

November 10, 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

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, 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: November 10, 2004      Accession No.: **ML043170655**

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OPA

NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2  
LICENSE RENEWAL APPLICATION (LRA)  
REQUEST FOR ADDITIONAL INFORMATION (RAI)  
RELATED TO:  
SECTION 4.3 - METAL FATIGUE  
SECTION 4.6 - CONTAINMENT LINER PLATE,  
METAL CONTAINMENT, AND PENETRATIONS FATIGUE ANALYSIS

**(1) SECTION 4.3 - METAL FATIGUE**

RAI 4.3.1-1

Section 4.3.1 of the license renewal application indicates that the fatigue usage will be monitored at critical locations for NMP1 and NMP2. The application further indicates that these locations would include the components identified in NUREG/CR-6260, "Application of NUREG/CR-5999 Interim Fatigue Curves to Selected Nuclear Power Plant Components." Tables 4.3-3 and 4.3-4 list the Reactor Pressure Vessel locations that will be monitored by the Fatigue Monitoring Program (FMP). The application does not list all of the locations identified in NUREG/CR-6260 as locations that will be monitored by the FMP. Please clarify that all locations identified in NUREG/CR-6260 will be monitored by the FMP. Please provide a complete list of all locations that will be monitored by the FMP for NMP1 and NMP2.

RAI 4.3.1-2

Tables 4.3-3 and 4.3-4 of the license renewal application indicate that stress based fatigue monitoring will be used to track the fatigue usage for the NMP1 and NMP2 feedwater nozzles. Please describe the method used to estimate the fatigue usage of these nozzles prior to implementation of the stress based fatigue monitoring.

RAI 4.3.1-3

Table 4.3-1 of the license renewal application lists the design transients for NMP1. Note 2 to the table indicates that a number of the transients were not counted/monitored prior to 2000. The note contains the statement: "Data listed for allowable design transients are incremental values for the balance of the original license term." The intent of this statement is not clear. Please provide additional clarification. Indicate the method used to estimate the number of cycles prior to 2000 for those design transients identified by Note 2.

RAI 4.3.1-4

Table 4.3-2 of the license renewal application lists the design transients for NMP2. The Table does not list the daily reduction to 75% power that is listed in USAR Table 3.9B-1. Please explain why this transients was not included in Table 4.3-2 of the application.

Enclosure

**(2) SECTION 4.6 - CONTAINMENT LINER PLATE, METAL CONTAINMENT, AND  
PENETRATIONS FATIGUE ANALYSIS**

**RAI 4.6.2-1**

Section 4.6.2 of the license renewal application addresses the torus attached piping for NMP1. The application indicates that the existing fatigue usage factors are less than 0.5 and, therefore, the fatigue usage factors will remain less than 1.0 for sixty years of plant operation. Please identify the location containing the bounding fatigue usage for the torus attached piping. List the design transients, including the number used in the fatigue analysis and associated fatigue usage, for this bounding location. Provide the number of these design transients that have been experienced since initial plant operation.

**RAI 4.6.4-1**

Section 4.6.4 of the license renewal application addresses the NMP2 containment liner analysis. The application indicates that a revised analysis will be performed prior to the period of extended operation that will demonstrate that the 60-year cumulative usage factor (CUF) values for all controlling locations will remain less than 1.0. Please provide the current design CUF values for the controlling containment liner locations. Explain the basis for the statement that the revised analysis will demonstrate that the 60-year CUF values for all controlling locations will remain less than 1.0, given that the revised analysis has not been completed.

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

cc:

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