



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76012

CENTRAL FILES  
PDR:HQ  
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NSIC

September 12, 1979

Docket No. 50-285

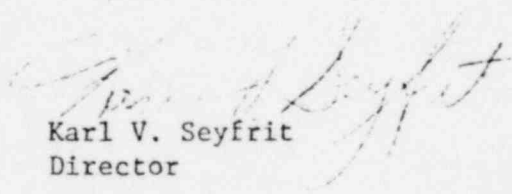
Omaha Public Power District  
ATTN: W. C. Jones, Division Manager -  
Production Operations  
1623 Harney Street  
Omaha, Nebraska 68102

Gentlemen:

Enclosed is IE Bulletin 79-23 which requires action by you with regard to your power reactor facility with an operating license or a construction permit.

Should you have questions regarding this IE Bulletin or the actions required of you, please contact this office.

Sincerely,

  
Karl V. Seyfrit  
Director

Enclosures:

1. IE Bulletin No. 79-23
2. List of IE Bulletins  
Issued in the Last  
Six Months

cc: S. C. Stevens, Manager  
Fort Calhoun Station  
Post Office Box 98  
Fort Calhoun, Nebraska 68102

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

IE Bulletin No. 79-23  
Date: September 12, 1979  
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POTENTIAL FAILURE OF EMERGENCY DIESEL GENERATOR FIELD EXCITER TRANSFORMER

Description of Circumstances:

Florida Power and Light Company recently reported a problem encountered during a 24-hour full load test of the emergency diesel generators (EDG) at their Turkey Point facility. Approximately 10 hours into the test, the A-EDG tripped due to a differential-relay lockout on B and C phases; the B-EDG was manually stopped, thus interrupting the test at that point in time.

Subsequent investigation and testing by the licensee revealed a design error on both the A and B EDGs which resulted in overheating of the Exciter Power Transformers (EPTs) at sustained high load operation.

The following nameplate data applies to the equipment installed at Turkey Point:

Emergency Diesel Generator

General Motors (Electro-Motive Division)  
Model EMD-999-20  
Engine-turbocharged, 2 cycle,  
EMD design 20-645E4  
Generator-EMD-design Model A-20

Exciter Power Transformer

GE-single phase  
Model-9T24Y1004  
Serial-MD  
Cycles-60  
KVA 15  
Insulation-4160 V

The manufacturer's findings and recommendations regarding the above problem are described below:

"A potential problem can exist if the ne  
the primary windings of the excitation p  
to as the control power transformer (CP

DUPLICATE DOCUMENT

Entire document previously  
entered into system under:

ANO 7908 220104

No. of pages: 1

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