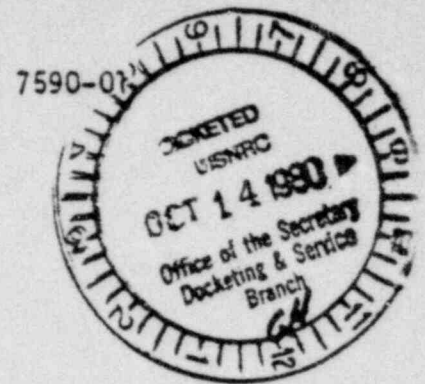


UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION



In the Matter of Commonwealth Edison)
Company)
Dresden Nuclear Power Station,)
Unit No. 1)

Docket No. 50-10

REVISED ORDER FOR MODIFICATION OF LICENSE

I.

Commonwealth Edison Company (the licensee) is the holder of Facility Operating License No. DPR-2, which authorizes the operation of the Dresden Nuclear Power Station, Unit No. 1 at steady-state reactor power levels not in excess of 700 megawatts thermal (rated power). The facility consists of a boiling water reactor located at the licensee's site in Grundy County, Illinois.

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

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regarding the possible shutdown of operating reactors. However, the Commission's 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 1E Electrical Equipment in Operating Reactors" (DOR Guidelines) and NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment," December 1979 "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 qualification 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 79-01B¹ 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

¹Bulletin 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.

imposed a deadline that, "by no later than June 30, 1982 all safety-related electrical 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 the staff to add certain documentation requirements to each license after the specific requirements 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 information developed during this proceeding emphasizes the importance of adequate documentation, the prompt completion of the review of environmental qualification of safety-related electrical equipment, and the prompt completion of any plant modification needed to assure conformance with the DOR Guidelines or NUREG-0588. A significant aspect of this review is the timely submittal of environmental qualification information by the operating plant licensees to enable the staff to complete its review in accordance with the Commission's Order. The staff has a program presently underway to reevaluate, using the DOR Guidelines and NUREG-0588, the qualifications of safety-related electrical equipment exposed

to environments that may exist following postulated accidents. These accidents are Loss of Coolant Accident and Main Steam Line Break inside containment, and High Energy Line Breaks inside and outside containment.

In this connection the licensee was requested by our letter of March 6, 1980, as modified by our letter of March 28, 1980, to provide information on emergency procedures and safety related systems. The licensee was requested to define and provide the basis for the hostile environment, inside and outside containment. This hostile environment would then be used, by the licensee, in the determination of unqualified equipment. A complete package, including justification for methods used, was requested.

Clarification was provided by supplemental information, briefings, and in some cases, meetings with the licensee. Timely completion of the staff's review of environmental qualification of electrical equipment and timely completion of needed modifications by the licensee is required to provide continuing reasonable assurance of public health and safety. Such completion is dependent on the prompt receipt of a complete response by the licensee to the staff's requests for information. However, the licensee's response, to date, is incomplete.

Therefore, I have concluded that the public health, safety, and interest require that a firm schedule for the timely submission of all the information previously requested by the staff should be established by Order effective immediately.

IV.

Accordingly, pursuant to the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS ORDERED THAT EFFECTIVE IMMEDIATELY Facility Operating License No. DPR-2 is hereby amended to add the following provisions:

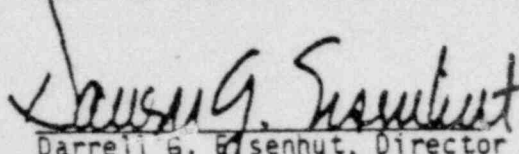
"Information which fully and completely responds to the staff's request as specified in NRC's letters dated March 6, 1980, and March 28, 1980, shall be submitted to the Director, Division of Licensing by the licensee not later than November 1, 1980."

An earlier response is encouraged to facilitate staff review and issuance of the safety evaluation report. The licensee 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 Revised Order in the Federal Register. 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 Isham, Lincoln & Beale, Counselors at Law, One First National Plaza, 42nd Floor, Chicago, Illinois 60603, attorney for the licensee.

If a hearing is held concerning this Order, the issue to be considered at the hearing shall be whether the license should be modified to require submission of information as set forth in Section IV. of the Order.

Operating of the facility on terms consistent with this Order is not stayed by the pendency of any proceedings on the Order. This Order revises, in its entirety, the Order issued August 29, 1980 (45 FR 60065 , September 11, 1980).

FOR THE NUCLEAR REGULATORY COMMISSION


Darrell G. Esenhut, Director
Division of Licensing

Effective Date: September 19, 1990
Bethesda, Maryland

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

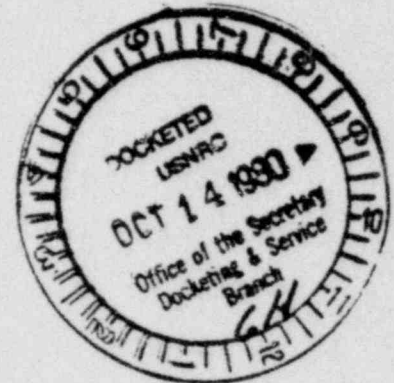
IN THE MATTER OF COMMONWEALTH)
EDISON COMPANY)
DRESDEN NUCLEAR POWER STATION,)
UNIT NO. 1)

Docket No. 50-10

STATE OF ILLINOIS)
COUNTY OF C O O K)

SS.

AFFIDAVIT OF
NEIL P. SMITH



My name is Neil P. Smith. I hold a degree in Engineering from the University of Illinois and a MBA from the University of Chicago, and am currently employed as a Senior Engineer in the Station Nuclear Engineering Department of Commonwealth Edison Company with responsibility for supporting the NRC's Systematic Evaluation Program (SEP) for Dresden Units 1 and 2. These responsibilities include initiation and review of all engineering studies to answer NRC questions concerning SEP related matters.

In Mr. Crutchfield's August 8, 1980 letter to Mr. D. L. Peoples, Commonwealth Edison was informed it had to provide a response to the environmental qualification

accelerated schedule. The information on environmental

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No. of pages: 4

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION



In the Matter of)
COMMONWEALTH EDISON COMPANY) Docket No. 50-10
Dresden Nuclear Power Station)
Unit 1 (Environmental)
Qualification))

REQUEST FOR HEARING

Commonwealth Edison Company ("Commonwealth") holds NRC operating licence DPR-2 relating to Dresden Nuclear Power Station, Unit 1, located in Grundy County, Illinois. On September 19, 1980, the Director, Division of Licensing entered the attached "REVISED ORDER FOR MODIFICATION OF LICENSE" requiring the submission to the NRC by November 1, 1980 of certain information in respect of environmental qualification of electrical equipment at that facility.^{1/} Commonwealth hereby requests a hearing to consider amending the Director's REVISED ORDER to provide that the requested information may be submitted a reasonable period of time prior to start-up of Dresden Unit 1, presently scheduled for June 1986.

^{1/} The Director, Division of Licensing originally entered an "Order for Modification of License" dated August 29, 1980. However, that Order contained incorrect references and was revised on September 19, 1980, resulting also in an extension of the time within which a hearing could be requested.

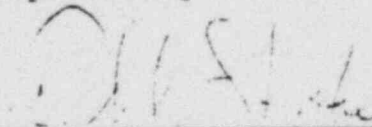
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The justification for this request is shown in the attached affidavit of Neil P. Smith.

Concurrently with this Request for Hearing, Commonwealth is filing with the Commission a Petition for Exemption pursuant to 10 CFR §50.12 asking relief from the environmental qualification requirements and deadlines set forth in the Commission's Memorandum and Order dated May 23, 1980, as they apply to Dresden Unit 1. A copy of the Petition for Exemption is enclosed. In the event the Commission acts favorably and in a timely manner with respect to the Petition for Exemption, Commonwealth will withdraw this Request for Hearing. However, in view of the short time remaining until November 1, 1980, Commonwealth requests that a Licensing Board be established promptly and hereby moves that the Licensing Board immediately suspend the effectiveness of the Director's Revised Order, so that Commonwealth will not be in violation of the Director's REVISED ORDER in the event the Commission is unable to consider Commonwealth's Petition for Exemption prior to that date.

Respectfully submitted,



One of the Attorneys
for Commonwealth Edison Company

ISHAM, LINCOLN & BEALE
Suite 4200
One First National Plaza
Chicago, Illinois 60603
(312) 558-7500

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION



In the Matter of)
)
COMMONWEALTH EDISON COMPANY) Docket No. 50-10
)
Dresden Nuclear Power Station,)
Unit 1)
(Environmental Qualification))

PETITION FOR EXEMPTION

Commonwealth Edison Company ("Commonwealth") holds NRC operating license DPR-2 relating to Dresden Nuclear Power Station, Unit 1, located in Grundy County, Illinois. In 1978 Dresden Unit 1 was shut down for certain safety backfits and chemical cleaning. In 1980 Commonwealth decided to defer restart of Dresden Unit 1 due to present uncertainties regarding requirements arising from the accident at Three Mile Island and from the NRC's Systematic Evaluation Program, and because of existing corporate short-term cash flow deficiencies. Commonwealth has brought to a halt all engineering and construction activities related to Dresden Unit 1, other than the chemical cleaning project, which has been maintained in a state of readiness pending NRC approval. However, it appears that Commonwealth needs Commission approval to delay environmental qualification of Dresden Unit 1 electrical

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No. of pages: 4

UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D. C. 20555

August 8, 1980



Mr. D. Louis Peoples
 Director of Nuclear Licensing
 Commonwealth Edison Company
 Post Office Box 767
 Chicago, Illinois 60690

Dear Mr. Peoples:

RE: ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT

- References: (1) March 28, 1980 letter from Dennis L. Ziemann to D. L. Peoples
 (2) May 1, 1980 letter from Robert F. Janecek to Dennis L. Ziemann
 (3) May 6, 1980 letter from D. L. Peoples to Paul W. O'Connor

In a previous letter (Ref. 1) we requested that certain containment related information either be provided or referenced by May 1, 1980. This request, part of the accelerated environmental qualification (E.Q.) review, was to obtain information that could be used in defining equipment's post-incident service environment. In lieu of providing the information requested, you stated (Ref. 2) that submittal of this information at a later date would be more appropriate. You indicated that the Dresden Unit 1 plant was currently shutdown for an extended period undergoing a major retrofit program modifying both the emergency core cooling and reactor protection systems. In addition, to the hardware modifications, you stated that new analyses of core behavior and new operating procedures were to be developed. As a result, responses to our request would be forthcoming as those tasks were completed.

The Commission's Memorandum and Order of May 23, 1980 provided a schedule for completion of the environmental qualification reviews of all facilities. Although responses to our request might be more accurately addressed during the later stages of the retrofit effort, we find that the retrofit schedule is not compatible with the Commission's schedule. This letter is to inform you that Dresden Unit 1 will not be handled any differently than any other SEP plant. You should submit the requested information on a schedule compatible with our EQ needs. Should you believe this is not an appropriate schedule, you may exercise your option to petition the Commission for an exemption from the requirements provided in the May 23, 1980 Order.

Sincerely,

Walter A. Paulsen

for Dennis M. Crutchfield, Chief
 Operating Reactors Branch #5
 Division of Operating Reactors

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