

**From:** Lawrence Rossbach  
**To:** Allan.haeger@Exeloncorp.com  
**Date:** 7/7/01 6:55PM  
**Subject:** PSA audit plan for July 24 -26

Our review of the Dresden and Quad Cities extended power uprate (EPU) amendment requests and risk-informed in-service inspection (RIISI) relief requests has identified the need to review areas of your probabilistic safety assessment (PSA) models and update processes. We believe this could be done most effectively by NRC staff conducting an audit at your Warrenville, Illinois offices. Attached is a plan for this audit. Please let me know if you would like a call to discuss this plan.

**CC:** Anthony Mendiola; Donald Harrison; Mark Ring; Mark Rubin; Stephen Dinsmore; Stewart Bailey

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

# **DRESDEN & QUAD CITIES PSA RISK-INFORMED APPLICATIONS AUDIT**

Exelon Offices  
Cantera Office Complex  
Ferry Road  
Warrenville, IL

## **SCHEDULE**

Start Audit with Exelon - Morning of July 24, 2001

Discuss purpose and plan of audit

Overview by Exelon of their PSA, PSA peer review findings and observations, and their PSA maintenance, quality program, and update processes

Audit - July 24 & 25 (Exelon staff should be available if needed)

Conclude Audit with Exelon - Morning of July 26, 2001

Discuss general results of audit

Discuss follow-on activities

## **SCOPE OF AUDIT**

Determine that the PSA peer review process was fully utilized and that the PSA update procedures and practices provide assurance that the PSA results used in support of risk informed licensing actions represent the current construction and operational experience of the plant. To the extent practicable, the PSA models and results associated with the following submittals will be selected to illustrate the use of the peer review and PSA update processes:

1. Extended power uprate risk insights
2. Risk-Informed Inservice Inspection

## **NEEDED REFERENCE MATERIALS FOR BOTH DRESDEN AND QUAD CITIES**

1. Current PSA models and supporting documentation (including system notebooks, human error probabilities methods and documentation, plant-specific data documentation, success criteria documentation, and related thermal-hydraulic analyses)
2. Extended power uprate PSA models and supporting documentation (including evaluations of initiating event frequencies, success criteria, operator responses, component reliability, shutdown risks, external events, supporting thermal-hydraulic analyses, and the overall change in risk)
3. PSA models used in risk-informed licensing actions (if different than last PSA update model) and supporting documentation
4. PSA Peer Review/Certification documentation
5. Plant/Corporate PSA-related procedures and processes (covering documentation, quality program, maintenance and update, data, and plant - PSA interfaces)
6. Documentation of revisions made to (or planned for) PSA models
7. Documentation of plant modifications or operational changes identified, screened, and considered in (or planned for) updating PSA
8. Documentation of and data sources used to update initiating event frequencies, component failure rates, and maintenance/testing outage rates (including relationship with plant maintenance rule performance criteria)