

# REGULATORY DOCKET FILE COPY

October 30, 1980

Docket No. 50-311

US NRC  
DISTRIBUTION SERVICES  
BRANCH

1980 NOV 4 PM 12 42

RECEIVED DISTRIBUTION  
SERVICES UNIT

Mr. R. L. Mittl, General Manager  
Licensing and Environment  
Engineering and Construction Department  
Public Service Electric and Gas Company  
80 Park Place  
Newark, New Jersey 07101

Dear Mr. Mittl:

SUBJECT: ORDER FOR MODIFICATION OF LICENSE CONCERNING ENVIRONMENTAL  
QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT  
(SALEM NUCLEAR GENERATING STATION, UNIT NO. 2)

Reference (a): Commission Memorandum and Order of May 23, 1980 (80-CLI-21)  
Reference (b): Inspection and Enforcement Bulletin Supplement No. 2 to  
IEB-79-01B, September 30, 1980.

This letter transmits an Order for Modification of License which changes the License and Technical Specifications for Salem Nuclear Generating Station Unit No. 2. This change is a result of Reference (a) which required the staff to codify the documentation requirements for the qualification of safety-related electrical equipment. A copy of the Order is being filed with the Office of the Federal Register for publication.

The deadline of November 1, 1980 for submittal of the qualification information is not changed by this Order. Some additional information regarding the file is contained in Reference (b). Questions regarding this Order should be directed through your Project Manager.

Sincerely,

151

Frank Miraglia, Acting Chief  
Licensing Branch No. 3  
Division of Licensing

CP 3

60

Enclosure:  
Order for Modification  
of License, with Attachments

cc w/enclosure: 8011170098  
See next page

OFFICE	DL:LB3	DL:LB#3	OE:LD	DL:LB#2	DL:D
SURNAME	J. Lee:ph	JKerrigan	J. Noote	FMiraglia	MWilliams
DATE	10/21/80	10/.../80	10/28/80	10/28/80	10/.../80

Mr. R. L. Mittl

- 2 -

cc: Richard Fryling, Jr., Esq.  
Assistant General Counsel  
Public Service Electric & Gas Company  
80 Park Place  
Newark, New Jersey 07100

Mark Wetterhahn, Esq.  
Conner, Moore & Corber  
Suite 1050  
1747 Pennsylvania Avenue, N. W.  
Washington, D. C. 20006

Mr. Leif J. Norrholm  
c/o U. S. Nuclear Regulatory Commission  
Drawer I  
Hancocks Bridge, New Jersey 08038

Attorney General  
Department of Law & Public Safety  
State House Annex  
Trenton, New Jersey

State House Annex  
ATTN: Deputy Attorney General  
State of New Jersey  
36 West State Street  
Trenton, New Jersey 08625

Mr. Richard B. McGlynn, Commissioner  
Department of Public Utilities,  
State of New Jersey  
101 Commerce Street  
Newark, New Jersey 07102

President  
New Jersey Board of Public Utilities  
101 Commerce Street  
Newark, New Jersey 07102

The Honorable Samuel E. Donelson, Mayor  
Lower Alloways Creek Township  
Municipal Hall  
Hancock's Bridge, New Jersey 08038

Mr. Bruce Blanchard  
Environmental Projects Review  
Department of the Interior  
Room 4256  
18th and C Street, N.W.  
Washington, D.C. 20240

U.S. Environmental Protection Agency  
ATTN: Ms. Elizabeth V. Jankus  
Office of Environmental Review  
Room 2119M, A-104  
401 M Street, S.W.  
Washington, D.C. 20460

EIS Coordinator  
U.S. Environmental Protection Agency  
Region II Office  
26 Federal Plaza  
New York, New York 10007

Director, Criteria and Standards Division  
Office of Radiation Programs (ANR-460)  
U.S. Environmental Protection Agency  
Washington, D.C. 20460

Distribution:

Docket	J. Roe
NRC PDR	S. Norris
Local PDR	M. Williams
Branch File	OELD
NRR Reading	OI&E (3)
H. R. Denton	B. Jones (4)
E. G. Case	ACRS (16)
R. Hartfield, MPA	OPA (Clare Miles)
G. Bennington, MPA	NSIC
D. Eisenhut	TERA
R. Purple	Secretariat (SECY)
T. Novak	R. Diggs
R. Tedesco	J. Heltemes, AEOD
G. Lainas	Project Manager <u>JKerrigan</u>
J. Murray, OELD	Branch Chief <u>FMiraglia</u>
	Licensing Asst <u>JLee</u>

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of )  
 )  
PUBLIC SERVICE ELECTRIC AND GAS )  
COMPANY, ET. AL. )  
(Salem Nuclear Generating Station )  
Unit No. 2) )

Docket No. 50-311

ORDER FOR MODIFICATION OF LICENSE

I.

Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) are holders of License No. DPR 75, which authorizes the operation of the Salem Nuclear Generating Station, Unit No. 2 for testing at reactor core power levels not in excess of 171 megawatts thermal (five percent of rated power). The facility consists of a pressurized water reactor located at the licensees' site in Salem County, New Jersey.

II.

On November 4, 1977, the Union of Concerned Scientists (UCS) filed with the Commission a "Petition for Emergency and Remedial Relief." The petition sought action in two areas: fire protection for electrical cables, and environmental qualification of electrical components. By Memorandum and Order dated April 13, 1978 (7 NRC 400), the Commission denied certain aspects of the petition and, with respect to other aspects, ordered the NRC staff to take several related actions. UCS filed a Petition for Reconsideration on May 2, 1978. By Memorandum and Order dated May 23, 1980, the Commission reaffirmed its April 13, 1978 decision regarding the possible shutdown of operating reactors. However, the Commission's

OFFICE ▶						
SURNAME ▶	8011170		109			
DATE ▶						

May 23, 1980 decision directed licensees and the NRC staff to undertake certain actions.

With respect to environmental qualification of safety-related electrical equipment, the Commission determined that the provisions of the two staff documents - the Division of Operating Reactors "Guidelines for Evaluating Environmental Qualification of Class IE Electrical Equipment in Operating Reactors" (DOR Guidelines) and NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment," December 1979 (copies attached) "form the requirements which licensees and applicants must meet in order to satisfy those aspects of 10 CFR Part 50, Appendix A General Design Criterion (GDC-4), which relate to environmental qualifications of safety-related electrical equipment." The Commission directed, for replacement parts in operating plants, "unless there are sound reasons to the contrary, the 1974 standard in NUREG-0588 will apply." The Commission also directed the staff to complete its review of the information sought from licensees by Bulletin 79-01B<sup>1</sup> and to complete its review of environmental qualification of safety-related electrical equipment in all operating plants, including the publication of Safety Evaluation Reports, by February 1, 1981. The Commission imposed a deadline that, "by no later than June 30, 1982 all safety related electrical

<sup>1</sup>  
Bulletin 79-01B was not sent to licensees for plants under review as part of the staff's Systematic Evaluation Program. The information sought by Bulletin 79-01B was requested from these licensees by a series of letters and meetings during the months of February and March, 1980.

OFFICE						
SURNAME						
DATE						

equipment in all operating plants shall be qualified to the DOR Guidelines or NUREG-0588." The Commission requested the staff to "keep the Commission and the public apprised of any further findings of incomplete environmental qualification of safety-related electrical equipment, along with corrective actions taken or planned," and requested the staff to provide bi-monthly progress reports to the Commission.

The Commission further directed that, "In order to leave no room for doubt on this issue, the staff is to prepare additional Technical Specifications for all operating plants which codify the documentation requirement paragraph of the Guidelines (paragraph 8.0)." The staff was directed to add these documentation requirements to each license after they were approved by the Commission.

The Commission also pointed out that the various deadlines imposed in its Order, "do not excuse a licensee from the obligation to modify or replace inadequate equipment promptly."

III.

The Commission has approved the provisions of the license condition set forth in Section IV below which specify documentation requirements and which specifically impose on the licensee the requirement of the Commission's May 23, 1980 Memorandum and Order that by no later than June 30, 1982 all safety-related electrical equipment shall be qualified to the DOR Guidelines or NUREG-0588.

OFFICE ▶	.....	.....	.....	.....	.....	.....
SURNAME ▶	.....	.....	.....	.....	.....	.....
DATE ▶	.....	.....	.....	.....	.....	.....

The information developed during the Commission review of the UCS Petition emphasizes the importance of prompt completion of the upgrading of environmental qualification of safety-related electrical equipment to conform to the DOR Guidelines or NUREG-0588 and of adequate documentation of equipment qualifications. The deadlines set forth in the Commission's Memorandum and Order dated May 23, 1980, assure that such upgrading will be accomplished promptly. In order to assure prompt completion of necessary qualification work or replacement of unqualified components, if necessary, in conformance with the requirements of the Commission's Memorandum and Order dated May 23, 1980, and to provide complete and adequate documentation as promptly as possible, such upgrading and documentation work must commence immediately. Therefore, I have concluded that the public health, safety and interest require this Order for Modification of License to be effective immediately.

IV.

Accordingly, pursuant to the Atomic Energy Act of 1954, as amended, and the Commission's Rules and Regulations in 10 CFR Parts 2 and 50, IT IS ORDERED THAT EFFECTIVE IMMEDIATELY License No. DPR-75 is hereby amended to add the following license conditions 2.C.(7) and 2.C.(8) and Appendix A Technical Specification 6.10.2.1.:

License Conditions

2.C.(7) "By no later than June 30, 1982, all safety-related electrical equipment in the facility shall be qualified in accordance with the provisions of: Division of Operating Reactors "Guidelines

for Evaluating Environmental Qualification of Class 1E Electrical

OFFICE  
SIGNATURE  
DATE

Equipment in Operating Reactors" (DOR Guidelines); or NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment," December 1979. Copies of these documents are attached to Order for Modification of License No. DPR-75 dated OCT 30 1980.

2.C.(8) "By no later than December 1, 1980, complete and auditable records must be available and maintained at a central location which describe the environmental qualification method used for all safety-related electrical equipment in sufficient detail to document the degree of compliance with the DOR Guidelines or NUREG-0588. Thereafter, such records should be updated and maintained current as equipment is replaced, further tested, or otherwise further qualified."

Appendix A Technical Specifications

6.10.2.1 Records for Environmental Qualification which are covered under the provisions of paragraph 2.C.(8) of License DPR-75."

To effectuate the foregoing, appropriate pages for incorporation into the License and the Appendix A Technical Specifications are attached to this Order.

V.

The licensees or any person whose interest may be affected by this Order may request a hearing within 20 days of the date of publication of this Order

OFFICE ▶						
SURNAME ▶						
DATE ▶						



in the Federal Register. Any request for a hearing will not stay the effective date of this Order. Any request for a hearing shall be addressed to the Director, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555. A copy of the request should also be sent to the Executive Legal Director, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, and to Mark Wetterhahn, Esq., Conner, Moore & Cober, 1747 Pennsylvania Avenue, N. W., Suite 1050, Washington, D. C. 20006 and Richard Fryling, Jr., Esq., Assistant General Counsel, Public Service Electric and Gas Company, 80 Park Place, Newark, New Jersey 07100, attorneys for the licensees.

If a hearing is held concerning this Order, the issues to be considered at the hearing shall be:

- a. whether the licensee should be required to have the environmental qualification records referred to in Section IV, above, available at a central location by no later than December 1, 1980; and
- b. whether all safety-related electrical equipment should be qualified as required in Section IV, above, by no later than June 30, 1982.

OFFICE ▶						
SURNAME ▶						
DATE ▶						

Operation of the facility on terms consistent with this Order is not stayed by the pendency of any proceedings on the Order.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by  
R. A. Purple

for/ Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Effective Date:  
Bethesda, Maryland

Attachments:

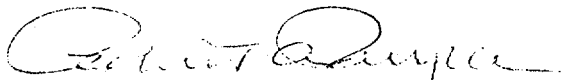
1. License and Technical Specification Pages for this Order
2. Guidelines for Evaluating Environmental Qualification of Class IE Electrical Equipment in Operating Reactors
3. NUREG-0588, Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment.

*Je 24 Oct 80*

OFFICE	DL:LB#3	DL:LB#3	OELD	DL:LB#3	DL:LB#2	DL:LB#1
SURNAME	J. Lee	Herrigan	SW	DiRaglia	Williams	Eisenhut
DATE	10/24/80	10/27/80	10/ /80	10/24/80	10/24/80	10/30/80

Operation of the facility on terms consistent with this Order is not stayed by the pendency of any proceedings on the Order.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Purple, Acting Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Effective Date: October 30, 1980  
Bethesda, Maryland

Attachments:

1. License and Technical Specification Pages for this Order
2. Guidelines for Evaluating Environmental Qualification of Class IE Electrical Equipment in Operating Reactors
3. NUREG-0588, Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment.