

Region I
3/20/81

LIST OF HOLDERS OF NUCLEAR POWER REACTOR OPERATING
LICENSES AND CONSTRUCTION PERMITS RECEIVING
IE INFORMATION NOTICE NO. 81-08

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. Finfrock, 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 |

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| 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. Finfrock, 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 |

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| 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 |

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IN 81-08

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

March 20, 1981

IE INFORMATION NOTICE NO. 81-08: REPETITIVE FAILURES OF LIMITORQUE OPERATOR
SMB-4 MOTOR-TO-SHAFT KEY

Description of Circumstances:

During normal surveillance testing of motor-operated valves at the Cooper Nuclear Station, it was discovered that the RHR "B" loop suppression pool cooling inboard throttle valve would not operate. The valve did not operate because the key between the motor pinion gear and the motor shaft had failed. The operator for the valve has been identified as being Limitorque model SMB-4. Analysis of the failed key revealed that a standard type 1010 steel key had been installed instead of the required special type 4140 steel key.

Further review of the problem established that similar failures with motor-to-shaft keys had also taken place at the Pilgrim, Hatch, and Fitzpatrick nuclear power facilities.

Limitorque Company has performed an evaluation of the problem, and they have concluded that the problem is confined to operators having a torque rating in excess of 100 ft/lb. The standard type 1010 steel possesses adequate strength to accommodate motor operators having a torque rating that is less than 100 ft/lb.

Recommended Action for Holders of Operating Licenses and Construction Permits:

It is recommended that licensees having Limitorque Operator SMB-4 installed in their facilities verify that the special type 4140 steel keys have been used. This can be easily accomplished by performing a hardness check of the motor-to-shaft keys during the next scheduled surveillance testing.

No written response to this information notice is required. If you need additional information with regard to this subject, please 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 of Issue | Issued to |
|------------------------|--|---------------|--|
| 81-07 | Potential Problem with Water-Soluble Purge Dam Materials Used During Inert Gas Welding | 3/16/81 | All power reactor facilities; with an OL or CP |
| 81-06 | Failure of ITE Model K-600 Circuit Breaker | 3/11/81 | All power reactor facilities with an OL or CP |
| 81-05 | Degraded DC System at Palisades | 3/13/81 | All power reactor facilities with an OL or CP |
| 81-04 | Cracking in Main Steam Lines | 2/27/81 | All power reactor facilities with an OL |
| 81-03 | Checklist for Licensees Making Notifications of Significant Events in Accordance with 10 CFR 50.72 | 2/12/81 | All power reactor facilities with an OL |
| 81-02 | Transportation of Radiography Devices | 1/23/81 | All Radiography licensees |
| 81-01 | Possible Failures of General Electric Type HFA Relays | 1/16/81 | All power reactor facilities with an OL or CP. |
| 80-45 | Potential Failure of BWR Backup Manual Scram Capability | 12/17/80 | All PWR facilities with an OL or CP |
| 80-44 | Actuation of ECCS in the Recirculation Mode While in Hot Shutdown | 12/16/80 | All PWR facilities with an OL or CP |

OL = Operating Licenses
CP = Construction Permits