

August 5, 1988

Docket No. 50-302

Mr. W. S. Wilgus
Vice President, Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Licensing
P. O. Box 219
Crystal River, Florida 32629

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Dear Mr. Wilgus:

SUBJECT: CRYSTAL RIVER UNIT 3 - EMERGENCY DIESEL GENERATOR
VOLTAGE DIPS

By letter dated February 29, 1988, you submitted results of the tests performed to validate the calculated voltage dips at the 4160 volt level resulting from the application of successive load blocks to the emergency diesel generator (EDG). As we noted in our letter of June 15, 1988, the submitted information is not adequate to permit the staff to draw satisfactory conclusions. In order to permit completion of our review, you are requested to provide the following information within 30 days of the date of this letter.

- a) What is the normal voltage (steady state) at the 4160V bus? This value should be the selected base value for calculation of voltage dips in terms of percent.
- b) The original test tracing of time vs. voltage uses a conversion formula of 150 mm peak-to-peak = 70V RMS. Describe the calibration of the recorder to arrive at this conversion formula.
- c) Provide the voltage measurements that were taken during the tests at the 480V and 120V loads. If no such measurements were taken, submit the voltage analysis, including assumptions and taking into consideration all impedances in the circuits and the bus loadings at the worst case condition, which establish the resulting voltage dips at the 480 and 120V loads.

Sincerely,

Original signed by

Harley Silver, Project Manager
Project Directorate II-2
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

cc: See next page

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Mr. W. S. Wilgus
Florida Power Corporation

Crystal River Unit No. 3 Nuclear
Generating Plant

cc:

Mr. R. W. Neiser
Senior Vice President
and General Counsel
Florida Power Corporation
P. O. Box 14042
St. Petersburg, Florida 33733

State Planning and Development
Clearinghouse
Office of Planning and Budget
Executive Office of the Governor
The Capitol Building
Tallahassee, Florida 32301

Mr. P. F. McKee
Director, Nuclear Plant Operations
Florida Power Corporation
P. O. Box 219
Crystal River, Florida 32629

Mr. F. Alex Griffin, Chairman
Board of County Commissioners
Citrus County
110 North Apopka Avenue
Inverness, Florida 36250

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
1700 Rockville Pike, Suite 525
Rockville, Maryland 20852

Mr. E. C. Simpson
Director, Nuclear Site
Florida Power Corporation Support
P.O. Box 219
Crystal River, Florida 32629

Resident Inspector
U.S. Nuclear Regulatory Commission
15760 West Powerline Street
Crystal River, Florida 32629

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 3100
Atlanta, Georgia 30323

Jacob Daniel Nash
Office of Radiation Control
Department of Health and
Rehabilitative Services
1317 Winewood Blvd.
Tallahassee, Florida 32399-0700

Administrator
Department of Environmental Regulation
Power Plant Siting Section
State of Florida
2600 Blair Stone Road
Tallahassee, Florida 32301

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, Florida 32304