THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

March 21, 1985
PY-CEI/NRR-0209 L

Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Verification of Operating
Crew Qualifications

Dear Mr. Youngblood:

This letter and its attachments are provided in response to your February 19, 1985 letter which expressed your staff's concern regarding the verification of Perry operating crew qualifications. The attached revised pages of the FSAR, to be included in Amendment 18, reflect key Perry operating personnel changes. Included are the resumes of Perry personnel who are expected to fill the position of Shift Technical Advisor (i.e., Remick - Resume No. 53, Curran - No. 59, Roberts - No. 62, Storch - No. 63, Miller - No. 64, Phillips - No. 65, Soper - No. 66 and Ellis - No. 67).

Please feel free to contact me if you should have any questions.

Very truly yours,

Murray R. Edelman
Vice President
Nuclear Group

MRE:njc

Attachments

cc: Jay Silberg, Esq.
John Stefano (2)
J. Grobe

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TABLE 13.1-3 (Continued)

RESUME NO. 9

Name: Jack H. Bellack, General Supervising Engineer, Nuclear Design and Analysis Section

Formal Education and Training:

B.S. Electrical Engineering, Michigan Technology University, 1949
M.S. Engineering Administration, Case Western Reserve University, 1963

Experience:

1954 - Present: The Cleveland Electric Illuminating Company

Joined CEI as an Associate Engineer in 1954. From 1954 through 1967, held various engineering positions in the Plant and Substation Engineering Department. As Senior Engineer was responsible for the electrical design activities on several fossil-fired power plants.

In 1967, was named General Supervising Engineer, Electrical Projects Section responsible for the overall design of all Company transmission and distribution substations.

From 1977 through 1980, served as General Supervising Engineer on three one-year assignments: In System Planning as head of System Development responsible for planning the System Transmission and Distribution facilities; In Transmission and Distribution Engineering as head of Overhead Engineering responsible for design of high voltage transmission and planning of the distribution design; In System Planning as head of Planning Services responsible for budgeting and coordinating the Company's construction program.

In August 1980, was placed on special assignment at Perry Plant on New Unit and Cost Administration studies. In February 1981, became General Supervisor of the Administration and Special Projects Section. Was responsible for Perry Plant cost administration, records management, procedures and internal review, and a corporate activity on new generation design and siting studies.

On March 15, 1982 was named General Supervising Engineer, Nuclear Design and Analysis Section. As such, is responsible for the technical support on various licensing, start-up, and preoperational requirements. The Section assumes engineering responsibility for all systems turned over to Operations and will provide all design for modifications and additions to the operating plant. Reports to the Manager, Nuclear Engineering Department.

Professional Memberships:

Institute of Electrical and Electronic Engineers including Chairman of the Battery Working Group, Power Generation Committee
Cleveland Engineering Society
Registered Professional Engineer, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 29

Name: Thomas E. Mahon, General Supervisor, Site Protection Section

Formal Education and Training:

Police Community Relations, Michigan State University, 1963
Urban Guerrilla Warfare, F.B.I. Washington, D.C., 1971
National Symposium on Terrorism, F.B.I. Training Academy Quantico, Virginia, 1973
Ohio Organized Crime - Law Enforcement Training Conference Columbus, 1973
Associate-Degree Law Enforcement, Cuyahoga Community College, 1974
Dignitary Protection, U. S. Secret Service School, 1976
Terrorism Seminar, F.B.I. Academy, Quantico, Virginia, 1977
Workshop on Terrorism and Dignitary Protection, Illinois State Police, Springfield, Illinois, 1977

Experience:

1979 - Present: The Cleveland Electric Illuminating Company

Joined CEI in 1979 as Security Supervisor in the Perry Plant Department. Duties included the development and implementation of the Perry Plant Security Plan and selection and training of the permanent security force. In 1985, promoted to present position of General Supervisor, Site Protection Section, responsible for all plant security activities. Reports to the Manager, Perry Plant Technical Department.

1962 - 1979: Cleveland Police Force

Progressed from Patrolman to Detective to Sergeant in the period from 1962 to 1971. In 1971, promoted to Lieutenant, Officer in charge of the Headquarters Intelligence Unit. Supervised staff of 15 detectives and 2 sergeants with responsibility for all special investigations including terrorist activities and racial and religious conflicts.

1960 - 1961: General Acceptance Corporation

Management Trainee

1957 - 1960: U. S. Air Force

Radar Operator

Professional Memberships:

Crime Clinic, Inc.
American Society Of Industrial Security
American Nuclear Society

TABLE 13.1-3 (Continued)

RESUME NO. 39

Name: William T. Burkhart, Radwaste Supervisor, Operations Section

Formal Education and Training:

Undergraduate Courses in Chemistry and Biology, Kent State University, 1970-1972
Associates Degree in Marine Laboratory Technology, Cape Fear Technical Institute, 1975
Certified Grade IV Wastewater Treatment Plant Operator, Cape Fear Technical Institute, 1978
Radioactive Waste Packaging, Transportation, and Disposal Seminar, Chem-Nuclear Systems, Inc., 1984

Experience:

1982 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Senior Engineering Technician assigned to the Radiation Protection Section, Perry Plant Technical Department. Responsibilities included preparation and review of radwaste procedures and instructions. Assigned as Acting Radwaste Unit Supervisor, October, 1982, responsible for supervision of Radwaste Unit personnel. Qualified Level II Test Engineer, July, 1983, working with Nuclear Test Section on testing of liquid and solid radioactive waste systems. Qualifed Level III Test Engineer, June, 1984. Promoted to present position of Radwaste Unit Supervisor in December, 1984, reporting to the General Supervisor, Operations Section.

1980 - 1982: Carolina Power and Light Company

Joined CP&L as Auxilliary Operator B at the Brunswick Steam Electric Plant. Promoted to Auxilliary Operator A, Radwaste in 1981, and to Radwaste Control Operator in 1982. Responsibilities included operation of radwaste systems and associated record-keeping, and supervising auxilliary operators.

1977 - 1980: Cape Fear Technical Institute

Part-Time Instructor for North Carolina Wastewater Treatment Plant Operator Certification Course.

1978 - 1980: DePoortere Corporation

Wastewater Treatment Plant Operator and Laboratory Technician. Managed operation of 0.8 MGD activated sludge wastewater treatment plant and performed associated laboratory analyses. Responsible for required monitoring reports.

William T. Burkhart

TABLE 13.1-3 (Continued)

RESUME NO. 39 (Continued)

Experience:

1975 - 1978: City of Wilmington, NC

Laboratory Technician. Collected samples from wastewater treatment plant and performed various laboratory analyses.

TABLE 13.1-3 (Continued)

RESUME NO. 53

Name: Thomas A. Remick, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering, University of Cincinnati, 1981
Six-Week Station Nuclear Engineering Course (GE), 1982
Five-Week Perry Nuclear Power Plant Technology Course (GE), 1982
Nine-Week Operator Training Course, Perry Simulator (GE), 1982 (SRO Certification)
One-Week Abnormal Event Analysis Course (GE), 1983
Initial Cold License Course, 1983-1985

Experience:

1981 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included system reviews, support of turnover activities, and writing Local Leak Rate Test Procedures. Promoted to current position of Associate Operations Engineer in 1983. Participated in the cold license program, successfully completing the NRC written and simulator exams with the oral exam still to be taken. Spent eleven months at the Susquehanna Steam Electric Station serving as a Test Director in the Unit 2 Initial Power Ascension Program. Participated in final procedure preparation, fuel load, and power testing through to the completion of almost all of the 100% power tests. Currently involved in the development of the Power Ascension Test Program for Perry Unit #1. Reports to the General Supervising Engineer, Technical Section.

1978 - 1980: Indiana & Michigan Electric Company

Student Engineer at D.C. Cook Nuclear Power Plant. Duties included core performance testing, core surveillance testing, technical studies, and budget planning. Participated in one refueling outage, including fuel receipt, fuel shuffle and irradiated fuel inspection. Participated in the startup of three reload cores, performing startup, low power, and power ascension tests.

1977 - 1978: General Physics Corporation

Student Engineer, assisted in the development of in-service inspection programs for both Pressurized and Boiling Water Reactor power plants.

TABLE 13.1-3 (Continued)

RESUME NO. 53 (Continued)

Professional Memberships:

American Nuclear Society
National Society of Professional Engineers
Engineer in Training, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 55

Name: Lewis B. Biddlecome, Senior Staff Engineer, Perry Plant Technical Department

Formal Education and Training:

Interior Communications Technician "A" School, U.S. Navy, 1957
Submarine School, U.S. Navy, 1958
Nuclear Power Training School, U.S. Navy, 1958
S1W Nuclear Prototype Training, U.S. Navy, 1959
NESEP College Preparatory School, U.S. Navy, 1960
Polaris Precommissioning School, U.S. Navy Westinghouse Bettis, 1963
Bachelor of Science Degree in Metallurgical Engineering, University of Idaho, 1960-1963, 1968-1970
Graduate Courses in Secondary Education, University of Idaho, 1970

Experience:

1985 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Senior Staff Engineer assigned to the Office of the Manager, Perry Plant Technical Department. Duties include compliance engineering, reviewing and resolving NRC IE and INPO Event Reports, Licensing commitment tracking, preparation and review of Periodic Test Instructions, and coordination of Nuclear Plant Reliability Data System activities.

1972 - 1984: General Electric Company

From 1981 to 1984, GE Operations Manager at Hanford-2 Nuclear Power Plant, pre-hydro through commercial operation. Provided technical direction and procedure review on GE scope-of-supply equipment. Coordinated resolution of startup/operations problems with GE projects office. Provided administrative supervision to other GE site test personnel. Certified by GE to Level III under ANSI 45.2.6.

From 1978 to 1981, dual GE Lead Test Engineer and CEI NSSS Lead Test Engineer at Perry Nuclear Power Plant. GE duties identical to Hanford-2 duties. In addition to the usual NSSS Lead functions, provided technical assistance to utility management personnel for planning, scheduling and administrative procedures.

From 1974 to 1978, GE Startup Testing and Operations Engineer at Brunswick-1 & 2, Hatch-2, and Shoreham. GE SRO certification - was GE Shift Superintendent on Brunswick-2 startup. Experience with all NSSS mechanical systems and some BOP. Writing, review, and performance experience on all types of procedures. Trained one RO class through complete certification course.

Lewis B. Biddlecome

TABLE 13.1-3 (Continued)

RESUME NO. 55 (Continued)

Experience:

1972 - 1974: Westinghouse Electric Corporation

Westinghouse Nuclear Plant Engineer at S1W Naval Prototype. Qualified Engineering-Officer-of-the-Watch and Plant Operations Crew Supervisor. Responsibilities divided equally between operations and training, with some maintenance supervision and physics testing.

1970 - 1972: Mathematics teacher and wrestling coach - Junior High School

Summer 1969: Student aide at Argonne National Laboratory, Idaho Facilities. Worked on increasing allowable exposure to fuel pins at EBR-II.

1957 - 1968: U.S. Navy

Nuclear Trained Interior Communications Technician; qualified submarines, qualified on all nuclear and most non-nuclear enlisted watch stations. Tours of duty aboard two conventional and three nuclear submarines. Shipyard and new construction duty about two years. Various technical "C" schools. This experience included three years of NESEP college program.

1956 - 1957: U.S. Naval Reserve, Airman Recruit.

TABLE 13.1-3 (Continued)

RESUME NO. 59

Name: Patrick J. Curran, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering, University of Cincinnati, 1981
Six-Week Station Nuclear Engineering Course (GE), 1982
Five-Week Perry Nuclear Power Plant Technology Course (GE), 1982
Nine-Week Operator Training Course, Perry Simulator (GE), 1982 (SRO Certification)
One-Week Abnormal Events Analysis Course (GE), 1983
Initial Cold License Course, 1983 - 1985

Experience:

1981 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included development of fuel handling procedures and reactor engineering procedures. Promoted to current position of Associate Operations Engineer in 1983. Reported to Human Factors Engineering Group from September, 1982 to March, 1983. Duties included review of the NRC Audit Report and a review of proposed design changes. Participated in the initial cold license program, successfully completing all NRC exams and awaiting NRC issuance of cold SRO license. Spent eleven months at the Susquehanna Steam Electric Station serving as a Test Director in the Unit 2 Initial Power Ascension Program. Participated in final procedure preparation, fuel load, and power testing through to the completion of almost all of the 100% power tests. Currently involved in the development of reactor engineering procedures for Perry Unit #1. Reports to the General Supervising Engineer, Technical Section.

1977 - 1980: Northern State Power Company

Student Engineer at Northern State Power Company's Prairie Island Nuclear Plant, assigned to the Reactor Engineering Group. Duties included core surveillance and technical studies. Participated in four refueling outages including fuel receipt, core reload, zero power physics tests and power tests.

TABLE 13.1-3 (Continued)

RESUME NO. 62

Name: Peter D. Roberts, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering, University of Cincinnati, 1982
Two-week Academic Refresher Course, Ohio State University, 1982
Eight-Week Perry Nuclear Power Plant Technology Course (GE), 1983
Nine-Week Operator Training Course, Perry Simulator (GE), 1983 (SRO Certification)

Experience:

1982 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included administrative procedure preparation and review, system turnover support, and development of reporting requirements program. Promoted to current position of Associate Operations Engineer in 1984. Spent eleven months at the Susquehanna Steam Electric Station serving as a Test Director in the Unit 2 Initial Power Ascension Program. Participated in final procedure preparation, fuel load, and power testing through to the completion of almost all of the 100% power tests. Also participated in surveillance testing for both SSES Units 1 and 2. Currently enrolled in 28-week SRO cold license program. Reports to the General Supervising Engineer, Technical Section.

1979 - 1981: Babcock & Wilcox Company

Co-op Engineer at the B&W Nuclear Power Generation Division. Performed support work for the Three Mile Island accident involving tabulation and plotting of computer data. Participated in preparation of computer-based models to perform accident analyses on nuclear power plants, including code initialization, transient simulation, and analysis documentation.

TABLE 13.1-3 (Continued)

RESUME NO. 63

Name: Robert H. Storch, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering,
University of Cincinnati, 1982
Nine-Week Operator Training Course, Perry Simulator (GE), 1983
(SRO Certification)

Experience:

1982 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included writing and reviewing local leak rate tests, startup tests, and administrative procedures; support of turnover activities; reviewing preoperational tests; and reviewing and resolving INPO Significant Operating Event Reports and NRC IE Bulletins.

From November, 1983 to October, 1984, spent eleven months at the Susquehanna Steam Electric Station serving as a Startup Engineer/Test Director in the Unit 2 Initial Power Ascension Program. Participated in fuel load and power testing through to the completion of almost all of the 100% power tests. Duties included preparing and reviewing startup tests, performing tests, completing analysis on test results, and reviewing completed tests.

Promoted to current position of Associate Operations Engineer in 1984 and currently enrolled in 28-week SRO cold license program. Reports to the General Supervising Engineer, Technical Section.

1979 - 1981: Cincinnati Gas & Electric Company

Worked six quarters, alternating work with school quarters, at the Wm. H. Zimmer Nuclear Power Station during the preoperational testing phase in the Maintenance, Operations, I&C, Technical, Quality, Rad/Chem and Reactor Engineering groups. Duties included writing and reviewing procedures, evaluating costs and initiating work on engineering changes, and determining spare parts requirements.

Professional Memberships:

American Nuclear Society
Engineer in Training, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 64

Name: David B. Miller, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering, Purdue University, 1982
One-Week Refueling Activities Course (GE), 1983
Two-Week Academic Refresher Course (GE), 1983
Eight-Week Perry Nuclear Power Plant Technology Course (GE), 1983
Nine-Week Operator Training Course, Perry Simulator (GE), 1983
Five-Week Station Nuclear Engineer Course (GE), 1984
Two-Week Core Management Engineering Course (GE), 1984
Three-Day Engdahl Seismic Monitoring Equipment Course, 1985
Three-Day Kinemetrics Seismic Monitoring Equipment Course, 1985

Experience:

1982 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included preparing and reviewing procedures and instructions, support of system turnover activities, coordinating the review of GE Service Information Letters, and assisting with the design of the Control Room communications system and internal plant radio system. Spent two weeks at the Fermi #2 Nuclear Power Plant to observe fuel receipt activities in 1983. Promoted to current position of Associate Operations Engineer in 1984. Currently involved in the development of reactor engineering procedures for Perry Unit #1. Reports to the General Supervising Engineer, Technical Section.

1981: American Electric Power Service Company

Summer Intern at the American Electric Power Service Company's main office in New York City, assigned to the D. C. Cook Final Safety Analysis Report review group. Primary area of review was Chapter 13, Thermal Hydraulic Safety Analysis.

TABLE 13.1-3 (Continued)

RESUME NO. 65

Name: Daniel G. Phillips, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Mechanical Engineering, University of Akron, 1982
Two-Week Academic Refresher Course, Ohio State University, 1983
Eight-Week Perry Nuclear Power Plant Technology Course (GE), 1983
Nine-Week Operator Training Course, Perry Simulator (GE), 1983 (SRO Certification)
One-Week Harvard In-Place Filter Testing Workshop, 1984

Experience:

1982 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included support of system turnover activities including review of preoperational and acceptance tests and system turnover packages; and preparation and review of administrative procedures, diesel generator operating instructions, and HVAC system procedures. Promoted to current position of Associate Operations Engineer in 1984. Current duties include development of the HVAC Technical group responsible for HVAC system turnover reviews, the in-place filter testing program, and surveillance and periodic test programs. Reports to the General Supervising Engineer, Technical Section.

1979 - 1981: Ohio Edison Company

Completed four work semesters, alternating work with school semesters, at the W. H. Sammis Plant and the General Office. Duties included performance monitoring, evaluation of engineering design changes, and generation planning.

Professional Memberships:

American Society of Mechanical Engineers
Engineer in Training, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 66

Name: Scott H. Soper, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Nuclear Engineering, Rensselaer Polytechnic Institute, 1983
Five-Week Station Nuclear Engineer Course (GE), 1984
Eight-Week Perry Nuclear Power Plant Technology Course (GE), 1984
One-Week Reactor Operator Training Program, University of Michigan, 1984
Eight-Week Operator Training Course, Perry Simulator (GE), 1984-1985 (SRO Certification)

Experience:

1983 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included development of Fuel Receipt and Fuel Accounting Instructions, review and preparation of System Operating Instructions and Preoperational Instructions, review of NRC IE Documents and INPO Reports, and monitoring development of the Power Shape Monitoring System. Promoted to current position of Associate Operations Engineer in 1985. Duties include review of preoperational test results, support of system turnover activities, review of Startup Test Instructions, and development of Reactor Engineering Instructions. Reports to the General Supervising Engineer, Technical Section.

1981 - 1982: Maine Yankee Atomic Power Company

Student Engineer at the Maine Yankee Atomic Power Plant, assigned to the Plant Engineering and Reactor Engineering groups. Duties included outage support for design changes, performance of in-service inspections, development of transient power predictions during coastdown, participation in fuel receipt, and analysis of plant performance problems.

Professional Memberships:

American Nuclear Society
Engineer in Training, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 67

Name: James D. Ellis, Associate Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Mechanical Engineering, Ohio State University, 1983
Eight-Week Perry Nuclear Power Plant Technology Course (GE), 1984
One-Week Reactor Operator Training Program, University of Michigan, 1984
Eight-Week Operator Training Course, Perry Simulator (GE), 1984-1985 (SRO Certification)

Experience:

1983 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Junior Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Duties included support of system turnover activities and preparation and review of Administrative Procedures, Technical Specification Surveillance Instructions, and System Operating Instructions. Worked with Startup Test Organization on development of Fire Protection Programs for 10 CFR 50, Appendix R concerns. Promoted to current position of Associate Operations Engineer in 1985. Duties include development of the Surveillance Test Program. Reports to the General Supervising Engineer, Technical Section.

1979 - 1982: Ohio Power Company

Co-op Engineer at the Muskingum River Plant. Provided engineering support for Maintenance Department and Outage Planning Group. Duties included outage planning, performance monitoring, design modification, and coordination of engineering activities to support turbine generator overhauls.

Professional Memberships:

American Society of Mechanical Engineers
American Nuclear Society
Engineer in Training, State of Ohio

TABLE 13.1-3 (Continued)

RESUME NO. 68

Name: Stephen A. Braunfield, Instrument and Control Supervisor, Technical Section

Formal Education and Training:

Associates Degree in Nuclear Engineering Technology, The Pennsylvania State University, 1977
Eighteen-Hour IEEE Nuclear Power Plant Course, Westinghouse Educational Center, 1977
Nine-Week Nuclear and Process Instrumentation and Control Technology Course, General Physics Corporation, 1978
Eight-Hour Area Radiation Monitors Course, Victoreen Inc., 1981
Three-Day Vibration Analysis Course, IRD Mechanalysis, 1981
Ninety-Hour Digital Electronics I & II Courses, Lakeland Community College, 1981
Three-Day Precision Measuring Equipment Calibration and Repair Course, L.S. Starrett Company, 1982
Three-Day Automatic Meter Calibration System Training, Valhalla Scientific Inc., 1984

Experience:

1980 - Present: The Cleveland Electric Illuminating Company

Joined CEI as a Senior Engineering Aide assigned to the Nuclear Test Section. Responsibilities included calibrating Measuring & Test Equipment (M&TE) and performing functional checks of plant equipment. In 1981, assumed responsibility for operation of the M&TE Laboratory including supervising Technicians assigned to the Laboratory, preparing calibration procedures, and supervising Laboratory operations. In 1982, promoted to Senior Engineering Technician.

In 1985, assumed present position of Instrument and Control Supervisor assigned to the Technical Section, Perry Plant Technical Department. Responsible for operation of the M&TE Calibration Laboratory including supervising I&C Technicians assigned to the Laboratory, procedure development, and issuance and control of M&TE. Also responsible for supervision of the Miles Meter Laboratory M&TE interface with the Technical Section. Reports to the General Supervising Engineer, Technical Section.

1978 - 1980: Power Authority of the State of New York

Instrument and Control Technician, James A. Fitzpatrick Nuclear Power Plant. Responsibilities included calibration and maintenance of pneumatic and electronic instruments, and control and calibration of Measuring and Test Equipment.

Stephen A. Braunfield

TABLE 13.1-3 (Continued)

RESUME NO. 68 (Continued)

1976 - 1978: Keystone Small Engine Repair

Technician/Mechanic. Responsibilities included troubleshooting and repair of controls, small engines, transmissions, and transaxles.

1974 - 1976: Westinghouse Electric Corporation

Nuclear Material Technician, Bettis Atomic Power Laboratory. Responsibilities included processing green fuel pellets for the Light Water Breeder Reactor.

Professional Memberships:

Instrument Society of America

TABLE 13.1-3 (Continued)

RESUME NO. 69

Name: Gary R. Anderson, Operations Engineer, Technical Section

Formal Education and Training:

Bachelor of Science Degree in Electrical Engineering, Marquette University, 1971
Four-Week I&SE Electrohydraulic Turbine Controls Course (GE), 1974
Ten-Week Engineering Refresher Course, Cleveland Engineering Society, 1976
Ten-Week NED Rod Control & Information System Course (GE), 1979
Five-Week NED Nuclear Instrumentation Course (GE), 1979
Bachelor of Arts Degree Candidate in Business Administration, Garfield Senior College, 1980 - Present
Certified Level III Test Engineer (ANSI N45.2.6)

Experience:

1985 - Present: The Cleveland Electric Illuminating Company

Joined CEI as an Operations Engineer assigned to the Technical Section, Perry Plant Technical Department. Responsibilities include supervision of Electrical and I&C engineers and technicians, review of operations manual procedures including surveillance calibration and maintenance instructions. Also responsible for review and approval of instrument calibration data. Reports to the General Supervising Engineer, Technical Section.

1979 - 1985: General Electric Company

From 1984 to 1985, served as Senior Program Manager in the Control and Instrumentation Unit at GE's San Jose, CA headquarters. Responsibilities included the day-to-day supervision of Control and Instrumentation engineers assigned to domestic and overseas BWR sites and marketing GE's service to customers involving the preparation of customer proposals for the installation of nuclear power plant retrofit systems and services.

From 1979 to 1984, served as Senior Controls and Instrumentation Engineer at the Perry Nuclear Power Plant. Responsibilities as Power Generation Control Complex Coordinator/Test Coordinator were to provide technical direction and engineering support for the installation, jurisdictional turnover, modification, initial checkout, and preoperational testing of the main control room for each unit. Responsibilities as System Test Engineer were for the preparation, review, and performance of preoperational and acceptance tests; turnover, initial checkout, and testing

Gary R. Anderson

TABLE 13.1-3 (Continued)

RESUME NO. 69 (Continued)

Experience:

of assigned systems; instrument setpoint analysis; and FSAR review. Also provided technical support and supervision for installation, testing, startup, and operation of the nuclear steam supply system instrumentation and components.

1977 - 1979: Sargent & Lundy Engineers

Served as Senior Test Engineer in the plant operations department at the Wm. H. Zimmer Nuclear Power Station. Responsibilities as System Turnover Coordinator were to assist plant management in determining construction priorities, expediting those systems for testing and operation, and supervising the system turnover group. As System Test Coordinator, responsibilities included establishing preoperational testing concepts, preparation and review of preoperational testing and flushing procedures, preparation of instrument and mechanical checkout and calibration procedures for HVAC equipment, final evaluation of preoperational test results, and supervision of Test Engineers.

1976 - 1977: Stone and Webster Engineering Corporation

Served as Test Engineer during preoperational testing and initial startup of North Anna Power Station Units 1 and 2. Responsibilities included completion of preoperational testing on all plant instrumentation, valves, and electrical equipment; flushing and startup of major plant systems; preparation of testing procedures; and initiation of system turnover documentation from construction to preoperational test group on Unit 2.

1975 - 1976: Victoreen Instrument Company

Served as System Design Engineer in the Radiation Monitoring System Department, responsible for state of the art design, fabrication, and installation of large process radiation monitoring systems. Developed new design of containment leak detection monitor and failed fuel monitoring systems. Also responsible for the design and development of a new model Beta and Gamma scintillation detector and gaseous effluent sampler.

1972 - 1975: Tennessee Valley Authority

Served as Instrument Engineer during construction, startup, and initial operation of the Browns Ferry Nuclear Plant. Responsible for preparation and performance of maintenance and test procedures for nuclear instrumentation, emergency core cooling systems logic and controls, turbine EHC, and Reactor Protection System. Assisted with final preparation of plant Technical Specifications and Final Safety Analysis Report. Participated in emergency recovery work during and following a major fire in the Unit 1 reactor building.

Gary R. Anderson

TABLE 13.1-3 (Continued)

RESUME NO. 69 (Continued)

Experience:

1971 - 1972: Wisconsin-Michigan Power Company

Served as Technical Assistant to the engineering staff at the Point Beach Nuclear Plant. Responsibilities included writing and performing preoperational and surveillance tests, recommending and implementing design engineering change modifications, and scheduling and performing plant outage activities.

1968 - 1971: Square D Company

Served as Co-op Engineering Student, alternating work and school semesters, assigned to the design, new product, sales, and tool engineering groups.