

Commonwealth Edison Company  
LaSalle Generating Station  
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Tel 815-357-6761



April 14, 2000

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

LaSalle County Station, Units 1 and 2  
Facility Operating License Nos. NPF-11 and NPF-18  
NRC Docket Nos. 50-373 and 50-374

Subject: Supplement to the License Amendment Request for Power  
Uprate Operation

- References:
- (1) Letter from R. M. Krich, Commonwealth Edison (ComEd) Company, to U.S. NRC, "Request for License Amendment for Power Uprate Operation," dated July 14, 1999.
  - (2) Letter from W.T. Subalusky, ComEd, to U.S. NRC "LaSalle County Nuclear Power Station Units 1 and 2 Application for Amendment of Facility Operating Licenses NPF-11 and NPF-18, Appendix A, Technical Specification Changes for Siemens Power Corporation Fuel Transition," April 8, 1996.
  - (3) Letter from W.T. Subalusky, ComEd, to U.S. NRC "LaSalle County Nuclear Power Station Units 1 and 2 Supplement to Application for Amendment of Facility Operating Licenses NPF-11 and NPF-18, Appendix A, Technical Specification Changes for Siemens Power Corporation Fuel Transition," October 14, 1996.
  - (4) Letter from D. M. Skay to I. M. Johnson, "Issuance of Amendments (TAC Nos. M95156 and M95157)," issuing Amendment No. 116 to Facility Operating License No. NPF-11 and Amendment No. 101 to Facility Operating License No. NPF-18 for LaSalle County Station, Units 1 and 2, respectively, dated October 29, 1996.

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In the Reference 1 letter, pursuant to 10 CFR 50.90, "Application for Amendment of License or Construction Permit," Commonwealth Edison (ComEd) Company proposed to operate both LaSalle County Station Units at an "uprate" power level of 3489 Megawatts Thermal (MWT).

During a conference call on April 11, 2000, the NRC requested supporting information to be supplied concerning the fuel exposure assumptions used in source term calculations for certain accident analyses performed for power uprate. The analyses were based on the transition to Siemens Fuel for LaSalle County Station, References (2), (3) and (4), and were used in the reload analyses to support the new fuel type and the associated Core Operating Limits Report for LaSalle County Station current fuel cycle 9 for Unit 1 (L1C09) and cycle 8 for Unit 2 (L2C08).

The reload analyses performed for L1C09 and L2C08 bound the extended burnup to support 24-month fuel cycles. These analyses included, in part, the fuel handling accident, cask drop accident, and the control rod drop accident. The dose consequences for the fuel handling and control rod drop accidents remain bounded by the corresponding Updated Final Safety Analysis Report (UFSAR) Chapter 15 analyses previously performed for General Electric Company (GE) supplied fuel. The dose consequences for the cask drop accident increased by an insignificant amount.

Below is the listing of the parameters that are the basis for the high exposure ATRIUM-9B Source Term used in the L1C09 and L2C08 analyses for ATRIUM-9B fuel. The units given below are Megawatt-days(MWd) per Metric Tonne of Uranium (MTU) and Megawatts Thermal (MWth).

LOCA: 60,000 MWd/MTU; 3910 MWth core power; 2034 core residence days.

CRDA: 60,000 MWd/MTU; 3458 MWth core power; 2034 core residence days.

FHA: 60,000 MWd/MTU; 3458 MWth core power; 2034 core residence days.

Spent Fuel Cask Drop Accident:

50,000 MWd/MTU; 3323 MWth core power; 1953 core residence days.

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This clarifies the current Updated Final Safety Analysis Report (UFSAR) to reflect the transition to Siemens fuel, particularly for the Fuel Handling, Spent Fuel Cask Drop, and Control Rod Drop Accidents. The UFSAR will be changed to reflect the correct fuel burnup for which the source terms were calculated in conjunction with the power uprate UFSAR changes.

The no significant hazards consideration, submitted in Reference 1, remains valid for the information attached.

Should you have any questions concerning this letter, please contact Mr. Frank A. Spangenberg, III, Regulatory Assurance Manager, at (815) 357-6761, extension 2383.

Respectfully,

A handwritten signature in black ink, appearing to read 'C. Pardee', with a long horizontal line extending to the right and a small flourish at the end.

Charles G. Pardee  
Site Vice President  
LaSalle County Station

Attachment

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – LaSalle County Station

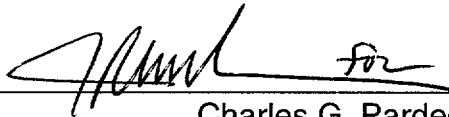
STATE OF ILLINOIS )  
IN THE MATTER OF )  
COMMONWEALTH EDISON COMPANY )  
LASALLE COUNTY STATION - UNIT 1 & UNIT 2 )

Docket Nos. 50-373  
50-374

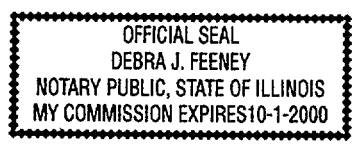
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**AFFIDAVIT**

I affirm that the content of this transmittal is true and correct to the best of my  
knowledge, information and belief.

  
\_\_\_\_\_  
Charles G. Pardee  
Site Vice President  
LaSalle County Station

Subscribed and sworn to before me, a Notary Public in and for the State  
above named, this 14<sup>th</sup> day of April, 2000.  
My Commission expires on 10-1, 2000.



  
\_\_\_\_\_  
Notary Public