

RS-05-088

July 5, 2005

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

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: Supplemental Response to Request for Additional Information Concerning
License Amendment Request - Activation of the Trip Outputs of the Oscillation
Power Range Monitor System

- References:
- (1) Letter from Keith R. Jury (Exelon Generation Company, LLC), to U. S. NRC, "License Amendment Request-Activation of the Trip Outputs of the Oscillation Power Range Monitor System," dated April 30, 2004
 - (2) Letter from Douglas V. Pickett (U. S. NRC) to Christopher M. Crane, (Exelon Generation Company, LLC), "LaSalle County Station, Units 1 and 2 – Request for Additional Information Re: Oscillation Power Range Monitors," dated October 22, 2004
 - (3) Letter from Patrick R. Simpson (Exelon Generation Company, LLC), to U. S. NRC, "Additional Information Supporting the License Amendment Request for Activation of the Trip Outputs for the Oscillation Power Range Monitor System," dated December 17, 2004

In Reference 1, Exelon Generation Company, LLC (Exelon), requested a change to the Technical Specifications (TS), Appendix A, of Facility Operating License Nos. NPF-11 and NPF-18 for LaSalle County Station (LCS), Units 1 and 2, respectively. The proposed changes incorporate the Oscillation Power Range Monitor instrumentation into the TS.

In Reference 2, the NRC requested additional information concerning the Reference 1 submittal, including a request that Exelon provide specific values for the OPRM scram setpoints and the Delta Critical Power Ratio/Initial Critical Power Ratio Versus Oscillation Magnitude (DIVOM) correlation for the next cycle. The requested information was provided to the NRC in Reference 3, with one exception. The evaluation of the initial plant/cycle-specific DIVOM correlation and OPRM scram setpoints for LCS was not complete at the time. Reference 3 indicated that Exelon would provide these values once the evaluation was complete. The evaluation has since been completed. The requested values are provided as described below

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for information and will be incorporated into the LCS Core Operating Limits Report (COLR) as indicated in References 1 and 3.

A LCS specific analysis was performed to determine a DIVOM curve that was applicable to the current LCS, Unit 1 and Unit 2, operating cycles (i.e., Cycle 11 for both Units) during which the OPRM trip function will be activated pending NRC approval of the requested amendments. The DIVOM analysis was performed for the power/flow state point, corresponding to a post two-pump trip condition at 32% rated core flow (natural circulation) along the highest licensed rod line, (i.e., the Maximum Extended Load Line Limit Analysis (MELLLA) rod line). The limiting exposure condition was identified and utilized to bound the entire operating cycle. A limiting DIVOM curve for LCS, Units 1 and 2, Cycle 11, was developed. The limiting DIVOM curve is bounded by a slope of 0.573.

A calculation of the OPRM Amplitude Trip Setpoints (Sp), and associated OPRM Confirmation Count Trip Setpoints (Np), was performed. The OPRM trip setpoints are a function of the calculated DIVOM curve and the cycle specific Operating Limit Minimum Critical Power Ratio (OLMCPR) and Safety Limit Minimum Critical Power Ratio (SLMCPR).

Based on the LCS, Unit 1, Cycle 11, cycle specific parameters, the required OPRM Amplitude Trip Setpoint was determined to be 1.12. The associated OPRM Confirmation Count Trip Setpoint was determined to be 14. Based on the LCS, Unit 2, Cycle 11, cycle specific parameters, the required OPRM Amplitude Trip Setpoint was determined to be 1.12. The associated OPRM Confirmation Count Trip Setpoint was determined to be 14.


Exelon has concluded that the information provided in this response does not impact the conclusions of the: (1) Technical Analysis, (2) No Significant Hazards Consideration under the standards set forth in 10 CFR 50.92(c), or (3) Environmental Consideration as provided in the original submittal (Reference 1).

There are no regulatory commitments contained within this letter.

If you have any questions or require additional information, please contact David Gullott at 630-657-2819.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 5th day of July 2005.

Respectfully,

A handwritten signature in black ink, reading "Patrick R. Simpson". The signature is written in a cursive, flowing style.

Patrick R. Simpson
Manager-Licensing