



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

CENTRAL FILES
PDR:HQ
LPDR
~~TIC~~
NSIC

September 12, 1979

Docket No. 50-298

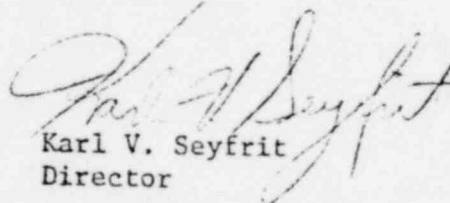
Nebraska Public Power District
ATTN: J. M. Pilant, Director
Licensing & Quality Assurance
Post Office Box 499
Columbus, Nebraska 68601

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: L. C. Lessor, Superintendent
Cooper Nuclear Station
Post Office Box 98
Brownville, Nebraska 68321

7909270 318

1046 064

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

IE Bulletin No. 79-23
Date: September 12, 1979
Page 1 of 3

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 n
the primary windings of the excitation
to as the control power transformer (CP

DUPLICATE DOCUMENT

Entire document previously
entered into system under:

ANO 7908220104

No. of pages: 7

1046 285