



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 26, 2009

Mr. Larry Meyer
Site Vice President
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2 - REQUEST FOR
ADDITIONAL INFORMATION RELATED TO ELECTRICAL ENGINEERING
BRANCH AUXILIARY FEEDWATER (TAC NOS. ME1081 AND ME1082)

Dear Mr. Meyer:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated April 7, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML091250564), as supplemented by two letters dated June 17, 2009 (ADAMS Accession Nos. ML091690087 and ML091690090, respectively), FPL Energy Point Beach, LLC, submitted a request to amend Technical Specifications due to modifications to the auxiliary feedwater system. This was originally part of the extended power uprate request but was separated out by the NRC staff.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on August 19, 2009, it was agreed that you would provide the additional information within 30 days of the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-2048.

Sincerely,

A handwritten signature in black ink, appearing to read "Justin C. Poole".

Justin C. Poole, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure:
Request for Additional Information

cc w/encl: Distribution via ListServ

REQUEST FOR ADDITIONAL INFORMATION

POINT BEACH NUCLEAR POWER PLANT, UNITS 1 AND 2

DOCKET NOS. 50-266 AND 50-301

1. The licensee stated that resulting worst-case calculated transient voltage dip is approximately 48 percent during the start of the motor-driven auxiliary feedwater (MDAFW) pump at the time of emergency diesel generator (EDG) breaker closure. The staff notes that this voltage dip is well below the acceptance limit of 75 percent of nominal voltage during a motor start from the EDG. Please provide documentation (test data and transient analyses) to demonstrate that all loads (worst-case accident loads) can be sequenced successfully while maintaining the voltage and frequency within its design limits.
2. The licensee stated that the transient frequency response of all four EDGs remains above 57 hertz (Hz) at all times. Provide documentation to show that, during sequencing, the EDG frequency will be restored to within 2 percent of nominal in less than 60 percent of each load-sequence interval for stepload increase and in less than 80 percent of each load sequence interval for disconnection of the single largest load. Also, describe how the effects of frequency variations have been evaluated to satisfy the design bases for emergency core cooling system loads and vital loads, including EDG loading.
3. Since auxiliary feedwater pump cables are routed thru duct banks, explain the design features provided to prevent submergence of cables and periodic testing to be performed to monitor the condition of the cables.
4. Describe the environmental parameters for the MDAFW pump motor locations. Are the MDAFW pump motors located in a room that is susceptible to a high-energy line break or harsh environment? Are the MDAFW pump motors required to be qualified in accordance with Title 10 of the *Code of Federal Regulations*, Section 50.49 requirements? If not, provide the basis.
5. In response to the staff's acceptance review question number seven regarding changes to the time delay relays for 4.16 kilo-Volt (kV), 480 Volt (V) loss-of-voltage (LOV) relays, and the EDG breaker close delay relay, the licensee stated that the acceptance criteria is satisfied since the total calculated time is 13.3 seconds, which is less than the acceptance criteria of 14 seconds. The licensee also stated that this time bounds the delay time from initiation of the LOV signal to closure of the EDG output breaker assumed in the Point Beach Nuclear Plant accident analysis. However, the staff notes that this time (14 seconds) is inconsistent with the EDG design-basis provided in Section 8.8.1 of the Point Beach Nuclear Plant's Final Safety Analysis Report (FSAR) which states that the EDGs are required to start and be ready for loading within 10 seconds after receiving a start signal. The staff was unable to confirm the design bases requirement for the 14-second acceptance criteria that was referenced in the licensee's response. Provide the basis for the changes to the time delay relays for the 4.16 kV and 480 V LOV relays and the EDG breaker close delay relay.

ENCLOSURE

6. Provide the supporting documentation that was used in developing your response to questions one through seven of the staff's acceptance review. At a minimum, the supporting documentation must include the assumptions used, key parameters evaluated, conclusions, and basis for the conclusions.

August 26, 2009

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Site Vice President
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Sincerely,

/RA/ Peter S. Tam for

Justin C. Poole, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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ADAMS Accession Number: ML092310454

*per memo dated August 3, 2009

OFFICE	LPL3-1/PM	LPL3-1/LA	NRR/EEEE/BC	LPL3-1/BC
NAME	JPoole /PTam for	BTully /THarris for	GWilson*	LJames
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