



JUL 13 2010

LR-N10-0231

10CFR72.212

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

Hope Creek Generating Station
Facility Operating License No. NPF-57
Docket Nos. 50-354 and 72-48
PO Box 236
Hancocks Bridge, NJ 08038

Subject: Spent Fuel Cask Registration

Pursuant to the requirements of 10CFR72.212(b)(1)(ii), PSEG Nuclear LLC (PSEG) hereby reports the following registration information associated with two HI-STORM 100 spent fuel cask systems that were recently placed into storage in the PSEG Independent Spent Fuel Storage Installation (ISFSI).

| | |
|------------------------|---------------------|
| Cask Certificate | 72-1014 Amendment 5 |
| Cask Model | HI-STORM 100 |
| MPC Serial Number | 156 |
| Overpack Serial Number | 202 |
| Number of Fuel Bundles | 68 |
| Placed in Service | 06/21/2010 |

| | |
|------------------------|---------------------|
| Cask Certificate | 72-1014 Amendment 5 |
| Cask Model | HI-STORM 100 |
| MPC Serial Number | 158 |
| Overpack Serial Number | 204 |
| Number of Fuel Bundles | 68 |
| Placed in Service | 06/28/2010 |

There are no regulatory commitments contained in this letter. If you have any questions regarding this submittal, please contact Mr. Timothy Devik, Regulatory Compliance Engineer, at (856) 339-3108.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Gaffney", written over the printed name.

Michael G. Gaffney, Sr.
Regulatory Assurance Manager – Hope Creek

115501

C Mr. W. Dean, Administrator - Region I
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 HC Commitment Management Coordinator (H02)