

Entergy Nuclear Operations, Inc. Palisades Nuclear Plant 27780 Blue Star Memorial Highway Covert, MI 49043 Tel 269 764 2000

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PNP 2021-009

10 CFR 72.44

February 25, 2021

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

SUBJECT: 2020 ISFSI Annual Radioactive Effluent Release Report

Big Rock Point Dockets 50-155 and 72-043 License No. DPR-6

Dear Sir or Madam:

In accordance with 10 CFR 72.44(d)(3), Entergy Nuclear Operations, Inc. is submitting the annual independent spent fuel storage installation (ISFSI) radioactive effluent release report for Big Rock Point for the period from January 2020 through December 2020.

This letter contains no new commitments and no revision to existing commitments.

Respectfully,

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Attachment: Independent Spent Fuel Storage Installation Annual Radioactive Effluent Release Report

CC Administrator, Region III, USNRC BRP Decommissioning Inspector, USNRC NMSS Project Manager, USNRC



#### ATTACHMENT

#### INDEPENDENT SPENT FUEL STORAGE INSTALLATION ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

#### BIG ROCK POINT January 2020 – December 2020

# I. FACILITY DESCRIPTION

The Independent Spent Fuel Storage Installation (ISFSI) is located within the owner-controlled area of the Big Rock Point (BRP) site. The storage of spent fuel at BRP meets the requirements of 10 CFR 72, and the Certificate of Compliance No. 72-1026, issued by the Nuclear Regulatory Commission (NRC).

## II. EFFLUENT LIMITS AND CONTROLS

The ISFSI operates under effluent control limits as required by 10 CFR 72.104. However, the design of the sealed storage canisters at the ISFSI precludes any gaseous or liquid effluent releases.

# III. RADIOLOGICAL EFFLUENT RELEASES

As noted in Section II, by design, there are no radioactive liquid or gaseous effluents originating from the ISFSI facility. The annual radiological surveillance performed during this reporting period did not indicate any release of radioactivity from the ISFSI.

## IV. ISFSI ENVIRONMENTAL MONITORING PROGRAM

The BRP Radiological Environmental Monitoring Program (REMP) is described in the Offsite Dose Calculation Manual (ODCM), Section I, Subsection 4.0. The ISFSI Environmental Monitoring Program, which is contained within the BRP REMP, consists of thermoluminescent dosimeters (TLDs) at four locations along the perimeter of the ISFSI site, and three control TLDs 10.5, 10.8, and 12.6 miles from the site. Quarterly TLDs are read quarterly, as reflected in Section VI. Quarterly measurements are compared to control measurements to evaluate compliance with 10 CFR 72.104. The results for the ISFSI TLDs and the control TLDs measured in 2019 are summarized in Section VI.

## V. SAMPLE ANOMALIES

None.

#### VI. ISFSI ENVIRONMENTAL MEASUREMENTS

#### 1<sup>st</sup> Quarter 3<sup>rd</sup> Quarter TLD 2<sup>nd</sup> Quarter 4<sup>th</sup> Quarter No./Location BRP-18 / 137 meters NW 19 14 13 21 of ISFSI BRP-19 / 137 meters SW 22 15 17 21 of ISFSI BRP-20 / 137 meters SE 24 16 18 23 of ISFSI BRP-21 / 137 meters NE 17 20 12 13 of ISFSI Control Location - Petoskey \* 13 14 19 BRP-05 Control Location - Boyne City 18 15 15 20 **BRP-06** Control Location - Ironton 22 14 15 20 BRP-07

#### BRP ISFSI Environmental TLD Results (mR) January 2020 – December 2020

\*Control Location - Petoskey BRP-05 could not be located for Q1 2020 (CR-PLP-2020-1107)

# VII. <u>CONCLUSIONS</u>

When compared to the control locations, it is evident that the dose from ISFSI operations during the reporting period does not exceed the limits as defined in 10 CFR 72.104.



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