

October 11, 2005

Mr. James A. Spina
Vice President
Nine Mile Point Nuclear Station, LLC
P.O. Box 63
Lycoming, NY 13093

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF NINE
MILE POINT NUCLEAR STATION, UNITS 1 AND 2, AMENDED LICENSE
RENEWAL APPLICATION (TAC NOS. MC3272 AND MC3273)

Dear Mr. Spina:

By letter dated July 14, 2005, Constellation Energy Group Inc., resubmitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54), to renew the operating licenses for the Nine Mile Point Nuclear Station (NMP), Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC). The NRC staff is reviewing the information contained in the amended license renewal application (ALRA) and has identified, in the enclosure, areas where additional information is needed to complete the review.

Based on discussions with Mr. David Dellario of your staff, a mutually agreeable date for your response is within 30 days from the date of this letter. If you have any questions regarding this letter or if circumstances result in your need to revise the response date, please contact me by telephone at 301-415-1458 or via e-mail at nbl@nrc.gov.

Sincerely,

/RA/

N. B. (Tommy) Le, Senior Project Manager
License Renewal Section A
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket Nos.: 50-220 and 50-410

Enclosure: As stated

cc w/encl: See next page

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Dated: October 11, 2005, Accession No.: ML052850264

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**NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2 (NMP1 and NMP2)
AMENDED LICENSE RENEWAL APPLICATION (ALRA)
REQUEST FOR ADDITIONAL INFORMATION (RAI)**

ALRA Section 2.3 - Scoping and Screening Results: Mechanical Systems

RAI 2.3-1

For Unit 1, please indicate whether the liquid poison pressure nozzle is considered a reactor pressure vessel penetration requiring an Aging Management Review (AMR).

RAI 2.3-2

For Unit 2, please indicate whether temperature equalizing columns should be identified as reactor pressure vessel instrumentation system components requiring an AMR.

RAI 2.3-3

For Unit 1, the Liquid Poison System contains two elements that monitor the Liquid Poison Storage Tank temperature. One of these components is in-scope for license renewal since it is a safety-related component. The other component is non-safety-related and has no license renewal intended function. The in-scope temperature element itself is an active component and, therefore, not subject to AMR. However, the temperature sensor is housed in a thermowell that is subject to AMR. Which temperature element (TE) is the in-scope element, is it TE 41-35 or TE 41-28?

RAI 2.3-4

For Unit 2, please indicate whether the diffuser seal ring and shroud support plate should be identified as a reactor pressure vessel internal component requiring an AMR.

ALRA Section 2.4 - Scoping and Screening Results: Structures and Component Supports

RAI 2.4.A-1

The ALRA Section 2.4.A.1 incorporates the thrust of this RAI, except it is not clear if the refueling seal between the refueling cavity and the drywell is within the scope or not. The staff's concern is as follows:

Leakage through the refueling seals located at the top of the drywell potentially exposes the carbon steel drywell shell inner and outer surfaces to loss of material due to corrosion. This is a particular concern for the embedded portion of the drywell shell. Corrosion detected on the outer shell surface in the sand pocket region in a number of Mark I steel containments has been attributed to leakage past the drywell-to-reactor building refueling seal, coupled with clogging of the sand pocket drains. Leakage into the drywell, past the reactor vessel-to-drywell refueling seal, creates the potential for corrosion of the inaccessible portion of the inner surface of the drywell shell, embedded in the concrete floor.

From the information contained in ALRA Table 2.4.A.1-1, it is not clear to the staff:
(1) whether the refueling seals have been included in the license renewal scope, and
(2) if included, how aging management is being addressed. Please provide the following information:

- Verification that the refueling seals are included in the license renewal scope, or a detailed explanation for their exclusion.
- A detailed description of the plant-specific operating experience for the refueling seals, including incidences of degradation, method of detection, root cause, corrective actions, and current inspection procedures.
- A detailed description of the scoping, screening, and AMR for the refueling seals.
- The aging management programs credited to manage aging of the refueling seals.

RAI 2.4.C.1-1 In Table 2.4.C-1 of the ALRA, the applicant includes ASME Class 1, 2, 3 and MC hangers and supports. The staff assumes that the drywell and torus external supports are included within the Class MC supports. The applicant is requested to confirm the staff's assumption.

Nine Mile Point Nuclear Station, Units 1 and 2

cc:

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