

December 27, 1999

Mr. Oliver D. Kingsley, President  
Nuclear Generation Group  
Commonwealth Edison Company  
Executive Towers West III  
1400 Opus Place, Suite 500  
Downers Grove, IL 60515

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - LASALLE COUNTY STATION,  
UNITS 1 AND 2 (TAC NOS. MA6070 AND MA6071)

Dear Mr. Kingsley:

By letter dated July 14, 1999, Commonwealth Edison Company (ComEd, the licensee) submitted a proposed license amendment for LaSalle County Station, Units 1 and 2, to allow the units to operate at an uprated power level of 3489 MWt. The staff has reviewed your request and determined that it needs additional information as discussed in the enclosed Request for Additional Information (RAI) to complete its review. If there should be any questions regarding this request, please contact me at (301) 415-1322.

Sincerely,

WPP FILE CENTER PND

(original signed by)  
Donna M. Skay, Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-373 and 50-374

Enclosure: RAI

cc w/encl: See next page

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\*Input provided by memo dated November 18, 1999; no major revisions

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in cursive script that reads "Donna M. Skay".

Donna M. Skay, Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-373 and 50-374

Enclosure: RAI

cc w/encl: See next page

O. Kingsley  
Commonwealth Edison Company

LaSalle County Station  
Units 1 and 2

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O. Kingsley  
Commonwealth Edison Company

- 2 -

LaSalle County Station  
Units 1 and 2

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REQUEST FOR ADDITIONAL INFORMATION

PROPOSED AMENDMENT FOR POWER UPRATE

LASALLE COUNTY STATION, UNITS 1 AND 2

1. In Section 6.1.1 of the "Power Uprate Safety Analysis Report for LaSalle County Station," NEDC-32701P, dated July 1999, it is noted that an offsite power grid stability uprate review determined the electrical equipment and grid stability adequacy. Please provide a concise description of what this grid stability uprate review consisted of and include in this description the major assumptions for this review and the resulting primary review findings and conclusions. In addition, please explain in detail why the 345 kV switchyard equipment and stability remain adequate with the 345 kV switchyard circuit breaker 1-2 local breaker backup timer settings reduced.
2. Please provide a discussion that addresses why the current capability to provide electric power from the transmission network to the LaSalle County Station unit emergency electrical buses will not be affected by the 345 kV switchyard breaker setting change and as such the station will continue to be in full conformance with General Design Criterion 17, "Electric Power Systems."
3. Information provided in Section 6.1.1 of NEDC-32701P notes that the iso-phase bus ratings, the main power transformer ratings, the unit and system auxiliary power transformer ratings, the 345 kV switchyard equipment ratings, and generator voltage and current ratings bound the uprate operating conditions. Please provide the numerical rating values for each of these items and the expected numerical values for these items during operation at power uprated operating conditions. In addition, provide the maximum expected electrical power output megawatt value for uprated operating conditions and the current maximum electrical power output megawatt value.
4. Provide a discussion that addresses the impact of the power uprate on the load, voltage and short circuit current values for all levels of the station auxiliary electrical distribution system (including ac and dc).
5. The July 14, 1999, submittal does not contain a discussion addressing how the power uprate impacts the existing analysis performed for station blackout. Please discuss and verify that the assumptions for the existing station blackout analysis are valid for the power uprate conditions, particularly as they relate to issues such as heat-up analysis, equipment operability, and battery capacity.
6. Section 10.3.1.1 of NEDC-32701P states that the current accident and normal plant conditions for temperature, pressure and humidity inside the primary containment are "nearly unchanged" for the power uprate conditions. Please provide a detailed discussion to clearly explain how the current accident and normal temperature, pressure and humidity profiles for inside the primary containment change for the power uprate conditions and why these changes have no impact on the environmental qualification of electrical equipment. In addition, please provide a similar discussion for the temperature, pressure and humidity profiles for high energy line break areas outside of the primary containment.
7. In Sections 10.3.1.1 and 10.3.1.2 of NEDC-32701P, it is noted that the environmental qualification radiation levels under accident conditions are conservatively evaluated to increase 16 percent inside and outside the primary containment. It is also noted that these increases do not impact the bounding environmental conditions currently in the updated final safety analysis report. Please discuss in detail the current, the revised, and the bounding radiation level conditions and provide numerical values for these radiation level conditions.

ENCLOSURE