Docket No. 50-334

DISTRIBUTION Docket File NRC PDR

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Mr. J. J. Carey, Vice President Duquesne Light Company Nuclear Group Post Office Box 4

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Shippingport, PA 15077

R. Eckenrode D. Miller

Dear Mr. Carey:

Subject: Request for Additional Information, Beaver Valley Unit 1, Safety

Parameter Display System (TAC 51221)

By letter dated April 15, 1983, Duquesne Light Company responded to Generic Letter 82-33. Our review of your response is ongoing.

During our review, we developed a number of questions regarding the Safety Parameter Display System. These questions are presented in the enclosure to this letter. Please respond to these within 45 days of receipt of this letter.

The reporting and/or recordkeeping requirements of this letter affect fewer than 10 respondents; therefore, OMB clearance is not required under P. L. 96-511.

Sincerely,

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Peter S. Tam, Project Manager PWR Project Directorate #2 Division of PWR Licensing-A Office of Nuclear Reactor Regulation

Enclosure: As stated

cc: See next page

4/1/86

PM: PAD#2 PTam: hdV>

Semaker

Mr. J. J. Carey Duquesne Light Company Beaver Valley 1 Power Station

cc: Mr. W. S. Lacey Station Superintendent Duquesne Light Company Beaver Valley Power Station Post Office Box 4 Shippingport, Pennsylvania 15007

Mr. S. Sovick, Acting Superintendent of Licensing and Compliance Duquesne Light Company Post Office Box 4 Shippingport, Pennsylvania 15077

Mr. John A. Levin
Public Utility Commission
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Harrisburg, Pennsylvania 17120

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Department of Environmental Resources ATTN: Director, Office of Radiological Health Post Office Box 2063 Harrisburg, Pennsylvania 17105 Mr. Thomas J. Czerpah Mayor of the Burrough of Shippingport Post Office Box 26 Shippingport, Pennsylvania 15077

Pennsylvania Power Company James R. Edgerly Post Office Box 891 New Castle, Pennsylvania 16103

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Governor's Office of State Planning and Development ATTN: Coordinator, Pennsylvania State Clearinghouse Post Office Box 1323 Harrisburg, Pennsylvania 17120

Mr. Jess T. Shumate, Commissioner State of West Virginia Department of Labor 1900 Washington Street, East Charleston, West Virginia 25305 cc:

David K. Heydinger, M.D.
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State Department of Health
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Regional Administrator, Region I U.S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, Pennsylvania 19406

Mr. Thomas M. Gerusky, Director Bureau of Radiation Protection Pennyslvania Department of Environmental Resources P.O. Box 2063 Harrisburg, Pennsylvania 17120

BEAVER VALLEY UNIT 1

REQUEST FOR ADDITIONAL INFORMATION SAFETY PARAMETER DISPLAY SYSTEM

Each operating reactor shall be provided with a Safety Parameter Display System (SPDS). The Commission approved requirements for an SPDS are defined in NUREG-0737, Supplement 1. In the Regional workshops on Generic Letter 82-33 held during March 1983, the NRC discussed these requirements and the staff's review of the SPDS.

The staff reviewed the SPDS safety analysis and supplemental documents. The staff was unable to complete the review because of insufficient information. The following additional information is required to continue and complete the review:

Isolation Devices

Please provide the following:

- a. For the type of device used to accomplish electrical isolation, describe the specific testing performed to demonstrate that the device is acceptable for its application(s). This description should include elementary diagrams when necessary to indicate the test configuration and how the maximum credible faults were applied to the devices.
- b. Data to verify that the maximum credible faults applied during the test were the maximum voltage/current to which the device could be exposed, and define how the maximum voltage/current was determined.
- c. Data to verify that the maximum credible fault was applied to the output of the device in the transverse mode (between signal and return) and other faults were considered (i.e., open and short circuits).
- d. Define the pass/fail acceptance criteria for each type of device.
- e. Provide a commitment that the isolation devices comply with the environment qualifications (10 CFR 50.49) and with the seismic qualifications which were the basis for plant licensing.
- f. Provide a description of the measures taken to protect the safety systems from electrical interference (i.e., Electrostatic Coupling, EMI, Common Mode and Crosstalk) that may be generated by the SPDS.
- g. Provide information to verify that the Class IE isolator is powered from a Class IE source.