

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8211220119 DOC.DATE: 82/11/16 NOTARIZED: NO DOCKET #
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 UHRIG,R.E. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Forwards info re adequacy of station electric distribution voltages in response to 821022 telcon request.No single failure can affect both circuits simultaneously or consequentially such that both required circuits lost.

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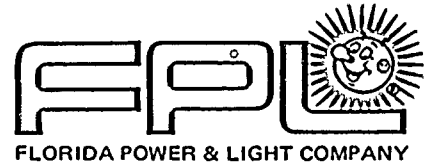
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Fig. 1: Forward ratio dependence of electron-electron interaction voltage as a function of the ratio of the electron and hole currents. The ratio of the electron and hole currents is calculated as the ratio of the electron and hole currents measured at the same time. The ratio of the electron and hole currents is calculated as the ratio of the electron and hole currents measured at the same time.

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November 16, 1982
L-82-509

Office of Nuclear Reactor Regulation
Attention: Mr. S. A. Varga, Chief
Operating Reactors Branch #1
Division of Operating Reactors.
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Varga:

Turkey Point Units 3 & 4
Docket Nos. 50-250 and 50-251
Adequacy of Station Electric
Distribution System Voltages

As requested in a telephone conversation with members of the NRC staff on October 22, 1982, we have prepared a discussion of General Design Criteria 17 as it applies to Turkey Point Units 3 & 4. This discussion is attached.

Should you or your staff have any additional questions on this subject, please contact us.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/PLP/js

cc: Mr. J. P. O'Reilly, Region II
Harold F. Reis, Esquire

A015

Re: Turkey Point Units 3 & 4
Docket No. 50-250, 50-251
Adequacy of Station Electric
Distribution System Voltages

Response to NRC statement on Adequacy of Station Electric Distribution

System Voltage: GDC17 received in telephone conversation October 22, 1982.

NRC STATEMENT:

"The licensee is required to provide the results of a review to determine if any single event or condition exists in the PTP plant electrical system which could result in the simultaneous or consequential loss of both required offsite power circuits to the onsite distribution system and thus violating the requirements of GDC17."

FPL RESPONSE:

The onsite electrical distribution system for each unit is supplied by two separate and independent offsite sources. One required circuit for each unit is supplied via the unit's start-up transformer. The other required circuit is supplied by the adjacent unit's start-up transformer. Each start-up transformer is connected by separate, independent highlines to separate busses in the switchyard. Each transformer is connected to the unit's onsite distribution system via separate cables and breakers. No single failure can affect both circuits simultaneously or consequentially such that both required circuits are lost. Thus the requirements of GDC17 are met.

