

Consumers Power Company
Report #8, December 30, 1974

Pursuant to Conditions 2 F.B. and 2 F.C. of Construction Permits CPPR-81 and CPPR-82, the following report covers the period January 1, 1975 - March 31, 1975.

- A. Construction work to be performed during the period (based on the preliminary schedule of activities to be performed during 1975)

JANUARY 1975

CONTAINMENT #2

1. Continue the installation of formwork, reinforcing steel, embedded metal, and the placement of concrete for the 593'-6" cover slab.
2. Complete the installation of formwork, reinforcing steel and the placement of concrete for the buttress access shafts to elevation 606'-0".

CONTAINMENT #1

1. Continue the seam welding and leak chase channel installation of Containment Liner Plate to elevation 622'-0".

AUXILIARY BUILDING

1. Complete installation of formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves, and drain pipe for the walls to elevation 599'-0".
2. Complete concrete placement for the walls to elevation 599'-0".
3. Continue installation of structural steel, metal decking, formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves and drain pipe for the slab at elevation 599'-0".
4. Continue concrete placement for the slab at elevation 599'-0".
5. Continue installation of formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves and drain pipe for the walls to elevation 614'-0".
6. Continue concrete placement for the walls to elevation 614'-0".

TURBINE BUILDING #2

1. Work temporarily suspended.

TURBINE BUILDING #1

1. Work temporarily suspended.

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SUBCONTRACTS

1. Complete recoating of the second lift of Containment #2 Liner Plate.
2. Continue installation of waterproof membrane for Containment #2 and the Auxiliary Building.

FEBRUARY 1975

CONTAINMENT #2

1. Complete the installation of formwork, reinforcing steel, embedded metal, and the placement of concrete for the 593'-6" cover slab.

CONTAINMENT #1

1. Complete the installation of formwork, reinforcing steel, post tensioning embeds and placement of exterior wall concrete to elevation 601'-11".
2. Continue liner plate seam welding to elevation 670' and leak chase channel installation to elevation 622'-0".
3. Complete the installation of the fuel transfer tube embed.
4. Start the installation of formwork, reinforcing steel and post tensioning embeds for the exterior wall to elevation 612'-1".

AUXILIARY BUILDING

1. Complete installation of structural steel, metal decking, formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves and drain pipe for the slab at elevation 599'-0".
2. Complete concrete placement for the slab at elevation 599'-0".
3. Continue installation of formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves and drain pipe for the walls to elevation 614'-0".
4. Continue concrete placement for the walls to elevation 614'-0".

TURBINE BUILDING #2

1. Work temporary suspended.

TURBINE BUILDING #1

1. Work temporarily suspended.

SUBCONTRACTS

1. Continue installation of waterproof membrane for Containments #1 and #2, and the Auxiliary Building.

MARCH 1975

CONTAINMENT #2

1. Work temporarily suspended

CONTAINMENT #1

1. Continue liner plate seam welding to elevation 670 and leak chase channel installation to elevation 622'.
2. Continue the installation of formwork, reinforcing steel, and post tensioning embeds for the exterior wall to elevation 612'-1".

AUXILIARY BUILDING

1. Continue installation of formwork, embedded metal, reinforcing steel, electrical conduit, ground cable, sleeves and drain pipe for the walls to elevation 614'-0".
2. Continue concrete placement for the walls to elevation 614'-0".

TURBINE BUILDING #2

1. Work temporarily suspended.

TURBINE BUILDING #1

1. Work temporarily suspended.

SUBCONTRACTS

1. Continue installation of waterproof membrane for Containments #1 and #2, and the Auxiliary Building.

B. Supervisors and Engineers of the Applicant and Architect Engineer with quality related duties who are expected to be on the site during the period January 1 - March 31, 1975 in addition to those identified in previous reports.

1. Consumers Power Company

W. H. Benkert
R. C. Bauman

2. Bechtel Power Corporation

a. Quality Control

R. L. Bowren	Asst. PFQCE
K. O. Anderson	QC Welding Engr.
G. A. Durkee	QC Welding Engr.
J. J. Lancon	QC Welding Engr.

b. Quality Assurance

B. (NMI) Peacock	QA Staff Engr.
D. W. Strohman	QA Engr.

Both of these personnel are located offsite and are involved with this project for special projects only.

3. U.S. Testing - No change from last report.

C. Quality assurance qualifications of supervisors and engineers with site related duties during the period January 1 - March 31, 1975:

Statements of qualifications of all individuals listed in "B" above are attached hereto.

D. Changes

The following individuals with quality related duties listed in previous reports are no longer associated with this site:

1. Consumers Power Company

M. P. Hanson

2. Bechtel Power Corporation (due to the slow down at the site)

L. L. Carlson
W. A. Driver
G. L. Gillie
H. (NMI) Grima
T. (NMI) Haswood
M. P. Hendrick
L. V. Hendry
T. (NMI) Iturregin
F. A. Kapla
B. F. Price
K. E. Sloan
G. W. Smith
J. H. Tice

Further additions or deletions to the list of people who are to be on site during the period January 1 - March 31, 1975 will be noted on the next report.

RESUME

Name: William H. Benkert

Address: 152 Bay Side Park Rd., Bay City, MI

Age: 27

Social Security No: 371-50-6547

Security Clearance: None

Education: Western Michigan University, 1969 Graduate
Degree: BS in General Curriculum
Muskegon County Community Junior College, 1967 Graduate
Degree: Associates in Electronic Technology

Work Experience: Consumers Power Company, Karn #3 Plant Construction, Essexville, MI
February 1974 through November 15, 1974.
Title: Technologist - Electrical Check out - Plant Systems.
Responsibilities: Coordinating, documenting, and implementing all engineering revisions, all praoperational tests; and all construction, design or equipment deficiencies that effect electrical check out - plant systems.

Consumers Power Company, 135 W. Trail St., Jackson, Michigan
June 1971 through February 1974, Laboratory Services Department - Supervisor, Edward Schaefer.
Title: Associate Technologist - Head of Special Projects and Relay Supervision.
Responsibilities: Supervision of projects for the Laboratory and field. Work analysis and reporting on equipment including circuit modification for electrical-mechanical, static state, and integrated logic circuitry.

Consumers Power Company, 4000 Clay, Grand Rapids, Michigan
February 1970 to June 1971, Laboratory Services Department - Supervisor, Robert Cooper.
Responsibilities: Check out the construction of power plants, distribution and transmission substations; testing of system protection electrical-mechanical and static relays and finding cable faults.

W. W. Thompson Associates, Inc. 432 Crosstown Parkway, Kalamazoo, Michigan

Clark Equipment Co., August 1969 to January 1970. Contract duties: Design through debug of solid state logic system for automatic material handling equipment being responsible for final release of completed logic package. Head of Department - George Wooley.

Western Michigan University, September 1967 to June 1969, Kalamazoo, Michigan
Duties: Lab Technician - Dr. Bradly and Joe Keleman
Responsible for setup and repair of laboratory experimental equipment. Familiar with measurements and instrumentation.

RESUME

William H. Benkert
November 18, 1974

2

Work Experience: Cook's Appliance, Grand Haven, Michigan, 1965 through 1967
(Part-time while in college)
Duties: Repairman
Responsible for household appliance, radio, TV, washers,
dryers, refrigerators, ranges.

Keith O. Anderson
Quality Control Welding Engineer

December 16, 1974

Mr. Anderson graduated from Shawano Sr. High School in Shawano, Wisconsin, in May 1968, where he majored in Architecture. He then attended the Milwaukee School of Engineering, in Milwaukee, Wisconsin from September 1968 thru May 1970, where he majored in Architectural Building Construction Engineering Technology. He entered the Army Reserves and attended Basic Training and Advanced Individual Training (Water Purification), from November 1970 thru March 1971, at Fort Leonard Wood, Missouri. Mr. Anderson joined Bechtel in July 1971 and since has worked approximately two years and ten months as a Field Welding Engineer and approximately seven months as a Quality Control Welding Engineer. Mr. Anderson is qualified Level II in Liquid Penetrant with three years and one month experience, Level II in Magnetic Particle with five months practical experience, and Level II in Vacuum Box with six months practical experience.

RESUME

R. L. Bowren
193 Valleybrook Drive
Lancaster, PA 17601
Telephone: 717/569-1126
Birthplace and date: Boston, Mass.
7 Feb. 1922

Height: 5'8"
Weight: 190 lbs.
Health: Excellent
Married

Education:

Lowell High School in Lowell, MA.; School for Instrument Maintenance sponsored by the General Electric Company; Capitol Radio Engineering Inst., Washington, D.C.; and miscellaneous other radio theory, maintenance and operation schools as sponsored by the U. S. Army. Also, attended Statistical Quality Control SQC-1, sponsored by the Defense Supply Agency, DCASD, Milwaukee, WI.

Summary of Qualifications:

Twenty-four (24) years of professional nuclear experience as Construction Quality Assurance and Control Manager, Quality Assurance Engineer, Quality Assurance Representative, Vendor Inspector, Vendor Expeditor, and instrument maintenance during construction of nuclear power sites and commercial manufacture of nuclear components.

Job Objectives:

Prepare, organize and direct Quality Assurance and Quality Control programs to assure compliance of engineered, control and fabricated items for use in construction of nuclear power plants as required by 10 CFR 50 Appendix B and ANSI N45.2.

Detailed Work Experience:

July 1972

to Present Bechtel Power Corporation - San Francisco Power Division
Assistant Project Quality Control Engineer

Duties:

Assisted the Project Quality Control Engineer (PFQCE) in the planning, organization and implementation of the Quality Control Program for Peach Bottom Atomic Power Station (two (2) 1065 MW (BWR) units) during construction, procurement, engineering and startup phase. Supervised and trained jobsite Quality Control personnel in accordance with 10 CFR 50 Appendix B and ANSI N-45.2. Represented the project during AEC, client and Bechtel management audits. Prepared new and additional Field Quality Control Procedures and revisions for existing procedures on an as needed basis for all disciplines, mechanical, electrical, instrumentation, welding, and civil.

November 1969

to July 1972 National Valve and Manufacturing Co. (NAVCO)
Pittsburgh, PA
Field Manager, Quality Assurance and Control

Duties:

Assignment was at Red Wing, Minnesota, site of Northern States Power's Prairie Island Nuclear Generating Station, (two (2) 550 MW (PWR) units). As manager of construction quality assurance and control prepared the quality assurance manual and quality assurance and control procedures in compliance with 10 CFR 50 Appendix B, directed and supervised quality assurance and quality control personnel in performing surveillance and inspections to assure piping installation to be in compliance with ASME Section III USAS B31.1 and USAS B31.7 during the construction, procurement, engineering and startup phases. Duties also consisted of organizing, recruiting and training a quality assurance and control department at the construction site. Training programs for NDT personnel were organized and conducted in compliance with ASNT as well as for routine quality assurance and control functions per 10 CFR 50 Appendix B. Source inspections, supplier surveys and audits were also performed as required to assure compliance with ASME Code Section I, III, VIII, IX, and USAS B 3.1. and B 31.7. Represented NAVCO during AEC, client and NAVCO management audits.

November 1968

to Nov. 1969 United Engineers and Constructors Inc. - Phila., PA
Quality Control Engineer

Duties:

Assignment was at Morris, Illinois site of Commonwealth Edison's Dresden Nuclear Power Station, (two (2) 560 MW (BWR) units). Prepared quality assurance and quality control procedures covering all phases of the project as required by the project specifications and as suggested by 10 CFR 50 Appendix B, conducted audits of the subcontractors and witnessed and evaluated results of all non-destructive tests performed by them to assure compliance with ASME Section I, III, VIII, IX USAS B31.1, B31.7, and IEEE non destructive tests witnessed and evaluated - included RT, UT, PT, MT, hydrostatic, flushing and all electrical operational and functional tests. Represented the project during AEC, client, GE and UE management audits.

August 1967

to Nov. 1968 Defense Supply Agency DCASD, Milwaukee, WI
Quality Assurance Representative, Electronic

Duties:

Perform source inspection of engineer items procured by the DOD to assure compliance with drawings and

specifications including MIL-9858-A, Navships 250-100, MIL-105-A as well as various other MIL and Navship specifications. Performed other functions similar to those performed for the General Electric Co. (See below)

August 1966
to July 1967

E. I. DuPont Nemours and Company - Wilmington, DE
Vendor Inspector

Duties:

Perform source inspection and expediting delivery of engineered items procured for use in various chemical processing plants by the E. I. DuPont Nemours and Company. Also, similar to those performed for the General Electric Company. (See below)

Sept. 1947
to Jan. 1966

General Electric Company - Richland, WA
Senior Vendor Inspector

Duties:

Act as representative of General Electric Company and the U. S. Government or any other contractor that may be designated by them. Interpret and advise, and if necessary, obtain interpretation of specifications and purchase order requirements issued by the Government. Performed source inspection and functional testing for all types of engineered items procured for use in AEC Nuclear Production Reactors, chemical processing plants, and other government installations. Engineered items included instrument control and alarm systems, pumps, turbines, process vessels, and miscellaneous other fabricated items. Assured compliance with applicable sections of the ASME Boiler Code, conducted welder qualification tests when required, as well as conducted and evaluated results of all types of nondestructive testing such as radiography, ultrasonic, dye penetrant, etc. Duties also consisted of contacting responsible personnel in vendors' plants and in an effort to assure compliance with delivery schedules and commitments, as well as to re-schedule and/or better delivery promises. Also conducted plant surveys and audits of prospective procurement facilities as well as issuing comprehensive capability and evaluation reports on current suppliers as contracts were completed or terminated.

RESUME

GEORGE A. DURKEE
2314 ELLSWORTH, APT. 203
YPSILANTI, MICHIGAN

PERSONAL:

AGE: 27

MARITAL STATUS: Married

HEIGHT: 5'8"

WIFE: Kathy Lee

WEIGHT: 230 lbs.

EDUCATION:

HIGH SCHOOL: Franklin High School
Livonia, Michigan
Major: Mechanical and Industrial Arts, Graduated 1965

U.S. ARMY: Diesel Generator School
Fort Belvoir, Virginia

BECHTEL: Quality Control Workshop
1) Written and Verbal Communication
2) Quality Problem Solving

EMPLOYMENT RECORD:

Nov. 1973 to Present Bechtel Power Corporation
Ann Arbor, Michigan
Position: Assistant Quality Control Engineer
Duties: 1) Responsible for recording and filing of specifications, requisitions, drawings, etc.
2) Determining need dates for Master Inspection Plans and compiling data for the writing of Inspection Plans.
3) Coordinating with the jobsite and San Francisco on problems concerning Master Inspection Plans.
4) Maintaining Nonconformance Status Log so as to obtain their timely disposition.

Oct. 1971 to Oct. 1973 Arkansas State Highway Department
Russellville, Arkansas
Position: Shop Supervisor
Duties: Supervisor of maintenance for the District Headquarters of the Arkansas Highway Department at Russellville:
1) Supervision of 12 maintenance mechanics, 4 welders, 2 servicemen, and 2 field mechanics.
2) Estimating of work to be done on damaged equipment, or as needed for preventative maintenance.
3) In charge of ordering equipment and/or accessories as needed to get the job done and as needed to maintain a good workable inventory.

EMPLOYMENT RECORD: (Cont'd.)

- Oct. 1971
to
Oct. 1973
- Duties: 4) In charge of scheduling manpower workload and maintaining manhour accounting system.
5) Responsible for trouble shooting systems or components when necessary to find cause of malfunction.
6) Assisted welders in the fit-up and welding of components as needed to repair components and/or equipment.
7) In charge of overall shop maintenance and shop appearance.
- Sept. 1970
to
Sept. 1971
- Detroit Diesel Allison Division
Detroit, Michigan
Position: Quality Control Inspector
Duties: 1) Inspection of large machine parts by liquid penetrant and magnetic particle examination.
2) Work on the line doing visual and dimensional inspection of engine blocks and assemblies.
- Aug. 1967
to
Aug. 1970
- United States Army
Position: Specialist E-5
Duties: 1) Assigned to Fort Belvoir, Va. for 2 months, School - Diesel Generators.
2) Reassigned, Vietnam - 1 year, heavy equipment operator.
3) Reassigned, Homestead Air Force Base, Florida - 1 year, supervised diesel generator section.
4) Reassigned, Germany - 8 months, supervised heavy equipment maintenance section.
5) Received honorable discharge.
- Mar. 1966
to
Aug. 1967
- Detroit Diesel Allison Division
Detroit, Michigan
Position: Quality Control Inspector
Duties: Same as duties between September 1970 and September 1971 above.

Jerry J. Lancon
Quality Control Engineer

Mr. Lancon attended college at Sanbernardino Valley College from 1968 thru 1974, majoring in business. Prior to working at Midland, he was employed as a Quality Control Engineer for Lockheed Propulsion, Redlands, California for four years from 1970 to 1974. His primary responsibilities were inspection tasks on various nuclear parts that were being fabricated. Other experience was three years with Westinghouse Marketeer as a welding inspector from 1965 thru 1968. He began with Bechtel on November 4, 1974 and is presently a Quality Control Engineer performing the duties as such.

April 11, 1974

Resume of
BRET PEACOCK

Mr. Peacock joined Bechtel in June 1970, as a Quality Assurance Engineer. After a two-week period of training and indoctrination in the San Francisco Home Office, Mr. Peacock was assigned to the Peach Bottom Project at Delta, Pennsylvania. In December of 1972 he was reassigned to the Trojan Project at Rainier, Ore.

Previously, Mr. Peacock was enlisted in the U. S. Navy where he held the position of operator and technician on eight shipboard reactors through all phases of initial criticality, power tests, core refueling, normal operations, hydros, and calorimetric tests. He assisted shipyard engineers in checkout, testing, calibration, and modification of electrical/electronic control systems for control and operation of the reactors and associated equipment.

During his Peach Bottom and Trojan Project assignments, Mr. Peacock has been responsible for all phases of Quality Assurance in the Electrical discipline. These responsibilities include; review of specifications, drawings and procedures; surveillance and audit of installation and repair, indoctrination and training of QC Engineers, vendor audits, verification of quality documentation, and liaison between AEC, Client and Bechtel on QA matters. Mr. Peacock has also participated in various QA Management Audits of Engineering and construction.

In addition, Mr. Peacock was employed by Pacific Gas & Electric Company during two summers while attending college. He received a Bachelors of Science Degree in Electrical Engineering from Sacramento State College and an AA Degree in Engineering from Sierra College, in addition to attending electrical, electronic and nuclear power training courses in the U. S. Navy.

July 1974

Resume of

DAVID W. STROHMAN

Mr. Strohman joined Bechtel in June 1974, as a Senior Quality Assurance Engineer. After an initial indoctrination and training program of two weeks, Mr. Strohman was relocated to the Trojan jobsite in Rainier, Washington.

Mr. Strohman came to Bechtel after approximately seventeen years with the Ingalls Shipbuilding Division of Litton Industries in Pascagoula, Mississippi.

From Ingalls Shipbuilding, Mr. Strohman has brought to Bechtel experience gained in Quality Assurance where among his many duties, he was responsible for developing and supervising an audit system capable of monitoring compliance to company procedures and policies, craft workmanship, system effectiveness and other quality areas from procurement to delivery of a finished product. He was also responsible for developing an analysis program capable of identifying and tracking undesirable trends in areas affecting the overall quality of the finished product. Additionally, he was responsible for developing and directing the Corrective Action Program.

Mr. Strohman attended the University of Maryland and served as a Radio Operator and Technical Instructor with the United States Air Force.

Ronald C. Bauman
Project Engineer
Midland Plant

PROFESSIONAL EXPERIENCE:

Sixteen years of professional experience as described below:

CONSUMERS POWER COMPANY

Presently assigned to the Project Management Department of Electric Plant Projects with Project Engineer responsibilities for the coordination of all licensing, design and procurement activities within Consumers Power Company relative the Midland Plant. Prior to this assignment the same responsibilities were held on the Palisades Plant modifications and Quanicassee Nuclear Plant projects. The above positions cover a three year period.

Served for two years as a Field Supervisor responsible for modifications to fossil and nuclear fueled generating stations.

COMMONWEALTH ASSOCIATES INC.

Senior Nuclear Engineer assigned to the Nuclear Services Division for four years with responsibilities as follows:

General - Performance of consulting and engineering services associated with nuclear projects. These activities encompassed efforts associated with AEC licensing and design requirements, nuclear vs fossil fueled plant evaluation, site evaluation, and calculation of nuclear fuel costs. Duties also included participation in business development activities.

Nuclear Fuel Costs - CAI principal analyst for calculating nuclear fuel costs. Developed logic and formulas necessary for the preparation of a proprietary computer program for calculating fuel cycle costs.

Duane Arnold Energy Center - Active full time for two years on this project for the Iowa Electric Light and Power Company. Responsibilities during this time are outlined below:

Site Evaluation and Selection - Served as the lead nuclear engineer during the site evaluation and selection study. Made numerous field trips throughout Iowa to locate and evaluate prospective nuclear plant sites. Co-authored and coordinated preparation of study report and participated in the presentation of site characteristics to the AEC.

Nuclear vs Fossil Plant Study - Served as lead nuclear engineer during the generation study to determine plant concept, size and location. Prepared nuclear oriented study material, co-authored and coordinated preparation of the final report, and participated in the presentation of study results to IELP management.

Speakers Bureau - Participated in the preparation and presentation of material to the IELP Speakers Bureau. Items covered during the indoctrination seminar included background on the use of nuclear power, reactor concepts, BWR details, fuel cycle, licensing requirements and other matters of interest to members of the Speakers Bureau.

Evaluation of Fuel Proposals - Performed evaluation of the various fuel supply options offered by the reactor manufacturer. Prepared evaluation report and presented results and recommendations to IELP management.

Licensing Activities - Served as the CAI Licensing Engineer from the initial licensing phase of the project. Major efforts associated with this responsibility included (1) the prime coordinating effort between IELP, CAI, the reactor supplier and special consultants, (2) consulting with CAI design engineers during preparation of the PSAR and amendments to insure the inclusion of consistent and complete information as necessary to meet AEC requirements, (3) review of IELP and reactor supplier input to the PSAR, (4) editing all CAI input to the PSAR, (5) participation in all project meetings with an agenda having licensing ramifications, (6) participation in all AEC meetings, and (7) consulting with IELP personnel and CAI design engineers on AEC design requirements.

WESTINGHOUSE ATOMIC POWER DIVISION

Participated for three years in the preliminary plant design, economic analysis, and proposal development of commercial PWR nuclear power stations. Responsible for developing engineering effort and material costs for nuclear steam supply systems. This required reviewing customer bid specifications and scope documents, establishing proposal groundrules, and a close liaison with the engineering, purchasing and marketing departments. In addition to developing firm nuclear steam supply system costs, estimates were prepared for total plant costs as well as operating, maintenance and insurance costs.

STEARNS ROGER CORPORATION

Served one year in project management and contract administration of nuclear equipment contracts. Duties included project coordination, costing and customer liaison on contracts for the design, manufacture and testing of nuclear fuel handling and reactor component transportation equipment.

ALLIS-CHALMERS MANUFACTURING COMPANY

Assigned for three years to the Thermal Power Department with responsibility for surface condenser design and field performance testing. Also participated in product development, cost reduction and proposal preparation.

EDUCATION:

BSME, Michigan State University, 1958
Honors: Academic scholarship, Pi Tau Sigma

Engineering Graduate Studies, University of Wisconsin -
Milwaukee

Engineering Summer Conference - University of Michigan:
Elements of Nuclear Power Reactor Engineering, a four-week
resident course covering nuclear theory, technology and
applications

Business Administration Graduate Studies - Wayne State
University - Jackson

REGISTRATION:

Registered Professional Engineer in Michigan and Pennsylvania

PERSONAL:

Birthplace: Manistee, Michigan
Age: 38
Marital Status: Married, with three children
Hobbies: Outdoor activities including fishing, hunting
and camping