



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

TEBA

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In Reply Refer To:

RII:JPO

50-321

50-366

50-424

50-425

Georgia Power Company
Attn: J. H. Miller, Jr.
Executive Vice President
270 Peachtree Street
Atlanta, Georgia 30303

Gentlemen:

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

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

Sincerely,

James P. O'Reilly
Regional Director

Enclosures:

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

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Georgia Power Company

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cc w/encl:

M. Manry, Plant Manager
Post Office Box 442
Baxley, Georgia 31513

C. E. Belflower
Site QA Supervisor
Post Office Box 442
Baxley, Georgia 31513

K. M. Gillespie
Construction Project Manager
Post Office Box 282
Waynesboro, Georgia 30830

E. D. Groover
QA Site Supervisor
Post Office Box 282
Waynesboro, Georgia 30830

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

September 12, 1979

IE Bulletin No. 79-23

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 are described below:

"A potential problem can exist if the neutral of the primary windings of the excitation transformer is connected to the control power transformer (CPT)

DUPLICATE DOCUMENT

Entire document previously entered into system under:

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