

May 1, 1996



U.S. Nuclear Regulatory Commission  
Washington, DC, 20555

Attn: Document Control Desk

Subject: LaSalle County Nuclear Power Station Units 1 and 2  
Quad Cities Nuclear Power Station Units 1 and 2  
Fuel Vendor Transition Schedule Update  
NRC Docket Nos. 50-373/374 and 50-254/265

- Reference
1. Conference Call on Sept. 15, 1994 between ComEd (G. Benes, J. Silady, et al.), NRR (R. Pulsifer, L. Phillips, et al.), and SPC (R. Copeland, et al.)
  2. Letter, G. Benes to USNRC dated Nov. 14, 1994, on "Fuel Vendor Transition for Post-1995 Reloads" for LaSalle and Quad Cities Nuclear Power Stations (Docket Nos. 50-373, 374, 254, and 265)
  3. Letter, R. Querio to USNRC dated April 8, 1996 submitting the preparatory license amendment to support the fuel vendor transition for LaSalle Units 1 and 2 (Docket Nos. 50-373, 374)
  4. Letter, G. Benes to USNRC dated March 8, 1996 submitting SPC report EMF-96-021(P) Revision 1, February 1996

This letter provides an updated schedule for the licensing actions necessary to support the transition of the subject units to fuel supplied by Siemens Power Corporation (SPC). These actions were initially outlined for the NRR Project Manager, Reactor Systems Branch staff and a representative of Region III during the Reference 1 conference call. Both the technical and scheduler considerations of the licensing plan were discussed and it was viewed as a reasonable approach.

The tentative schedule was also subsequently transmitted for the Staff's information and resource planning purposes in Reference 2. As indicated in the conference call and follow-up letter, the dates shown were subject to change due to the ComEd system-wide outage scheduling requirements. The company's Overhaul Scheduling Committee subsequently made several changes, for example, as a result of the extended outages at Dresden and Quad Cities. The originally scheduled Fall 1996 refuel outage for the initial SPC reload for Quad Cities Unit 2 Cycle 15 has been rescheduled to begin in February 1997 with a targeted restart date in early April 1997 (i.e. start-up five months later than original tentative schedule). In contrast, the initial start-up with SPC fuel for LaSalle Unit 2 Cycle 8 is now targeted for late November 1996 (one month earlier than originally anticipated).

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The preparatory amendment for the LaSalle units was recently submitted in Reference 3. A similar amendment for Quad Cities is targeted for submittal to the NRC in June 1996. As discussed in References 1 and 2, cycle-specific analyses are performed by SPC to confirm the value of the Minimum Critical Power Ratio (MCPR) safety limit. The potential need for a supplemental change to the safety limit value is not likely, but remains as a scheduled confirmation following the preparatory amendment. The cycle-specific MCPR safety limit confirmation was completed for LaSalle Unit 2 prior to the Reference 3 submittal.

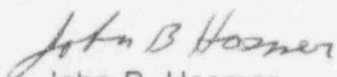
In response to generic questions from the NRR Reactor Systems Branch to the fuel vendors concerning mixed core Critical Power Ratio (CPR) treatment of co-resident fuel, Siemens supplemented the Licensing Topical Report on their CPR methods in November 1995. In a meeting early this year, NRR also requested plant specific submittals concerning this topic for reactors undergoing fuel vendor transitions in the near term. This was provided for LaSalle Unit 2 in Reference 4 with a similar submittal planned for Quad Cities Unit 2 by June 1996.

This letter also confirms the tentative plans discussed in Reference 1 for transitioning to Siemen's POWERPLEX core monitoring system from the current General Electric CMC software. Attachment 1 summarizes the approach that is being used to accomplish this transition, which has not changed since the Reference 1 interaction.

Finally, Attachment 2 provides the status of the licensing plan in tabular form with updated targets for the remaining key milestones. Commonwealth Edison plans to apply 10CFR50.59 to other aspects of the reload transition as discussed in Reference 1. ComEd appreciates the support required from the NRR Staff in reviewing the preparatory amendments on the needed schedules.

Please contact Gary Benes of the corporate Nuclear Licensing Staff if additional information is required. Meetings or conference calls can be arranged at your Staff's convenience to facilitate the necessary reviews.

Sincerely,



John B. Hosmer  
Vice President - Engineering

Attachments:    1. Core Monitoring Transition Plan  
                     2. Lead Unit Transition Schedules

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cc: R. M. Pulsifer - Project Manager, NRR  
D. M. Skay - Project Manager, NRR  
H. J. Miller - Region III Administrator  
R. C. Jones - Reactor Systems Branch Chief  
L. E. Phillips - BWR Reactor Systems Section Chief  
C. G. Miller - Senior Resident Inspector, Quad Cities  
P. G. Brochman - Senior Resident Inspector, LaSalle  
Office of Nuclear Facility Safety - IDNS

## Attachment 1

### Core Monitoring Transition Plan for Quad Cities and LaSalle

- Use SPC Core Monitoring Code (POWERPLEX-II) already in use at Dresden
- Perform thorough testing, including parallel operation with current GE Core Monitoring Code, to assure acceptable performance and validate results prior to fuel transition
- Monitor both the SPC transition (mixed) core and the sister unit's (all GE) core with POWERPLEX beginning with the transition unit's start-up at each site in 1996/1997

#### Lead Transition Unit (mixed core)

- ◇ Licensed and monitored with SPC ANFB correlation starting at BOC
- ◇ Input to ANFB for GE fuel conservatively determined per Reference 4
- ◇ Operating CPR limits based on SPC methods

#### Sister Unit (still all GE fuel)

- ◇ Last half cycle uses POWERPLEX for power distribution calculation and GE's CPR correlation for MCPR determination
  - ◇ Operating CPR limits based on GE methods
- Simultaneous switch to POWERPLEX on both units avoids human factor concerns with dual software/surveillances as well as more complex hardware configuration and support

Attachment 2

**Lead Unit Transition Schedules**

	<b>L2C8</b>	<b>Q2C15</b>
<b>SER on SPC Advanced Channel Topical</b>	<b>Complete</b>	<b>Complete</b>
<b>Core Monitoring Transition Information</b>	<b>Complete</b>	<b>Complete</b>
<b>Preparatory Amendment (PA) Submittal</b>	<b>Complete</b>	<b>June 1996</b>
<b>Cycle Specific Mixed Core CPR Submittal</b>	<b>Complete</b>	<b>June 1996</b>
<b>Shipping Container Certificate Amended</b>	<b>June 1996</b>	<b>June 1996</b>
<b>Confirm SLMCPR (or supplement PA)</b>	<b>Complete</b>	<b>Aug. 1996</b>
<b>SER on PA and Mixed Core CPR</b>	<b>Oct. 1996</b>	<b>Feb. 1997</b>
<b>Current Shutdown Date</b>	<b>9-21-96</b>	<b>2-1-97</b>
<b>COLR / 50.59 Summary / 50.46 Report</b>	<b>Nov. 1996</b>	<b>March 1997</b>
<b>Current Estimated Start-Up</b>	<b>late 11-96</b>	<b>early 4-97</b>
<b>Start-Up Test Report</b>	<b>90 days after start-up</b>	
<b>UFSAR Update</b>	<b>Per 10 CFR 50.71 (e)</b>	