



**Consumers
Power
Company**

Stephen H. Howell
Senior Vice President

General Offices: 1945 West Parnall Road, Jackson, Michigan 49201 • (517) 788-0453

December 21, 1979
Howe-320-79

Mr J G Keppler, Regional Director
Office of Inspection and Enforcement
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

MIDLAND NUCLEAR PLANT
UNIT NO 1, DOCKET NO 50-329
UNIT NO 2, DOCKET NO 50-330
REACTOR BUILDING SPRAY PIPING SUPPORTS

- References: 1) S H Howell letter to J G Keppler; Midland Nuclear Plant;
Unit No 1, Docket No 50-329; Unit No 2, Docket No 50-330;
Reactor Building Spray Piping Supports; Serial Howe-131-79;
dated May 1, 1979
- 2) S H Howell letter to J G Keppler; Midland Nuclear Plant;
Unit No 1, Docket No 50-329; Unit No 2, Docket No 50-330;
Reactor Building Spray Piping Supports; Serial Howe-272-79;
dated October 19, 1979

Reference 1 had been submitted as a final report on the subject of the Reactor Building Spray Piping Supports. Subsequent to that report, it was determined that six ring girder supports in Unit 2 had not been installed in accordance with their design drawings. Reference 2 reopened the 50.55(e) report concerning the analysis of the spray piping supports based on their actual configuration. This letter is our final report on this subject.

ITT Grinnell has completed their analysis of the as-installed configuration of the six supports and has determined that the stresses are within Code allowables. The Grinnell analysis and the plant drawings have been reconciled with the actual hardware and the plant is now in conformance with design requirements.

WRB/lr

90003046

CC: Director of Office of Inspection & Enforcement
Att: Mr Victor Stello, USNRC (15)
Director, Office of Management
Information & Program Control, USNRC (1)

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Consumers Power Company
Report #28, December 28, 1979

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 - March 31, 1980.

A. Construction work to be performed during the period:

See Attachment A.

B. Supervisors and engineers of the applicant and architect-engineer who are expected to be onsite during the period January 1 - March 31, 1980 in addition to those previously reported:

1. Consumers Power Company

RElAyman - Quality Assurance Engineering - Electrical

2. Bechtel

McClure, A	- Quality Assurance Engineer - Mech/Piping
Newman, E	- Quality Control Engineer - Ass't PFQCE
Petrosino, J	- Quality Control Engineer - Electrical
Waatti, H	- Quality Control Engineer - Electrical
Miller, J	- Quality Control Engineer - Electrical
Hooper, R	- Quality Control Engineer - Electrical
Stevens, C	- Quality Control Engineer - Electrical
Tuttle, H	- Quality Control Engineer - Electrical
Michel, L	- Quality Control Engineer - Electrical
Narcavage, R	- Quality Control Engineer - Electrical
Wellington, R	- Quality Control Engineer - Mech/Piping
Provencher, T	- Quality Control Engineer - Mech/Piping
Fulmer, G	- Quality Control Engineer - Mech/Piping
Brautigam, F	- Quality Control Engineer - Mech/Piping
Gadani, D	- Quality Control Engineer - Mech/Piping
Husain, S	- Quality Control Engineer - Mech/Piping
Bunyon, R	- Quality Control Engineer - Mech/Piping
Price, J	- Quality Control Engineer - Mech/Piping
Shipreck, E	- Quality Control Engineer - Mech/Piping
Allen, W	- Quality Control Engineer - Civil
Parikh, R	- Quality Control Engineer - Civil
Musser, J	- Quality Control Engineer - Civil
Kanchwala, F	- Quality Control Engineer - Receiving
Kramer, J	- Quality Control Engineer - Receiving

3. B&W Construction Company

No changes.

C. Quality Assurance Qualifications of supervisors and engineers with site-related duties are attached to this report.

90003047

D. Changes

1. Consumers Power Company

WFDickson no longer has quality-related duties at this site.

2. Bechtel

Personnel who were previously reported as performing quality tasks and who are no longer acting in that capacity are as follows:

Price, R	- Quality Control Engineer - Mech/Piping
Kenny, G	- Quality Control Engineer - Welding
Arritola, T	- Quality Control Engineer - Mech/Piping
Roberge, K	- Quality Control Engineer - Mech/Piping
Krug, K	- Quality Control Engineer - Civil
Weyant, K	- Quality Control Engineer - Mech/Piping
Harvey, R	- Quality Control Engineer - Civil
Henderson, J	- Quality Control Engineer - Electrical
Crimens, J	- Quality Control Engineer - Electrical
Guliano, M	- Quality Control Engineer - Mech/Piping
Guynn, J	- Quality Control Engineer - Mech/Piping

3. B&W Construction Company

No changes.

Further additions and deletions to the list of personnel with quality-related duties will be listed in the next report.

90003048

QUARTERLY REPORTJANUARY, 1979 THROUGH MARCH, 1980PROJECTED WORK SCHEDULE

1. Start hydro of the Auxiliary Building Fuel Pool.
2. Complete installing of gate valves and tilt mechanism on the fuel handling equipment on the Auxiliary Building.
3. Continue working radiation shielding in the Auxiliary Building.
4. Complete installation of the roof exhaust on the Auxiliary Building.
5. Continue installation of HVAC ductwork throughout the Auxiliary Building.
6. Complete installation of large pipe and valves on elevation 568' and 704' in the Auxiliary Building.
7. Complete large pipe hangers on elevation 568' of the Auxiliary Building.
8. Continue installation of instrumentation and electrical bulks.
9. Completion of installation of Post Tensioning in Containment 2.
10. Complete 90% of large pipe and valves in Containment 2.
11. Start installation of the Reactor Cavity Seal Plate.
12. Start post tensioning in Unit #1 Containment.
13. Start trial fitup of Reactor Vessel Internals in Unit #1.
14. Complete installation of main steam supports in Turbine #2.
15. Complete installation of MSR Vent Stacks in Turbine #2.
16. Complete installation of all equipment in the Circulation Water Structure.
17. Complete large pipe in the Circulation Water Structure.
18. Continue installation of conduit, tray and piping in all areas.
19. Complete installation of the Tank Farm Tanks.
20. Continue construction of the Guard House.
21. Start piles for the bents and sleepers for the Process Steam Pipe to Dow.
22. Start excavation for the Dow Condensation Pumphouse.
23. Start the caisson for the High Voltage Tower.

90003049

RESUME

Robert E. Layman

⁵¹
B. Eng., Mc Gill University
Electrical & Eng. Physics 5 yrs.
1st Year Eng., Rice Institute 1 yr.

POSITIONS HELD

Project Program Supervisor - Nuclear Aircraft Program	5 yrs.
Staff and Senior Eng. - Electronics & Instrumentation	7 yrs.
Supervisor or Project Eng. - Elect. Mech. Hydraulics	6 yrs.
Test Pad Manager - Rover Nuclear Rocket Program	1 yr.
Designer & Analytical Engineer	4 yrs.
QA Engineer, Nuclear Generating Plants	6 yrs.

JOB PREFERENCE

Any managerial or supervisory position which would use broad technical background or any engineering position requiring a high degree of technical competence.
Willing to travel or relocate.

EXPERIENCE

Multi disciplined. At Project Program level on nuclear power plant development testing was responsible for all project program activities conducted concurrently in several facilities at the Idaho Test Station through out a 6 year program.

Prepared test programs and supplied shop handling instructions and technical direction for all cold shop and hot shop operations on complete power plant including reactor, aux. systems, jet engines and instrumentation and controls.

Was responsible for liaison between test site and design and project group and with Air Force and A&C representatives. Budgeted and scheduled the project activities at the site. Assisted in the planning of new facilities and in planning and installation of facility modifications.

After cancellation of the ANP program, qualified as reactor operator and served one year as Shift Supervisor and Program Coordinator operating a pool reactor to conduct fast neutron effect experiments for the Organic Moderator Program.

Instrumentation and electronics experience is also hands on at the Supervisory level in the installation, checkout, operation, maintenance and modification of a wide range of equipment for satellite and deep space ground station tracking, command and control, telemetry and data acquisition.

In each of these positions recommended and performed modifications to insure or improve the equipment capabilities, generated and up dated test and maintenance procedures and trained technical personnel to operate and maintain the equipment.

90003050

Robert E. Layman

EMPLOYMENT HISTORY

August '77 to
Senior Startup Engineer

Nuclear Energy Services
Danbury, Conn.

Have been assisting NES QA Manager as lead Auditor to meet program schedules for NES Engineering and Inservice Inspection Audits. Performed preaward evaluation of suppliers and fabricators and inspections on high density fuel racks. Audited refueling outage activity at Duane Arnold - 2 mo. and reviewed Construction turnover documentation at Three Mile Island Unit 2.

February '73 to June '77
QA Engineer - Test & Startup

Public Service Electric & Gas
Salem, N.J. Nuclear Power Sta.

Audit and monitor construction activities. Assist in preparation of startup program and procedures. Review startup procedures and results. For most of last year was on loan to Station operating group during startup testing and ascent to power.

April '68 to June '71
Senior Test Engineer

Hamilton Standard
Windsor Locks, Conn.

Functional and Qualification testing of space systems and components. Includes vibration and Electro magnetic Compatibility tests. Trouble shoot and secure operation of IBM 360 compatible data system.

March '65 to April '68
Staff Engineer

Hughes Aircraft
Goldstone Deep Space Facility

Responsible for telemetry subsystem on Surveyor (Lunar Soft Lander). Installation checkout, operation and modification.

December '63 to March '65
January '62 to March '63

Lockheed Missile & Space Co.
New Hampshire Tracking Sta.

Senior Electronics Research Engineer. Installation checkout, operation and modification. This position and the two positions listed above was responsible for preparation of maintenance and operation procedures, operation during mission operation and training personnel in the maintenance and operation of control systems, telemetry systems, data acquisition systems, magnetic tape and high speed oscillographs, and transmitting and receiving stations.

March '68 to December '63
Staff Engineer

University of California
Los Alamos Scientific Lab

Test Pad Manager, Rover Nuclear Rocket Program, responsible for technical direction of contractor personnel performing the assembly of the reactor and the installation and instrumentation of the test vehicle in the Test facility. Supported the test activities during tests of the liquid hydrogen rocket.

90003051

Robert E. Layman

EMPLOYMENT HISTORY cont.

August '56 to January '62
Supervisor - Project Program Unit

General Electric ANP Dept.
Idaho Test Station NRTS

Responsible for test site activity on Project 101. See Resume page 1.

September '54 to August '56
Supervisor Test Lab

Chandler Evans Division
West Hartford, Conn.

Project Engineer - test and development of fuel controls, pumps and afterburner controls. Functional and qualification testing of servo mechanisms, hydraulic and mechanical components.

September '51 to September '54
Design & Analytical Engineer

Pratt & Whitney Aircraft
East Hartford, Conn.

Analytical engineer in compressor design group, designer in afterburner and ram jet design group, leadman in engine installation and development group.

September '49 to October '50
Designer

Wiggs, Walford, Frost & Lindsay
Montreal, Canada

Electrical and radiant heating designer for consulting firm. Lighting and power distribution for schools, hospitals, industrial plants and multi-story office buildings.

Sept '37 to April '41
Shift Supervisor

Subterrex Laboratories
Houston, Texas

Laboratory technician for geophysical company. High vacuum gas analysis for geochemical oil prospecting and hydrocarbon well logging.

90003052

DATE: 12-4-79

NAME: MCCLURE ARTHUR C
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 661262

EDUCATION:

DREXEL INST. OF TECH

PHILA, PENNA.

BS MECHANICAL ENGINEERING

NUCLEAR APPARATUS - DESIGN SEMINARS - WESTINGHOUSE
ELECTRIC CORP. - NUCLEAR POWER DIV.

WORK HISTORY:

APPLIED ENG. (SUB. DANIEL INT'L & FLOOR CORP)

ENG. MGR - DESIGN RESPONSIBILITY FOR DESIGN MFG
FACILITY: TURN KEY PROJECTS FOR THE POWER, PETRO-
CHEMICAL & OTHER CUSTOMER APPARATUS RELATED TO
PIPING SYSTEMS & VESSEL TYPE COMPONENTS FOR
FOSSIL & NUCLEAR APPLICATIONS. SKID MOUNTED RANTS
A SPECIALTY. CODE COMPLIANCE: ASME SEC. I, II, III & IV
ALONG WITH ANSI & API.UNISTAN INC.: CONSULTANT ENG. FOR CLIENT RANT
MODIFICATION & EXPANSION FOR EQUIPMENT & SYSTEM
COMPONENTS SUCH AS PIPING, STORAGE TANKS, HEAT
EXCHANGERS, COLUMNS, TOWERS & RELATED APPARATUS.ALL STATES ENG (ENG. SERVICE CO. TO E.I. DUPONT) - DESIGN
OF APPARATUS (AS ABOVE) FOR PLASTICS & PETRO-CHEMICAL
INDUSTRY.ARGO OF PENNA - GEN'L MGR: DESIGN & FABRICATION OF
EQUIPMENT (REF. ABOVE)

POOR ORIGINAL

90003053

NAME: NEWMAN EDWARD D
(LAST) (FIRST) (INITIAL)

DATE: 12-10-79

EMPLOYEE NO. 539260

EDUCATION:

HIGH SCHOOL 4 YEARS

DREXEL INSTITUTE OF TECHNOLOGY 2 YRS. E.E.

UNIV. OF TEXAS 1.5 YRS M.E.

CERTIFICATE ICS CORRESPONDENCE 1966 - MECH.

REGISTERED PROFESSIONAL ENGINEER, MECHANICAL, LOUISIANA

WORK HISTORY:

9-79 TO PRESENT ASST. P.F.D.C.E. SUPERVISION TO DCE STAFF

MIDLAND NUCLEAR POWER CONSUMERS POWER CO. JOB 7330

MIDLAND, MI. 4/77 TO 8/79, SENIOR FIELD ENGR. - QUALITY VERIFICATION

SUPERVISOR, GREENWOOD ENERGY CENTER, DETROIT EDISON FOSSIL FUEL

STM GEN PLANT JOB 9425 AVOCA, MI. 3/74 TO 4/77 SAN FRANCISCO

HOME OFFICE, LEAD QUALITY CONTROL ENGR. - PROJECT QUALITY

CONTROL ENGINEER (LIMERICK - MIDLAND - ARKANSAS NUCLEAR POWER

PLANTS INVOLVED) 4/73 TO 3/74. PROJECT FIELD QUALITY CONTROL

ENGINEER SUPERVISOR & DIRECTION TO DCE STAFF, FFTE

PROJECT, JOB 8776, RICHLAND, WASH. 6/72 TO 4/73 SENIOR

FIELD ENGINEER, LEAD INSTRUMENT D.C. ENGINEER, PEACH BOTTOM

NUCLEAR POWER PLANT, PHILA. ELECT. CO. JOB 6280, DELTA, PA.

5/64 TO 7/65 GENERAL ENGINEER, QUALITY, USAirforce, D.C. BENCH.

HAYES AIRCRAFT CONTRACTS FOR NASA, BIRMINGHAM, ALA., 11/63 TO 5/64

MECH. ENGR., INSPECTION & ACCEPTANCE OF MECHANICAL COMPONENTS

MISSILE LAUNCH & CONTROL SITES, WHITEMAN AFB, MISSOURI. 3/63 TO 11/63

MECH ENGR. INSPECTION / ACCEPTANCE OF MECH EQUIPMENT DURING

CONSTRUCTION OF MISSILE TESTING FACILITY, U.S. ARMY CORP OF ENGRS

HILL AFB, UTAH

90003054

POOR ORIGINAL

DATE: 25 Sept 72

NAME:

DeToro
(LAST)Tocco
(FIRST)J.
(INITIAL)EMPLOYEE NO. 668777

EDUCATION:

High School graduate 1955USC Electronics MSc A SchoolUSC Nuclear Reactor instrumentation course

WORK HISTORY:

Spent a little over 3 years in the Navy as an Electronics MSc. Was honorably discharged for Meritorious Service to serve for 2 years on Navy nuclear prototypes. Repair and installation electrical systems and refurbishing of 4 reactor plants. Had to be able to work under strict A.E.C. and Naval procedures of quality control and checks.

General Dynamics had the contract for S86 Tridant Reactor prototype. While my duties there included wiring of control panels, instruments, nuclear devices and testing of same.

I have been working in the electrical field for the last 14 years.

90003055

POOR ORIGINAL

DATE: 12-17-79NAME: WAAHI Harold H
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 668487

EDUCATION:

8 YEARS GRADE SCHOOL -
4 YEAR SOME ELECTRICAL TRAINING IN THE FIELD -
DECO ELECTRIC HEAT & LIGHTING COURSES -

WORK HISTORY:

ACME MFG FERRISDALE MICH. 1948-1950
MATHECE - ON MACHINE TOOLS -
L & J ELECTRIC 1950-1953 JRYMAN ELECTRICIAN
1953-1971 KASMER ELECTRIC DETROIT RESIDENTIAL
COM- WIRING - LAST 10 YEARS FIELD SUPT.
IN CHARGE OF INSTALLATION OF COMPLETE
ELECTRICAL- INSTALLATION - PLUS ASST IN
PURCHASING AND ESTAMATING
1971- 1979 SELF EMPLOYED WAAHI ELECTRIC
INC. HOLDER OF MASTERS (LIC), ELECTRICAL
CONT. (LIC) STATE OF MICHIGAN

90003056

POOR ORIGINAL

DATE: 9-24-79

NAME: MILLER JOHN C
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. #668501

EDUCATION:

GRADUATED FROM HIGH SCHOOL C+ AVERAGE
COURSES OF STUDY INCLUDED: GEOMETRY, ALGEBRA II
BIOLOGY, PHYSICS.

ATTENDED THREE (3) YEARS OF COMMUNITY
COLLEGE AS A MUSIC MAJOR, ALSO
COMPLETED GENERAL MATH AND COMMUNICATIONS.

WORK HISTORY:

My Construction EXPERIENCE BEGAN INSULATING
PIPE, I SPENT 9 MONTHS OF MY THREE YEARS
AT THE BARNWELL, SC. NUCLEAR FUEL
REPROCESSING PLANT. IN 1977 MOVED
TO MICH. AND STARTED WORK AT THE
MIDLAND NUCLEAR PLANT AS A LABORER.
I ENROLLED IN ~~THE~~ THE ONSITE WELDING
COURSE BECAME CERTIFIED TO WELD.
IN Oct. 1978 I REHIRED AS AN ELEC.
WELDER AND WELD ONLY LISTED
ITEMS UNTILL SEPT 1979 WHEN I
BEGAN TRAINING FOR MY POSITION AS QCE.

90003057

POOR ORIGINAL

DATE: SEPT. 6, 1979

NAME:

HOOPER ROBERTW.
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 668.518

POOR ORIGINAL

EDUCATION:

HIGH SCHOOL - GRADUATED TOP 10%2 YRS COLLEGE - MECHANICAL & ELECT. ENG.1 YR TECH SCHOOL - BASIC & ADVANCED ELECT. (U.S. AIR FORCE)3 MO Q.C. SCHOOL - INSPECTION TECHNIQUES & PROCEDURES1 MO Q.C. SCHOOL - MILITARY INSPECTIONS AND REPORTING METHODS

WORK HISTORY:

1978-1979 PARSONS-CLARKE INC. ST. JAMES, LA.WORKED AS ELECTRICAL INSPECTOR AND LATER AS
ELECTRICAL SUPERINTENDENT FOR THIS CONSTRUCTION
MANAGEMENT FIRM.1974-1978 DECOR ELECTRONICS AUSTIN TEXASWORKED AS NATIONAL SALES MGR. FOR THIS
LIGHTING, DIMMING AND DIMMING MACHINE MFG.1971-1974 C.S.I., INC. AUSTIN TEXASWORKED AS REGIONAL SALES MGR FOR THIS
AUDIO VISUAL, INSTRUMENTATION & INTERCOM MFG.1968-1971 AIR SURVEILLANCE KENNEWICK, WASH.SOLO AND FLEW AERIAL LINE PATROLS TO POWER
AND PHONE COMPANIES1967-1968 BOEING AIRCRAFT PENTON, WASH.INSPECTED ALL OUT OF SEQUENCE WORK PERFORMED
ON 747's, 727's & 707's.900030581965-1967 LST, INC.(VIETNAM)
OXC, OXH.REPAIR RADIO GEAR IN HELICOPTERS, WARECREW CHIEF OVER 6 MAN CREW. WAS PROMOTED
TO PROJECT MANAGER OVER AIR FORCE CONTRACT
INSPECTING & REPAIRING ALL FIELD GENERATORS IN VIETNAM.

(OVER)

MY BACKGROUND IS TECHNICAL - I HAVE WORKED
AS ELECTRONIC TECHNICIAN, ELECTRIC-MECHANICAL
TECHNICIAN (REFRIGERATION), ENGINEERING AIDE,

DRAFTSMAN, ROSSMAN, CHAPMAN, AND VARIOUS OTHER
TECHNICAL AREAS. I GOT INTO Q.C. FOR A

MFG. CO. AND HAVE WORKED AS MEASURING, SOURCES,
ASSEMBLY, FINAL ASSEMBLY, TEST AND SYSTEM

Q.C. AND Q.A. IN MFG, AEROSPACE AND CONSTRUCTION
I WENT INTO MANAGEMENT WHILE IN Q.C. AND HAVE
WORKED AS LEADMAN (FOREMAN), SUPERVISOR, PLANT
MANAGER, OWNER/PRESIDENT OF MY OWN COMPANY,
SUPERIOR ELECTRICAL SUPERINTENDENT AND AREA
SUPERINTENDENT IN CONSTRUCTION.

W. H. H. H.

POOR ORIGINAL

90003059

DATE: 9-11-79

NAME: STEVENS CHARLES HENRY
 (LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 668553

EDUCATION:

HIGH SCHOOL

COLLEGE 2YRS AEE

ELECTRONIC INSTRUMENTATION
 DE VRY TECH. & CONTROL (DELTA COLLEGE)

INTRODUCTION TO DATA PROCESSING

SOLID STATE SEMINAR (G.E.C.)

VARIOUS SEMINARS IN JOB MANAGE-
 MENT.

WORK HISTORY:

1937-1941

GARBER BUICK Co INSPECT AND ADJUST NEW
 CARS.

1941-1945

WAR.

1945-1950

STEVENS ELECTRIC (FAMILY) RESIDENTIAL, COMMERCIAL,
 AND INDUSTRIAL WIRING.

1950-1976

CONSUMERS POWER CO. STARTED IN DISTRIBUTION
 ENGINEERING DEPT. DRAWING JOBS AND
 ALL TYPES OF MAP WORK. RECORDS, DESIGN
 JOB AND PREPARE WORK ORDERS.
 SUPERVISE DEPT. ACTIVITY. RESPONSIBLE
 FOR DEPARTMENT PROCEDURES AND
 GENERAL ACTIVITY. SUCH AS - MAPS
 AND RECORDS, JOB DESIGN AND APPLICATION
 OF STANDARDS, TRAINING EMPLOYEES
 AND SCHEDULING ACTIVITIES. ON CALL
 DUTIES CONNECTED WITH LINE DEPART-
 MENT EMERGENCY.

1976-1979

WICKES ENGINEERED MATERIALS (U.S. GRAPHITE)
 RESPONSIBLE FOR ALL PLANT ELECTRIC
 ACTIVITY. GROUNDS AND YARD SUPERVISION
 SUPERVISE ELECTRICIANS, TRAIN ELECTRICIANS
 LAYOUT AND DESIGN ELECTRICAL AUTOMATION
 OF MACHINES, MAINTAIN AND STUDY
 AND UPGRADE DISTRIBUTION SYSTEMS.
 SUPERVISE MAINTENANCE OF ELECTRICAL
 EQUIPMENT. ORDER ELECTRICAL EQUIP-
 MENT.

POOR ORIGINAL

(OVER)

90003060

LEADERSHIP,

WON THE SCIENCE AWARD IN HIGH SCHOOL.

4-H ELECTRICAL LEADER FOR YEARS.

PAST MEMBER OF THE BRIDGEPORT TOWNSHIP BOARD.

PAST MEMBER OF THE BRIDGEPORT PLANNING COMM.

MEMBER AND PAST CHAIRMAN OF THE SAGINAW
COUNTY METRO PLANNING COMM.

MEMBER OF FOUR CONSERVATION CLUBS.

PRESIDENT OF THE BRIDGEPORT GUN CLUB.

MEMBER OF SOCIETY OF PLANNING OFFICIALS.

LIFE MEMBER N.R.A.

LICENSED MASTER ELECTRICIAN

STATE LICENSED ELECTRICAL CONTRACTOR.

OWN AND OPERATE MANY METAL AND WOOD
TOOLS.

POOR ORIGINAL

90003061

DATE: _____

NAME: Tuttle Harley L.
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 668675

EDUCATION:

6 years Grade School - W.K. Kellogg School
6 years High School - Albion High - Graduated 1956
4 years Electrical App. School IBEW Local 445
6 years Electrical Journeyman State of Mich. License
6 years Electrical Master Electrician State License
03021 a Contractor State License # 02062

WORK HISTORY:

Started Electrical App. School & Job Training
In 1956 - Working For Different Electrical Contr.,
Installing All New Electrical Parts, For Industrial,
Commercial & Residential Construction.
1960 - 6 years working For Different Electrical
Contractors out of Local # 665 IBEW Including
Industrial, Commercial & Residential, & Maintenance,
Including 2 years New Construction For a
Power Plant & Insulating. Installing & Wiring all
Different Types of Electrical Parts, Including wire,
Hookup, Cables Tray, Cond. Switch gear, Etc.
1966 - Working For Different Electrical Contractors
out of Local # 692 IBEW - Installing All Types of
Electrical Equipment - Cables wire - Etc. Including working
For Detroit Power plant & Midland Power & Power company.
1973 - Electrical Contractor. Installing All Types
of Electrical Wiring & Installing Computer Instrumentation
Instrumentation For Davis Electric at Midland Power For
one winter. Now working G.C. For Bechtel.

POOR ORIGINAL

90003062

DATE: DEC 14 1979

NAME: MICHEL LAWRENCE F.
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 668764

EDUCATION:

GRADES 1-9 IN LITTLETON COLORADO SCHOOL
SYSTEMS RECEIVED GED DIPLOMA IN 1959
ATTENDED APPRENTICESHIP PROGRAM AT L.A. TRADE
TECH LOS ANGELES CALIFORNIA 1960-1962

WORK HISTORY:

1956 JOINED US NAVY WORKED AS A SHIP BOARD ELECTRICIAN
WAS DISCHARGED IN 1959 JOINED THE ELECTRICAL UNION
ATTENDED APPRENTICESHIP & WORKED AS A SIGN ELECTRICIAN
FOR 3 YEARS CONSTRUCTED TOWER SIGNS, WIRED AND
MAINTAINED SIGNS WORKED AS A MAINTENANCE
ELECTRICIAN FOR SAMSUNITE INC. FOR 5 YEARS
FROM 1966-71 RETURNED TO CONSTRUCTION IN 1971
WORKED AS A JOURNEYMAN WIREMAN SINCE

90003063

POOR ORIGINAL

DATE: 10/9/79NAME: NARCAVAGE RONALD V
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 668253

EDUCATION:

GRADUATED HIGH SCHOOL 1971MATER CHRISTI D.H.S., ASTORIA, N.Y. N.Y.COLLEGE → 16 RESIDENT SEMESTER HOURS (UNIV OF MARYLAND,
UNIV OF VA., HARBOR COUNTY C.C.) ALSO TOOK COLLEGE LEVEL
ENTRANCE PROGRAM (CLEP) TESTS AND VARIOUS ENGINEERING
SUBJECT EXAMS (DANTES).MILITARY
COURSES
WORK HISTORYCALIBRATION TECHNICIAN & SPECIALIST COURSE (MOS-35H30)GRAD. SEPT 1975 ABERDEEN PROVING GROUNDS, Md.NUCLEAR POWER PLANT OPERATOR/INSTRUMENT COURSE (MOS 52E2054)GRAD. DEC 1977 FORT BELVOIR, VA.TECHNICAL
COURSESBAILEY METER CO. INSTRUMENT COURSE MARCH 1978NAT'L RADIO INSTITUTE AUDIO/TV SERVICING CORRESPONDANCE

WORK HISTORY

SEP 1975 → SEP 1976 CALIBRATION SUPERVISOR
IN MILITARY UNIT OVERSEAS.JAN 1978 → OCT 1979 SENIOR INSTRUMENT TECH
AT WEST POINT, NY. RESPONSIBILITIES INCLUDED MAINTAINING
UNIT EQUIPMENT, RECORDS AND TRAIN OTHERS. ALSO
OPERATED GAS TURBINES FOR EMERGENCY POWER.APRIL 1979 → MAY 1979 NUCLEAR SUPPORT SERVICESWORKED AS AN INSTRUMENT TECH AT MILLSTONE
NUCLEAR POWER PLANT.

90003064

POOR ORIGINAL

DATE: Dec 17, 1979

NAME: Wellington Robert F.
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 668845

EDUCATION: High School - Saratoga Springs, New York - 1952
Maine Maritime Academy - 1964
B.S. Marine Engineering
U.S. Coast Guard License - Third Assistant
Engineer - Steam and Motor Vessels, Any horsepower.

POOR ORIGINAL

WORK HISTORY: E.T. Laurens Co. Ballston Spa, N.Y. Installation, troubleshooting,
service and preventative maintenance of HVAC equipment - both commercial
and residential units. Maintained follow-up and customer service
on new installations while under warranty contract. (1 year)
General Electric Co. Schenectady, New York Process Control Engineer,
Gas Turbine Dept. Full responsibilities for ALL quality related in-
process activities; follow-up to prevent recurrence of repetitive
defects and necessary corrective action to prevent same in the
Main Assembly and testing Areas. (5 years)
Self-employed Ballston Spa, N.Y. Scotch Pine Inn, Ballston Spa, N.Y.
Owner, operator, manager with complete overall responsibilities
for operation of entire business. (5 years)
Grace Lines Inc. and Waterman S.S. Corp. New York, N.Y.
Second & Third Assistant Engineer (Merchant Seaman) Full responsibilities
for complete operation of engine room while on watch. Off
watch and day working responsibilities included: preventative
maintenance and repair of all engine room equipment including
boilers, evaporators, pumps, winches, generators and all
supporting equipment. (4 years)

90003065

DATE:

10-1-79

NAME:

TROYENCHER TERRANCE J.
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 668901

EDUCATION:

High School Graduate - Toledo High School - Toledo, O.
Major Industrial Arts.Davis Sr. College - Completed 1 Semester in
General Business.Owens Technical College - Toledo, O. Completed
5 Crs. in General Education

WORK HISTORY:

Kaiser-Steel Corp. 1963-69 Q.C. Inspector, NDE
Work - Mag. Particle Testing & Mechanical InspectionGoodyear Rubber Co. 1969-70 Q.C. Inspector
Mechanical Inspection & Lab Testing.General Motors Corp. 1970-78 Special Purpose
Machine Op. - & Jobsetter & in Process
Inspection Work.Westinghouse Electric Corp. 1978-79 - Sr. Q.C.
Tech. Qualified Level II P.T. M.T. & Now
NDE Functions, in accordance with ASME
III of Code.

90003066

POOR ORIGINAL

WORK HISTORY SUMMARY
(A-LAB RESUME)

DATE: 9/26/79

NAME: FULMER GARY L
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 558797

EDUCATION:

GENERAL ED. AT FERRIS STATE COLLEGE
BIG RAPIDS MI. ONE YEAR
GENERAL ED AND BLUE PRINT READING WITH
C.S. MOTT JR. COLLEGE FLINT MI. ONE YEAR
ONE YEAR AT C.S. MOTT COLLEGE FOR
WELDING AND MECHANICAL DRAFTING

WORK HISTORY:

- Advanced Technologies Inc. as Manager of Personnel Dept. Bay City MI.
- Whittier Inc. as Gen. Manager of all Employees and stock records. Midland MI.
- Servicemaster Inc. work in Hospital as a Manager for maintenance and maintained all logs for all equipment.
- Genesee County Maintenance Dept. work on Supt. Building for repairs and installation of mechanical equipment. A.C. Units, Heating Units etc. Flint MI.
- GMV Manufacturing General Motors Company worked 4 1/2 years as an inspector for final assembly of motors again in Plant #4 Flint MI.

90003067

POOR ORIGINAL

DATE: _____

NAME: Branctigan Frank E
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 669014

EDUCATION:

- 1) B.S. in Mechanical Engineering - Ryerson Institute of Technology, Toronto, Ontario 1960
- 2) Graduate Third Engineer - DeRuyter Maritime Academy Amsterdam, Holland 1956
- 3) Graduate - St. Leonards College, Amsterdam, Holland 1949

WORK HISTORY:

B.E.I. Services Inc. 1/72 - 10/79
National Board Boiler & Pressure Vessel Inspector, plus
Authorized Nuclear Inspector

Mechanical Inspection Bureau, State of New Jersey 1969-71
National Board Boiler & Pressure Vessel Inspector

Hartford Steam Boiler Inspection & Ins. Co. 1965-69
National Board Boiler & Pressure Vessel Inspector

J.F.K. Hospital 1967-69
Third Class Stationary Engineer - Operating a 2500
H.P. power plant

Canada Packers Ltd 1964-65
Second Class Stationary Engineer - operating and maintaining
a 3000 ton Ammonia & Freon Refrigeration System

William Nelson Ltd. 1961-64

Third Class Stationary Engineer - operation & maintenance of a 50,000 pph Steam Generating plant and 2200 ton ammonia refrigeration system.

Pressure Pipe Co. Ltd. 1959-61

Fourth Class Stationary Engineer - operating and maintaining a 900 H.P. power plant

Canadian Tool and Instrument Mfg. 1952-59
Machinist and Millwright

POOR ORIGINAL

90003069

NAME: GADANI DILIPKUMAR CHHAGANLAL
(LAST) (FIRST) (INITIAL)

DATE: 9-11-79
EMPLOYEE NO. 668423

EDUCATION:

B.S. Mechanical Engineering.
(First-Class Distinction) Passed in 1973
Gujarat University, India.
Certificate Course in Technical Teaching, 1974
Gujarat State Technical Exam Board, India.
Certificate Course in Computer Programming, 1975
Gujarat University, India

WORK HISTORY:

L.D. Engineering College, India.
Mechanical Engineering Department
Position held - Assistant Lecturer
Period:- 4/3/74 to 3/22/79.

POOR ORIGINAL

90003070

DATE: 11-12-79

NAME: HUSAIN SHEKHAR
(LAST) (FIRST) (INITIAL)

EMPLOYEE NO. 669096

EDUCATION: GRAD HIGH SCHOOL 1969
GRAD BHOPAL UNIVERSITY 1975 BSME
COMPUTER PROGRAMMING & NUMERICAL ANALYSIS BRL HYD INDIA 1977

WORK HISTORY:
HAJI BADRUDDIN DESIGN ENGINEER 1 1/2 YRS
HIRAM ELECTRIC DRAFTSMAN 2 MONTHS
MCC POWERS ENGINEER 1 YR 7 MONTHS
BECHTEL POWER CORP Q.C. ENGINEER

POOR ORIGINAL

90003071

DATE: 10-29-79

NAME: Runyon Rex J
(LAST) (FIRST) (MIDDLE)

EMPLOYEE NO. 207062

EDUCATION:

High school graduate (H. H. Dow, Midland)
Delta Community College (Electric Tech. Line)

WORK HISTORY:

High Performance Tech. (Q.C. Shift Supervisor)
72'-74')
Midland Hospital Center (Maintenance Dept.)-9m
Bectel Power Co. (Mat'l Storage Supervisor)-
3 yrs 2 months

90003072

DATE: OCT-24-79NAME: PRICE LOW P
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 62397D

EDUCATION:

- B.S. INDUSTRIAL EDUCATION, SOUTHERN ILLINOIS UNIVERSITY.
- INDUSTRIAL ENGINEERING, INTERNATIONAL CORRESPONDENCE SCHOOL.
- CRYOGENICS, UCLA GRADUATE WORK.
- COMPLETED A NUMBER OF COMPANY SPONSORED COURSES IN MANAGEMENT, NUCLEAR POWER PLANTS AND TECHNOLOGIES TO KEEP AHEAD OF THE LATEST STATE-OF-THE-ART.

WORK HISTORY:

- 30 YEARS OF MANAGEMENT, ADMINISTRATIVE AND TECHNOLOGICAL EXPERIENCE IN RESPONSIBLE POSITIONS INVOLVING: KTC
- NUCLEAR POWER PLANTS - 10 YEARS EXPERIENCE IN CONSTRUCTION MANAGEMENT, ~~PLANT DESIGN~~, CONSTRUCTION SERVICES, QUALITY CONTROL PROGRAMS & FIELD ENGINEERING. - 4 1/2 YRS IN PLANT DESIGN, PLANT LAYOUT, EQUIPMENT & COMPONENTS, PIPING SYSTEMS & INSTRUMENTATION FOR NUCLEAR POWER PLANT & FACILITIES.
 - CONSTRUCTION MANAGER, MANAGED THE CONSTRUCTION, INSTALLATION & SYSTEM VERIFICATION, MULTIPLE CONTRACTORS AND TEST PROGRAM OF A MULTI-MILLION DOLLAR MISSILE BASE, 2 1/2 YRS
 - TEST MANAGER (START-UP) RESPONSIBLE FOR PROGRAM COORDINATION, SYSTEM TEST PLANNING, INTEGRATED SYSTEMS TEST, TEST PLANS & TEST PROCEDURES.
 - DESIGN ENG. 10 YRS. PROJECTS RANGED FROM MACHINE TOOLS, CONVEYOR SYSTEMS, HYDRAULIC SYSTEMS, GEAR DRIVE SYSTEMS & AUTOMATED PORTS HANDLING AND PIPING SYSTEMS FOR LARGE INDUSTRIAL PLANTS, POWER PLANTS, CHEM/REFINERIES AND STEEL MILLS.

90003073

DATE: 10/12/79NAME: SHIPRECK EDWARD J
(LAST) (FIRST) (INITIAL)EMPLOYEE NO. 668594

EDUCATION:

GRADUATE OF COLUMBIA UNIVERSITY - B.S.GRADUATE OF BLACKSTONE SCHOOL OF LAW - LL.B, J.D

WORK HISTORY:

OVER TWENTY YEARS' EXPERIENCE IN ENGINEERING
& ENGINEERING MANAGEMENT; QUALITY CONTROL,
RELIABILITY, MAINTAINABILITY, I.C.D., LIAISON, VENDOR
SURVEY, TEST EQUIPMENT, TEST SPECIFICATIONS,
PUBLICATIONS, SYSTEMS, MANUFACTURING, PLANT MANAGE-
MENT, PRODUCTION CONTROL, LOGIC, COMPUTER DESIGN,
PROGRAMMING, CRYOGENICS, CONTRACT ADMINISTRATION,
ACQUISITIONS, MARKETING & SALES.

POSITIONS HELD DURING THIS PERIOD WERE:

SR. TESTER, TEST ENGR., QC ENGR., REL. ENGR.,
COMPONENT & EVALUATION ENGR., CHIEF ENGR. &
PLANT MANAGER, CHIEF INSPECTOR, SYSTEMS ENGR.,
R/M COORDINATOR, R/M & QC MANAGER, AND PRESIDENT.

90003074

DATE: Oct 22 79

EMPLOYEE NO. 668942

NAME: Allen William L
(LAST) (FIRST) (INITIAL)

EDUCATION:

26 weeks Academic Phase of Nuclear Power Course
Ft. Belvoir, VA. 16 weeks Power Generator School Ft. Belvoir
1yr Mid-Michigan Community College Welding Course.
12 yrs High School, Mt. Vernon High, Alexandria, VA.

WORK HISTORY:

1966 - 1978 WAS IN U.S. ARMY AS A GENERATOR
OPERATOR MECH. DURING THIS PERIOD WAS
RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF
DIESEL POWER GENERATORS AND EQUIPMENT
1978 TO PRESENT WAS EMPLOYED BY BILLOCKS AND
WILCOX'S AS A MILLWRIGHT. DURING THIS PERIOD
I WAS EMPLOYED TO INSTALL PRIMARY MAKE-UP
PUMPS AND ALIGNMENT OF VARIOUS OTHER
EQUIPMENT.

90003075

NAME: PARIKH RATENDRA K
(LAST) (FIRST) (INITIAL)

DATE: 12-5-79

EMPLOYEE NO. 668966

EDUCATION:

M.S IN CIVIL ENGINEERING [POLYTECHNIC INST
OF BROOKLYN N.Y.]

B.E IN CIVIL ENGINEERING [SARDAR PATEL
UNIVERSITY GURAT [INDIA]

WORK HISTORY:

- [I] APRIL 73 - JANUARY 74 WORK AS JR ENGINEER, GUJARAT STATE
PUBLIC DEPT. INDIA SUPERVISION OF ROAD & BRIDGE WORK
- [II] FEB 77 - AUG 78 WORK AS QUALITY CONTROL INSPECTOR
BRISQIN MFG CO CHICAGO ILLINOIS FIRST & FINAL
INSPECTION OF GAS, AIR & VACUUM TANKS, FLOOR
INSPECTION, SAFETY CHECK, FABRICATION & SAMPLING
OF CHECK OF DIFFERENT PARTS.
- [III] AUG 78 - OCT-79 FIELD SUPERVISOR, GLOBETROTTERS
ENGG CORP CONSULTING ENGG CHICAGO ILLINOIS
SUPERVISION OF FIELD CREWS FOR SANITY SEWER
STUDY, WORK AS DRAFTERMAN & STRU. ENGR
SUPERVISION OF WATER WORKS EXCAVATION WORK
SURVEYING OF ROADWAYS & BRIDGES
- [IV] OCT 79 - CONTI. QUALITY CONTROL ENGINEER
BECHTEL POWER CORP MIDLAND MICHIGAN
WORKING AS A QUALITY CONTROL ENGINEER
CHECKING THE FABRICATION & ERECTION OF
STRUCTURAL STEEL, FIELD & COMPOUNDING OF
& WELDING OF STRUCTURAL STEEL & METAL

90003076

DATE:

MUSSEY
(LAST)JOSEPH
(FIRST)

A

(INITIAL)

DATE: 09/24/79

EMPLOYEE NO. 668431

EDUCATION:

Red Bank Valley High School - New Bethlehem - Pa.
International Correspondence School, Scranton - Pa.
 COURSE: Construction Inspectors & Construction Engineers.
Penn. Dept. of Trans. - Seminars & Training in Bridge & Highway Construction.
Townsend & Bottom - Training Seminars

WORK HISTORY:

April 1978 to Sept 1979 - Townsend & Bottom - Fossil
Fuel Boiler Plant Contractor - Work in G. C.
Civil Dept. - Marine Const. - Grouting - Rebar - Concrete

March 1977 to April 1978 - Bruce & Miraltes - Electrical
General Contractor - Work as a Union Groundman.
Also kept Record & did Required Test on the State Hwy. J.

Aug. 1964 to Feb 1977 - Penna. Dept of Transportation
Started as Trainee - Advanced to Const. Inspector 3
I WAS TRAINED, HAVE INSPECTED, & HAVE BEEN INSPECTOR
in charge of.

- (1) Excavation. Embankment & did the Soil Test
- (2) Forming - Rebar Inspection - Concrete Placement also performed the Concrete Testing on Bridge Construction
- (3) Drainage - Erosion Control - Pipe the Structures placed & Inspected by Backfills - Perform by Test & Samples
- (4) kept Records Required by Penn DOT & B.R.R.
- (5) Roadside Devel. Planting & Seeding.

I have been Certified by Penn DOT in many
Areas of Bridge & Highway Construction
Was Inspector - in Charge of Projects for 2 1/2 years.

90003077

NAME:

KANCHWALA FAKHRUDDIN

(LAST)

(FIRST)

(MIDDLE)

EMPLOYEE NO. 668804

EDUCATION:

HIGH SCHOOL (12TH GRADE) (MAJOR - MATHEMATICS & BIOLOGY)
COLLEGE :- NIZAM COLLEGE (INDIA) BACHELOR OF COMMERCE
THREE YEAR DEGREE COURSE, (MAJOR :- ACCOUNTANCY &
ADVANCED BANKING)
UNIVERSITY :- OSMANIA UNIVERSITY (INDIA) BACHELOR OF LAW
THREE YEAR DEGREE COURSE.

WORK HISTORY:

WORKED FOR 'CARLISLE TIRE AND RUBBER COMPANY' IN
DEPARTMENT OF QUALITY ASSURANCE AS 'MATERIAL TEST OPERATOR'
FROM (MARCH 1977 TO SEPTEMBER 1979) DUTIES VARIOUS TYPES
OF RUBBER TESTING RUNNING RHEOMETERS CALIBRATION
& BASIC MAINTAINENCE, RUNNING TENSOMETER FOR TENSILE
STRENGTH TESTING, AND CHECKING DENSITIES ON DENSOMETER
CALIBRATION & MINOR MAINTAINENCE, AND WRITING WEEKLY
AND MONTHLY REPORTS FOR THE SAME.

90003078

Kramer

John

(LAST)

(FIRST)

(INITIAL)

EMPLOYER NO. 668586

EDUCATION:

Graduated St. Teresa High School, Decatur Illinois. Attended 3 years
Lincoln Land Community College, Springfield, Ill. Courses included Chemistry,
Biology, Zoology, History, English Lit., Algebra, and others.

WORK HISTORY:

4 1/2 years with Mt. Zion Hospital as a chemist for the laboratory
1 1/2 years with Illinois Bearing Co. in Springfield, Illinois. Work duties
involved shipping and receiving, purchasing, expediting, power trans-
mission design and bearing application selection. Illinois Bearing Co.
is a supplier of bearings and power transmission apparatus
for heavy industry.

90003079