

SEP 11 2009

ATTN: Document Control Desk
Director, Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Serial No. 09-554
LIC/NW/RO
Docket No.: 72-64
50-305
License No.: DPR-43

DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION
INDEPENDENT SPENT FUEL STORAGE INSTALLATION
CASK REGISTRATION FOR SPENT FUEL STORAGE

Pursuant to 10 CFR 72.212, "Conditions of general license issued under §72.210," paragraph (b)(1)(ii), Dominion Energy Kewaunee, Inc. (DEK) hereby provides the Nuclear Regulatory Commission (NRC) notification regarding the registration of spent fuel storage casks approved under NRC Certificate of Compliance No. 1004.

Licensee Name:	Dominion Energy Kewaunee, Inc.		
Licensee Address:	N490 Highway 42 Kewaunee, WI 54216		
Reactor License No.:	DPR-43		
Reactor Docket No.:	50-305		
Cask Certificate No.:	1004		
Cask Model No.:	Standardized NUHOMS -32PT Canister		
Cask Identification Nos.:	KPS32PT-S100-A-HZ001	Initial Use:	8/22/2009
	KPS32PT-S100-A-HZ003	Initial Use:	8/27/2009
Licensee Contact Name/Title:	Diana Fried, Supervisor Nuclear Fuel Operation		

The above named casks are in use under Amendment 9 of Certificate of Compliance No. 1004.

In addition, pursuant to the General Requirements and Conditions of the Technical Specifications for Certificate of Compliance No.1004, Amendment 9, Paragraph 1.1.7, "Special Requirements for First System in Place," a summary of the thermal performance of the highest heat load Standardized NUHOMS-32PT Dry Shielded Canister (DSC) placed in service at the Kewaunee Power Station independent spent fuel storage installation is provided. KPS32PT-S100-A-HZ001 was loaded with Unit 1 spent fuel and stored in a NUHOMS Model 102 Horizontal Storage Module (HSM). The calculated thermal loading for this DSC is approximately 15.9 kW. The inlet and outlet air temperatures for the HSM were measured consistent with the method provided in Certificate No. 1004 Technical Specification 1.2.8. Upon obtaining equilibrium conditions, the measured inlet air temperature was 62 degrees F and measured outlet air temperature was 116 degrees F, corresponding to a temperature difference of 54

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degrees F. This temperature difference is within the thermal performance temperature differential of 65 degrees F expected for a Model 102 HSM containing a DSC with a thermal loading of 15.9 kW at the given ambient conditions.

If you have questions or require additional information, please feel free to contact Mr. Jack Gadzala, at 920-388-8604.

Very truly yours,



Stephen E. Scace
Site Vice President, Kewaunee Power Station

Commitments made by this letter: NONE

cc: Regional Administrator, Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Mr. P. S. Tam
Sr. Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North, Mail Stop O8-H4A
11555 Rockville Pike
Rockville, MD 20852-2738

NRC Senior Resident Inspector
Kewaunee Power Station