

Southern Nuclear
Operating Company, Inc.
Post Office Box 1295
Birmingham, Alabama 35201-1295
Tel 205.992.5000



September 26, 2007

Docket Nos.: 50-321
50-366
72-36

NL-07-1740

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, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant
Independent Spent Fuel Storage Installation
Validation of HI-STORM 100 System Heat Transfer Characteristics

Ladies and Gentlemen:

Certificate of Compliance (CoC) 1014, Amendment 2, Condition 9, Special Requirements for First Systems In Place, requires a letter report be provided to the NRC validating the heat transfer characteristics for the first HI-STORM 100 cask system placed into service with a heat load greater than or equal to 10 kW and subsequent cask systems that have a heat load that exceeds the previously validated heat load by more than 2 kW. By letter dated July 28, 2004, Energy Northwest provided a letter report for MPC-68 serial number 92 and HI-STORM 100 serial number 100-120, with a heat load of 17.1 kW. The letter also enclosed the report prepared by Holtec International validating the analytic methods and predicted thermal behavior for the cask system.

Subsequently, SNC loaded MPC-68 serial number 179 and HI-STORM 100 serial number 100-254, containing Plant Hatch spent nuclear fuel with a heat load of 17.9 kW on June 29, 2007. Per CoC 1014, Condition 9, no additional testing is required for a system after it has been tested at a heat load equal to or greater than 16 kW. Therefore, no further heat load validation testing is required for the HI-STORM 100 cask system.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

B. J. George
Manager, Nuclear Licensing

NR501
NMSS

BJG/MNW/daj

cc: Southern Nuclear Operating Company
Mr. J. T. Gasser, Executive Vice President
Mr. D. R. Madison, Vice President – Hatch
Mr. D. H. Jones, Vice President – Engineering
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Dr. W. D. Travers, Regional Administrator
Mr. R. E. Martin, NRR Project Manager – Hatch
Mr. J. A. Hickey, Senior Resident Inspector – Hatch
Mr. J. R. Hall, NMSS Project Manager