Region I

3/13/81

LIST OF HOLDERS OF NUCLEAR POWER REACTOR OPERATING
LICENSES AND CONSTRUCTION PERMITS RECEIVING
IE INFORMATION NOTICE NO. 81-05

Baltimore Gas and Electric Company — Docket Nos. 50-317, 50-318
ATTN: Mr. A. E. Lundvall, Jr.
Vice President, Supply
P. O. Box 1475
Baltimore, Maryland 21203

Boston Edison Company M/C Nuclear — Docket No. 50-293
ATTN: Mr. A. V. Morisi
Nuclear Operations Support Manager
800 Boylston Street
Boston, Massachusetts 02199

Connecticut Yankee Atomic Power Company — Docket No. 50-213
ATTN: Mr. W. G. Counsil
Vice President - Nuclear
Engineering and Operations
P. O. Box 270
Hartford, Connecticut 06101

Consolidated Edison Company of New York, Inc. — Docket Nos. 50-03, 50-247
ATTN: Mr. John D. O'Toole
Assistant Vice President - Nuclear
Affairs and Quality Assurance
4 Irving Place
New York, New York 10003

Duquesne Light Company — Docket No. 50-334
ATTN: Mr. C. N. Dunn
Vice President
Operations Division
435 Sixth Avenue
Pittsburgh, Pennsylvania 15219

Jersey Central Power and Light Company — Docket No. 50-219
ATTN: Mr. Ivan R. Finfrock, Jr.
Vice President
Oyster Creek Nuclear Generating Station
P. O. Box 388
Forked River, New Jersey 08731

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. Counsil
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. 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

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

Region I

SSINJ No.: 6835
Accession No.:
8011040271
IN 81-05

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

March 13, 1981

IE INFORMATION NOTICE NO. 81-05: DEGRADED DC SYSTEM AT PALISADES

Purpose:

The intent of this notice is to enhance nuclear power plant safety by improving the reliability of the direct current (dc) distribution system in nuclear power plants. Toward this end, this information notice alerts holders of operating licenses and construction permits of an event that degraded the dc system at the Palisades facility and jeopardized plant safety.

Description of Circumstances:

On January 6, 1981, while performing monthly surveillance tests on both station batteries, maintenance personnel inadvertently opened the breakers from both station batteries to their 125 volt dc buses and left them open for approximately one hour. We view this personnel error as a common-mode failure that, if left uncorrected, would lead to a complete station blackout [i.e., total loss of both alternating current (ac) and dc power].

Since the plant was in a normal mode of operation, dc power was being supplied by the ac system via the battery chargers; therefore, dc power was never interrupted during this period. Nevertheless, as described later, the safety of the plant was jeopardized. A loss of offsite power during this period would, in the absence of manual action, result in the loss of all control power, blocking the automatic transfer of power to the onsite diesel generators. In many designs, such losses would also block the starting of the diesels. In contrast, the Palisades design would not block the starting of the diesels; however, the loss of control power would block the connecting of the generators to their emergency buses so that a complete station blackout would still result. In either case, the blackout would persist until the battery breakers were manually reclosed or manual actions taken (e.g., manually closing the breakers from the diesel-generators to their emergency buses and the required down stream load breakers.) During this time the ability of the plant to remove decay heat would be severely restricted. Since the tripping of the battery breakers is not annunciated in the Palisades control room, a subsequent loss of offsite power would lead to an undetected common-mode failure. Such a failure would be difficult to diagnose, thereby limiting the operator's ability to take timely corrective action. Consequently, an inordinate amount of time could be required to bring the plant to a normal mode of decay heat removal.

Plants designed to conform with Regulatory Guide 1.47, "Bypassed and Inoperable Status Indication for Nuclear Power Plant Safety," will automatically alert the operator whenever a battery is disconnected from its bus, thereby precluding a Palisades type of event. As a corrective measure, Palisades is planning to install annunciators in the control room that will alert the operator whenever a station battery has been disconnected from its bus.

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 evaluations so indicate, further licensee actions may be requested.

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

Attachment:
Recently Issued IE Information Notices

Attachment 1
IN 81-05
March 13, 1981

RECENTLY ISSUED
IE INFORMATION NOTICES

Information Notice No.	Subject	Date Issued	Issued to
81-06	Failure of ITE Model K-600 Circuit Breaker	3/11/81	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
80-43	Failures of the Continuous Water Level Monitor for the Scram Discharge Volume at Dresden Unit No. 2	12/5/80	All holders of a BWR power reactor OL or CP
80-29 Supplement No. 1	Broken Studs on Terry Turbine Steam Inlet Flange	11/26/80	All holders of a power reactor OL or CP