



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

October 23, 2009

Mr. Joseph N. Jensen
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 – REQUEST FOR
ADDITIONAL INFORMATION (RAI) REGARDING GENERIC LETTER
(GL) 2008-01, “MANAGING GAS ACCUMULATION IN EMERGENCY CORE
COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY
SYSTEMS” (TAC NOS. MD7817 AND MD7818)

Dear Mr. Jensen:

By letters dated October 14, 2008, and July 24, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML082950467 and ML092170084), Indiana Michigan Power Company (the licensee) provided responses to Nuclear Regulatory Commission GL 2008-01 for the Donald C. Cook Nuclear Plant, Units 1 and 2.

After reviewing the information provided by the licensee, the Reactor Systems Branch staff in the Office of Nuclear Reactor Regulation concluded that additional information was required for the staff to determine that the licensee has acceptably demonstrated "that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance" as stated in GL 2008-01.

On October 15, 2009, the staff discussed the RAIs with Mr. Randy Ptacek and other members of your staff to ensure a complete understanding of the requested information. Mr. Ptacek agreed to provide a response to the enclosed RAIs within 45 calendar days from the date of this letter. The finalized RAIs are issued as an enclosure to this letter.

J. Jensen

- 2 -

Please feel free to contact me if you need further clarification or have any comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry A. Beltz", is written over a long horizontal line that extends to the right.

Terry A. Beltz, 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

Enclosure:
As stated

cc: Distribution via ListServ

REQUESTS FOR ADDITIONAL INFORMATION (RAI)

REGARDING LICENSEE RESPONSE TO GENERIC LETTER 2008-01

FOR THE DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2

Guidance on Nuclear Regulatory Commission (NRC) staff expectations is provided by Reference 1 which is generally consistent with the Nuclear Energy Institute (NEI) guidance provided to industry in Reference 2 as clarified in later NEI communications. The NRC staff recommends that the licensee consult Reference 1 when responding to the following RAIs:

1. In Reference 4, the licensee states that "CNP (Donald C. Cook Nuclear Plant) procedures and operating practices provide reasonable assurance that the volume of gas in the pump suction piping for the various systems is limited such that pump gas ingestion is within the above PWROG (Pressurized-Water Reactor Owners Group) program established interim criteria."

Please clarify the procedures and design features, and discuss how they are used to determine gas volume. Compare the PWROG interim criteria to Reference 6 and justify the differences.

2. In Reference 4, the licensee stated that "to ensure continued operability, piping segments connected to the safety injection (SI) and coolant charging pump (CCP) suction headers most susceptible to gas accumulation are examined via ultrasonic testing (UT) at six month intervals to identify any voids."

Please clarify the criteria used to locate the piping that is "most susceptible" to gas accumulation.

REFERENCES

1. Ruland, William H., "Preliminary Assessment of Responses to Generic Letter 2008-01, 'Managing Gas Accumulation in emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems,' and Future NRC Staff Review Plans," NRC letter to James H. Riley, Nuclear Energy Institute, dated May 28, 2009 (ADAMS Accession No. ML091390637).
2. Riley, James H., "Generic Letter (GL) 2008-01, 'Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems' Evaluation and 3 Month Response Template," Letter to Administrative Points of Contact from Director, Engineering, Nuclear Generation Division, Nuclear Energy Institute, Enclosure 2, "Generic Letter 2008-01 Response Guidance," dated March 20, 2008.
3. Case, Michael J., "NRC Generic Letter 2008-01: Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," Letter from Director, Division of Policy and Rulemaking, Office of Nuclear Regulation, NRC, dated January 11, 2008 (ADAMS Accession No. ML072910759).

Enclosure

4. Weber, Lawrence J., "Donald C. Cook Nuclear Plant, Units 1 and 2, Docket Nos. 50-315, and 50-316, Nine-Month Response to NRC Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Site Vice President, Donald C. Cook Nuclear Plant, dated October 14, 2008 (ADAMS Accession No. ML082950467).
5. Hruby, Raymond A., "Donald C. Cook Nuclear Plant, Units 1 and 2, Docket Nos. 50-315, and 50-316, Nine-Month Supplemental (Unit 2 Post Outage) Response to Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Vice President, Site Support Services, dated July 24, 2009 (ADAMS Accession No. ML092170084).
6. "Revision 2 to NRC Staff Criteria for Gas Movement in Suction Lines and Pump Response to Gas," dated March 26, 2009 (ADAMS Accession No. ML090900136).

J. Jensen

- 2 -

Please feel free to contact me if you need further clarification or have any comments.

Sincerely,

/RA/

Terry A. Beltz, 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

Enclosure:
As stated

cc: Distribution via ListServ

DISTRIBUTION:

PUBLIC
LPL3-1 r/f
RidsNrrLATHarris Resource
RidsNrrPMDCCook Resource
RidsRgn3MailCenter Resource
RidsNrrDoriLpl3-1 Resource

RidsAcrcsAcnw_MailCTR Resource
RidsOgcRp Resource
RidsNrrDssSrxs Resource
DCunanan, NRR
WLyons, NRR
DWoodyatt, NRR

ADAMS Accession No.: ML092890051

* Concurrence via memo dated 09/29/2009

OFFICE	LPL3-1/PM	LPL3-1/LA	SRXB/BC *	LPL3-1/BC
NAME	TBeltz (JPoole for)	THarris	GCranston	RPascarelli
DATE	10/23/09	10/19/09	09/29/09	10/23/09

OFFICIAL RECORD COPY