

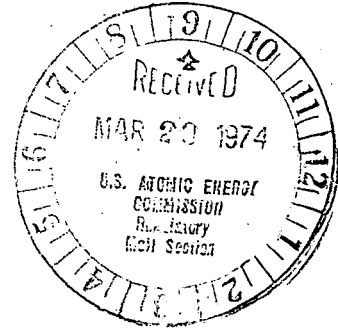


Commonwealth Edison
 One First National Plaza, Chicago, Illinois
 Address Reply to: Post Office Box 767
 Chicago, Illinois 60690

Regulatory

File On

March 13, 1974



Mr. Paul F. Collins, Chief
 Operator Licensing Branch
 Directorate of Licensing
 Office of Regulation
 U.S. Atomic Energy Commission
 Washington, D.C. 20545

Subject: Dresden, Quad-Cities and Zion Stations -
 Supplement to Requalification Program for
 Licensed Reactor Operators, Senior Operators
 and Fuel Handling Foremen - AEC Dkt Nos.
 50-10, 60-237, 50-249, 50-254, 50-265,
 50-295 and 50-304

Dear Mr. Collins:

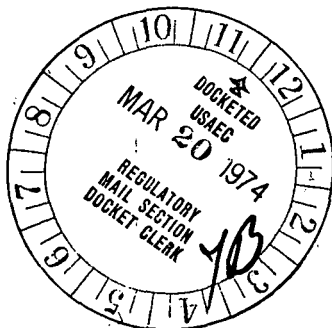
Attached is the subject supplement which responds to your letter dated February 1, 1974 (received February 8, 1974). The numbering of the responses in the supplement corresponds to the numbering of Attachment A to your letter. This supplement has been incorporated into the operator requalification program as of the date of this letter.

One signed original and 79 copies of this report are submitted for your use.

Very truly yours,

R. Twetten
 For J. S. Abel
 Nuclear Licensing Administrator
 Boiling Water Reactors

Att.



SUPPLEMENT TO REQUALIFICATION PROGRAM FOR LICENSED
REACTOR OPERATORS, SENIOR REACTOR OPERATORS AND FUEL
HANDLING FOREMEN - COMMONWEALTH EDISON COMPANY

Answer to AEC Request for Additional Information
Docket Nos. 50-10, 50-237, 50-294, 50-254
50-265, 50-295 and 50-304

- I. C. Yes. The course description of plant operating and/or fuel handling procedures was intended to include normal, abnormal and emergency procedure review.
- III. A. A separate list of manipulations are included in Appendix A (BWR) and B (PWR). The last paragraph of section III. A. states that these operations will be representative of all units for which the licensee is licensed. It is also our intent that a startup is to the point of adding heat and a shutdown means an orderly plant shutdown. In addition, we will comply with your recommendation that an individual licensed for all three Dresden units will perform at least three and no more than five manipulations on D-1 Unit.
- IV. A. A minimum grade of 75% shall be the criterion used to determine that an individual has learned the material presented in the lectures. Achieving a grade of less than 75% will necessitate the individual repeat the material presented in the lecture. This criterion is greater than that required for passing an AEC license examination.
- IV. B. The reservation for administering an annual examination on more than one day was made to prevent a licensee from writing an examination for more than eight hours on the same day and to allow licensed staff personnel to spend part of the day attending to their normal duties. Our intent is to administer the examination on one day or two consecutive days. In the event of an examination on more than one day, the sections would be separated to prevent the examinee from seeing the content of the examination beforehand.

In addition, we shall include in our requirements that an individual achieving a grade of less than 75% in any category shall attend a lecture in that subject.

Also, we have considered your recommendation for an individual scoring less than 70% on the annual written examination. The licensee in question shall be placed in an accelerated requalification program, the scope and duration of which shall be determined by station management based on the individuals deficiencies.

- IV. C. It is our intention that an oral examination shall be administered at least once during each two year licensed interval.

- VI. A. Lectures considered appropriate for fuel handlers in Item I are as follows:
- I. A. Review of terminology, reactor theory, rod worth, core loading physics and calculations.
 - B. Review of AEC and Edison standards, control methods, monitoring equipment, waste disposal systems when pertaining to the Fuel Pool systems, calculations for dose and shielding.
 - C. Fuel handling procedures.
 - D. The station emergency plan and all items directly related to fuel handling indicated in the documents listed in this series.
 - E. Plant Modifications directly or indirectly related to the performance and maintenance of fuel handling operations or equipment.
 - F. FSAR transients, operating experience, incident review related to fuel handling.
 - G. Plant instrumentation, systems and engineered safeguards related to fuel handling operations or vessel internals.
 - H. Open lectures such as a briefing prior to refuel operations.
- VII. A. The Station Superintendent at each Commonwealth Edison Company Nuclear Power Station has delegated to the Training Supervisor responsibility for implementing the requalification program for the station.

APPENDIX A

BWR Manipulations for which credit will be taken in
Item III. A. of Requalification Program

1. Plant startup - subcritical to the point of adding heat.
2. Orderly plant shutdown - power to subcritical.
3. Power changes which demonstrate skill and/or familiarity with reactivity control systems.
4. Core Physics Tests as follows:
 - Shutdown Margin Test
 - Rod Worth Test
 - Moderator Coefficient Test
 - Power Coefficient Test

APPENDIX B

PWR Manipulations for which credit will be taken in
Item III. A. of Requalification Program

1. Plant startup - subcritical to the point of adding heat.
2. Orderly plant shutdown - power to subcritical.
3. Power changes which demonstrate skill and/or familiarity with reactivity controls.
4. Boration or dilution of greater than 50 ppm (approximately 0.5% $\Delta k/k$) while critical.
5. Core Physics Tests as follows:

Shutdown Margin Test
Rod Worth Test
Temperature coefficient Test
Power Coefficient Test
Boron Worth Test