



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

December 7, 2010

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: CLINTON POWER STATION, UNIT NO. 1 - REQUEST FOR ADDITIONAL
INFORMATION RELATED TO REQUEST FOR ADOPTION OF TECHNICAL
SPECIFICATION TASK FORCE-501 (TAC NO. ME4850)

Dear Mr. Pacilio:

By letter dated October 8, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML102810654), Exelon Generation Company, LLC (the licensee) submitted license amendment request (LAR) for Clinton Power Station (CPS), Unit No. 1. The LAR proposes to revise the CPS Technical Specifications (TS) 3.8.3, "Diesel Fuel Oil, Lube Oil, and Starting Air," by relocating the current stored diesel fuel oil and lube oil numerical volume requirements from the TS to the TS Bases, for CPS, Unit No. 1.

The Nuclear Regulatory Commission (NRC) staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with Mr. Mitchel Mathews of your staff on December 6, 2010 it was agreed that you would provide a response within 30 days from the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1115.

Sincerely,

A handwritten signature in black ink, appearing to read "Nicholas J. DiFrancesco", with a long horizontal flourish extending to the right.

Nicholas J. DiFrancesco, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-461

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

EXELON GENERATION COMPANY, LLC

CLINTON POWER STATION, UNIT NO. 1

LICENSE AMENDMENT REQUEST FOR ADOPTION OF TSTF-501

DOCKET NO. 50-461

TAC NO. ME4850

1. Please provide the rated nameplate capacity and the maximum post-loss of coolant accident load demand for each emergency diesel generator (EDG).
2. Paragraph 9.5.4.1 of the Clinton Power Station, Unit No. 1 Updated Safety Analysis Report states that the design of the diesel fuel oil system complies with American National Standards Institute (ANSI) N195-1976, *Fuel Oil Systems for Standby Diesels*, with exceptions and clarifications to Section 6.3 and Appendix A, Paragraph 1 of Section 7.5, and Paragraph 1d of Section 8. Section 5.4 of ANSI N195-1976 states that:

“The fuel oil storage capacity requirement of 5.2 or 5.3 shall be calculated based upon the diesel-generator(s) operating at the minimum required capacity for the plant condition which is most limiting for the calculation of such capacity. The design shall take into account the time dependence of diesel-generator loads.

It also states that:

A conservative alternative to calculating the total fuel storage based on time-dependent loads is to calculate the storage capacity by assuming that the diesel operates continuously for seven days at its rated capacity.”

It is further stated that:

A minimum margin of 10 [percent] shall be added to the calculated storage requirement if the conservative alternate calculation is not used.

For the Division 1 EDG, the conservative alternate calculation was not used, and the minimum margin of 10 percent does not appear to have been added to the fuel oil storage capacity requirement calculation in accordance with Section 5.4 of ANSI N195-1976. Also, neither of the two calculation methods in Section 5.4 of ANSI N195-1976 was used. Please explain why the Division 1 EDG fuel oil storage calculation does not meet the requirements of Paragraph 5.4 of ANSI N195-1976.

3. Please provide the methodology for the fuel oil storage capacity requirement calculations for the Division 2 and Division 3 EDGs. Please explain why they meet (or why they do not meet) the requirements of Section 5.4 of ANSI N195-1976.

ENCLOSURE

4. Please confirm that the lube oil used is compatible with Ultra Low Sulfur Diesel (ULSD) fuel, and that the lube oil consumption rate does not change when using ULSD.

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/RA/

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