

December 21, 2004

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

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

Dear Mr. Spina:

By letter dated May 26, 2004, Constellation Energy Group Inc., submitted 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 license renewal application (LRA) and has identified, in the enclosure, areas where additional information is needed to complete the review.

Based on discussions with Mr. Peter Mazzaferro 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 at 301-415-1458 or by e-mail at [nbl@nrc.gov](mailto: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: December 21, 2004, Accession No.: **ML043570368**

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**NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2 (NMP1 and NMP2)  
LICENSE RENEWAL APPLICATION (LRA)  
REQUEST FOR ADDITIONAL INFORMATION (RAI)  
RELATED TO:  
Revised Table 3.1 - Aging Management of Reactor Vessel, Internals,  
and Reactor Coolant Systems**

RAI T3.1-1

In LRA Tables 3.1.1A&B, items 3.1.1.A&B-26, the applicant credited the Inservice Inspection (ISI) IWB/C/D Program for bolting management. The GALL recommended the use of XI.M18, "Bolting Integrity Program," for managing of aging effects for safety-related bolts. The bolting integrity program described in XI.M18 relies on the NRC recommendations and guidelines for comprehensive bolting integrity programs that are delineated in NUREG-1339. The XI.M18 program also relies on the industry's technical basis for the program and guidelines for material selection and testing, bolting preload control, inservice inspection (ISI), use of lubricant and sealant, plant operation and maintenance, and evaluation of structural integrity of bolted joints, as outlined in EPRI NP-5679, with exception noted in NUREG-1339. The ISI program only addressed one task described in the Bolting Integrity program. Please provide information to explain how the remaining of all other tasks of the XI.M18 program are addressed by NMP1 and NMP2.

RAI T3.1-2

In Tables 3.1.1.A&B, 3.1.2.A&B of the LRA supplemental letter dated December 6, 2004, the applicant did not address aging effect of crack initiation and growth for closure bolting (see pages 3.1-26, -36, -54, -57, -88, and -94) due to cyclic loading and/or stress corrosion cracking (SCC), which is identified in GALL. Please provide information to explain why the aging effect of cracking was not addressed for the above item.

RAI T3.1-3

In Tables 3.2.1.A&B of the LRA supplemental letter dated December 6, 2004, the applicant stated that loss of material (due to general corrosion, crack initiation and growth, and cyclic loading and/or stress corrosion cracking (SCC)) is not applicable for closure bolting items 3.2.1.A&B-18. The applicant further stated that the above loss of material aging effect is not applicable to closure bolting in high-pressure or high temperature systems because NUREG-1801, Volume 2, stated that the causal mechanisms for loss of material include leaking fluid; whereas, the NMP environment for bolting does not assume leakage. The staff disagrees with NMP's assessment because operating experience from the industry indicated that leakage occurs. Please provide aging management for potential loss of material due to general corrosion, crack initiation and growth, and cyclic loading and/or stress corrosion cracking (SCC) for these closure bolting items.

This RAI also applies to closure bolting items identified in Sections 3.3, 3.4, and 3.5 of the LRA. Please provide the applicable aging management accordingly.

Nine Mile Point Nuclear Station, Unit Nos. 1 and 2

cc:

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