



May 4, 2000

C0500-06

Docket Nos.: 50-315
50-316

U.S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Units 1 and 2
SHORT TERM AND PLANNED LONG TERM ENHANCEMENTS TO THE
ELECTRICAL DISTRIBUTION SYSTEM
(TAC NOS. MA6799 AND MA6800)

- References:
- 1) NRC to I&M letter, dated April 20, 2000, "Donald C. Cook – Summary of April 17, 2000, Public Meeting Regarding Under Voltage Protection (TAC NOS. MA6799 and MA6800)"
 - 2) NRC to I&M letter, dated April 28, 2000, "Summary of the March 24, 2000, Public Meeting Regarding Motor Operated Valve Operability with Degraded voltage at the D. C. Cook Nuclear Plant"
 - 3) I&M to NRC letter, dated March 23, 2000, LER 315/99-022-01, "Electrical Bus Degraded Voltage Could Be Too Low For Safety Related Loads"
 - 4) NRC Letter to All Power Reactor Licensees (Except Humbolt Bay), dated August 8, 1979, "Adequacy of Station Electric Distribution Systems Voltages"
 - 5) NRC to I&M letter, dated June 3, 1977, Comparison of Current Emergency Power System Design with Staff Positions Related to "(1) Sustained Degraded Voltage Conditions at the Offsite Power Sources and (2) Interaction Between Offsite and Onsite Emergency Power Systems"

Indiana Michigan Power Company (I&M) is currently making enhancements to the Donald C. Cook Nuclear Plant (CNP) Unit 2 electrical distribution system. CNP is developing plans and procedures to assure reliable offsite power, and will be re-evaluating the licensing and design basis of the onsite and offsite electrical system for future improvements.

The purpose of this letter is to consolidate, reaffirm, and modify commitments made by I&M in LER 99-022-01 (Reference 3) and in discussions in public meetings on March 24, 2000 (Reference 2) and April 17, 2000 (Reference 1). This letter also documents additional commitments made in a NRC phone call on April 26, 2000. This letter supercedes previous commitments made in these meetings and in LER 315/99-022-01.

Restart Commitments for Unit 2 Prior to Entry into Mode 4 from the Current Outage (Current Refuel Cycle 12)

- Installation of 34.5 kVAC switchyard breaker to allow electrical auxiliary loads to be split between transformers TR4 and TR5
- Tap change to transformer TR5 to provide increased bus voltages
- Replacement of motor cables on a containment hydrogen skimmer ventilation fan to improve motor terminal voltage
- Installation of a 120 VAC regulating transformer on each safety train to improve terminal voltages
- Revision, as required, of alarm response procedure for responding to low bus voltage alarms

Restart Commitments for Unit 2 Prior to Closure of the Main Generator Breaker in Mode 1

- Implementation of a System Operations procedure that provides assurance that 1) switchyard voltages will be maintained at levels that support proper in-plant voltages on the safety buses and 2) notification to CNP Nuclear Operations of potential conditions that are outside of these requirements
- Implementation of a CNP Nuclear Operations procedure that properly responds to adverse system conditions as communicated by the System Operations procedure
- Revision of Technical Specification (T/S) Bases 3/4.8 Electrical Power Systems to reflect the requirements for operability of the offsite power system
- Approved Updated Final Safety Analysis Report (UFSAR) change to reflect the requirements for operability of the offsite power system

Restart Commitments for Unit 1 (Current Refuel Cycle 17)

- Analyses, modifications, procedure changes, T/S Bases change, and UFSAR update will be completed, as necessary, in a manner similar to those implemented for Unit 2

Post-Restart Commitments for Units 1 & 2

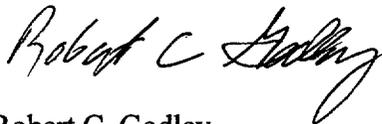
- Unit 1 & 2: Install auto load tap change transformers during a future refueling outage.
- Unit 1 & 2: A re-evaluation of the electrical distribution systems design and licensing bases will be completed during the development of the modifications to install the auto load tap change transformers. The re-evaluation will consider References 4 and 5. License Amendment requests and/or additional modifications identified from this review will be timed for implementation in coordination with NRC, as necessary, to correspond to the installation of the transformers.

I&M will maintain routine discussions with the Nuclear Reactor Regulation Project Manager to assure proper communications during the electrical design re-evaluation phase.

The attachment to this letter identifies those actions committed to by I&M.

Should you have any questions, please contact me at (616) 466-2698.

Sincerely,



Robert C. Godley
Regulatory Affairs Director

/dms

c: J. E. Dyer
MDEQ - DW & RPD, w/o attachment
NRC Resident Inspector
R. Whale, w/o attachment

ATTACHMENT TO C0500-06

COMMITMENTS

The following table identifies those actions committed to by Indiana Michigan Power Company (I&M) in this submittal. Other actions discussed in the submittal represent intended or planned actions by I&M. They are described to the Nuclear Regulatory Commission (NRC) for the NRC's information and are not regulatory commitments.

Commitment	Date
<u>Unit 2:</u> Installation of 34.5 kVAC switchyard breaker to allow electrical auxiliary loads to be split between transformers TR4 and TR5	Mode 4 Refuel Cycle 12
<u>Unit 2:</u> Tap change to transformer TR5 to provide increased bus voltages	Mode 4 Refuel Cycle 12
<u>Unit 2:</u> Replacement of motor cables on a containment hydrogen skimmer ventilation fan to improve motor terminal voltage	Mode 4 Refuel Cycle 12
<u>Unit 2:</u> Installation of a 120 VAC regulating transformer on each safety train to improve terminal voltages	Mode 4 Refuel Cycle 12
<u>Unit 2:</u> Revision, as required, of alarm response procedure for responding to low bus voltage alarms	Mode 4 Refuel Cycle 12
<u>Unit 2:</u> Implementation of a System Operations procedure that provides assurance that 1) switchyard voltages will be maintained at levels that support proper in-plant voltages on the safety buses and 2) notification to Donald C. Cook Nuclear Plant (CNP) Nuclear Operations of potential conditions that are outside of these requirements	Mode 1 Closure of Main Generator Breaker Refuel Cycle 12
<u>Unit 2:</u> Implementation of a CNP Nuclear Operations procedure that properly responds to adverse system conditions as communicated by the System Operations procedure	Mode 1 Closure of Main Generator Breaker Refuel Cycle 12
<u>Unit 2:</u> Revision of Technical Specification (T/S) Bases 3/4.8 Electrical Power Systems to reflect the requirements for operability of the offsite power system	Mode 1 Closure of Main Generator Breaker Refuel Cycle 12
<u>Unit 2:</u> Approved Updated Final Safety Analysis Report (UFSAR) change to reflect the requirements for operability of the offsite power system	Mode 1 Closure of Main Generator Breaker Refuel Cycle 12

Commitment	Date
<u>Unit 1</u> : Analyses, modifications, procedure changes, T/S Bases changes, and UFSAR updates will be completed, as necessary, in a manner similar to those implemented for Unit 2	Prior to Restart from Refuel Cycle 17
<u>Unit 1 & 2</u> : Install auto load tap change transformers	Future Refueling Outage
<u>Unit 1 & 2</u> : A re-evaluation of the electrical distribution systems design and licensing bases will be completed during the development of the modifications to install the auto load tap change transformers. The re-evaluation will consider References 4 and 5. License Amendment requests and/or additional modifications identified from this review will be timed for implementation in coordination with NRC, as necessary, to correspond to the installation of the transformers.	Future Refueling Outage