



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

September 20, 2010

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

SUBJECT: LASALLE COUNTY STATION, UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO REQUEST FOR LICENSE AMENDMENT TO ALLOW RECEIPT AND STORAGE OF LOW-LEVEL RADIOACTIVE WASTE (TAC NOS. ME3054 AND ME3055)

Dear Mr. Pacilio:

By letter to the Nuclear Regulatory Commission (NRC) dated January 6, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100070297), as supplemented on August 20, 2010 (ADAMS Accession No. ML102320599) Exelon Generation Company, LLC submitted a request to revise license paragraph 2.B.(5), for the LaSalle County Station (LSCS), Units 1 and 2. The proposed change would enable LSCS to possess byproduct material from Braidwood Station, Units 1 and 2, Byron Station, Units 1 and 2, and Clinton Power Station, Unit 1.

The 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 your staff on September 14, 2010, it was agreed that you would provide a response within 30 days.

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) 415-1055.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Gratton".

Christopher Gratton, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-373 and 50-374

Enclosure:
Request for Additional Information

cc w/encl: Distribution via listserv

REQUEST FOR ADDITIONAL INFORMATION

LASALLE COUNTY STATION, UNITS 1 AND 2

DOCKET NOS. 50-373 AND 50-374

In reviewing the Exelon Generation Company's (Exelon's) submittal dated January 6, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100070297), as supplemented on August 20, 2010 (ADAMS Accession No. ML102320599) related to a request to revise license paragraph 2.B.(5), for the LaSalle County Station (LSCS), Units 1 and 2, the Nuclear Regulatory Commission staff has determined that the following information is needed in order to complete its review:

- RAI-05: Will waste classified as "Greater Than Class C" be transferred and stored in the Low Level Radioactive Waste (LLRW) Storage Facility?
- RAI-06: Describe the reprocessing and repackaging capabilities in the Radwaste Building where waste from the LLRW Storage Facility would be transferred for reprocessing and repackaging if necessary due to loss of container integrity in order to meet storage, transportation and/or disposal requirements.
- RAI-07: For onsite radiation protection purposes, describe the boundaries of the Title 10 of the *Code of Federal Regulations* Part 20 (10 CFR 20) controlled area (e.g., provide map and distances to the LLRW Storage Facility); describe whether members of the public are allowed in the controlled area, and describe how the dose limits of 10 CFR 20.1301(a) and (b) will be met.
- RAI-08: For offsite radiation protection considerations under 10 CFR 20.1301(e), explain the methods used in the Offsite Dose Calculation Manual methods to measure and/or calculate the net dose at the nearest residence attributable to the LLW Storage Facility and those doses attributable to the nuclear site from other sources of the direct radiation. For the environmental monitoring dosimeters, describe how the background (baseline) radiation dose will be (or has been) determined, how the standard deviation at each environmental dosimeter location has been determined, and the estimated Lower Limit of Detection for dosimeters that can be achieved at the 95 percent confidence level.
- RAI-9.a: How many plant-to-plant shipments of LLRW are projected in a year?
- RAI-9.b: How does the number of trips stated in the response to RAI-9.a compare to the past average annual number of trips to the Barnwell facility?

ENCLOSURE

RAI-10.a: Will there be any new construction (i.e., staging pads, shelters, support, or storage buildings) in any undisturbed land portions of the Braidwood, Byron, Clinton, or LaSalle plant sites?

RAI-10.b: If the response to RAI-10.a is yes, please provide a discussion of the potential impact to the terrestrial and aquatic environment and your procedures for the protection of cultural and archeological artifacts.

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Sincerely,
/RA/

Christopher Gratton, Senior Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
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| NAME | CGratton | THarris/CGratton for | Almboden | UShoop | RCarlson | CGratton |
| DATE | 09/ 16/10 | 09/16/10 | 09/15/10 | 09/16 /10 | 09/ 16/10 | 09/20/10 |