

Robert J. Franssen
Plant Manager

Susquehanna Nuclear, LLC
769 Salem Boulevard
Berwick, PA 18603
Tel. 570.542.3170 Fax 570.542.1504
Robert.franssen@talenenergy.com



NOV 02 2016

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

10 CFR 72.212

**SUSQUEHANNA STEAM ELECTRIC STATION
REGISTRATION FOR THE USE OF DRY FUEL STORAGE
MODULE D-21
PLA-7526**

Docket No. 72-28

Pursuant to 10 CFR 72.212(b)(2), this letter is being submitted to register Susquehanna Nuclear, LLC's use of Dry Fuel Storage Module D-21 at the Susquehanna Steam Electric Station. The required information follows:

Licensee Name:	Susquehanna Nuclear, LLC and Allegheny Electric Cooperative, Inc.
Licensee Address:	Susquehanna Steam Electric Station 769 Salem Boulevard Berwick, PA 18603
Reactor License Numbers:	Unit 1 NPF-14 Unit 2 NPF-22
Reactor Docket Numbers:	Unit 1 50-387 Unit 2 50-388
Dry Fuel Storage Docket Number:	72-28
Person Responsible for Providing Additional Information:	Melisa Krick, Nuclear Regulatory Affairs
Cask Certificate Number:	72-1004, Amendment 10
Cask Model Number:	NUHOMS®-61BTH

Horizontal Storage Module
(HSM) Model:

NUHOMS[®] Model 102

Cask Identification
(Serial Number):

SSE-61BTH-1-C-2-071

HSM Identification:

D-21

Load Date:

October 13, 2016

The heat load associated with the identified Dry Shielded Canister (DSC) is less than previously submitted, as such, thermal performance assessment data discussed in Technical Specification (TS) for Certificate of Compliance (CoC) No. 1004, Amendment No. 10, Section 1.1.7, "Special Requirements for First System in Place" is not being submitted as part of this registration letter.

There are no new or revised regulatory commitments contained in this letter.

Should you have any questions regarding this submittal, please contact
Mr. Jason Jennings, Manager – Nuclear Regulatory Affairs at (570) 542-3155.

Sincerely,



R. J. Franssen

Copy: NRC Region I, Regional Administrator
Mr. J. E. Greives, NRC Sr. Resident Inspector
Ms. T. E. Hood, NRC Project Manager
Mr. M. Shields, PA DEP/BRP