Exelon Generation Company, LLC
Byron Station
4450 North German Church Road
Byron, IL 61010-9794
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Exelon Nuclear

10 CFR 72.212

October 6, 2010
Byron Ltr 2010-0121
File: 1.10.0101

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Director, Spent Fuel Project Office, NMSS
Washington, DC 20555-0001

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF 37 and NPF-66
NRC Docket Nos. STN 50-454, STN 50-455 and 72-68

Subject: Registration of Use of Cask to Store Spent Fuel

In accordance with 10 CFR 72.212, "Condition of general license issued under 10 CFR 72.210," paragraph (b)(1)(ii), we are registering with the NRC the use of one cask under the general license to store spent fuel at Byron Station. The initial use of the cask listed below to store spent fuel occurred on September 9, 2010. This registration is required to be submitted within 30 days.

The following information is provided in accordance with 10 CFR 72.212 (b)(1)(ii).

Licensee Name	Exelon Generation Company, LLC
Licensee Address	4450 North German Church Road Byron, Illinois 61010
Reactor License Number	NPF 37 and NPF 66
Reactor Docket Number	50-454 and 50-455
Contact Person Name	David Gudger Regulatory Assurance Manager
Cask Certificate Number	1014, Amendment 3
Cask Model Number	HI-STORM 100-S
Cask Identification Number	Multi-Purpose Canister Type 32, Serial Number 090. HI-STORM 100 Serial Number 0297. Placed in ISFSI September 9, 2010.

There are no regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Mr. David Gudger, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,

Daniel J. Enright
Site Vice President
Byron Station

DJE/cy