Exelon SM
Nuclear

10CFR72.212

July 14, 2009

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

Limerick Generating Station, Unit 1 and Unit 2
Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352, 50-353 and 07200065

Subject: Registration of Use of Casks to Store Spent Fuel and First System Thermal Performance Assessment

This letter provides formal notification that three additional casks have been placed in service to store spent fuel. This notification is required by 10CFR72.212, "Conditions of general license issued under § 72.210", paragraph (b)(1)(ii), which states that the general licensee shall "Register use of each cask with the Nuclear Regulatory Commission no later than 30 days after using that cask to store spent fuel".

Licensee Name	Exelon Generation Company, LLC
Licensee Address	Limerick Generating Station
	3146 Sanatoga Road
	Pottstown, PA 19464
Reactor License Numbers	NPF-39 and NPF-85
Reactor Docket Numbers	50-352, 50-353 and 07200065
Contact Name and Title	Robert E. Kreider
	Manager – Regulatory Assurance
Cask Certificate Number	1004
Cask Model Number	NUHOMS-61BTH
HSM Model Number	HSM 202

Cask Identification Numbers	LGS-61BTH-1-C-2-013
	LGS-61BTH-1-C-2-014
	LGS-61BTH-1-C-2-015
Service Date	June 16, 2009 (LGS-61BTH-1-C-2-013)
	June 22, 2009 (LGS-61BTH-1-C-2-014)
	June 28, 2009 (LGS-61BTH-1-C-2-015)

This letter also provides 30-day notification of the results of the thermal performance assessment for the first system in place that is required by Certificate of Compliance For Spent Fuel Storage Casks, Certificate No. 1004, Amendment No. 9, Attachment A, Technical Specification 1.1.7, Special Requirements for First System in Place. This information was provided by letter dated August 27, 2008 for the Dry Storage Canister (DSC) with the highest heat load at that time. The letter reported that DSC LGS-61B-005-A had the highest heat load (10.25 kW).

The heat loads for the following three DSCs each exceeded 10.25 kW. DSC LGS-61BTH-1-C-2-015 had the highest heat load (11.63 kW). The result of this assessment is also provided for DSC LGS-61BTH-1-C-2-013 (10.69 kW) and DSC LGS-61BTH-1-C-2-014 (10.98 kW), which have lower heat loads, for your information.

Dry Storage Canister Number	LGS-61BTH-1-C-2-013
Horizontal Storage Module Number	00-S114/HSM-013
Maximum Allowable Heat Load	18.3 kW
Actual Loaded Heat Load	10.69 kW
Calculated Temperature Rise	39.0 degrees F
Measured Temperature Rise	2.3 degrees F

Dry Storage Canister Number	LGS-61BTH-1-C-2-014
Horizontal Storage Module Number	00-S114/HSM-015
Maximum Allowable Heat Load	18.3 kW
Actual Loaded Heat Load	10.98 kW
Calculated Temperature Rise	39.0 degrees F
Measured Temperature Rise	4.5 degrees F

Dry Storage Canister Number	LGS-61BTH-1-C-2-015
Horizontal Storage Module Number	00-S114/HSM-017
Maximum Allowable Heat Load	18.3 kW
Actual Loaded Heat Load	11.63 kW
Calculated Temperature Rise	37.0 degrees F
Measured Temperature Rise	9.5 degrees F

Reference: ST-4-114-360-0 Independent Spent Fuel Storage Installation (ISFSI) Technical Specification Testing

There are no commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

Original signed by

Christopher H. Mudrick
Vice President – Limerick Generating Station
Exelon Generation Company, LLC

cc: S. J. Collins, Administrator Region I, USNRC
E. M. DiPaolo, USNRC Senior Resident Inspector, LGS