



June 11, 2020

NRC 2020-0015  
10 CFR 50.73  
10 CFR PART 21

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

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

Licensee Event Report 301/2020-001-00

Enclosed is Licensee Event Report (LER) 301/2020-001-00 for Point Beach Nuclear Plant, Unit 2 Operation or Condition Prohibited by Technical Specifications, and interim report pursuant to 10 CFR Part 21.

This letter contains no new regulatory commitments.

If you have any questions please contact Mr. Eric Schultz, Licensing Manager,  
at (920) 755-7854.

Sincerely,

NextEra Energy Point Beach, LLC

A handwritten signature in black ink, appearing to read "Robert Craven".

Robert Craven  
Site Director

Enclosure

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



## LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

<b>1. Facility Name</b> Point Beach Nuclear Plant Unit 2	<b>2. Docket Number</b> 05000301	<b>3. Page</b> 1 OF 2
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<b>4. Title</b> Reactor protection system channel failure results in operation prohibited by technical specification.
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5. Event Date			6. LER Number			7. Report Date			8. Other Facilities Involved	
Month	Day	Year	Year	Sequential Number	Rev No.	Month	Day	Year	Facility Name	Docket Number
04	13	2020	2020	001	00	06	11	2020	NA	05000NA
									Facility Name	Docket Number
									NA	05000NA

<b>9. Operating Mode</b>  MODE 1	<b>11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)</b>			
	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)
<b>10. Power Level</b>  100%	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)
	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> 73.77(a)(1)
	<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	<input type="checkbox"/> 73.77(a)(2)(ii)
	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> 73.77(a)(2)(iii)
<input type="checkbox"/> 50.73(a)(2)(i)(C)				<input checked="" type="checkbox"/> Other (Specify in Abstract below or in NRC Form 366A)

<b>12. Licensee Contact for this LER</b>	
Licensee Contact Thomas P. Schneider - Senior Licensing Engineer	Telephone Number (Include Area Code) 920-755-7797

13. Complete One Line for each Component Failure Described in this Report										
Cause	System	Component	Manufacturer	Reportable To ICES	Cause	System	Component	Manufacturer	Reportable To ICES	
B	JE	IMOD	SCIENTECH	Y	NA	NA	NA	NA	NA	
<b>14. Supplemental Report Expected</b>					<b>15. Expected Submission Date</b>			Month	Day	Year
<input type="checkbox"/> Yes (If yes, complete 15. Expected Submission Date) <input checked="" type="checkbox"/> No								NA	NA	NA

Abstract (Limit to 1400 spaces, i.e., approximately 14 single-spaced typewritten lines)

On April 13, 2020, with Unit 2 operating in MODE 1 at 100 percent power, it was noted that the signal for channel 4 (2TM-404B) [IMOD] differed from the other channels. Operators removed Unit 2 channel 4 from service at 1020 on April 13, 2020. It was determined the different signal began at approximately 0955 on April 10, 2020. During this period, channel 4 was incapable of performing its function for longer than allowed by Technical Specifications (TS).

As the multiple redundant other channels were unaffected and were available at all times, the condition was determined to be of very low safety significance and there was no impact on the health and safety of the public.

This event is being reported pursuant to 10 CFR 50.73(a)(2)(i)(B) for operation with a condition that existed for longer than allowed by technical specifications. This report also constitutes an interim report pursuant to 10 CFR Part 21.



## LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

(See NUREG-1022, R.3 for instruction and guidance for completing this form  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
Point Beach Nuclear Plant Unit 2	05000-301	YEAR	SEQUENTIAL NUMBER	REV NO.
		2020	001	00

### NARRATIVE

#### Description of the Event:

At 1020 on April 13, 2020, with Unit 2 operating in MODE 1 at 100 percent, it was noted that the signal for channel 4 of the reactor protection system [JE] differed from the other channels. Operators removed Unit 2 channel 4 Delta T Setpoint 1 Dynamic Compensator module from service. The module was installed March 20, 2020 to replace an existing module with a new style. It was determined the different signal began at approximately 0955 on April 10, 2020. During this period, channel 4 was incapable of performing its function for longer than allowed by Technical Specifications (TS).

Investigations to this point have not revealed any potential defects or failure to comply pursuant to 10 CFR Part 21. The cause of failure is unknown at this time and remains under investigation in consultation with the manufacturer. The target date for completing these investigations is July 31, 2020.

This event is being reported pursuant to 10 CFR 50.73(a)(2)(i)(B) for operation with an inoperable component that existed for longer than allowed by technical specifications. This report also constitutes an interim report pursuant to 10 CFR Part 21

#### Cause of the Event

Unit 2 channel 4 Delta T Setpoint 1 Dynamic Compensator (2TM-404B) malfunction resulted in a potentially slower response to a transient than credited for the protective features.

#### Analysis of the Event

The Overtemperature Delta T (OTΔT) protective feature of the reactor protection system contains four independent channels. A reactor trip occurs if the calculated setpoint reaches the actual channel delta T in two of the channels. For the identified condition, one of the four modules would not have initiated the trip as expected. TS require a failed channel be placed in trip in one hour, or the reactor be in MODE 3 in 7 hours when it is not capable of performing its function. The period when the channel was incapable of performing its function was greater than allowed by TS.

#### Corrective Actions

The channel 4 module was replaced and the TS function restored.

Investigation of the failure continues with the manufacturer under the site correct action program.

#### Safety Significance

During the condition and subsequent recovery actions, at no time were the other channels, channel 1 (2TM-401B), channel 2 (2TM-402B), or channel 3 (2TM-403B) removed from service. The other channels were able to continuously provide the minimum number of channels required by the design and licensing basis with the channel 4 condition present. With one of the four channels of OTΔT being inoperable, the remaining three channels would have initiated an OTΔT trip when warranted by plant conditions. For this reason, the condition was determined to be of very low safety significance.

#### Similar Events

There have not been similar events of operation or condition prohibited by Technical Specifications from a similar cause in the past three years.

#### Component Failure Data

SCIENSTECH MODEL TMD-500, TYPE MBA-E159PA-1, DELTA T SP1 DYNAMIC COMPENSATOR