level recovery, the operators opened the RHR system suction valve from the RWST, but they neglected to close the RHR system suction valves from the reactor coolant system (RCS). A proper procedure would require those latter valves to be closed to prevent reactor pressure from seating a

check valve in the RWST suction line, which would prevent the injection mode for the low-pressure (RHR) pumps from being effective and delay recovery from the event.

A similar problem with the borated water storage tank (BWST) check valve occurred at Crystal River 3 on July 16, 1980 while the unit was in Mode 5 with the decay heat system in use for shutdown cooling. Improper valve alignment on the decay heat system heat exchangers caused a rapid cooldown of the RCS which resulted in a loss of pressurizer level. When recovery was attempted by realigning the decay heat system suction to the BWST, injection flow could not be established until RCS pressure approached atmospheric conditions since the RCS suction valves remained open.

This problem would be particularly significant under a LOCA condition with the RCS temperature above boiling (Mode 4).

The information herein is being provided as an early notification of a possibly significant matter that is still under review by the NRC staff. Recipients should review the information for possible applicability to their facilities. If NRC evaluation so indicates, further licensee actions may be requested.

No written response to this information notice is required. If you need additional information regarding this matter, contact the Director of the appropriate NRC Regional Office.

Attachment:  
Recently issued IE Information Notices.

RECENTLY ISSUED  
IE INFORMATION NOTICES

Information Notice No.	Subject	Date Issued	Issued to
81-08	Repetitive Failure of Limitorque SMB-4 Motor-To-Shaft	3/20/81	All holders of a power reactor OL or CP
81-07	Potential Problems with Water-Soluble Purge Dam Materials Used During Inert Gas Welding	3/16/81	All holders of a power reactor OL or CP
81-06	Failure of ITE Model 600 Circuit Breaker	3/11/81	All holders of a power reactor
81-05	Degraded DC System at Palisades	3/13/81	All holders of a power reactor OL or CP
81-04	Cracking in Main Steam Lines	2/27/81	All holders of a power reactor OL or CP
81-03	Checklist for Licensees Making Notifications of Significant Events in Accordance with 10 CFR 50.72	2/2/81	All holders of a power reactor OL
81-02	Transportation of Radiography Devices	1/23/81	All holders of a radiography license
81-01	Possible Failures of General Electric Type HFA Relays	1/16/81	All holders of a power reactor OL or CP
80-45	Potential Failure of BWR Backup Manual Scram Capability	12/17/80	All holders of a power reactor OL or CP
80-44	Actuation of ECCS in the Recirculation Mode While in Hot Shutdown	12/14/80	All holders of a PWR power reactor OL or CP