



## Duquesne Light

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April 24, 1984

United States Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Mr. George W. Knighton, Chief  
Licensing Branch 3  
Office of Nuclear Reactor Regulation

SUBJECT: Beaver Valley Power Station - Unit No. 2  
Docket No. 50-412  
Detailed Control Room Design Review

Gentlemen:

On August 8, 1983, DLC submitted the Program Plan Report for the Detailed Control Room Design Review (DCRDR). Contained in this report was a section entitled "Management and Staffing." This section outlined the structure of the DCRDR team and the minimum qualifications for the team members. The qualifications of the Instrumentation and Control (I&C) Engineer and the Reactor Operator (RO) appointed to the team are equivalent to those contained in this Program Plan. The following discusses the qualifications of these individuals for NRC review.

The Program Plan requires the RO to have, as a minimum, a reactor's license or an SRO certification. Mr. R. G. Orendi, who will be serving as the RO on the team, had a Nuclear Shift Reactor Engineer's certification (equivalent of an SRO certification) at the Shippingport Atomic Power Station from 1974 to 1980 with DLC. Mr. Orendi is presently working at Westinghouse Electric Corp. and no longer maintains this certification. DLC feels that with the support that will be provided by BVSP Units 1 and 2 licensed operating staff, Mr. Orendi meets the intent of the program plan qualifications. Mr. Orendi's resume is attached.

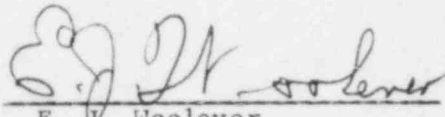
The minimum qualifications for the I&C Engineer on the core team are B.S. in engineering and five years of I&C engineering experience (with at least two years in the nuclear design area). Mr. W. J. Catullo, Jr., of Westinghouse Electric Corporation has been appointed to fulfill the obligations of this individual on the core team. Mr. Catullo has a B.S. in Electrical Engineering and has four years of I&C engineering experience all of which have been in the nuclear design area. Mr. Catullo has established an impressive experience base in the area of Westinghouse PWR control board design and implementation as well as a detailed understanding of control room design reviews. DLC recognizes Mr. Catullo's leadership and job knowledge and feels his specific experiences and education denoted in his attached resume demonstrate that Mr. Catullo has equivalent qualifications and meets the intent of the program plan.

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Work is well underway on the CRDR. DLC will be notifying the NRC in the near future to schedule an in-progress audit prior to the task analysis phase. If you should have any questions, please contact Mr. E. T. Eilmann, DCRDR Core Team Leader, at (412) 787-5141, extension 143.

DUQUESNE LIGHT COMPANY

By   
E. V. Woolever  
Vice President

ETE/wjs  
Attachment

cc: Mr. H. R. Denton, Director NRR (w/a)  
Mr. D. Eisenhut, Director Division of Licensing (w/a)  
Mr. G. Walton, NRC Resident Inspector (w/a)  
Mr. M. Lacitra, NRC Project Manager (w/a)

RESUME OF W. J. CATULLO, JR.

Cognizant Engineer  
Electrical Systems & Control Boards  
Westinghouse Electric Corporation

EDUCATION:

- B.S. in Electrical Engineering, University of Pittsburgh
- Specialty courses in human factors and simulator training, Westinghouse Electric Corporation:
  - a) "Pressurizer Water Reactors (PWR) Information Course"
  - b) "Introduction to Power Plant Operations" (simulator training)
  - c) "Human Factors Seminar as Related to Main Control Boards in Nuclear Power Plants," by J. L. Seminara, S. K. Eckert
- Specialty courses in state-of-the-art engineering:
  - a) "Applications of Microprocessors," J. T. Cain, University of Pittsburgh
  - b) "Innovation Seminar," Massachusetts Institute of Technology

WORK EXPERIENCE:

June 1982 to present:

Westinghouse Electric Corporation, Nuclear Service Integration Division

- Cognizant design engineer for the implementation phase of the Byron Units 1 and 2 and Marble Hill Units 1 and 2 Detailed Control Room Design Review.
- Cognizant design engineer for the Byron/Braidwood/Marble Hill electrical power systems and main control board design.
- Cognizant design engineer for Napot Point (Philippines) electrical power systems.

June 1982 to present:

Community College of Allegheny County, Evening Division

- Instructor of mathematics

RESUME OF W. J. CATULLO, JR.

EXPERIENCE: (continued)

February 1981 to June 1982:

Westinghouse Electric Corporation, Nuclear Technology Division

- Associate Engineer; participated in the functional design of a Disturbance Analysis System by applying flow modeling techniques developed by Morton Lind of RISO Laboratories.
- Associate Engineer; co-authored the functional requirements for the Westinghouse Supervisory Island.
- Associate Engineer; participated in advanced operator warning system designs utilizing voice synthesis techniques.
- Associate Engineer; established a static and dynamic test procedure for the Westinghouse Iconic Display System.

April 1980 to February 1981:

Westinghouse Electric Corporation, Strategic Operations Division

- Associate Engineer; participated in the design of the Westinghouse Technical Support Complex.
- Associate Engineer; participated in the design of the Westinghouse Advanced Computer System used to support the Westinghouse Advanced Control Room.
- Associate Engineer; designed a Database Management System for Task Analysis and Advanced Control Room Design.

June 1979 to September 1979:

Westinghouse Electric Corporation, summer student

- Designed and manufactured a Metal Impact Monitoring System display unit.

MEMBERSHIPS:

"Who's Who Among Students in American Junior Colleges"

ROBERT G. ORENDI

FIELD: Nuclear Operations

Total Experience: 13 years  
Westinghouse: 2 years

PROGRAM RESPONSIBILITIES: Supporting documentation development and review of documentation

RELATED PROFESSIONAL BACKGROUND:

1983 - PRESENT      SENIOR ENGINEER, PLANT OPERATIONS AND EVALUATION,  
WESTINGHOUSE NUCLEAR TECHNOLOGY DIVISION (NTD)

Responsible for participation in WOG Emergency Response Guideline (ERG) Programs. Coordinator for the D.C. Cook EOP program. Participated in presenting ERG seminars at North Anna and Taiwan. Currently involved in Control Room Design Review (CRDR) task analysis programs.

(1981-1983)      SENIOR ENGINEER, INSTALLATION AND STARTUP SERVICES,  
W NUCLEAR OPERATIONS DIVISION (NOD)

Responsible for development of plant specific Emergency Operating Procedures (EOPs) and detailed startup procedures for W PWR plants. Responsibilities include the preparation and review of procedures as well as overall program coordination. Participated in the San Onofre Generating Station Unit 1 and Manshaan Station EOP programs.

(1980-1981)      SENIOR ENGINEER, EMERGENCY PLANNING SERVICES, ENERGY  
CONSULTANTS, INC. (ECI)

Responsible for development of Emergency Response Plans and associated implementing procedures for the Three Mile Island, Unit 1 and Oyster Creek nuclear power plants. Responsibilities included procedure preparation, procedure walk-throughs and emergency drill coordination.

(1974-1980)      SHIFT REACTOR ENGINEER, SHIPPINGPORT ATOMIC POWER  
STATION, DUQUESNE LIGHT COMPANY

Licensed Senior Reactor Operator (SRO) on the Light Water Breeder Reactor (LWBR) at the Shippingport Atomic Power Station (December 21, 1974 through April 16, 1980). Responsible for performing and maintaining records of all reactor systems' operational checks, coordinating all waste processing activities, preparing and revising all operational procedures, and performing the duties of Shift Supervisor on a periodic basis. Also, coordinated all operational, maintenance and testing activities during semi-annual shutdowns.

(1970-1974)      TEST ENGINEER, DUQUESNE LIGHT COMPANY

Responsible for performance of efficiency tests on operating power station equipment to determine need for cleaning and/or repairs.

EDUCATION AND PROFESSIONAL AFFILIATIONS;

- o Associate Engineer, Pennsylvania State University (1956)
- o B.S. Mechanical Engineering, Pennsylvania State University (1970)
- o M.S. Nuclear Engineering, Carnegie-Mellon University (1980)
- o Member American Society of Mechanical Engineers
- o Member American Nuclear Society
- o Professional Engineer, Pennsylvania Certificate No. PE-033404-E