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 RECIP.NAME      RECIPIENT AFFILIATION  
 MURLEY,T.E.      Document Control Branch (Document Control Desk)

SUBJECT: Forwards addl info in support of 2.0 volt interim SG tube support plate plugging criteria for fuel cycle 14, per NRC 940223 telcon request re util 940215 proposed TS amend request.

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Indiana Michigan  
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P.O. Box 16631  
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AEP:NRG:1166M

Donald C. Cook Nuclear Plant Unit 1  
Docket No. 50-515  
License No. DPR-58  
ADDITIONAL INFORMATION IN SUPPORT OF 2.0 VOLT  
INTERIM STEAM GENERATOR TUBE SUPPORT PLATE  
PLUGGING CRITERIA FOR FUEL CYCLE 14

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Attn: T. E. Murley

February 24, 1994

Dear Dr. Murley:

This letter is submitted pursuant to a request for additional information made by your staff during a teleconference held on February 23, 1994. The request is related to our letter AEP:NRG:1166L, dated February 15, 1994, which proposed technical specification changes associated with a 2.0 volt interim steam generator tube support plate plugging criteria for fuel cycle 14. The requested information is contained in the attachment to this letter.

This letter is submitted pursuant to 10 CFR 50.30(b), and, as such, an oath statement is attached.

Sincerely,

E. E. Fitzpatrick  
Vice President

dr

Attachments

cc: A. A. Blind  
G. Charnoff  
J. B. Martin - Region III  
NFEM Section Chief  
NRC Resident Inspector  
J. R. Padgett

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PDR

ADD 1



STATE OF OHIO)  
COUNTY OF FRANKLIN)

E. E. Fitzpatrick, being duly sworn, deposes and says that he is the Vice President of licensee Indiana Michigan Power Company, that he has read the forgoing ADDITIONAL INFORMATION IN SUPPORT OF 2.0 VOLT INTERIM STEAM GENERATOR TUBE SUPPORT PLATE PLUGGING CRITERIA FOR FUEL CYCLE 14 and knows the contents thereof; and that said contents are true to the best of his knowledge and belief.

E. E. Fitzpatrick

Subscribed and sworn to before me this 24<sup>th</sup>  
day of February, 19 94.

Rita D. Hill  
NOTARY PUBLIC

RITA D. HILL  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES 6-28-94

ATTACHMENT TO AEP:NRC:1166M

ADDITIONAL INFORMATION RELATED TO 2.0 VOLT  
INTERIM STEAM GENERATOR TUBE SUPPORT  
PLATE INTERIM PLUGGING CRITERIA  
TECHNICAL SPECIFICATION AMENDMENT REQUEST



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This attachment provides additional information regarding our 2.0 volt steam generator tube support plate interim plugging criteria (IPC) technical specification amendment request (AEP:NRC:1166L dated February 15, 1994). The additional information was requested by the NRC staff during a February 23, 1994, teleconference.

ITEM 1: ADDITIONAL CLARIFICATION INFORMATION

1. All flaw indications with bobbin voltages greater than 1.0 volt will be inspected using a rotating pancake coil probe (RPC).
2. A sample RPC inspection of a minimum of 100 tube support plate intersections will be performed. All intersections with dent voltages exceeding 5.0 volts will be inspected by RPC. Inclusion of other intersections in the sample population will be based on inspecting intersections with artifact indications and intersections with unusual phase angles. Expansion of the sample plan, if required, will be based on the nature and number of the flaws discovered.
3. RPC flaw indications not found by the bobbin probe because of masking effects (due to denting, artifact indications, or noise) will be plugged or repaired.
4. The NRC will be informed, prior to plant restart from the refueling outage, of any unexpected inspection findings relative to the assumed characteristics of the flaws at the tube support plate elevations. This includes any detectable circumferential indications or detectable indications outside the tube support plate.
5. The probability of tube burst, during a postulated main steamline break, will be reported to the NRC prior to startup from the refueling outage.

ITEM 2: CLARIFICATION ON USE OF SMALLER DIAMETER BOBBIN

All steam generator tube support plate intersection inspections will be conducted with a standard 0.720 inch diameter bobbin probe unless tube restrictions prevent passage of the standard probe. A smaller diameter bobbin probe will be used in these instances. A typical situation where the smaller diameter probe would need to be employed is when a hot leg tube end is sleeved (preventing hot leg entry of the standard probe) and U-bend ovality prevents passage of the standard probe from the cold leg side to the hot leg side.





Handwritten marks and symbols in the top right corner, including a cluster of small dots and a few faint lines.

As discussed in our letter AEP:NRC:1166L, we are currently investigating the use of smaller diameter bobbin probes in conjunction with the IPC. It is our understanding that use of a smaller diameter probe will require a rigorous statistical analysis. If the smaller diameter probe is used in conjunction with the IPC, it will be the subject of separate correspondence with the NRC. If this statistical analysis is not conducted, tube repair for tubes requiring a smaller bobbin probe will be based on the standard (i.e., non-IPC) technical specification criterion of 40% throughwall degradation as determined with the smaller bobbin probe.

