

Babcock & Wilcox

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2-21/73
Power Generation Division

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February 19, 1973

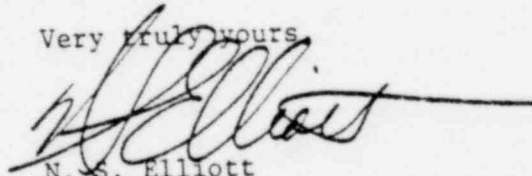
Mr. Paul Collins
Chief, Operator Licensing Branch
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Collins:

In an effort to update and make the Babcock & Wilcox training programs more effective, I have conducted a review of our programs and made a number of proposed revisions to our "cold" license training program. Enclosure I is a copy of our revised "cold" license program which is submitted for review with respect to meeting the requirements of Section 55.25(b) of 10 CFR, Part 55. It is requested that you conduct a review of this material and forward your comments to me at the earliest possible time.

Enclosure II is a summary of the experience levels of the B&W instructors who conduct instruction on our simulator. This information combined with the description of our simulator facility forwarded to you on January 15, 1973 should provide a comprehensive picture of our capabilities to train nuclear power plant operators. In addition, this information provides an up-to-date status of our meeting the considerations specified in Mr. Frank L. Kelly's letter to Mr. James C. Deddens of December 20, 1968.

Very truly yours,


N. S. Elliott
Manager - Nuclear Training

NSE/ea

Enclosures (2)

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ENCLOSURE II

CALVIN E. GOSLOW

PROFESSIONAL EXPERIENCE

1. Operating Experience:

- a. Senior Reactor Operator License for H. B. Robinson, Unit #2. (SOP 1360)
- b. Senior Reactor Operator License for CVTR. (SOP 747)
- c. Reactor's Operator License for CVTR. (CP 1791)
- d. Carolinas/Virginia Nuclear Power Associates, Shift Supervisor - Charge of reactor operation, on shift, of a Prototype Power Reactor. Supervised the plant during periods of critical testing, power operation.
- e. Carolinas/Virginia Nuclear Power Associates, Reactor/Health Physics Technician - Operated the controls of a Prototype Power Reactor. Responsible for radiation control on shift. Performed routine surveys, sampled radioactive waste for release, issued radiation work permits, and provided health physics coverage.
- f. Carolina Power & Light Company, Control Operator - Operated the controls of a steam generating plant, maintained operating records and was responsible for the operation of the switchgear. Assisted in the start-up of a 650 Mwe generating unit.
- g. U.S. Navy, Boilerman - Qualified nuclear plant operator, and Engineering Laboratory Technician at two Navy reactor facilities. Served as a Boilerman on a Destroyer.

2. Support Experience:

- a. Carolina Power & Light Company, Radiation Control and Test Foreman - Organized and supervised the Radiation Control and Test Group at a large power reactor.
- b. Supervised the start-up test group. Directed construction follow-up, equipment check-out, and procedure writing.
- c. Served on the Plant Nuclear Safety Committee. Review all operating and test procedures, unusual occurrences, safety related incidents, and plant operation in general.
- d. Co-authored the Plant Radiation Protection Manual.

3. Training Experience:

- a. Supervisor Classroom Training. Babcock & Wilcox Company - Responsible for supervision, scheduling, documentation, material preparation, and development of classroom training programs.
- b. Babcock & Wilcox Training Instructor - Conducted training on a PWR Simulator; including classroom lectures, simulator operation, and test preparation for nuclear plant staff training.

c. Radiation Control and Test Foreman, conducted the Radiation Control Training Program for plant personnel. Supervised in-plant, on-the-job training of plant operators during initial construction phases.

d. Shift Supervisor, responsible for on-shift training of plant operator in Reactor Operation, Health Physics, and Industrial Safety.

4. Related Experience:

a. Supervisor Classroom Training/Training Instructor, audited Phase II, III, IV, and V training programs for plant operators.

PHILLIP E. GRIFFITH

PROFESSIONAL EXPERIENCE

1. Power Plant Operating Experience:

- a. USS Nautilus - Reactor Operator (48 months), Electric Plant Operator and Reactor Plant Mechanical Watchstander. Including one major overhaul and one refueling.

2. Power Plant Support Experience:

- a. USS Nautilus - Electronic technician - Responsible for maintenance and upkeep of all Reactor Control Instrumentation and Control Equipment including two major overhauls.
- b. Babcock & Wilcox Company - Preparation of plant operating procedures for mechanical and Instrumentation and Control Systems for Oconee Unit One.

3. Instructor Experience:

- a. USS Nautilus - Responsible for instruction and qualification of Reactor Operators and Technicians.
- b. Babcock & Wilcox Company - Instructor classroom Phase III training for B&W customers in Instrumentation and Controls and Plant Operations.
- c. Babcock & Wilcox Company - Instructor 850 Mwe class nuclear simulator, including classroom and control room instructions.

4. Other Related Experience:

- a. Bailey Meter Company - Processing Reactor Protection Systems, including preparation of system schematics, calibration data, and technical manuals. Also preparation of technical manuals for Engineered Safeguards Systems.

ARTHUR OXFURTH

PROFESSIONAL EXPERIENCE

1. Power Plant Operating Experience:

- a. U.S. Navy, Leading Petty Officer Reactor Control Division. Reactor Operator (44 months) - Supervisor of maintenance/operation of reactor control/reactor protection instrumentation.

2. Power Plant Support Experience:

- a. Babcock & Wilcox Nuclear Service Engineer - Preparing plant operating procedures and test specifications for B&W customers.
- b. VEPCO, Surry Nuclear Power Station, Instrument Technician - Responsible for maintenance of Westinghouse nuclear instrumentation, Teleflex incore flux mapping system, Hagan process control instrumentation, and auxiliary systems. Westinghouse P-50 computer (W-251-AA Gas Turbine), electropneumatic instruments and controls (W-191-G Gas Turbine).
- c. U.S. Navy, Leading Reactor Control Petty Officer - Responsible for maintaining reactor control and nuclear instrumentation equipment (Submarine Prototype Nuclear Propulsion Plant).

3. Instructor Experience:

- a. Babcock & Wilcox Company, Instructor for Nuclear Training Center.
- b. Training Coordinator Practical Operating Experience at H. B. Robinson, Unit #2 for Arkansas Power & Light and Duke Power Company.
- c. Training Coordinator PWR Technology Course at Toledo Edison Company.
- d. U.S. Navy, Instructor - Responsible for instructing reactor control and nuclear instrumentation equipment (Submarine Prototype Nuclear Propulsion Plant).

4. Other Related Experience:

- a. Conducted audits for Phase II, Practical Operating Experience Program for Toledo Edison Company engineers and operators.

PROFESSIONAL EXPERIENCE

1. Power Plant Operating Experience:
 - a. Reactor Operator, SL-1 Nuclear Power Plant, Idaho Falls, Idaho
 - b. Shift Supervisor, PM-3A Nuclear Power Plant - Supervised a shift during plant construction and testing. This included factory assembly and testing, shipment and reassembly of the plant at McMurdo Station, Antarctica.
 - c. Shift Supervisor, SM-1, Nuclear Power Plant - Progressed from initial assignment as Training Equipment Operator through qualification as Equipment Operator Control Room Operator and Shift Supervisor. Responsible for all plant operations and testing during my assigned shift as Shift Supervisor.
2. Power Plant Support Experience:
 - a. Maintenance and Supply Supervisor, PM-3A Nuclear Power Plant - Supervised instrument, electrical and mechanical maintenance technician in performance of preventive maintenance, plant modifications, repairs, and testing of all plant components and systems.
 - b. Assistant Project Engineer, PM-3A Nuclear Power Plant - Assisted the Project Engineer in providing engineering support for Operation, maintenance and modification of the Navy's Nuclear Power Plant, McMurdo Station, Antarctica. Drafted specification for engineering support contracts, reviewed reports and procedures submitted by various engineering branches and contractors and monitored contracts and in-house engineering studies from conception to completion. Represented the Navy during test, modification and fabrication of plant components at civilian manufacturing firms.
 - c. Supervisor, Mechanical Maintenance at the SM-1 Nuclear Power Plant.
 - d. Service Engineer, Nuclear Service - Responsible for preparing plant operating procedures and test specifications for Babcock & Wilcox customers.
3. Instructor Experience:
 - a. Instructor and Supervisor, Replacement Crew Training for the PM-3A Nuclear Power Plant, McMurdo Station, Antarctica - Responsible for development of initial training program and for teaching the Nuclear Steam System, Components, and NSS Auxiliary Systems.
 - b. Instructor, SM-1 Nuclear Power Plant - Instructed Nuclear Power Plant Operators Course trainees during the operations phase of their training. Positions included Equipment Operator, Reactor Operator and Shift Supervisor.
 - c. Instructor and Supervisor at a 850 Mwe Nuclear Power Plant Simulator Instructions at The Babcock & Wilcox Nuclear Training Center.
 - d. Instructor for Pressurized Water Reactor Technology Course (Phase III) for customers, operators, and engineers.

4. Other Related Experience:

- a. Training Programmer and Coordinator, Naval Nuclear Shore Power Program - Responsible for postgraduate assignments of Naval personnel to operating plants in the Nuclear Power Program and for ultimately providing a well-balanced and well-trained relief Crew for the PM-3A Nuclear Power Plant, McMurdo Station, Antarctica on an annual basis. Provide guidance for preparatory study programs and counsel students during the 52 week Nuclear Power Plant Operators Course (NPPOC). Voting member of Academic Review Board for the NPPOC.
- b. Training Auditor - Prepared and administered typical AEC written examinations for potential Duke Power Company Reactor Operator and Senior Reactor Operator candidates. Prepared and administered typical AEC oral examinations for potential Duke Power Company Reactor Operators and Senior Reactor Operators "cold" license candidates.

HERBERT G. SMITH

PROFESSIONAL EXPERIENCE

1. Power Plant Operating Experience:

- a. SM-1 Nuclear Power Plant, Fort Belvoir, Virginia - Served as Shift Supervisor (30 months), Reactor Operator (8 months) and Auxiliary Operator (4 months).
- b. PM-3A Nuclear Power Plant, McMurdo Sound, Antarctica - Served as Shift Supervisor (10 months) and Reactor Operator (2 months).

2. Power Plant Support Experience:

- a. Served as Operations Supervisor at the PM-3A Nuclear Power Plant and Water Desalinization Plant.
- b. Served as Maintenance Supervisor at the PM-3A Nuclear Power Plant and Water Desalinization Plant. Directed electrical, instrumentation, and mechanical technicians in preventive and scheduled maintenance, overhaul and plant modifications.

3. Instructor Experience:

- a. Instructor, Babcock and Wilcox Nuclear Training Simulator. Instruct potential nuclear power plant operators on the operation of B&W's Pressurized Water Nuclear Steam System.
- b. While serving at the SM-1 Nuclear Power Plant, I was responsible for instructing officers and civilian personnel undergoing Nuclear Plant Engineer and Officer in Charge courses of instruction. Substituted for the Operations Supervisor during his temporary absence.

4. Other Related Experience:

- a. Served as Senior Enlisted Advisor and Training Programmer for the Navy's Shore Nuclear Power Program.