

September 20, 1988

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Docket Nos. 50-269, 50-270
and 50-287

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - HPI PUMP MOTOR OVERCURRENT
(TACS 68468/68469/68470)

Re: Oconee Nuclear Station - Units 1, 2, and 3

Licensee Event Report, LER 269/87-05 dated February 1, 1988, reported a situation concerning the potential tripping of the high pressure injection (HPI) pump motors on overcurrent for pump startup during a loss-of-coolant accident or loss of offsite power scenario. You determined that the root cause of this event was a design deficiency from an inadequate HPI pump motor overcurrent relay setting. To complete our review of the event and corrective actions, the additional information identified in the enclosure is needed.

Please respond to this request for additional information within 45 days of the date of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original Signed By:
David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects I/II

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PDR ADOCK 05000269
S PNU

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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OFC	:LA:PD23:DRPR:PH:PD23:DRPR:O:PD23:DRPR	:	:	:	:
NAME	: MRood	:	: HPastis:jlm: DMatthews	:	:
DATE	: 9/15/88	:	: 9/20/88	:	: 9/15/88

Mr. H. B. Tucker
Duke Power Company

Oconee Nuclear Station
Units Nos. 1, 2 and 3

cc:

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Honorable James M. Phinney
County Supervisor of Oconee County
Wakulla, South Carolina 29621

REQUEST FOR ADDITIONAL INFORMATION

HIGH PRESSURE INJECTION PUMP MOTOR OVERCURRENT

DOMINEE NUCLEAR STATION, UNIT NO. 1, 2, AND 3

TAC NOS. 68468, 68469, AND 68470

The staff is currently reviewing Licensee Event Report (LER) 269/87-05 dated February 1, 1988, concerning the potential tripping of the high pressure injection (HPI) pump motors on overcurrent for pump startup during a LOCA/LOOP scenario and has the following questions.

1. LER 269/87-05 states that the original settings for the HPI pump motor overcurrent relays were below the locked-rotor thermal change curve as appropriate. The corrective action to prevent the event situation from occurring includes raising the overcurrent relay settings. Do the new settings now exceed the thermal limits of the motors? If not, how much margin remains? Will the motors' performance/life be adversely affected by the higher current and longer duration of the new relay settings?
2. Since the overcurrent relay settings for the HPI pump motors have been increased, what effect does this have on upstream components (overcurrent relays, breakers, etc.)? Have upstream breaker/relay settings been coordinated with the new overcurrent settings?
3. LER 269/87-05 states that the plant's design engineering staff identified by analysis the situation concerning the potential tripping of these motors on overcurrent. Provide a discussion of the analysis for these loads and any other loads analyzed including details such as the electrical system response, bus voltage, etc.