

Stephen H. Howell  
Vice President



4-6  
Quarterly 1973  
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COMMERCIAL  
TRUST  
COMPANY

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201

May 25, 1973

50-999/220

Mr. F. E. Kruesi, Director  
Regulatory Operations  
U. S. Atomic Energy Commission  
Washington, DC 20545

Dear Mr. Kruesi:

In response to Memorandum and Order ALAB-106 dated March 26, 1973, and Amendment No. 1 to the Midland Plant construction permits we are submitting two (2) copies of our first report pursuant to the second and third conditions of the Order and the Amendments, covering the period ending June 30, 1973. Subsequent reports pursuant to these conditions will be filed on the first day of each succeeding calendar quarter.

Very truly yours,

Stephen H. Howell

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

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A

CONSUMERS POWER COMPANY  
REPORT NO. 1 PURSUANT TO CONDITIONS 2.F.b AND 2.F.c  
OF CONSTRUCTION PERMITS CPPR-81 AND CPPR-82  
COVERING THE PERIOD ENDING JUNE 30, 1973

MAY 25, 1973

MIDLAND PLANT  
DOCKET NOS. 50-329, 50-330

A. CONSTRUCTION WORK TO BE PERFORMED DURING THE PERIOD ENDING

JUNE 30, 1973

Forecasted Site Construction Work Items

1. Work will begin by removal of the temporary enclosures above the unit 1 reactor building tendon gallery and turbine-generator pedestal mat. The protection straw will be removed and all necessary clean-up work will be done to allow construction activities to continue.
2. The batch plant will be renovated both electrically and mechanically to insure satisfactory operation for the production of concrete.
3. The batch plant will then be utilized to prepare design mix for the purpose of making test cylinders. Applicable tests will be made in both the batch plant and the design mix to insure conformance to the applicable specifications.
4. The earthwork will consist of excavation in the cooling pond area and placement of the dike and plant site embankments.
5. The first structural concrete will consist of placing the concrete for the unit 2 tendon gallery. Concrete placement will then continue on a required schedule for normal construction sequence.

B. SUPERVISORS AND ENGINEERS OF APPLICANT AND ARCHITECT-ENGINEER

WITH QUALITY-RELATED DUTIES WHO WILL BE ON SITE DURING THE

PERIOD ENDING JUNE 30, 1973

1. Consumers Power Company

- a. The following Consumers Power Company supervisors and engineers with quality-related duties will be at the site during the period covered by this report:

Thomas C. Cooke - Project Superintendent  
Bruce H. Peck - Mechanical Supervisor  
Dennis R. Keating - Field Engineer, Mechanical  
Jerry L. Corley - Civil Supervisor  
Robert E. Whitaker - Quality Assurance Engineer

- b. The following Consumers Power Company supervisors and engineers with quality-related duties may be at the site at various times during the period covered by this report:

William E. Kessler - Project Manager  
Martin P. Hanson - Project Engineer  
Roger L. Teuteberg - Assistant Project Engineer  
Carrol Q. Hills - Quality Assurance Administrator

2. Bechtel Power Corporation

- a. The following Bechtel Power Corporation supervisors and engineers with quality-related duties are expected to be at the site during the period covered by this report:

Edwin E. Felton - Project Superintendent  
John I. Dotson - Project Quality Assurance Engineer  
Howard Lilligh - Quality Assurance Engineer  
Frank Joyce - Quality Control Supervisor  
Carl Kinney - Project Field Quality Control Engineer  
T. C. Valenzano - Project Field Engineer  
R. R. Grote - Lead Field Civil Engineer  
K. F. Pulito - Lead Field Mechanical Engineer  
James P. Newcomb - Senior Engineer  
Hugh L. Hondorp - Engineer

C. QA QUALIFICATIONS OF SUPERVISORS AND ENGINEERS WHO WILL BE ON  
SITE DURING THE PERIOD ENDING JUNE 30, 1973

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

D. CHANGES

Additions to or deletions from the list of supervisors and engi-  
neers expected to be on site during the report period will be noted  
in the next report, together with a description of the QA qualifica-  
tions of any additional supervisors or engineers.

THOMAS C. COOKE  
Project Superintendent  
Consumers Power Company

Responsible for overseeing all phases of construction operations and construction administration.

Education

Ohio University, Athens, Ohio, June 1957, Degree BSCE with honor.

Licenses

Registered Professional Engineer.

Formal Courses

Engineering Officer Courses, Fort Belvoir, Virginia, including Bridges Engineering, Highway Design, Surveying and Soils Engineering.

Hobart Welding School, Troy, Ohio - Nondestructive Testing and Welding Methods.

Linear Programming Techniques.

Administrative Leadership.

Combustion Engineering, Inc., Windsor, Connecticut-Nuclear Plant Technology.

Fallout Evaluation Analysis.

Experience

Consumers Power Company

1973-Present Project Superintendent for field construction, quality and start-up of two Nuclear Electric generating plant units with a combined total

capacity of approximately 1,300 MWe and 4,050,000 pounds per hour of process steam.

1971 Through 1972 Project Superintendent for Radwaste modifications and cooling towers installation for 810 MW Nuclear Electric generating plant construction, Quality Assurance and start-up program.

1967 Through 1971 Start-up Engineer on an 810 MW nuclear electric generating plant - Co-ordination of test program designed to verify through checks and pre-operational tests, the adequacy of all plant systems.

1965 Through 1967 General Engineer in the construction, inspection and start-up of a 385 MW fossil fuel-fired electric generating plant.

1964 Field Supervisor on construction, inspection and start-up of a steam heating plant.

1963 Field Assistant in the construction, inspection and start-up of a multi-unit gas compressor station.

1959 Through 1962 Field Assistant in the construction, inspection and start-up of a 265 MW fossil fuel-fired electric generating unit. Some time also spent on pipeline construction and training program.

United States Army

1957-1959 US Army Corps of Engineers - 1st Lt. - Construction, Quality control and Scheduling activities.

Professional Organizations

ANS

BRUCE H. PECK  
Field Supervisor  
Consumers Power Company

Responsible for monitoring contractor field activities particularly in the area of Mechanical Engineering.

Education

Illinois Institute of Technology, BS Physics, 1965  
Postgraduate work in Business Administration.

Formal Courses

US Naval Nuclear Submarine Training Program - Eighteen month course covering aspects of nuclear submarine engineering operations.

Nondestructive Testing Methods, Magnaflux Corporation.

Welding Inspection, Dow Chemical Company.

Concrete Inspection, Aetna Cement Company.

Basics of Job Management, Consumers Power Company.

Experience

Consumers Power Company

1973-Present Field Supervisor for the construction of the Midland Nuclear Plant. Responsible for overseeing all phases of construction within the mechanical area.



1971-1972 General Engineer for the construction of a 1320 MW oil-fired electric generating plant. Responsible for overseeing quality control and field engineering activities.

1971 Associate Engineer for the construction and start-up of a five unit, 88 MW gas turbine peaking plant. Responsible for overseeing all construction operations.

1970 Associate Engineer for the construction of the Midland Nuclear Plant. Responsible for overseeing field quality assurance activities.

#### United States Navy

1965-1970 Lieutenant, USN. Various responsibilities including: Eighteen months in Nuclear Submarine Training Program. Eighteen months in shipyard overhaul program for a diesel-electric submarine. Responsible for procurement, inspection and testing of newly overhauled piping and electronic systems. Two years in new construction program for a nuclear submarine. Responsible for inspection, testing and start-up of electronic and piping systems.

#### Professional Organizations

American Institute of Physics

DENNIS R. KEATING  
Associate Engineer  
Consumers Power Company

Responsible for monitoring contractor field activities particularly in the area of Mechanical Engineering.

Education

Michigan Technological University, BSME, 1970.

Formal Courses

Basics of Job Management, Consumers Power Company.

Experience

Consumers Power Company

1973-Present Associate Engineer for the construction of the Midland Nuclear Plant.

1970-1972 Graduate Engineer and Associate Engineer in Pontiac Division Gas Distribution Department. Responsible for planning and control of production. Developed and implemented Gas Main Upgrading Program within Michigan Public Service Commission criteria. Received formal and practical experience in trouble shooting of remote telemetering equipment.

1965-1967 Temporary Engineering Assistant in West Wayne Division Engineering Department. Responsible for preparation of work orders and associated drawings of Gas Distribution facilities including commercial meter stands.

JERRY L. CORLEY  
Field Supervisor  
Consumers Power Company

Responsible for monitoring contractor field activities particularly in the area of Civil Engineering.

Education

Purdue University, BSCE, 1965.

Formal Courses

Basics of Job Management - Consumers Power Company.

Human Aspects of Managing Program - Consumers Power Company.

Experience

Consumers Power Company

1973-Present Field Supervisor on construction of Midland Nuclear Plant.  
Responsible for overseeing all phases of construction within the civil area.

1971-1972 Field Supervisor on construction of 1872 MW pumped storage hydroelectric generating plant.

1970-1971 General Engineer on construction of 1872 MW pumped storage hydroelectric generating plant.

1970 General Engineer on construction of Midland Nuclear Plant. Responsible for seeing that plans, specifications, and procedures were followed, especially in Civil work.

1968-1970 General Engineer on construction of 810 MW nuclear generating plant. Responsible for seeing that plans, specifications and procedures were followed for Civil and Mechanical areas.

1967-1968 Associate Engineer on construction of 810 MW nuclear electric generating plant. Responsible for seeing that plans, specifications and procedures were followed in Civil and Mechanical areas.

1966-1967 Associate Engineer on construction of 385 MW fossil fuel-fired electric generating plant. Responsible for seeing that plans and specifications were followed on marine work and for assisting in checkout and testing of systems in the plant itself.

1965-1966 Graduate Engineer on construction of 385 MW fossil fuel-fired electric generating plant. Responsible for seeing that plans and specifications were followed on marine work.

ROBERT E. WHITAKER  
Quality Assurance Engineer  
Consumers Power Company

Responsible for implementing quality assurance audit programs established for field activities in the Midland Project and reporting results.

Education

Michigan Technological University, BSCE, 1966.

Licenses

Registered Professional Engineer.

Formal Courses

Hobart Welding School, Troy, Ohio - Nondestructive Testing and Welding Methods.

Basics of Job Management, Consumers Power Company.

Experience

Consumers Power Company

May, 1973-Present Quality Assurance Engineer for the construction of the Midland Nuclear Plant. Responsible for implementing quality assurance audit programs established for field activities on the Midland Project and reporting results.

1970-May, 1973 General Engineer for the construction of 1872 MW pumped storage Hydroelectric generating plant. Responsible for overseeing mechanical engineering and welding quality assurance activities.

1966-1970 Graduate Engineer and Associate Engineer on construction of 810 MW nuclear electric generating plant. Responsible for overseeing activities in the containment building and the NSS installation.

1966 Graduate Engineer on construction of 385 MW fossil fuel-fired electric generating plant.

WILLIAM E. KESSLER  
Project Manager  
Consumers Power Company

Responsible for all aspects of the Project.

Education

Eastern Michigan University, BS Physics, 1956.

Assorted Graduate courses in Engineering, Mathematics, and Business.

Experience

Consumers Power Company

1971-Present Project Manager for the Midland Nuclear Plant with overall responsibility for the Project.

1967-1971 Project Engineer for the Midland Nuclear Plant.

1966-1967 Staff Nuclear Engineer for the Palisades Nuclear Plant.

Phillips Petroleum Company

1962-1966 Group Leader for designing, planning, performing and analyzing experiments investigating launchpad safety of Snap IOA Reactors. Group Leader for LOFT Reactor experiments.

Westinghouse Electric Corporation

1961-1962 AIW Physics Test Engineer; developed and performed test procedures.

1956-1961 Nuclear Designer on fuel assembly design, Power Distribution Optimization, and Computer Analysis Methods.

Michigan Bell Telephone Company

1954-1956 Toll Board Testman.

United States Army

1951-1954 Signal Corps - 2nd Lt. - Electronics.



MARTIN P. HANSON  
Project Engineer  
Consumers Power Company

Responsible for Coordinating all licensing, engineering and procurement  
(except field) activities for the Project.

Education

United States Naval Academy. BS General Engineering, 1959  
Postgraduate work in business.

Licenses

Registered Professional Engineer.

Formal Courses

Navy Nuclear Power Training Program, 1965.

Experience

Consumers Power Company

1971-Present Project Engineer for the Midland Nuclear Plant.

1969-1971 Senior Engineer for the Generating Plant Engineering Department.

Coordinated the preparation of the preoperational testing program for the  
Palisades Nuclear Plant.

United States Navy

1959-1969 Served as Engineer officer on destroyer and Reactor Mechanical Assistant on Nuclear Powered USS Enterprise. Achieved rank of Lieutenant Commander.

Professional Organizations

American Nuclear Society.

ROGER L. TEUWEBERG  
Assistant Project Engineer  
Consumers Power Company

Responsible for coordinating all licensing, engineering and procurement (except field) activities for the Project.

Education

University of Wisconsin, BS, Nuclear Engineering, 1969.

Formal Courses

Welding Inspection, Dow Chemical Company.

Experience

Consumers Power Company

1973-Present Associate Engineer for the Midland Nuclear Plant. Responsible for assisting Project Engineer on all licensing, engineering and procurement (except field) activities.

1971-1973 Associate Engineer on 700 MW Nuclear Power Plant. Responsible for overseeing contractor operations in the area of field quality assurance.

1969-1971 Associate Engineer/Graduate Engineer on 700 MW Nuclear Power Plant. Responsible for overseeing erection of primary coolant and related piping systems.

CARROLL Q. HILLS  
Quality Assurance Administrator  
Consumers Power Company

Responsible for developing and reviewing Quality Assurance Programs for Electric Plant Projects Departments, contractors, and vendors, and implementation of Quality Assurance Audit System.

Education

Michigan State University, BSME, 1948.

Licenses

Registered Professional Engineer.

Experience

Consumers Power Company

1973-Present Quality Assurance Administrator in the Project Quality Assurance Services Department. Responsible for providing Quality Assurance service to other Electric Plant Projects Departments.

1967-1972 Quality Assurance Engineer on the Palisades Nuclear Plant and various other nuclear and non-nuclear projects.

1965-1967 Mechanical Engineer for the Generating Plant Engineering Department.

\*General Atomics

1962-1965 Employed at John Hopkins Laboratory.

\*Commonwealth Associates

1957-1962

1945-1956

\*General Electric

1956 Employed in Atomic Power Equipment Department.

\*Various positions have been held at the above companies, including Engineer Mechanical Supervisor, Project Coordinator, and Project Engineer. Experiences include both nuclear and non-nuclear power plant engineering studies, inspection and testing.

EDWIN E. FELTON  
Project Superintendent  
Bechtel Power Corporation

Mr. Felton joined Bechtel in December, 1951 and is presently assigned as Project Superintendent on the Palisades Nuclear Plant.

He graduated from Hesld's Engineering College with a BSEE in 1951. Assignments while with Bechtel include work as Assistant Field Engineer, Field Engineer, Senior Engineer, Senior Field Engineer, Assistant Superintendent and Superintendent. He has worked on numerous fossil-fired and nuclear power plants including San Onofre, Point Beach and Palisades. Mr. Felton is responsible for all work on the radwaste building addition and cooling tower construction at the Palisades Nuclear Plant, in addition to his responsibilities as Midland Project Superintendent.

JOHN I. DOTSON  
Project Quality Assurance Engineer  
Bechtel Power Corporation

Mr. Dotson joined Bechtel in September, 1972 as a Quality Assurance Engineer in the Power and Industrial Division and is presently assigned to the Midland project.

He attended Virginia Polytechnical Institute, majoring in Mechanical Engineering.

His work experience covers approximately ten (10) years of varied experience in the Mechanical, Manufacturing, Installation and Inspection fields.

He worked six (6) years as Mechanical Supervisor I for the State of California on Power Plant and pumping station installations. His duties included inspection and auditing of vendors and subcontractors responsible for fabrication, delivery and installation of pumps, pump assemblies and casting, and related equipment, and the review of the suppliers' Quality Assurance program. As such, he was certified as inspection Level II (SNT-TC-1a) by the Department of Water Resources. He is a member of the American Society for Quality Control and American Society for Non Destructive Testing.

He has completed the Bechtel Indoctrination and Training Program established for Quality Assurance Engineers.

HOWARD LILLIGH  
Quality Assurance Engineer  
Bechtel Power Corporation

Mr. Lilligh joined Bechtel in October, 1972 as a Quality Assurance Engineer in the Power and Industrial Division and is presently assigned to the Midland project.

He attended Long Beach City College, Long Beach, California, majoring in Engineering. Additionally, he has completed courses in construction, supervision and management conducted by the State of California.

His work experience encompasses approximately eighteen (18) years as Construction Engineer in the Civil, Structural Field for the State of California. His experience included five (5) years as a Materials Engineer for The State of California Department of Water Resources - responsible for soils and concrete testing; approximately three (3) years as Supervisor of the Department of Water Resources Materials Testing Laboratory at Tracy, California; and approximately nine (9) years of diversified experience in the areas of construction, inspection, survey, material testing and design work on highways and related structures.

He has completed the Bechtel Indoctrination and Training Program established for Quality Assurance Engineers.



FRANK JOYCE  
Quality Control Supervisor  
Bechtel Power Corporation

Mr. Joyce graduated from California Institute of Technology in 1954 with a BS degree in Civil Engineering and from Harvard University in 1955 with an MS in Engineering specializing in soil mechanics.

Mr. Joyce's work experience includes 8 years as Construction Engineer for several nationwide firms in Soil Mechanics and Foundation Design. His experience also includes 6 years as Chief Engineer of a material testing and inspection firm specializing in evaluation of construction materials and construction inspection of soils, concrete and structural steel.

Mr. Joyce joined Bechtel in February, 1971 as a Material Engineer Specialist. His work assignments have included performance and evaluation of structural integrity tests at Point Beach and Turkey Point and post tension tendon surveillance at Point Beach. In addition, he is Concrete Engineer for the Limerick Project and has designed the batch plant and testing laboratory for that project. His current assignment is Supervisor of Quality Control Specialists in San Francisco. His department has the responsibility of providing technical direction on Quality Control to various projects and the preparation and conducting of training courses for certification of Quality Control Inspection.

Mr. Joyce is the Bechtel representative on the Quality Assurance and Concrete Construction Subcommittee to prepare the new ACI-ASME Code for Nuclear Concrete Containments. As a portion of his work in Quality Assurance, he is chairman of the nationwide Task Force on the Qualifications for Level III inspectors of concrete containments.

Mr. Joyce is a Registered Civil Engineer in California and is a member of American Society of Civil Engineers, American Society of Mechanical Engineers, American Concrete Institute and American Society for Testing and Materials. In addition, he is currently on the Board of Directors of ASTM Northern California.

CARL KINNEY  
Project Field Quality Control Engineer  
Bechtel Power Corporation

Mr. Kinney is a high school graduate and has taken additional courses in the U. S. Air Force, I.C.S., Chicago Technical College and Utah State University.

Mr. Kinney worked as foreman and general superintendent on power houses, missile bases and other structures over the past 27 years.

From August, 1966 through March, 1972 he worked in all phases of inspection engineering in the Bay Area Rapid Transit system. February, 1970 through March, 1972 he was the Assistant Resident Engineer for BART.

He holds a rating of Construction Inspector for the State of California Water Resources Department.

T. C. VALENZANO  
Project Field Engineer  
Bechtel Power Corporation

Mr. Valenzano graduated from Oregon State University with a BSCE in June, 1967 and joined Bechtel Corporation immediately. Assignments while with Bechtel include work as a civil construction engineer at Weirton, West Virginia Steel Mill project and lead Civil Engineer and Subcontract Administrator at Point Beach Nuclear Plant from April, 1968 through March, 1971. Mr. Valenzano's latest assignment has been to the Construction Staff at the San Francisco Office as a specialist in heavy rigging and material handling. Additional assignments included coordination and review with Engineering to develop specifications for heavy material handling, cranes, restraints and post tensioning.

RICHARD R. GROTE  
Lead Field Civil Engineer  
Bechtel Power Corporation

Mr. Grote graduated Iowa State University with a B.S. degree in Civil Engineering in February, 1968. Employment with Bechtel Corporation commenced in March, 1968 when Mr. Grote was assigned to the Calvert Cliffs Nuclear Project in Lusby, Maryland. While assigned to the project he completed rotation through various field engineering areas, i.e., concrete engineer, structural steel engineer, and civil QC engineer and then served several months as an area civil engineer responsible for all civil engineering in the turbine building, service building and intake structure. Additional responsibilities included quality control for concrete production and placement. Since November, 1971 he has been assigned to the Palisades Nuclear Project as Lead Civil Engineer responsible for all civil engineering on the site and as Field Subcontract Administrator where responsibilities included initiation, administration technical direction and inspection of all subcontract work.

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K. PULITO  
Lead Field Mechanical Engineer  
Bechtel Power Corporation

Mr. Pulito is a graduate Mechanical Engineer from Washington State University. He was employed by Bechtel Corporation upon graduation in July, 1969 at the Monticello Nuclear Power Plant as a field piping and mechanical engineer, flushing and hydro testing and supervision of boiler-makers and millwrights during the final phases of Unit 2 construction.

In August, 1971 he was transferred to Palisades Nuclear Project where he served as Lead Mechanical and Piping Engineer for the addition of radioactive waste and circulating water cooling tower facilities.

JAMES P. NEWCOMB  
Senior Engineer  
Bechtel Power Corporation

Mr. Newcomb has approximately 15 years of experience with Bechtel and specializes in protective coatings for nuclear and chemical facilities. He is a high school graduate, and his education has been supplemented with appropriate corrosion classes.

During his employment with Bechtel, Mr. Newcomb has held the capacity of special coatings superintendent in charge of coatings and linings for nuclear power plants, chemical plants, waste treatment systems, and concrete and steel for immersion service. He has been responsible for the solution of unusual problems involving knowledge of chemical contaminants and corrosive agents. He is consulted on all types of surface treatment for equipment, construction materials, and prescribes appropriate coating action. Mr. Newcomb writes coating specifications and makes field inspections to review the quality of finished work.

Mr. Newcomb is a member of the Association of Corrosion Engineers.

HUGH L. HONDORP  
Engineer  
Bechtel Power Corporation

Mr. Hondorp graduated with a BS in Metallurgy from Michigan Technological University in 1970. He has completed course work for an MS in nuclear engineering at Purdue University.

He joined Bechtel in February 1973 and has completed a training course in metallurgy, materials, fabrication and quality control practices. His present assignment includes review of metallurgy and processing procedures.

Mr. Hondorp is a member of American Society for Metals and American Nuclear Society.



NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:  
Mr. D. B. Vassallo

FROM:  
Consumers Power Company  
Jackson, Mich.  
Stephen H. Howell

DATE OF DOCUMENT  
10/6/77

DATE RECEIVED  
10/13/77

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DESCRIPTION

*re the 7-10-76 TR*

Consists of info re the Reactor Vessel Support System.....

ENCLOSURE

PLANT NAME: Midland 1 & 2

RJL 10/13/77 (1-P)

DISTRIBUTION FOR REACTOR VESSEL SUPPORT INFO FOR OPERATING REACTORS PER MR. TRAMMELL 7-12-76

SAFETY

FOR ACTION/INFORMATION

ASSIGNED AD:	<i>Vassallo</i>
BRANCH CHIEF:	<i>Vassallo</i>
PROJECT MANAGER:	<i>Howell</i>
LIC. ASST:	<i>Sevill</i>

INTERNAL DISTRIBUTION

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EXTERNAL DISTRIBUTION

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LPDR: *Midland, Mi*

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