



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
230 PEACHTREE STREET, N.W. SUITE 1217
ATLANTA, GEORGIA 30303

APR 5 1977

Control File
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In Reply Refer To:

IE:II:NCM

- 50-369
- 50-370
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Duke Power Company
ATTN: Mr. William O. Parker, Jr.
Vice President of Steam Production
422 South Church Street
P. O. Box 2178
Charlotte, North Carolina 28242

Gentlemen:

The enclosed Circular is being distributed for information, in the belief that the subject matter is of sufficient safety significance to warrant specific attention. A reply is not requested.

Sincerely,

Norman C. Moseley
Director

Enclosure:

IE Circular 77-06
"Effects of Hydraulic Fluid
on Electrical Cables"

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Date: April 5, 1977

EFFECTS OF HYDRAULIC FLUID ON ELECTRICAL CABLES

DESCRIPTION OF CIRCUMSTANCES:

Commonwealth Edison Company, by letter to the NRC dated April 1, 1976, (copy enclosed), described the circumstances under which fire resistant hydraulic fluid had a deleterious effect on the insulation and jacketing of electrical cables. While the solvent characteristics of phosphate-ester fire resistant fluids are well documented in literature, it appears that this information may not be generally available to nuclear power plant operating staffs. Our evaluation of this occurrence emphasizes the importance of:

1. Reviewing design and operating procedures for systems containing synthetic hydraulic fluids and other potentially aggressive fluids to minimize the probability of leakage, overflow or inadvertant spill or fluid.
2. Reviewing housekeeping practices to assure that they provide for prompt cleanup of spills or leakage of any type of fluid.

Enclosure:

Letter from Commonwealth Edison Co.
to J. Keppler, Director, Region III
dtd. 4/1/76

DUPLICATE DOCUMENT

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