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10 CFR 72.44(d)(3)

February 23, 2022

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Pilgrim Nuclear Power Station
Renewed Facility Operating License No. DPR-35
Docket No. 50-293 and 72-1044

Subject: Annual ISFSI Radioactive Effluent Release Report for 2021

Pilgrim Nuclear Power Station (PNPS) utilizes the Holtec International HI-STORM 100 Cask System for the Independent Spent Fuel Storage Installation (ISFSI). Amendments No. 14 to Certificate of Compliance No. 1014 for the HI-STORM 100 Spent Fuel Storage Casks Section 5.4 requires the submittal of an Annual Radioactive Effluent Release Report pursuant to Title 10 Code of Federal Regulations 72.44(d)(3). The purpose of this letter is to document radioactive effluent releases for calendar year 2021 from the PNPS ISFSI spent fuel storage casks.

The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment systems. Therefore, specific operating procedures for the control of radioactive effluents are not required. The HI-STORM 100 Cask System is also designed and fabricated with a totally seal-welded pressure vessel such that leakage from the confinement boundary is not considered to be a credible occurrence. Therefore, there were no radionuclides released to the environment in liquid or gaseous effluents from the ISFSI at PNPS during the reporting period of January 1, 2021, to December 31, 2021. Since there were no radioactive effluent releases, there were also no offsite effluent dose consequences.

There are no regulatory commitments in this letter.

Should you have any question or require further information, please contact me at (856) 797-0900 x 3578.

Sincerely,

Jean A. Fleming
Vice President, Regulatory & Environmental Affairs
Holtec Decommissioning International, LLC



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cc:

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Commonwealth of Massachusetts, Department of Public Health

Commonwealth of Massachusetts, Department of Environmental Protection

Commonwealth of Massachusetts, Director, Massachusetts Emergency Management Agency