



UNITED STATES
NUCLEAR REGULATORY COMMISSION
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February 8, 2001

MEMORANDUM TO: File Center

FROM: Lawrence W. Rossbach, Project Manager, Section 2
Project Directorate III. *[Signature]*
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: DRESDEN AND QUAD CITIES - EXTENDED POWER UPRATE HUMAN
FACTORS ACCEPTANCE REVIEW QUESTIONS (TAC NOS. MB0842,
MB0843, MB0844 AND MB0845)

On December 27, 2000, Exelon Generation Company (EGC, the licensee, formerly Commonwealth Edison Company) submitted a license amendment request for an extended power uprate (EPU) for the Dresden and Quad Cities nuclear power stations. Our acceptance review of the application identified what appeared to be a serious deficiency in information supporting the licensee's assessment in the fundamental area of human factors. The attached questions identify information needed by the staff to begin their assessment in the human factors area. These questions were telecopied to the licensee on January 29, 2001. These questions were discussed with the licensee by telephone on January 30, 2001, at which time the licensee stated that they would provide supplemental information in this area.

Docket Nos. 50-237, 50-249, 50-254, and 50-265

Attachments: Human Factors Questions

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6.0 HUMAN FACTORS

6.1 Changes in Emergency and Abnormal Operating Procedures

Describe how the proposed power uprate will change the plant emergency and abnormal procedures.

6.2 Changes to Risk-Important Operator Actions Sensitive to Power Uprate

Describe any new risk-important operator actions required as a result of the proposed power uprate. Describe changes to any current risk-important operator actions that will occur as a result of the power uprate. Explain any changes in plant risk that result from changes in risk-important operator actions.

(e.g., Identify operator actions that will require additional response time or will have reduced time available. Identify any operator actions that are being automated as a result of the power uprate. Provide justification for the acceptability of these changes).

6.3 Changes to Control Room Controls, Displays and Alarms

Describe any changes the proposed power uprate will have on the operator interfaces for control room controls, displays and alarms. For example, what zone markings (e.g. normal, marginal and out-of-tolerance ranges) on meters will change? What set points will change? How will the operators know of the change? Describe any controls, displays, alarms that will be upgraded from analog to digital instruments as a result of the proposed power uprate and how operators were tested to determine they could use the instruments reliably.

6.4 Changes on the Safety Parameter Display System

Describe any changes the proposed power uprate will have on the Safety Parameter Display System. How will the operators know of the changes?

6.5 Changes to the Operator Training Program and the Control Room Simulator

Describe any changes the proposed power uprate will have on the operator training program and the plant reference control room simulator, and provide the implementation schedule for making the changes.