



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

July 27, 2010

Mr. Lawrence J. Weber
Senior Vice President and
Chief Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 (DCCNP 1&2) -NRC
STAFF COMMENTS ON LICENSEE'S SUPPLEMENTAL RESPONSES TO
GENERIC LETTER 2004-02 (TAC NOS. MC4679 AND MC4680)

Dear Mr. Weber:

By letters dated February 29, 2008; August 29, 2008; and May 26, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML080770394, ML082520025, and ML101540527); Indiana Michigan Power Company (I&M) submitted supplemental responses to Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design-Basis Accidents at Pressurized-Water Reactors," for DCCNP 1&2. The Nuclear Regulatory Commission (NRC) staff has reviewed I&M's submittals with a process that involved a detailed review by a team of 10 subject matter experts, with focus on the review areas described in the NRC's "Content Guide for Generic Letter 2004-02 Supplemental Responses" (ADAMS Accession No. ML073110389). The review process also included a separate review of I&M's submittals informed by input from the subject matter experts that focused on whether I&M has demonstrated overall that I&M's corrective actions for GL 2004-02 are adequate.

The NRC staff has no further questions for DCCNP 1&2 at this time regarding completion of corrective actions for GL 2004-02. This conclusion is based on the NRC staff's evaluation of I&M's submittals, with emphasis on I&M's response to an NRC staff request for additional information dated June 18, 2009 (ADAMS Accession No. ML091490421).

As you may be aware, the NRC staff has not yet issued a final safety evaluation (SE) on WCAP-16793-NP, "Evaluation of Long-Term Cooling Considering Particulate, Fibrous, and Chemical Debris in the Recirculating Fluid." The NRC staff has reviewed the GL 2004-02 submittals for DCCNP 1&2 and determined that I&M currently intends to rely on the conclusions reached in WCAP-16793-NP. Assuming disposition of WCAP-16793-NP results in NRC staff issuance of an SE, the NRC intends to send a letter requesting that I&M confirm whether it still intends to rely on the conclusions reached in WCAP-16793-NP for DCCNP 1&2. In addition, the letter will likely request a response within 60 days describing: (1) the means I&M used to determine the amount of debris that bypasses the emergency core cooling system strainer; (2) the fiber loading expected per fuel assembly for the cold-leg and hot-leg break scenarios based on information available as of the date of the letter; (3) the available head loss margins with bases for the cold-leg and hot-leg break scenarios using the WCAP-16793-NP acceptance criteria; and (4) I&M's planned actions for DCCNP 1&2 should it exceed an acceptance criterion.

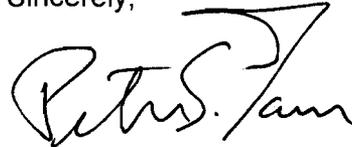
L. J. Weber

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The NRC staff will notify I&M of the expected timeline for any needed actions at the time the SE is issued, or will notify I&M of expectations for additional licensee actions should a SE not be issued. We are not requesting any information from I&M on this subject at this time.

If you have any further questions on this matter, please contact me at 301-415-1451.

Sincerely,

A handwritten signature in black ink that reads "Peter S. Tam". The signature is written in a cursive style with a large, stylized initial "P" and "T".

Peter S. Tam, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

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Sincerely,

/RA/

Peter S. Tam, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

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