

## **NRR-PMDAPEm Resource**

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**From:** Dietrich, Allison  
**Sent:** Tuesday, April 21, 2015 3:37 PM  
**To:** hletheridge@aep.com  
**Cc:** dmburgoyne@aep.com; Obodoako, Aloysius; Pelton, David; Kulesa, Gloria; Terry L Curtiss (tlcurtiss@aep.com)  
**Subject:** D.C. COOK UNITS 1 AND 2 – ESGB RAI CONCERNING LAR TO ADOPT TSTF-490 AND IMPLEMENT FULL-SCOPE AST (TAC NOS. MF5184 AND MF5185)  
**Attachments:** ESGB RAI regarding Alternate Source Term MF5184 MF5185.docx

By letter dated November 14, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14324A209), as supplemented by letter dated February 12, 2015 (ADAMS Accession No. ML14363A491), Indiana Michigan Power Company (I&M, the licensee) submitted a license amendment request for the Donald C. Cook Nuclear Plant (CNP), Units 1 and 2. The proposed amendment consists of adoption of Technical Specifications Task Force (TSTF)-490, Revision 0, and implementation of a full scope alternate source term radiological analysis methodology.

The U.S. Nuclear Regulatory Commission (NRC) staff in the Steam Generator Tube Integrity and Chemical Engineering Branch (ESGB) of the Office of Nuclear Reactor Regulation is currently reviewing your submittal, as supplemented. The staff has determined that additional information is needed in order to complete the review, as described in the attached Request for Additional Information (RAI). The draft RAI was sent to I&M via electronic mail on April 8, 2015. A clarification telephone conference was held on April 21, 2015. Based on our discussion, we understand that a response to the RAI will be provided by July 22, 2015.

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

Sincerely,

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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**Subject:** D.C. COOK UNITS 1 AND 2 – ESGB RAI CONCERNING LAR TO ADOPT  
TSTF-490 AND IMPLEMENT FULL-SCOPE AST (TAC NOS. MF5184 AND MF5185)  
**Sent Date:** 4/21/2015 3:36:56 PM  
**Received Date:** 4/21/2015 3:36:00 PM  
**From:** Dietrich, Allison

**Created By:** Allison.Dietrich@nrc.gov

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REQUEST FOR ADDITIONAL INFORMATION REGARDING  
ADOPTION OF TSTF-490, REVISION 0  
AND IMPLEMENTATION OF FULL-SCOPE ALTERNATE SOURCE TERM  
DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-315 AND 50-316  
TAC NOS.MF5184 AND MF5185

RAI-ESGB-1

Identify all sources of post loss of coolant accident (LOCA) strong acid generation in containment and time-dependent or bounding values of strong acid concentrations in the sump for a period of 30 days post-LOCA.

- a. Provide the amounts of strong acids used in the calculations and the decrease of sump water pH due to strong acids generation.

RAI-ESGB-2

Describe the analysis used, including assumptions and inputs, to determine the pH in the sump water during a period of 30 days post-LOCA. Include detailed calculations of time-dependent or bounding pH values in the sump during a 30-day period post-LOCA to demonstrate that the pH remains greater than 7 throughout this time period.

ENCLOSURE