



**Constellation Energy**

Nine Mile Point Nuclear Station

P.O. Box 63  
Lycoming, NY 13093

May 12, 2005  
NMPIL 1951

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

**SUBJECT:** Nine Mile Point Unit 1  
Docket No. 50-220  
Facility Operating License No. DPR-63

Response to NRC Request for Additional Information Regarding the  
Irradiated Fuel Management Plan (TAC No. MC4399)

Gentlemen:

By letter dated August 23, 2004, Nine Mile Point Nuclear Station, LLC (NMPNS), submitted the notification of the irradiated fuel management plan for Nine Mile Point Unit 1 in accordance with 10 CFR 50.54(bb).

By letter dated February 11, 2005, the NRC requested additional information regarding the irradiated fuel management plan. NMPNS responses to this request for additional information are provided in Attachment 1, except for item (4), which will be provided by June 10, 2005, per discussions with the NRC Staff on May 12, 2005.

If you have any questions regarding this submittal, please contact Steven Leonard, General Supervisor Licensing, at (315) 349-4039.

Very truly yours,

James A. Spina  
Vice President Nine Mile Point

JAS/RF/sac  
Attachment

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cc: Mr. S. J. Collins, NRC Regional Administrator, Region I  
Mr. G. K. Hunegs, NRC Senior Resident Inspector  
Mr. P. S. Tam, Senior Project Manager, NRR (2 copies)

## ATTACHMENT 1

### Nine Mile Point Unit 1

#### Responses to NRC Request for Additional Information (RAI)

#### Regarding Irradiated Fuel Management Plan per 10 CFR 50.54(bb)

The requests are repeated below, followed by the Nine Mile Point Nuclear Station (NMPNS) response.

#### RAI

*For the NRC to evaluate and provide preliminary approval of the NMP1 spent fuel management and funding program, the licensee needs to provide supplemental information to include:*

- (1) The estimated cost to isolate the spent fuel pool and fuel handling systems, or the cost to construct an independent spent fuel storage installation;*
- (2) The estimated annual cost for the operation of the selected option (wet or dry storage or a combination of the two) until the Department of Energy (DOE) takes possession of the fuel;*
- (3) The estimated cost for the preparation, packaging, and shipping of the fuel to DOE;*
- (4) The estimated cost to decommission the spent fuel storage facility; and*
- (5) A brief discussion of each of the areas identified above and the estimated time periods for these activities.*

#### NMPNS Response

- (1) The estimated cost to isolate the spent fuel pool and fuel handling systems is \$3.32 million. This cost is based on spent fuel pool isolation costs at other decommissioning facilities and engineering judgment. This cost is considered part of the activities necessary to maintain the spent fuel in a safe and controlled state both during the initial decommissioning activities and during the wet storage period. Most of this cost would be incurred in the year 2010.

The Nine Mile Point Unit 1 (NMP1) Irradiated Fuel Management Plan, which is premised on cessation of NMP1 operation at the end of the current operating license, does not currently consider construction of an independent spent fuel storage facility.

- (2) The estimated annual cost for the operation of NMP1 associated with the wet storage option is \$6.26 million. This cost is based on actual costs at decommissioned facilities,

estimated costs for facilities similar to NMP1, and engineering judgment. These costs would be incurred annually, during the wet storage period, beginning in year 2011 and continuing through 2060.

- (3) The estimated cost for preparation, packaging and shipping of fuel to the Department of Energy (DOE) is \$29 million. This cost includes heavy equipment rental, health physics supplies and decommissioning contractor staffing costs, which are based on estimated costs for other facilities similar to NMP1 and engineering judgment. This cost would be incurred throughout the wet storage period, beginning in year 2025 and continuing through 2045.
- (4) Per discussions with the NRC Staff on May 12, 2005, NMPNS will provide the response to this item by June 10, 2005.
- (5) A brief discussion of each of the areas above, including estimated time periods, is provided in each of the corresponding responses (1) through (3) above. All costs are in year 2005 dollars.