

NRR-PMDAPEm Resource

From: Dietrich, Allison
Sent: Wednesday, October 12, 2016 3:45 PM
To: hlkish@aep.com
Cc: 'dmburgoyne@aep.com'; Wrona, David; Kuntz, Robert; Moulton, Charles; Mathew, Roy; Goel, Vijay; Zimmerman, Jacob; Casto, Greg
Subject: Donald C. Cook Nuclear Plant Unit 1 - RAI concerning LAR for one-time extension of Completion Time for LCO 3.8.1
Attachments: EEEB and AFPB RAI Cook U1 ELAR.pdf

By letter dated October 11, 2016, Indiana Michigan Power Company submitted a license amendment request for the Donald C. Cook Nuclear Plant, Unit 1. The proposed amendment would allow a one-time extension of the Completion Time for Technical Specification 3.8.1, "AC Sources – Operating." The proposed amendment was requested on an emergency basis pursuant to 10 CFR 50.91(a)(5).

The U.S. Nuclear Regulatory Commission staff has reviewed your submittal. The staff has determined that additional information is needed in order to complete the review, as described in the attached request for additional information. Please provide your response by 12:00pm EST on October 13, 2016.

Please let me know if you have any questions or concerns.

Allison W. Dietrich, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation
301-415-2846

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Created By: Allison.Dietrich@nrc.gov

Recipients:

"dmburgoyne@aep.com" <dmburgoyne@aep.com>
Tracking Status: None
"Wrona, David" <David.Wrona@nrc.gov>
Tracking Status: None
"Kuntz, Robert" <Robert.Kuntz@nrc.gov>
Tracking Status: None
"Moulton, Charles" <Charles.Moulton@nrc.gov>
Tracking Status: None
"Mathew, Roy" <Roy.Mathew@nrc.gov>
Tracking Status: None
"Goel, Vijay" <Vijay.Goel@nrc.gov>
Tracking Status: None
"Zimmerman, Jacob" <Jacob.Zimmerman@nrc.gov>
Tracking Status: None
"Casto, Greg" <Greg.Casto@nrc.gov>
Tracking Status: None
"hkish@aep.com" <hkish@aep.com>
Tracking Status: None

Post Office:

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EEEEB and AFPB RAI Cook U1 ELAR.pdf		67388

Options

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REQUEST FOR ADDITIONAL INFORMATION REGARDING
EMERGENCY LICENSE AMENDMENT REQUEST FOR ONE-TIME EXTENSION
OF COMPLETION TIME FOR INOPERABLE AC SOURCE - OPERATING
DONALD C. COOK NUCLEAR PLANT, UNIT 1

DOCKET NO. 50-315

CAC NO. MF8457

RAI-EEEEB-1

With Unit 2 in refueling outage, please confirm that limiting condition for operation (LCO) 3.8.1 b, c, and d are met (operable) during the extended Completion Time (CT).

RAI-EEEEB-2

Identify the two qualified circuits/power sources for each unit required in accordance with requirements LCO 3.8.1 a.

RAI-EEEEB-3

In accordance with Branch technical Position (BTP) 8-8, "Onsite (Emergency Diesel Generators) and Offsite Power Sources Allowed Outage Time Extensions," a replacement (i.e., supplemental) AC power source is recommended to back up an inoperable offsite power source during an extended CT to maintain the defense-in-depth of the electrical power sources. Please provide details of supplemental source(s) including the surveillance tests to verify operability of the power source. In addition, please provide following additional information/Regulatory Commitments to meet the intent of BTP 8-8:

- a. Supplemental Diesel Generators (SDG) will be verified to be available to power safety-related buses of Unit 1, within one-hour if needed, in case of loss-of-offsite power (LOOP), prior to entering the extended CT (i.e., beyond 72 hours).
- b. Weather conditions will be monitored daily in accordance with the Donald C. Cook Nuclear Plant (CNP) on-line risk management program, and appropriate actions will be taken if severe weather is expected. An extended CT will not be entered if official weather forecasts for the plant site are predicting severe weather conditions.
- c. The system load dispatcher will be contacted once per day to ensure no significant grid perturbations (high grid loading unable to withstand a single contingency of line or generation outage) are expected during the extended CT.
- d. Component testing or maintenance of safety systems and important non safety equipment in the offsite power systems that can increase the likelihood of a plant transient (unit trip) or LOOP will be avoided. In addition, no discretionary switchyard maintenance will be performed.

- e. Technical Specifications (TS) required systems, subsystems, trains, components, and devices that depend on the remaining power sources will be verified to be operable and positive measures will be provided to preclude subsequent testing or maintenance activities on these systems, subsystems, trains, components, and devices.
- f. Steam-driven emergency feed water pump(s) will be controlled as “protected equipment.”
- g. SDGs and 69 kV circuit will be guarded.

RAI-EEEEB-4

Provide the design details of the offsite circuit cables that are in the raceway, such as the type of cable, manufacturer, voltage rating, cable size and rating. Additionally, provide the date when the affected cables were last tested and the number of years in service. Provide information regarding any other cables that are routed through the cable raceway.

RAI-AFPB-1

The NRC staff’s understanding of proposed fire protection compensatory action b (from LAR page 13) is:

- Where installed fire detection and suppression systems are operable and available, an hourly fire watch tour
- Where installed fire detection or suppression systems are inoperable or unavailable, a continuous fire watch

Confirm whether this understanding is correct, or if it is incorrect, provide clarification.

RAI-AFPB-2

In the description of compensatory actions to be taken in the identified fire areas, it is stated that “Transient combustible permits will be reviewed for the area and any unnecessary transients will be removed.”

Describe your process for determining “necessary” and “unnecessary” transients, including the definitions of necessary and unnecessary.