



# Exelon Generation®

NMP1L 3241  
September 5, 2018

10 CFR 72.212(b)(2)

U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

ATTN: Document Control Desk  
Director, Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety and Safeguards

Nine Mile Point Nuclear Station, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-63 and NPF-69  
Docket Nos. 50-220 and 50-410

Nine Mile Point Nuclear Station Independent Spent Fuel Storage Installation  
General License  
Docket No. 72-1036, *72-1004*

SUBJECT: General License 30-day Cask Registration Notification and Thermal  
Performance Assessment

Pursuant to the requirements of 10 CFR 72.212(b)(2), this letter provides the information to register the use of three approved spent fuel storage casks at the Nine Mile Point Nuclear Station (NMPNS) Independent Spent Fuel Storage Installation (ISFSI).

Licensee's Name:	Nine Mile Point Nuclear Station, LLC
Address:	PO Box 63 Lycoming, NY 13093
Reactor License Numbers:	DPR-63 and NPF-69
Docket Numbers:	50-220, 50-410 and 72-1036
Person Responsible for Providing additional information:	Mr. Kenneth J. Kristensen 315-349-2069
Cask Certificate Number:	1004
Certificate Amendment Number:	10, Revision 1
Cask Model Number:	NUHOMS®-61BTH
Cask Identification Numbers:	NMP-61BTH-1-A-2-027, loaded August 11, 2018 NMP-61BTH-1-A-2-028, loaded August 19, 2018 NMP-61BTH-1-A-2-029, loaded August 24, 2018

The Technical Specifications (TS) for Certificate of Compliance (CoC) No. 1004, Amendment No. 10, Revision 1, §1.1.7 "Special Requirements for First System in Place", requires the results of the temperature measurements of the first Dry Shielded Canister (DSC) placed in service be submitted to the NRC for evaluation and assessment. Additionally, this section of TS requires subsequent users of the system to report heat loads higher than the first user. The first user of the NUHOMS® CoC No. 1004, Duke Energy, submitted the heat transfer characteristics for an 18.95 kilowatt (kW) Dry Shielded Canister (DSC) in a letter to the NRC, from Duke Energy, "Cask Certificate of Compliance, Docket No.: 72-1004, 30-day Report for Higher Canister Heat Loading per General Requirement Section 1.1.7," dated August 8, 2007

*NM5524  
NM5526  
NRR  
NMSS*

(ML072340622). The first DSC loaded at NMPNS had a heat load of 7.30 kW, as reported in our letter dated October 17, 2012.

A summary of the thermal performance of DSCs 27, 28 and 29 in place at the NMPNS ISFSI is submitted for your information.

Horizontal Storage Module (HSM) Model: NUHOMS® Model 102  
HSM Identification Number: 7DFS-HSM002J  
Cask: NMP-61BTH-1-A-2-027  
Calculated Heat Load: 8.312 kW  
Calculated  $\Delta T$ : 46 degrees F  
Actual  $\Delta T$  (Note 1): 31.1 degrees F

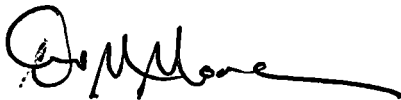
Horizontal Storage Module (HSM) Model: NUHOMS® Model HSM-H  
HSM Identification Number: 7DFS-HSM008A  
Cask: NMP-61BTH-1-A-2-028  
Calculated Heat Load: 8.540 kW  
Calculated  $\Delta T$ : 46 degrees F  
Actual  $\Delta T$  (Note 1): 19.9 degrees F

HSM Identification Number: 7DFS-HSM008B  
Cask: NMP-61BTH-1-A-2-029  
Calculated Heat Load: 8.771 kW  
Calculated  $\Delta T$ : 48 degrees F  
Actual  $\Delta T$  (Note 1): 19.7 degrees F

Note 1: The actual  $\Delta T$  represents the measured  $\Delta T$  obtained during equilibrium conditions. Equilibrium conditions were achieved when the daily temperature change observed was less than 6 degrees F over three consecutive days.

This letter contains no NRC commitments. Should you have any questions regarding the information in this submittal, please contact Ken Kristensen at (315) 349-2069.

Sincerely,



Dennis M. Moore  
Regulatory Assurance Manager, Nine Mile Point Nuclear Station  
Exelon Generation Company, LLC

DMM/KJK

cc: NRC Regional Administrator, Region I  
NRC Resident Inspector  
NRR Project Manager