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

Point Beach Nuclear Plant, Units 1 and 2  
Dockets 50-266 and 50-301 and 72-005  
Renewed License Nos. DPR-24 and DPR-27

Spent Fuel Storage Five-Year Inspection Report  
Ventilated Spent Fuel Storage Cask WVSC-24-01  
Certificate of Compliance 1007

Certificate of Compliance 1007, Amendment 6, effective June 5, 2006, was issued to BNG Fuel Solutions Corporation for the WVSC-24 Ventilated Spent Fuel Storage Cask System. Section 1.3.3 of the Certificate of Compliance states, "The VCC interior surfaces and the MSB exterior surfaces of the first VSC unit placed in service at each site shall be inspected, to identify potential air flow blockage and material degradation after every 5 years of service."

Section 1.3.3 further requires that a report summarizing the findings shall be submitted to the NRC within 30 days of the inspection. The Enclosure transmits a summary report of the fourth 5-year inspection of the first Vertical Storage Canister (VSC) placed into service at Point Beach Nuclear Plant. VSC "WVSC-24-01" was placed into service on December 16, 1995.

This letter contains no new Regulatory Commitments and no revisions to existing Regulatory Commitments.

Very truly yours,

NextEra Energy Point Beach, LLC

A handwritten signature in black ink, appearing to read "Bryan Woyak".

Bryan Woyak  
Licensing Manager

Enclosure

cc: Administrator, Region III, USNRC  
Project Manager, Point Beach Nuclear Plant, USNRC  
Resident Inspector, Point Beach Nuclear Plant, USNRC  
PSCW

## **ENCLOSURE**

### **NEXTERA ENERGY POINT BEACH, LLC POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2**

#### **SUMMARY REPORT OF FIVE-YEAR INSPECTION VENTILATED SPENT FUEL STORAGE CASK WVSC-24-01 CERTIFICATE OF COMPLIANCE 1007**

##### **Purpose**

This report summarizes the results of the ventilated concrete cask (VCC) interior surface inspection conducted on WVSC-24-01, the first VSC-24 cask placed in service at Point Beach Nuclear Plant (PBNP). The VCC interior surfaces and MSB exterior surfaces of the first Vertical Storage Canister (VSC) placed in service are required to be inspected every five years in service, as specified in Section 1.3.3 of the VSC-24 Certificate of Compliance, to identify potential air flow blockage and material degradation.

##### **Discussion**

The VSC air flow cooling path surfaces that were inspected are the VCC air inlet and air outlet assemblies and the VSC annulus region existing between the VCC interior wall and multi-assembly sealed basket (MSB) exterior surfaces.

The inspection was conducted under the direction of the Projects Dry Fuel Storage (DFS) group at PBNP. The service of GE Inspection Technologies, a remote imaging technology company, was utilized in conducting the exam. GE Inspection Technologies conducted the previous five-year inspection of the first cask, WVSC-24-01, loaded at PBNP. A VT Level II NDE inspector conducted the exam, with results reviewed on site by a second VT Level III qualified person.

##### **Inspection Methodology**

Access for the inspection of the VCC interior and the MSB exterior surface was achieved through the four (4) VSC air outlet areas located near the top of the VCC and four (4) VSC air inlet areas located near the bottom of the VCC. First, the video probe was inserted through the screens on the outside of the lower air inlets to those areas. Second, the video probe was inserted through the screens of the upper air outlets and lowered down through the VSC annulus area existing between the VCC liner interior and the MSB exterior surface into the lower air inlet areas.

## **Summary of Inspection Results**

On June 23, 2015, a remote visual inspection of the VCC interior surface was performed in accordance with work order 40313952-01 and procedure NDE-17, "Ventilated Concrete Cask (VCC) Air inlet/Outlet and Interior/Exterior Surface Examination". Areas inspected included the VSC cooling air flow paths and annulus region. Surfaces inspected were the VCC liner interior, the MSB exterior, and the air inlet and outlet area surfaces.

### **VCC Inlet and Outlet Areas**

Air flow paths through the inlet and outlet areas were noted to be free of significant blockages. Spider webs were found in numerous areas.

### **VCC/MSB Annulus**

The VCC/MSB annulus from the air outlet areas to the air inlet areas in the floor of the VCC was noted to be free of significant blockages. There were wasp nests in the Northeast, Southeast and Northwest upper access areas.

### **VCC Liner Interior Surface**

Water residue was found at the top of the VCC and as well down the sides from leakage of the top seal. Two areas of mineral deposits from rainwater runoff were also noted. There are no adverse effects from the rainwater deposits as all coatings remain intact with no evidence of corrosion onset.

### **MSB Exterior Surface**

Inner coatings remain intact with no evidence of corrosion onset.

## **Conclusions**

The summary report concludes the VSC cooling paths maintain unobstructed air flow and no adverse conditions affecting system performance was observed.

The VCC air inlet and air outlet area, the VCC interior and MSB exterior surfaces were inspected and found to be in good condition. Normal wear was identified for the service environment as described in the Safety Analysis Report (SAR).

The VSC was found to be performing as described in the SAR. No additional degradation mechanisms affecting system performance were identified.