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AUTH. NAME AUTHOR AFFILIATION
 BLIND, A.A. Imperial Professional Coatings
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SUBJECT: Special rept: on 940712, two meteorological towers sustained lightning strikes, which damaged number of components in sys. On 940719, another lightning strike occurred making sys inoperable. Repairs made & sys declared operable.

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Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901



July 29, 1994

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
Special Report Technical Specification 3.3.3.4

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
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Gentlemen:

This special report is being submitted in good faith relative to Action Statement "b" of Technical Specification (TS) 3.3.3.4, Meteorological Instrumentation. Action Statement "b" of TS 3.3.3.4 requires the preparation and submittal of a special report pursuant to Specification 6.9.2 following the inoperability of the meteorological monitoring channels that exists for more than 7 (seven) days.

On the evening of July 12 at 2010 hours, two of the plant meteorological towers sustained lightning strikes, which damaged a number of components in the system. After extensive repairs, the system was declared operable on July 19 at 1721 hours. Subsequent to the declaration of operability, another lightning strike occurred on July 19 at 2100 hours, again making the system inoperable. After additional repairs were made, the system was again declared operable on July 23 at 1630 hours.

The meteorological monitoring instrumentation channels were inoperable for 6 (six) days, 21 (twenty-one) hours and 11 (eleven) minutes followed by a short duration of operability. It is in light of the short duration of operability surrounded by periods of inoperability that this letter is being written, even though a special report requirement per Action Statement "b" of TS 3.3.3.4 was not technically required.

The meteorological channel inoperability events pointed to 2 (two) areas of concern:

- 1) The level of spares kept on hand to repair the system. Because of the high number of lightning strikes in a short period of time, more equipment was damaged than spares available. Based on this, the quantity and availability of spare parts is being evaluated.

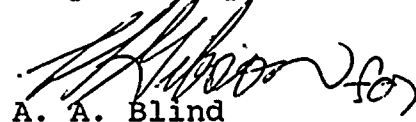
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- 2) The lightning protection system of the meteorological towers. Based on the amount of damage, an engineering evaluation of the lightning protection for the meteorological towers was performed. A preliminary walkdown of the system has brought out a number of shortcomings. Based on this, the susceptibility of the meteorological towers to a lightning strike is being evaluated.

Respectfully,



A. A. Blind
Site Vice President/Plant Manager

c: E. E. Fitzpatrick
J. B. Martin, Region III
NRC Resident Inspector
G. Charnoff
J. R. Padgett
NFEM Section Chief