



October 08, 2024  
L-2024-162  
10 CFR 21.21(d)(3)(ii)

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

Point Beach Nuclear Plant, Unit 2  
Renewed License No. DPR-27  
NRC Docket No. 50-301

Subject: Final Report of a deviation associated with a defect of Westinghouse NBFD31S RPS Relay

Reference: Event Notification dated September 18, 2024, Interim Report of a deviation associated with a Westinghouse Relay, Model NBFD31S (ADAMS Accession No. ML24262A223)

In accordance with Title 10 of the Code of Federal Regulations (10 CFR) Part 21, Reporting of Defects and Noncompliance, NextEra Energy Point Beach, LLC is providing the required written notification of a defect in a basic component associated with NBFD31S Reactor Protection System (RPS) Relay supplied by Westinghouse. The enclosure to this letter provides the information required in 10 CFR 21.21(d)(4).

There are no regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Maribel Valdez, Fleet Licensing Manager, at (561) 904-5164.

Respectfully,

A handwritten signature in black ink, appearing to read "Kenneth A. Mack".

Kenneth A. Mack  
Director, Regulatory Affairs

Enclosure: Part 21 Notification of Westinghouse NBFD31S RPS Relay

Cc: NRC Regional Administrator – Region III  
NRC Senior Resident Inspector – Point Beach Nuclear Plant  
NRC Project Manager – Point Beach Nuclear Plant

**ENCLOSURE**  
**POINT BEACH NUCLEAR PLANT (PBN), UNIT 2**  
**PART 21 NOTIFICATION OF WESTINGHOUSE NBFD31S RPS RELAY**

- (i) Name and address of the individual or individuals informing the Commission.

Mr. Michael Durbin  
NextEra Energy Point Beach, LLC  
Vice President, Point Beach Nuclear Plant Units 1 and 2  
6610 Nuclear Road  
Two Rivers, WI 54241

- (ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.

Point Beach Nuclear Plant, Unit 2  
Renewed Facility Operating Licensing Nos. DPR-27  
NRC Docket No. 50-301  
Basic Component: Westinghouse, RPS Relay Model NBFD31S

- (iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Relay Supplier:  
Westinghouse Electric Company  
Nuclear Services  
1000 Westinghouse Drive  
New Stanton, PA 15672

- (iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

As stated in the Referenced Event Notification, a defect was found in a Westinghouse relay, model NBFD31S during pre-installation bench testing. Specifically, the relay was found to not function as required due to its internal plunger not operating properly. This malfunctioning caused the plunger to not fully extend and caused the normally open contacts to remain closed. Investigations completed by Westinghouse determined that the plunger would not function properly because its kickout spring was misaligned due to human error. This relay was procured from Westinghouse for safety related nuclear applications.

NextEra Point Beach, LLC has concluded that this defect constitutes a Substantial Safety Hazard (SSH). An SSH exists because of the nature of the defect was such that the relay would not be able to perform its safety function, if installed, and would result in a loss of redundancy in a safety related system, in this case, the Reactor Protection System.

- (v) The date on which the information of such defect or failure to comply was obtained.

Discovery date: PBN determined a defect of the basic component that could create a substantial safety hazard existed on July 18, 2024.

- (vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

Point Beach contracted with Westinghouse to supply the Nbfd31s RPS Relay for use in safety related class Reactor Protection System. The defective Nbfd31s RPS Relay S/N 389256-01 was never installed at Point Beach before returning the part to Westinghouse. Westinghouse has concluded that the human error that resulted in the noted defect is an isolated case.

- (vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

Nbfd31s RPS Relay was returned to Westinghouse (IR-2024-4958) and was not installed in the plant.

Future action – none.

- (viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

None.

- (ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.