

NSP

MONTICELLO NUCLEAR GENERATING PLANT

PRAIRIE ISLAND NUCLEAR GENERATING PLANT



NSP MANAGEMENT & TECHNICAL RESOURCES
JULY, 1979

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA

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NORTHERN STATES POWER COMPANY
MANAGEMENT & TECHNICAL RESOURCES
JULY, 1979

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1.0 Management Resources (offsite)

1.0-1

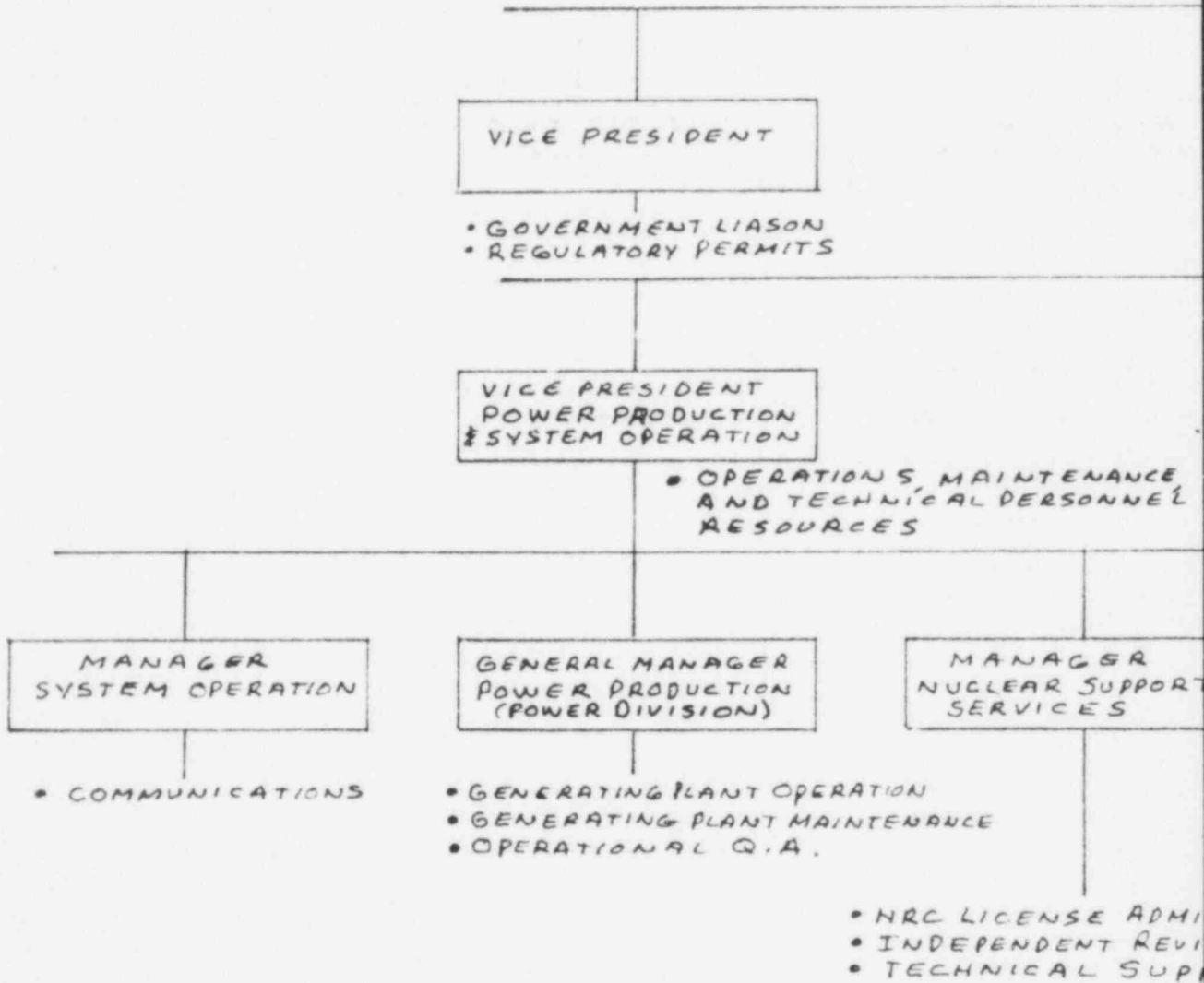
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1.0 MANAGEMENT RESOURCES (offsite)

1.1 Summary

We have prepared and attached a partial organization diagram in section 1.2 showing the management resources for emergency response. The organizational chart shows only those positions which would provide engineering management, logistic support, coordination with government agencies, communication networks and overall accident response coordination. There are a number of other functions reporting to each of the positions shown on the chart which do not directly relate to emergency response resources. We have labeled eight of the positions on the organizational chart to show areas of activities provided by the various management functions for emergency response needs. Each of the eight management positions are responsible for many other activities on a day-to-day basis, beyond those specific ones that have been labeled for the purposes of this submittal. Each of the officers shown on the organizational chart has authority to establish the necessary priorities and to allocate personnel resources from their respective areas of responsibility. In addition, cross-allocation of personnel can be accomplished through coordination by the Executive Vice-President.

In order to provide a reasonably timely response to this NRC request, it is necessary to make use of existing information which does not necessarily follow the format suggested by the NRC. The various organizational diagrams provided throughout this submittal are the latest ones that have been issued for each individual functional area. To describe the functions, responsibilities, and authority associated with each of the management resource positions, we we have utilized existing Mission Statements which are included in section 1.3. Also, a single form was utilized to collect information on the educational and experience background for all individuals covered by this submittal.



* OVERALL EMERGENCY RESPONSE COORDINATION

1.2-1

POOR ORIGINAL

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PRESIDENT

EXECUTIVE VICE PRESIDENT *

SR. VICE PRESIDENT FINANCE

VICE PRESIDENT PLANT ENGINEERING & CONSTRUCTION

VICE PRESIDENT & TREASURER

- PLANT ENGINEERING
- PLANT CONSTRUCTION
- NRC C.P. & O.L. LICENSE APPLICATION
- CONSTRUCTION Q.A.

GENERAL MANAGER ADMINISTRATIVE SERVICES

- PURCHASING
- SECURITY
- TRAFFIC

ADMINISTRATION (OPERATING)
NEW & RUDIT
PORT

NORTHERN STATES POWER COMPANY
PARTIAL ORGANIZATION DIAGRAM
MANAGEMENT RESOURCES
FOR EMERGENCY RESPONSE

JOB DESCRIPTION

EXECUTIVE VICE-PRESIDENT

This job is responsible for assuring that adequate and reliable bulk supplies of electricity and gas are supplied to division load centers and wholesale customers.

The job includes over-all direction of the following:

Planning, design, construction, operation and maintenance of bulk electricity and gas facilities.

Negotiation and administration of contracts for electric plant fuel, gas for resale, wholesale power and Bureau of Reclamation wheeling.

Power pooling and interconnection arrangements.

Securing and maintaining NRC permits.

NSP's technical research activities.

NSP's MAPP activities.

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MISSION STATEMENT

VICE PRESIDENT - PLANT ENGINEERING AND CONSTRUCTION

The mission of this Vice President is the direction of four departments concerned with the engineering, design, construction, and placing into service of electric and gas production, storage, and transmission plant facilities, primarily generating plants, transmission lines, and substations, in a manner which meet corporate-wide requirements of schedule, budget, and quality.

The Vice President - Plant Engineering and Construction reports to the Executive Vice President for facility projects and activities of NSP (Minnesota) and to the President of NSP (Wisconsin) for projects and facilities of that subsidiary.

The Vice President carries out his mission through the General Manager, Plant Engineering and Construction; the General Manager, Substation Engineering and Construction; the General Manager, Transmission; and the Manager, Quality Assurance.

The mission also includes responsibility for direction of nuclear plant licensing activities with the Nuclear Regulatory Commission (NRC) from the construction permit application stage through the granting of the operating license, and for providing technological support to other departments responsible for regulatory activities related to plant facilities.

Arthur V Dienhart

February 1978

JUNE 1, 1975

NSP PLANT ENGINEERING AND CONSTRUCTION DEPARTMENT

STATEMENT OF MISSION

FOR NEW ELECTRIC-GENERATING PLANTS AND FOR MAJOR MODIFICATIONS TO EXISTING ELECTRIC-GENERATING PLANTS, THE DEPARTMENT WILL FURNISH ANY OR ALL OF THE FOLLOWING SERVICES:

- 1) CONCEPTUAL DESIGNS AND PRELIMINARY COST ESTIMATES
- 2) DETAILED DESIGNS AND WORKING DRAWINGS FOR PLANT STRUCTURES AND SYSTEMS
- 3) SPECIFICATIONS FOR MATERIALS AND EQUIPMENT
- 4) REVIEW AND APPROVAL OF VENDOR DRAWINGS AND EXPEDITING OF VENDOR PERFORMANCE
- 5) FULL-SCALE CONSTRUCTION MANAGEMENT, INCLUDING DETAILED COST ESTIMATING, SCHEDULING, AND COST CONTROL FOR PLANT CONSTRUCTION PROJECTS
- 6) QUALITY ASSURANCE FOR DESIGN, PROCUREMENT, AND CONSTRUCTION ACTIVITIES
- 7) DEVELOPMENT AND IMPLEMENTATION OF PRE-OPERATIONAL TESTING AND START-UP PROCEDURES
- 8) PLANT ENGINEERING TECHNOLOGICAL SUPPORT FOR FEDERAL, STATE, REGIONAL, AND LOCAL LICENSING ACTIVITIES RELATED TO GENERATING PLANTS
- 9) MANAGEMENT OF ALL NUCLEAR PLANT FACILITY LICENSING ACTIVITIES WITH THE NUCLEAR REGULATORY COMMISSION FROM THE CONSTRUCTION-PERMIT APPLICATION STAGE THROUGH THE GRANTING OF THE OPERATING LICENSE

A V Dienhart/hz

Vice President
Northern States Power Company

MISSION STATEMENT

Direct and coordinate all governmental activities for Northern States Power Company on the local, state and federal levels (with the exception of rates and the Nuclear Regulatory Commission (NRC) licensing of nuclear power plants). This is accomplished through the functions of four separate departments:

- I Environmental & Regulatory Activities Department
- II Metro Government Affairs Department
- III Public Affairs Department
- IV Legislative Affairs Department

A brief description of these four departments is listed below.

I Environmental & Regulatory Activities Department

- A. Responsible for environmental assessments and securing all permits, licenses and approvals from state and federal agencies (except NRC), construction and operation of facilities.
 - 1. Provide technical services for environmental reports and permits, and develop testimony for various hearings.
 - 2. Conduct monitoring and ecological studies associated with the state and federal permit requirements.
- B. Act as liaison with state and federal regulatory agencies; administer permits for major facilities; provide timely reporting; coordinate regulatory compliance and rule-making hearings.
- C. Management of special projects, environmental legislation and liaison with local governments regarding project approvals with various commissions regarding company activities.

II Metro Government Affairs Department

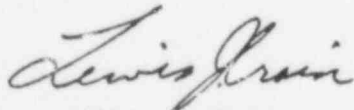
- A. Provide close coordination and surveillance of all governmental activities in the seven-county metropolitan area, including Minneapolis and St Paul governments, county governments and metro regional agencies.
- B. Direct the activities of the Property Tax Department which includes close liaison with the State Commissioners of Revenue in the four-state area.

III Public Affairs Department

Direct public information and communications concerning company policies and positions to state legislators, members of Congress, employees and other public officials.

IV Legislative Affairs Department

Direct the legislative efforts of the company in all areas of operation at the state and federal levels. This includes monitoring all of the legislation affecting the company and the industry, and determining the course of action to take. The staff of this department works closely with outside consultants and industry associations.



LEWIS J. CRAIN
Vice President
July 13, 1979

Mission Statement
Power Production and System Operation

The mission of the departments of Power Production and System Operation is to provide an economical and reliable supply of electricity and gas to the Divisions for distribution to the customers utilizing all available sources within governmental and contractual constraints. This mission is carried out by the following departments:

The Power Production Department operates and maintains all the electric generating plants and gas peak shaving plants in a manner to assure safe, reliable, and economic plant performance.

The Nuclear Support Services Department provides technical and administrative support for the Power Production Department and the nuclear generating plants to assure safe and reliable operation in accordance with government licensing requirements.

The Fuel Supply Department purchases and delivers suitable fuels for the generating plants and liquid propane to the gas peak shaving plants in the most economical manner and in quantities which will assure that the plants are not restricted in their operation.

The System Operation Department economically schedules generation, purchase, and sale of power and energy from and to other utilities and delivers energy to the Divisions at load centers at minimum cost consistent with secure operation of the electric supply system. This involves monitoring of transmission circuit loads and supervising the switching on circuits of 69 kv and higher voltages including the switches on the high voltage side of transformers supplying the distribution substations. Its Gas Supply Department directs the operation of the gas transmission system, plans for and schedules the supply of natural gas and peak shaving gas to most securely and economically supply gas to the Divisions.

The Maintenance and Testing Department determines proper settings for, inspects, tests, and maintains the protective relays and performs field inspections, tests, and maintains high voltage power and control equipment. It also operates Shops and a Testing Laboratory to provide services to other departments of the Company.

L. J. Wachter
2/28/79

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NORTHERN STATES POWER COMPANY
POWER DIVISION MISSION STATEMENT

Date: February 15, 1979

Revision: 2

The mission of Power Division is to operate the production facilities of the Company (Minnesota) in a safe, efficient and economical manner within the constraints imposed by governmental regulations.

In addition, we recognize a responsibility to other departments within the Company to provide information and assistance where the data, expertise, and resources of Power Division are necessary to enable them to perform their functions.

INTERPRETATION OF
POWER DIVISION MISSION STATEMENT

In accomplishing our mission the following major areas must be addressed:

1. "To operate the production facilities of the Company (Minnesota) in a safe, efficient and economical manner" implies that we must optimize and effectively apply our resources of fuel, capital, material, manpower, technical and managerial talent in order to enable the Company to fulfill its stated mission. It encompasses all the various functions which support operations such as maintenance, engineering, administrative, etc. Not only current operation must be addressed but also the planning and preparation necessary to assure operationally sound designs and to organize and staff future units with qualified personnel.
2. "Within the constraints imposed by governmental regulations" requires effective equipment, proper operation, understanding and cooperation by all employees of the Power Division to meet requirements relating to safety, the environment, costs, and other areas which are subject to regulation.
3. The commitment to assist and cooperate with other Company departments is in recognition that it is possible to fulfill the overall corporate mission only if all the various departments within the Company successfully perform their individual missions.

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MISSION STATEMENT
NUCLEAR SUPPORT SERVICES DEPARTMENT

3/31/78

The mission of the Nuclear Support Services Department is to provide a staff support function consisting of (1) liaison with the NRC and administration of NRC licenses for operating nuclear plants; (2) performance of independent review and audit functions for operating nuclear plants as required by NRC regulations and licenses and to verify compliance with NRC operating license requirements (3) provision of technical support for the Power Production Department, operating nuclear plants and the Fuel Procurement Department, within financial and manpower allocations; and (4) receipt, review and dissemination of updated and proposed regulations related to nuclear activities.

A MISSION STATEMENT
FOR
SYSTEM OPERATION DEPARTMENT

On a continuous basis (24 hour) within regulatory and contractual constraints, the System Operation Department directs the operation of NSP's transmission systems and scheduled operation of NSP's generating units and purchases of energy to most securely and economically supply electric energy to NSP substations and to achieve maximum profits thru sale of power and energy to other utilities from uncommitted reserve generating capability.

The Gas Supply Department of System Operation directs the operation of NSP's gas transmission system, plans for and schedules the supply of natural gas and peaking gas to most securely and economically supply gas to the operating divisions.

In support of the above mission and as services provided to other departments, System Operation provides appropriate operations communications, data retrieval and control systems and coordinates activities associated with the transmission systems and with other utilities.

Because of the Departments' control and delivery of the basic corporate products, the Departments' have the responsibility to supply statistics to other departments and corporate management relative to demand and energy, purchases and sales transactions and pricing of such transactions.

K. K. Dols
10-18-78

KKD:pw

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MISSION STATEMENT

ADMINISTRATIVE SERVICES DEPARTMENT

In addition to the Managerial duties associated with the

- Corporate Records Services Department
- Property and Land Management Department
- Purchasing Department (includes Traffic section)
- Security Department
- Stores and Materials Utilization Department

The General Manager of Administrative Services:

- Develops, reviews, and updates the programs, policies and procedures associated with the Administrative Services Department and seeks executive approval or reviews for programs applied uniformly within NSP.
- Reviews the services within NSP for uniformity and cost effectiveness and provides only those services that must be uniformly handled within NSP or those services that can be provided more effectively or at less cost by a centralized organization than by the line management organizations.
- Defines interfaces between Administrative Services and other NSP Departments, documents the responsibilities at the interface and negotiates changes to these responsibilities.
- Monitors new techniques/developments, codes, standards, and other regulatory information for application to Administrative Services responsibilities.

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1. NSP Department or Plant Directors, Officers & Staff

2. Name Dennis W Angland

3. Title Executive Vice President

4. Education

a. Degrees B.S.
M.S.

Major Electrical Engineering
Electrical Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
See attached work experience record.

b. Other

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1.4-1

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DENNIS W. ANGLAND - Employed 6-18-51

6-18-51	Engineer, Junior	Generation (System Oper. Sect.)
3-30-52	Assistant Planning Engineer	Engineering
5-16-54	Assistant System Planning Engineer	
1- 7-59	System Planning Engineer	
6- 1-61	General Superintendent of System Planning	System Planning
6- 1-62	Manager of Planning	.
6- 1-68	Vice President - Operation	Directors, Officers & Staffs
6- 1-70	Group Vice President - Divisional Management	
6- 1-74	Executive Vice President	

1. NSP Department or Plant Plant Engineering and Construction

2. Name Arthur V Dienhart, P.E.

3. Title Vice President

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

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SEE ATTACHED SHEETS

7-11-79

February 1, 1978

PROFESSIONAL AND EDUCATIONAL QUALIFICATIONS

ARTHUR V DIENHART

NORTHERN STATES POWER COMPANY

I am a resident of Minneapolis, Minnesota, and am Vice President of Northern States Power Company, with headquarters in Minneapolis.

I graduated from the University of Minnesota in 1942 with the degree of Bachelor of Civil Engineering with High Distinction. I undertook post-graduate studies in civil engineering at Carnegie Institute of Technology in Pittsburgh. I am a Registered Professional Engineer, licensed to practice in the states of Minnesota, Wisconsin, and North Dakota.

I am a Fellow of the American Society of Civil Engineers and a member of the National Society of Professional Engineers, the American Nuclear Society, and the American Concrete Institute. I have authored several papers and articles which have been published in the technical press.

The first four years of my professional experience following receipt of my engineering degree comprised industrial plant construction and maintenance responsibilities for Dravo Corporation of Pittsburgh, Pennsylvania, and supervision of overseas base construction as an officer in the Civil Engineer Corps of the United States Navy.

In 1946, I joined Northern States Power Company as Field Engineer, and subsequently held positions as Assistant Construction Superintendent, Hydraulic Engineer, Civil Engineer, Manager of Engineering, Assistant Vice President, and my present position as Vice President. In these assignments, I have had responsibility for selection and development of sites for nuclear, coal-burning, and hydro-electric power plants, for the design and construction of these facilities and of office and service buildings, water control and waterfront facilities, and structures for the transformation and transmission of electrical energy.

In my present position as Vice President, I have overall management responsibility for the design and construction of the major physical plant facilities of the Company, i.e., generating plants, substations, and transmission lines. I have responsibility for licensing activities for nuclear power plants from the time of application for the construction permit from the Nuclear Regulatory Commission through the receipt of the operating license from the Commission.

TYRONE ENERGY PARK

TECHNICAL QUALIFICATIONS OF PERSONNEL

Position: Vice President - Tyrone Energy Park Project, and
Vice President - Plant Engineering and Construction

Name: Arthur V Dienhart, P.E.

Birth Date: July 23, 1920

Business Address: Northern States Power Company
100 North Barstow Street, Eau Claire, Wisconsin 54701, and
414 Nicollet Mall, Minneapolis, Minnesota 55401

Prior Employers: 1942-45 Dravo Corporation, Pittsburgh, Pennsylvania 15225
Engineering responsibilities for plant expansion
of shipyard.

1945-46 Civil Engineer Corps, United States Navy.
Commissioned officer engaged in overseas base
construction.

Present Employer: 1946-present Northern States Power Company - Engineering
and management responsibilities for licensing,
design, construction, and start-up of physical
plant facilities.

1946-48 Field Engineer, Construction Department, Mpls and
Sioux Falls

1948-51 Assistant Construction Superintendent, Construction
Dept, Mpls

1951-56 Hydraulic Engineer, Engineering Dept, Mpls

1956-65 Civil Engineer, Engineering Dept, Mpls

1965-69 Manager of Engineering, General Office, Mpls

1969-70 Assistant Vice President - Engineering, General
Office, Mpls

1970-74 Vice President - Engineering, General Office, Mpls

1974-present Vice President - Plant Engineering and
Construction, General Office, Mpls

1978-present Vice President - Tyrone Energy Park Project,
Eau Claire

Experience Related Specifically to Nuclear Reactors:

- 1957-73 Pathfinder Atomic Power Plant, Sioux Falls, South Dakota. Civil engineering responsibilities for site investigation; management of pre-operational environmental monitoring; surveillance of foundation design and construction; civil engineering responsibility for interface with technical staffs of State of South Dakota and Atomic Energy Commission during design and construction phase; overall engineering management for decommissioning phase.
- 1965-present Monticello Nuclear Generating Plant, Monticello, Minnesota. Overall management responsibilities for site investigations; management of pre-operational environmental monitoring; management review of general criteria developed by turnkey plant vendor; management review of balance-of-plant criteria and designs; management of licensing efforts with Minnesota state agencies and with Federal agencies, especially Atomic Energy Commission, during design and construction phase; corporate management responsibility for licensing, design, construction, and quality assurance for major plant modifications made subsequent to completion of original construction in 1970.
- 1965-present Prairie Island Nuclear Generating Plant Units 1 and 2, Red Wing, Minnesota. Engineering management responsibilities for site investigation, pre-operational environmental monitoring, review of design and procurement work by consulting architect/engineer, licensing activities with Minnesota state agencies and Federal agencies, especially Atomic Energy Commission. Beginning in 1970, also responsible for construction management, start-up of new facilities, and quality assurance related to design and construction. Subsequent to the completion of original plant construction (Unit 1 in 1973, Unit 2 in 1974), responsible for licensing, design, construction, start-up, and quality assurance for major modifications.
- 1970-present Tyrone Energy Park Unit No. 1, Durand, Wisconsin. Engineering, construction management, and quality assurance responsibilities for site investigations, pre-operational environmental monitoring, development of standardized plant design and procurement as NSP management representative in Standardized Nuclear Unit Power Plant System (SNUPPS), licensing activities with Nuclear Regulatory Commission, technical support for licensing activities with Wisconsin state agencies, pre-construction planning and preparations for start of construction when required state permits are received.

1. NSP Department or Plant Directors, Officers and Staffs
2. Name Lewis J Crain
3. Title Vice President
4. Education
 - a. Degrees BS Major Elec'l Engineering

 - b. Other Nuclear Education
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR _____ PWR _____
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
See attached.
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

LEWIS J CRAIN

Positions held at Northern States Power Company:

Mar 1949 - Jul 1949	Groundman	Sioux Falls Division
Jul 1949 - May 1950	Engineering Dept	Sioux Falls Division
May 1950 - Jan 1955	Sales Engineer	Sioux Falls Division
Jan 1955 - Aug 1956	Sales Engineer	Mankato Division
Aug 1956 - Jun 1960	Sales Manager	Southwestern Division (Montevideo)
Jun 1960 - Jul 1964	Sales Manager	Faribault Division
Jul 1964 - Jun 1967	Division Manager	Grand Forks Division
Jun 1967 - Aug 1973	Division Manager	Northwest Division (St Cloud)
Aug 1973 - Jan 1975	Vice President & Regional Manager	General Office (St Paul)
Jan 1975 - present	Vice President	General Office (Minneapolis)

8/2/79

1.4-8

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1. NSP Department or Plant Power Production & System Operation
2. Name Leo J Wachter
3. Title Vice President-Power Production & System Operation
4. Education
 - a. Degrees B.Sc. Major Electrical Engineering

 - b. Other Nuclear Education
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR _____ PWR _____
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
See attached work experience record.
 - b. Other
7. NRC operator licenses held None
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1.4-9

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LEO J WACHTER

Sep 1948 - Nov 1961	Engineering and Supervisory positions in Power Production
Dec 1961 - May 1962	General Superintendent-Power Production
Jun 1962 - May 1970	Manager of Electrical Operations
Jun 1970 - Present	Vice President-Power Production & System Operation

*These overall responsibilities included senior level decision making for nuclear, as well as fossil, plant matters.

1. NSP Department or Plant Power Production Department

2. Name Dennis E. Gilberts

3. Title Gen Mgr Power Prod

4. Education

a. Degrees BSME

Major Mechanical Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

3 years in coal burning power plant engineering staff.
20 years in General Office Power Production technical supervisor and management.

b. Other

POOR
ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1.4-11

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Dennis E. Gilberts (cont'd.)

1954 - 1955: Black Dog Coal Fired Generating Plant
Engineer on plant technical staff.

1955 - 1955: Grand Forks Coal Fired Generating Plant
1958 - 1959: Result Engineer.

1955 - 1957: US Army

1959 - 1972: Power Production Department General Office Supervising
Engineer providing technical supervision of operations
of various power plants.

1972 - 1973: General Superintendent Fossil Plant Operations

1973 to present: General Manager Power Production
(The Monticello BWR and Prairie Island PWR plants are
included in this overall responsibility.)

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1. NSP Department or Plant NUCLEAR SUPPORT SERVICES

2. Name L. O. MAYER

3. Title MANAGER OF NUCLEAR SUPPORT SERVICES

4. Education

a. Degrees B.M.E.

Major HEATING & VENTILATING
Minor POWER

b. Other Nuclear Education

OAK RIDGE SCHOOL OF REACTOR TECHNOLOGY
(ONE YEAR CURRICULUM)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

N.A.

b. Utility nuclear experience BWR X PWR X

14 YEARS - MANAGEMENT - NUCLEAR PLANT ORGANIZATIONAL & TRAINING PLANNING-OVERALL SUPERVISION OF NUCLEAR PLANT OPERATION.

8 YEARS - MANAGEMENT OF INDEPENDENT REVIEW &

c. A/E, vendor or other nuclear experience AUDIT FUNCTION, NRC LICENSE ADMINISTRATION, & TECHNICAL SUPPORT FOR NUCLEAR PLANTS

N.A.

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

10 YEARS FOSSIL PLANT OPERATING/ENGINEERING EXPERIENCE

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

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1. NSP Department or Plant System Operation

2. Name Kenneth K Dols

3. Title Manager, System Operation

4. Education

a. Degrees BEE

Major Power
Communications

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Relaying, Control & Communications
Supervision of Operating Communications
(Sealed wire, Radio & microwave)

b. Other

30 yrs

763

232

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

TITLE: Manager - System Operation Department
NAME: Kenneth K. Dols
BIRTH DATE, AGE:
BUSINESS ADDRESS: 414 Nicollet Mall, Minneapolis, MN. 55401
ALL PRIOR EMPLOYERS:

All prior experience (in terms of function and duration) with the design, construction or operation of nuclear reactors.

Mr. Dols is Manager - System Operation Department. After graduation from the University of Minnesota, he began his career with NSP in 1948. He has been involved with relaying, control, communications, operations and directed the operation of the System Control Center and was appointed Manager in 1976.

System Operation Department is responsible for the operation of NSP's transmission system and for scheduling the operation of NSP's generating units and purchases of energy to most securely and economically supply energy to NSP's substations.

The System Operation Department also secures the operating communications (radio and leased circuits) for all production plants.

POOR
ORIGINAL

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1.4-15

1. NSP Department or Plant ADMINISTRATIVE SERVICES

2. Name Kenneth E. Gelle

3. Title General Manager - Administrative Services

4. Education

a. Degrees Bachelor - Major _____
Mechanical Engineering _____
_____ _____

b. Other Nuclear Education

Nuclear Fuel Management (post graduate)
Nuclear Reactor Design (post graduate)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X

Monticello-Project Engineer 1967-1970

Prairie Island-Construction Superintendent and Start Up
Superintendent 1970-1973

Tyrone Energy Park-Project Manager 1973 to 1978

Conducted Evacuation Drills for Construction Workers at

c. ~~A/E, vendor or other nuclear experience~~

Prairie Island 1973

Supervised Site Security at Prairie Island 1971-1973

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1978-79

Purchasing and Security Department responsibilities

b. Other

7. NRC operator licenses held NONE

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1-4-16

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2.0 Technical Resources (plant staff)

2.1 Summary

2.1-1

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2.0 Technical Resources (plant staff)

2.1 Summary

The plant resource personnel include all Engineers, Chemists, Scientists and other categories of Professional-Technical personnel. We have also included supervisory personnel from the Operations, Maintenance and Training sections since their level of expertise would be quite useful in an emergency at their own plant or at another plant. For similar reasons, we have included selected personnel from the Radiation & Chemical section (radiation protection and chemical analysis) and the Instrument & Control section. We believe that the titles shown on the organizational chart are reasonably descriptive of the activities performed by each section. Where the organization chart uses abbreviations for titles that cannot be easily interpreted, these titles are spelled out on the individual personnel resumes.

Although the nuclear plant electrical and mechanical maintenance crews could provide a significant number of personnel for maintenance activities in the event of an emergency, a substantial number of additional personnel are available from the fossil generating plant organizations who have previous experience working at nuclear plants during refueling outages. Information on these maintenance personnel are not included in this document.

POOR
ORIGINAL

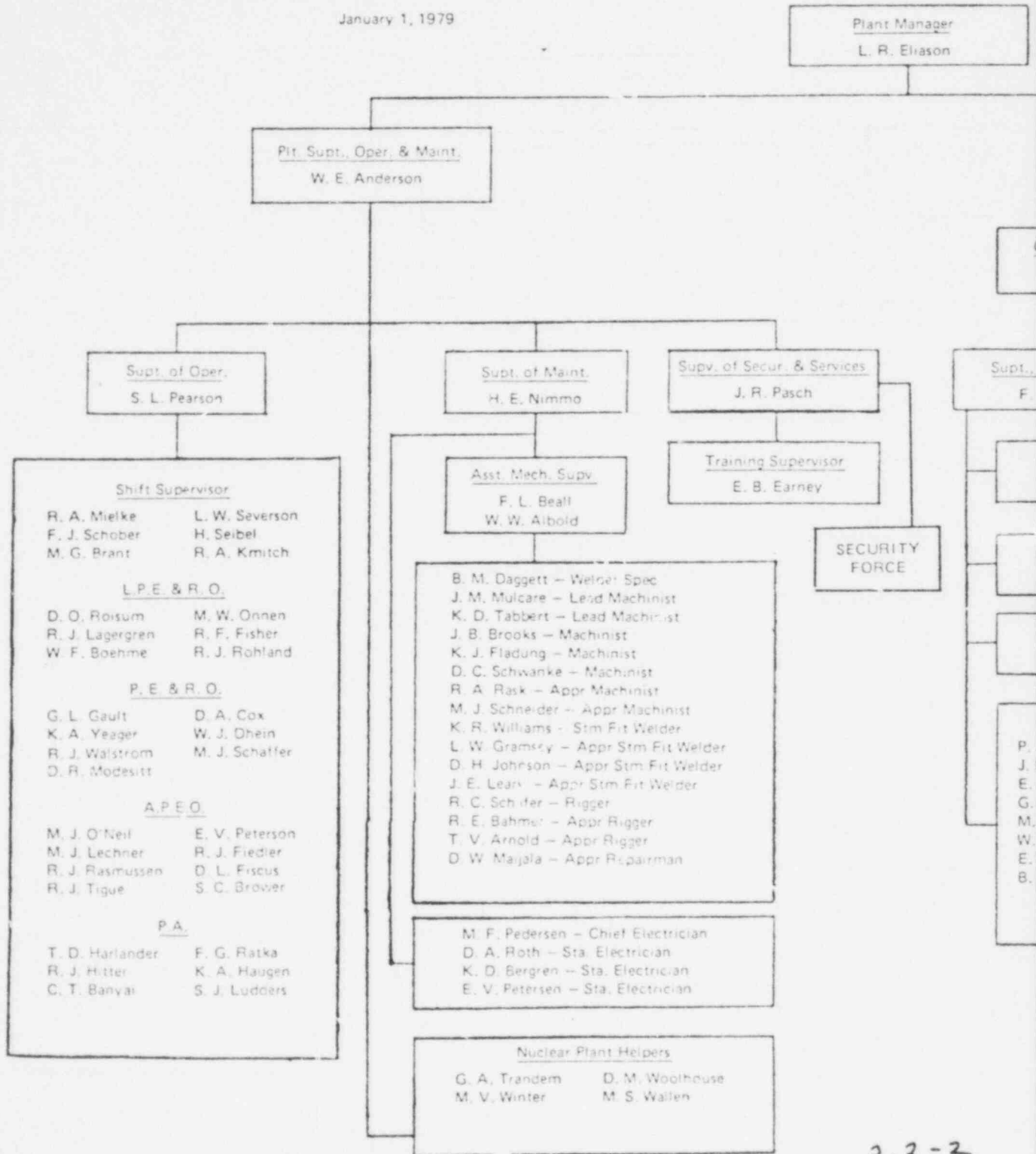
2.2 Monticello Nuclear Plant

2.2.1 Organization Diagram

2.2.2 Personnel Resume's

MONTICELLO NUCLEAR GENERATING PLANT

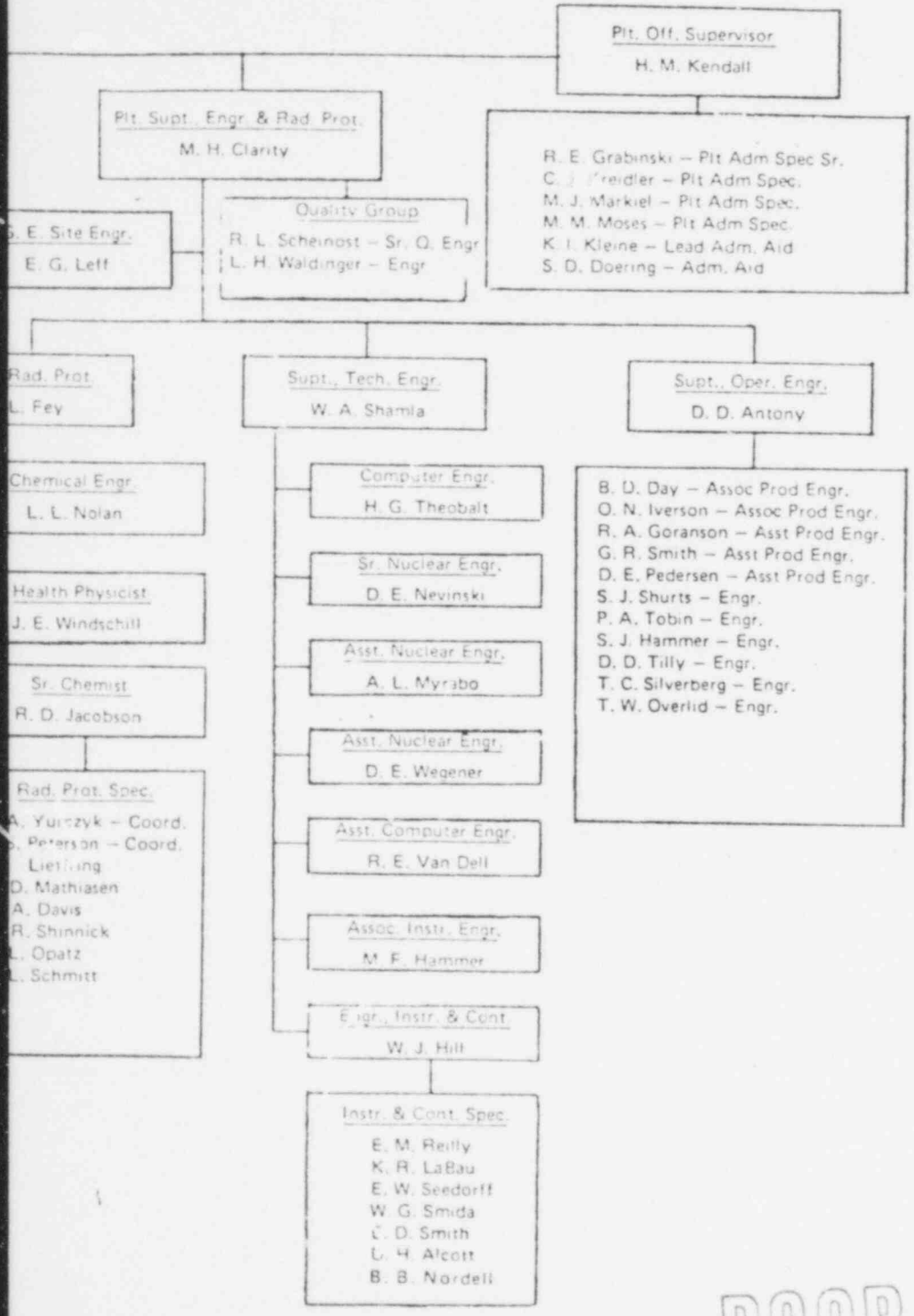
January 1, 1979



2.2-2

POOR ORIGINAL

238.



POOR ORIGINAL

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Darrel Alcott

3. Title Instrument & Control Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

4 years Air Force Instrument Specialist on nuclear bomber.

b. Utility nuclear experience BWR 5 1/2 yrBWR _____

5 1/2 years at Monticello

c. A/E, vendor or other nuclear experience

General Electric Computer School

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

None

b. Other

None

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Willard E. Anderson

3. Title PH Supt., Oper. & Maint.

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP Nuclear Theory Course (2 months) at Pathfinder Atomic Plant
Allis Chalmers training at Greendale Laboratories (4 months)
MTR Facility training in Rx operations (7 months)
GE BWR Technology course (1 month)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 19 yrs. PWR
August 1960 - May 1966 Shift Supv. at Pathfinder Atomic Plant
May 1966 - July 1968 Operations Supv. at Pathfinder Atomic Plant
July 1968 - March 1972 Maint. Supv. at Monticello Plant
March 1972 - June 1978 Supt. of Oper. & Maint. at Monticello
June 1978 - present Plt. Supt. of Oper. & Maint.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1953-1958 Watch Engr. (head of shift) at Sioux Falls Steam Plant
1958-1960 Steam Plant Operator (head of shift) at J.L. Lawrence Steam Pt.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active _____ Expired X

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

* SRO Licensed at Pathfinder Atomic Plant
2.2-4

763 241

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Douglas D. Antony

3. Title Supt., Oper. Engineering

4. Education

a. Degrees B.S.N.E. Major Nuclear Engineering

b. Other Nuclear Education

- GE BWR Simulator Training (3 months)
- GE BWR Simulator Requal Training (3 days)
- GE BWR Simulator Requal Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 10 yrs. PWR _____
June 1969 - present Results Engineer at Monticello Nuclear Plant
Supt. of Operations Engineering at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-5

763 242

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Merlin Brant

3. Title Shift Supervisor

4. Education

a. Degrees None Major _____

b. Other Nuclear Education
GE BWR Technology Course (1 month)
GE BWR Simulator Training (3 months)
GE BWR Requal Training (3 days)
GE BWR Requal Training (3 days)
GE BWR Requal Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR _____
1968- Present Assigned to Monticello as Lead Plant Equipment Operator,
(Control Room) to promoted to Shift Supervisor at Monticello.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1958-1968 Worked at various NSP Fossil Plants in the Operations Group
(10 yrs.)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2-2-6

763 243

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Morgan H. Clarity

3. Title Plt. Supt., Engineering & Radiation Protection

4. Education

a. Degrees B.S.M.E. Major Mechanical Engineering

b. Other Nuclear Education

NEBS Nuclear Instrumentation Course by G.E.

BWR Technology Course by G.E.

Nuclear Power Plant Simulator Training by G.E. (12 weeks)

GE-BWR Simulator Requalification Training (3 days)

GE-BWR Simulator Requalification Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR 18 yrs. PWR
Assigned to Pathfinder Atomic Plant as a member of Plant Results 7-61
Promoted to Pathfinder Results Engineer, May 1966
Promoted to Assistant Plant Superintendent at Monticello in January, 1968.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Employed as Plant Results Group at various NSP Fossil Plants from 1960-1961.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired 763 244

SRO Licensed at Pathfinder Atomic Power Plant 2.2-7

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Myron Davis

3. Title Radiation Protection Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

10 years at Pathfinder Nuclear Plant
NSP Radiation Protection Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 15 yrs. PWR _____
10 years at Pathfinder Atomic Plant
5 years at Monticello Nuclear Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-8

763 245

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Byron Day

3. Title Associate Production Engr.

4. Education

a. Degrees B.S.M.E. Major Mechanical Engineering

b. Other Nuclear Education

CE-BWR Fundamentals Course (6 days)

GE-Hot License Certification (6 days)

GE-Requalification Training Simulator (3 days)

GE-Requalification Training Simulator (3 days)

NSP Basic Reactor Theory Course (3 months)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 6 yrs. PWR

Systems Engineer at the Monticello Nuclear Generating Plant

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1 year engineer intern

b. Other

7. NRC operator licenses held

a. BWR: RO SRO X Active X Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor: RO SRO Active Expired

2.2-9

763 246

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Eugene B. Earney

3. Title Training Supervisor

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP Basic Reactor Theory (3 months)
GE BWR Technology Course (1 month)
GE BWR Simulator Training (3 months)
GE BWR Simulator Requal (3 days)
General Physics BWR Fundamentals (7 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR _____
1968-1979 Worked at Monticello as Plant Equipment and Reactor Operator
(Control Room)
Lead Plant Equipment and Reactor Operator (Control Room)
Training Supervisor

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1965-1968 Worked as an operator at NSP Fossil Plant

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-10

763 247

1. NSP Department or Plant Monticello Nuclear Generating Plant
2. Name Leon R. Eliason
3. Title Plant Manager
4. Education
 - a. Degrees B.S.M.E. Major Mechanical Engineering
 - b. Other Nuclear Education
 - Radioisotopes in Research Course at Oak Ridge
 - GE Radiation Protection Engineer Course at Vallecitos Nuclear Center
 - GE 3 day Requalification Simulator Training
 - GE BWR Technology Course
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - None
 - b. Utility nuclear experience BWR 12 yrs. PWR _____
 - April 1967, Pathfinder Atomic Plant as Results Engineer
 - September, 1967, Transferred to Pathfinder Radiation & Chemical Group
 - January, 1968, Promoted to Radiation Protection Engineer at Monticello
 - June, 1976, Promoted to Plant Manager at Monticello
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - December 1965 - April 1967, Assigned to Results Group at the Blackdog Steam Plant
 - b. Other
 - November 1964 - December 1965, employed by Dow Chemical as a Sales and Service Engineer in Industrial Chemical Cleaning Operations
7. NRC operator licenses held
 - a. BWR: RO _____ SRO X Active _____ Expired X
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Fred L. Fey, Jr.

3. Title Supt., Radiation Protection

4. Education

a. Degrees B.S.H.P. Major Health Physics
M.P.H. Public Health
Master of Science

b. Other Nuclear Education

GE BWR Technology Course (1 month)
GE BWR Simulator Requal Training (3 days)
General Physics Simulator Requal Training (3 days)
Radiological Emergency Response Training, NRC, EPA (1 week)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR _____
Engineer at Pathfinder Atomic Plant Jan. 1968-July 1968
Promoted to Systems Engineer 1968-1976 at Monticello.
Promoted to Supt. Radiation Protection 1976-present at Monticello

c. A/E, vendor or other nuclear experience
Health Physicist at Los Alamos Laboratory 1965-1967

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

Member of Health Physics Society
Member of Industrial Hygiene Society
Member of EEI Health Physics Task Force

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-12

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Richard Goranson

3. Title Associate Production Engr.

4. Education

a. Degrees B.M.E.

Major Mechanical Engineering

b. Other Nuclear Education

U.S. Army, Nuclear Power Plant Operators Course

GE-BWR Fundamentals Course (6 days)

GE-BWR Simulator Requalification Training (3 days)

NSP Basic Reactor Theory Course (3 months)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
3 years with U.S. Army, Engineer Power Group. 1 year at Nuclear Power Plant Operators Course. Remaining 2 years spent with diesel and gas turbine power generation. Did retain nuclear qualification for last 2 years through yearly testing program.

b. Utility nuclear experience BWR 4 PWR _____

4 years as operations engineer at NSP, Monticello Nuclear Generating Plant.

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1 1/2 year as operator on U.S. Army, Power Barge Weber. Qualified as Shift Supervisor.

1/2 year as operations engineer at NSP, High Bridge Plant.

1 year as student engineer at NSP, High Bridge and King Plants.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Michael Hammer

3. Title Associate Instrument Engineer

4. Education

a. Degrees B.E.E.

Major Electrical Engineering

b. Other Nuclear Education

GE BWR Fundamentals Course (6 days)

GE BWR Simulator Requal (3 days)

GE BWR Simulator Requal (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
none

b. Utility nuclear experience BWR 7 yrs. PWR _____
7 years-plant operations engineering

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1 year system planning

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Steve Hammer

3. Title Asst. Production Engineer

4. Education

a. Degrees B.S.

Major Mechanical Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 2 1/2 yr PWR
Production engineer in charge of systems operation, reporting, design changes, trouble shooting, etc. at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NA

b. Other
NA

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.2 -15

763 252

1. NSP Department or Plant Monticello Nuclear Plant

2. Name William J. Hill

3. Title Engr. Instr. & Controls

4. Education

a. Degrees BSEE Major Electrical Engineering

b. Other Nuclear Education
BWR Technology at GE in San Jose (1 month)
Nuclear Instrumentation at GE in San Jose (1 month)
GE BWR Simulator Requal (3 days)
General Physics Simulator Requal (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR 11 yrs. PWR _____
11 years with NSP - startup experience at Monticello and instrumentation
has been the main area of experience

c. A/E, vendor or other nuclear experience
3 months with AEC Ltd. of Canada at the Chalk River Site - worked with
Computer Interface Designs

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
None

b. Other
None

7. NRC operator licenses held

a. BWR:	RO _____	SRO <u>X</u>	Active <u>X</u>	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.2-16

763 253

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Oliver Iverson

3. Title Associate Production Engr.

4. Education

a. Degrees B.S. of M.E.

Major Mechanical Engineering

b. Other Nuclear Education

GE-BWR Fundamentals Course (6 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 6 PWR 2*

* Two years while in the Construction Department - Prairie Island Nuclear Plant
1973 - 1979 - Monticello Nuclear Generating Plant, Systems Engineer

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

None

b. Other

None

7. NRC operator licenses held - None

a. BWR: RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility
or Test Reactor: RO SRO Active Expired

2.2-17

753

254

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Ron Jacobson

3. Title Sr. Chemist

4. Education
a. Degrees B.A. - '67 Major Chemistry

b. Other Nuclear Education
1 month BWR GE Technology
3 months BWR GE Chemistry
other various on site training (systems, QA...)
GE BWR Simulator Requal Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR
11 + years (8 years operating experience) at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Raymond A. Knitch

3. Title Shift Supervisor

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

GE BWR Technology Course (1 month)
GE BWR Simulator Training (3 months)
GE BWR Requal Training (3 days)
GE BWR Requal Training (3 days)
NSP Basic Reactor Theory (3 months)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR _____
1968 Assigned to Monticello Plant as a Lead Plant Equipment Operator
(Control Room) then promoted to a Shift Supervisor at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

A.P.A. Fossil Plant (Coal & Gas) 4 years
P.A. Fossil Plant (Coal & Gas) 5 years
Asst. Operator Fossil Plant (Coal & Gas) 5 1/2 years
Operator Hydro Plant (same site as above) 5 years

b. Other

Operator Generating Plant (private hospital) 3 1/2 years

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2-2-19

763 256

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Ken LaBau

3. Title Instrument & Control Specialist

4. Education

a. Degrees None Major None

b. Other Nuclear Education

College Physics, I & II
NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category) 19 years

a. Nuclear Navy or related military nuclear experience

January 1959 - September 1959 - Submarine Nuclear School, New London, Connecticut
September 1959 - May 1960 - S1W Training Facility, Idaho Falls, Idaho, RO License
June 1960 - May 1962, USS Halibut SSGN 587 San Francisco, California

b. Utility nuclear experience BWR 17 yrs. PWR _____

May 1962 - June 1962 - VBWR Vallecitos, GE Pleasanton, California - Reactor Oper.
June 1962 - October 1962, RML Vallecitos, GE Pleasanton, California - Fuels Handling
October 1962 - August 1968 - GETR Vallecitos, GE Pleasanton, California - Electrician
July 1969 - Present, Monticello Nuclear Generating Plant, I&CS Group

c. A/E, vendor or other nuclear experience

--

6. Other work experience that might be helpful for nuclear plant emergency resource

Fire fighting schools, Navy - First Aid Courses, Red Cross

a. Non-nuclear utility experience (years and type of work)

August 1968 - July 1969, Riverside Generating Plant, Minneapolis, MN

b. Other

Had applied for RO license at VBWR but due to cutting of federal funds in June of 1962, VBWR was retired from service.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO X (Navy) SRO _____ Active _____ Expired Y

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-20

763 257

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Ed Lieftring

3. Title Radiation Protection Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

Navy Nuclear Power
NSP Rad. Prot. Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Navy 1961-1965

b. Utility nuclear experience BWR 11 yrs. PWR _____

Commonwealth Edison-Dresden 1968-1969 Health Physics Area
Monticello Nuclear Plant 1969-1979 Health Physics Area

c. A/E, vendor or other nuclear experience

Health Physics, Inc. Part time 1965-1968

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

20 years medical field - First Aid - U.S. Navy

b. Other

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-21

763 258

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Glenn Mathiasen

3. Title Sr. Radiation Protection Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP Rad. Prot. Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 10 yrs. PWR _____
Radiation Protection at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2 - 22

1. NSP Department or Plant Monticello Nuclear Generating Plant
2. Name Robert Mielke
3. Title Shift Supervisor
4. Education
- a. Degrees None Major _____

- b. Other Nuclear Education
 NSP Nuclear Theory Course (2 months) GE-BWR Simulator Training (3 months)
 Allis Chalmers Greendale Laboratories (3 months)
 CP-5 Facility Training in Rx Operations (3 months)
 GE-BWR Technology Course (1 month)
 GE-Requalification Training Simulator (3 days)
 General Physics Requalification Simulator Training (3 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR 18 yrs. PWR _____
 1960-1966, Senior Plant Equipment Operator at Pathfinder
 1966-1968, Shift Supervisor at Pathfinder Plant
 1968-Present, Shift Supervisor at Monticello Nuclear Generating Plant
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
 1947-1960 - Operations Group at Various NSP Fossil Plants
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO X Active X Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____
 SRO Licensed at Pathfinder Atomic Plant 2.2-23 763 260

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Arne Myrabo

3. Title Asst. Nuclear Engineer

4. Education
a. Degrees B.S. Major Engineering Science
M.E. Nuclear Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 2 yrs. PWR _____
NSP Monticello

c. A/E, vendor or other nuclear experience
3 years General Electric Nuclear Energy Division
BWR surveillance, gamma scan (PWR & BWR)
BWR core analysis & management

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2-2-24

763 261

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Douglas Nevinski

3. Title Sr. Nuclear Engineer

4. Education

a. Degrees B.S.M.E. Major Nuclear Engineering
M.B.A. Business Administration

b. Other Nuclear Education

G.E. Station Nuclear Engineer's Course (SNEC)
GE-BWR Technology Course (1 month)
GE-BWR Simulator Training Course (3 months)
GE-Simulator Requalification Training (3 days)
GE Simulator Requalification Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 PWR _____

Plant Operations Monticello
(reactor engineering)

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
ANS Member

7. NRC operator licenses held

a. BWR: RO _____ SRO 1684 Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2 - 25

763 - 262

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Herbert Nimmo

3. Title Supt. Of Maint.

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

GE BWR Technology Course (4 wks.)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 11 yrs. PWR _____
1968-1972 Chief Electrician at Monticello Plant
1972-1978 Maint. Supervisor at Monticello Plant
1978-present Supt. Of Maint. at Monticello Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1948-1949 Fireman at Riverside Fossil Steam Plant
1949-1951 Boiler and Aux. Operator at Riverside Steam Plant
1951-1959 Asst. Boiler Room Foreman at Riverside Plant
1959-1968 Station Electrician at Riverside Plant

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-26

763 263

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Lawrence L. Nolan

3. Title Chemical Engineer

4. Education

a. Degrees B.S. Major Chem. Engr. (U. OF MN)
M.S. Chem. Engr. (Oregon State Univ.)

b. Other Nuclear Education

USN Nuclear Power Training 1977 Radiation Protection Surveys
6 months classroom Univ. Of Michigan
6 months plant training (two weeks)
GE BWR Simulator Requal (3 days)
GE BWR Simulator Requal (3 days) 1977 Radiological Emergency Response
GE BWR Simulator Requal (3 days) Training Program, NRC, EPA (1 wk.)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Nuclear Navy
1 year training
3 years operating - USS Long Beach CG (N) - 9
Engineering Dept. Qualified Eng. Officer of the watch.

b. Utility nuclear experience BWR 10 yrs. PWR _____
10 years at Monticello Nuclear Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Byron Nordell

3. Title Instrument & Control Specialist

4. Education
a. Degrees _____ Major _____
_____ Major _____
_____ Major _____

b. Other Nuclear Education
NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

4 1/2 years aboard nuclear submarines.
Worked on Underwater Fire Control System for nuclear weapons.

b. Utility nuclear experience BWR 1 year PWR _____

I&CS At the Monticello Nuclear Generating Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

4 1/2 years combined at Riverside, SherCo, and High Bridge power plants.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Eugene Opatz

3. Title Rad. Prot. Spec.

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education
NSP Rad. Prot. Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 5 yrs. PWR _____
5 years at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-29

763 266

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Terry Overlid

3. Title Assistant Production Engineer

4. Education
a. Degrees B.S. Major Mech./Nuc.

b. Other Nuclear Education
Navy Nuclear Power School

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
6 yrs. (3 on sub.)

b. Utility nuclear experience BWR 1 Yr. PWR _____
at Monticello as Systems Engineer

c. A/E, vendor or other nuclear experience
Operator & SRO at Triga MK III
Test Reactor, Univ. of Calif., Berkeley

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NA

b. Other
NA

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO <u>X</u>	Active _____	Expired <u>X</u>

2.2-30

763 267

1. NSP Department or Plant Monticello Nuclear Plant

2. Name James R. Pasch

3. Title Supv. of Security & Services

4. Education

a. Degrees BSME Major Mechanical Engr.
MSME Mechanical Engr.

b. Other Nuclear Education

GE Simulator Requal Training (3 days)

U.S. Naval Academy 1960-1964

GE Simulator Requal Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
Qualified Engineering watch officer D16-140 MW Rx (1 yr.)
Qualified Engineering watch officer S5W-80 MW Rx (2 yrs.)

b. Utility nuclear experience BWR 7 yrs. PWR _____
1972-1974 Systems Engineer at Monticello Nuclear Plant
1974-1977 Training Supv. at Monticello Plant
1977-present Supv. of Security & Services at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
Member of American Society of Industrial Security
Member of ASME, NSPE, MSPE

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-31

763-268

1. NSP Department or Plant Monticello Nuclear Plant
2. Name Stanley L. Pearson
3. Title Supt. Of Operations
4. Education
- a. Degrees None Major _____

- b. Other Nuclear Education
 NSP Nuclear Theory Course At Pathfinder Plant (3 months)
 Allis Chalmers Greendale Laboratories Training (3 months)
 CP-5 Facility at Argonne Training in Rx Operations (3 months)
 GE BWR Technology Course (1 month)
 GE BWR Simulator Training (3 months)
 GE Requal Training Simulator (3 days) GE BWR Simulator Requal (3 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR 19 yrs. PWR _____
 1960-1966 Assigned to Pathfinder as Senior Plant Equipment Operator
 1966-1968 Shift Supervisor at Pathfinder Atomic Plant
 1968-1977 Shift Supervisor at Monticello Plant
 1977-1979 Supt. Of Operations at Monticello Plant
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
 1948-1960 Worked in various operating positions at NSP Fossil Plant
 (12 yrs.) (Wilwarth)
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO X Active X Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____
 SRO Licensed at Pathfinder Atomic Plant

1. NSP Department or Plant Monticello Nuclear Plant
2. Name Donald Pedersen
3. Title Assoc. Production Engineer
4. Education
- a. Degrees BACH. Major Aeronautical Eng.
- _____
- _____
- b. Other Nuclear Education
 GE BWR Simulator Requal Training (3 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
 Airforce transport of Nuclear Weapon components (3 yrs.)
- b. Utility nuclear experience BWR 3 yrs. PWR _____
 Systems Operation Engineering at Monticello.
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- b. Other
 Command and control experience as airforce pilot (5 yrs.)
 Operational coordinator during airforce emergencies (3 yrs.)
7. NRC operator licenses held None
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant
2. Name John Peterson
3. Title Radiation Protection Coordinator
4. Education
- a. Degrees _____ Major _____

- b. Other Nuclear Education
 U.S. Navy Nuclear Power School
 U.S. Navy Nuclear Power Prototype
 NSP Radiation Prot. Training Program
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
 U.S. Navy 1966-1971 (Subs.)
- b. Utility nuclear experience BWR 7 yrs. PWR _____
 1972-1979
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Edward Reilly

3. Title Instrument & Control Specialist

4. Education

a. Degrees None Major None

b. Other Nuclear Education

On site classes in nuclear physics.
NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

N/A

b. Utility nuclear experience BWR 11 yrs. PWR _____

11 years as Instrument & Control Specialist at the Monticello Nuclear Generating Plant.

c. A/E, vendor or other nuclear experience

Nuclear-Data multi-channel analyzer class

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

6 months - High Bridge & King Plant as an Instrument & Control Specialist.

b. Other

1. GE-MAC Class
2. Air Force Electronics
3. IRD School
4. Miscellaneous Electronic and Math Courses

7. NRC operator licenses held - None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-35

763 272

1. NSP Department or Plant Monticello Nuclear Generating Plant
2. Name Ralph L. Scheinost
3. Title Senior Quality Engineer
4. Education
- a. Degrees B.S.M.E. Major Mechanical Engineering
- b. Other Nuclear Education
- Babcock & Wilcox Nuclear Engineering Seminar (5 days)
 - Westinghouse PWR Systems & Operations Course (4 weeks)
 - NSP Introduction to Environmental Protection (6 days)
 - GE-BWR Simulator Requalification Course (3 days)
 - GE-BWR Fundamentals Course (6 days)
 - GE-BWR Simulator Requalification Course (3 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR 9 years PWR _____
- 1970 - 1975, NSP Corporate Nuclear Plant Coordinations
 - 1965 - 1970, Pathfinder Atomic Plant Results Engineer
 - 1975 - Present (1979), Monticello Nuclear Plant Quality Engineer
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- 1964-1965, NSP Fossil Plant (Blackdog) Results Group
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO X Active X Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____
- SRO Licensed at Pathfinder Atomic Plant 2.2-36

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Bernard Schmitt

3. Title Radiation Protection Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

U.S. Navy Nuclear Power School , Mare Island, Calif.
U.S. Navy Nuclear Power Prototype, Idaho Falls, Idaho
NSP Radiation Prot. Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Navy Nuclear - submarines 1966-1971 Operator, Mechanical EWS Qual.
Shift Refueling Engineer 1975-1976 Shift Supervisor for Control of Refueling
Operations SBG Plant

b. Utility nuclear experience BWR 6 yrs. PWR _____
1971-1974 Monticello
1976-present Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-37

763 274

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Francis J. Schober

3. Title Shift Supervisor

4. Education

a. Degrees None Major _____

b. Other Nuclear Education

NSP Nuclear Theory Course (3 months)

GE-BWR Technology Course (1 month)

GE-BWR Simulator Training (3 months)

GE-Requalification Training (Simulator) (3 days)

General Physics Requalification Training Simulator (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 17 yrs. PWR _____

August 1961-1966, Plant Equip. Operator at Pathfinder

1966-1968, Senior Plant Equipment Operator at Pathfinder

1968-Present, Shift Supervisor at Monticello Nuclear Generating Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1949 - 1961, Operations group at NSP Fossil Plant

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

SRO Licensed at Pathfinder Atomic Plant 2.2-38

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Ernie Seedorff

3. Title Instrument & Control Specialist

4. Education

a. Degrees None Major _____

b. Other Nuclear Education

NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 9 years PWR _____

9 years Instrument & Control Specialist at the Monticello Nuclear Generating Plant.

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

None

b. Other

8 years - Honeywell Aerospace Division, Elect. Tech.

3 years - U.S. Army Missile Artillery, Nuclear Warhead Installation Experience

7. NRC operator licenses held - None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-39

763 276

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Harold Seibel

3. Title Shift Supervisor

4. Education

a. Degrees None Major _____

b. Other Nuclear Education

NSP Reactor Theory Course (3 months)
Allis Chalmers Greendale Laboratories (3 months)
CP-5 Facility Training in Rx Operations (3 months)
GE-BWR Technology Course (1 month)
GE-BWR Simulator Training (3 months)
GE-BWR Simulator Requal (3 days) GE-BWR Simulator Requal (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 16 yrs. PWR _____

1960-1968, Senior Plant Equipment Operator at Pathfinder Plant
1968-Present, Shift Supr. at Monticello Nuclear Generating Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1949-1960, Operations Group at NSP Fossil Plant

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

SRO Licensed at Pathfinder 2.2-40

1. MSP Department or Plant Monticello Nuclear Generating Plant
2. Name Lowell W. Severson
3. Title Shift Supervisor
4. Education
- a. Degrees None Major _____

- b. Other Nuclear Education
 NSP Nuclear Theory Course (3 months) GE-BWR Simulator Requal (3 days)
 Allis Chalmers Greendale Laboratories (3 months)
 CP-5 Facility Training in Rx Operations (3 months)
 GE-BWR Technology Course (1 month)
 GE-Simulator Training (3 months)
 GE-BWR Simulator Requal (3 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
 None
- b. Utility nuclear experience BWR 18 yrs. PWR _____
 1960-1968, Senior Plant Equipment Operator at Pathfinder
 1968 - Present Shift Supervisor at Monticello
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
 1948 - 1960, Operations Group at NSP Fossil Plant
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO X Active X Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____
 SRO Licensed at Pathfinder 2.2-41

763 278

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Wayne A. Shamla

3. Title Supt. of Technical Engineering

4. Education

a. Degrees B.S.M.E. Major Mechanical Engineering

b. Other Nuclear Education

- GE BWR Technology Course (4 wks.)
- GE NEBS 12 wk. Instrumentation Course
- GE Station Nuclear Engineering Course (3 wks.)
- GE BWR Simulator Requal Training (3 days)
- General Physics BWR Requal Training (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 13 yrs. PWR
March 1966 - March 1968 assigned to Pathfinder Plant results group
March 1968 - 1974 assigned to Monticello as Engineer Instruments
1974 - present Promoted to Supt. of Tech. Engineering

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NSP work study program while attending college (2 yrs.)
1965 & 1965

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active X Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

*SRO Licensed at Pathfinder Atomic Plant 2.2-42

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Warren Shinnick

3. Title Radiation Protection Spec.

4. Education
a. Degrees _____ Major _____
_____ Major _____
_____ Major _____

b. Other Nuclear Education
Navy Nuclear Power School
NSP Radiation Protection Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
4 yrs. Nuclear Navy (subs.)

b. Utility nuclear experience BWR 5 yrs. PWR _____
5 years at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-43

763 280

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Steve Shurts

3. Title Assistant Production Engineer

4. Education

a. Degrees B.S. Major Nuclear Engr.

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR 2 1/2 yr PWR _____
2 1/2 yrs. Systems Operations Engineering at Monticello

c. A/E, vendor or other nuclear experience
None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
None

b. Other

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant
2. Name Terry Silverberg
3. Title Assistant Prod. Engr.
4. Education
- a. Degrees B.S. Major Electrical Engineering
- b. Other Nuclear Education
Navy Nuclear Program
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
5 years Nuclear Navy
4 years on a sub.
- b. Utility nuclear experience BWR 2 yrs. PWR _____
1977-1978 Systems Engineer at Monticello
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
None
- b. Other
7. NRC operator licenses held None
- a. BWR: RO _____ SRC _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-45

763 282

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Wally Smida

3. Title Instrument & Control Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 9 years PWR _____
Instrument & Control Specialist at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Fossil Fuel 1 1/2 years

b. Other

4 years Navy
Communication Technician

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Earl Smith

3. Title Instr. & Control Spec.

4. Education

a. Degrees AA U. of MN. Major none

b. Other Nuclear Education

NSP I&CS Progression Training Program

5. Nuclear Work Experience (list number of years & type of work in each category) 78 mos. Inst & Control Spec. at Monticello

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR 6 yrs. PWR
Monticello Plant as I&CS

c. A/E, vendor or other nuclear experience
None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
24 mos. Operator at Riverside Steam Plant Mpls.
32 mos. Inst. & Control Spec. Riverside

b. Other

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-47

763 284

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Gary Smith

3. Title Asst. Prod. Engr.

4. Education

a. Degrees BS Major Elec. Engr.

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 3 1/2 yr PWR
3 1/2 yrs. engineer

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant

2. Name Henry Theobalt

3. Title Sr. Computer Engr.

4. Education

a. Degrees Dipl.-Ing. (Berlin) Major Maschinen Ball. (Mech.)

b. Other Nuclear Education

Courses in Nuclear Physics Univ. of Minn.
Courses in Reactor Technology GE San Jose
Course: "Station Nuclear Engineer"

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

N/A

b. Utility nuclear experience BWR 11 yrs. PWR _____

Since construction and startup of Monticello Nuclear Plant (1968-1979)
11 years as Computer Engineer

c. A/E, vendor or other nuclear experience

N/A

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

5 years T.U.V. (Germany, Essen) Test Engineer for warranty tests of boilers, turbines, generators, cooling towers, coal-plants and power plants.

b. Other 13 years Results-work in coal plant (N.S.P.)

5 years in army maintenance and construction

7. NRC operator licenses held N/A

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Dean Tilly

3. Title Assistant Production Engineer

4. Education

a. Degrees GSEE Major Electrical Engr. Power Opt.

b. Other Nuclear Education

U.S. Navy Nuclear Power Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

4 years as Electrical Operator on Navy Submarine
6 years total Nuclear Navy

b. Utility nuclear experience BWR 2 years PWR

2 years in Operations Engineering Group at Monticello

c. A/E, vendor or other nuclear experience

--

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

--

b. Other

--

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-50

763-287

1. OSP Department or Plant Monticello Nuclear Plant

2. Name Pat Tobin

3. Title Asst. Production Engineer

4. Education

a. Degrees BSME

Major Mechanical Engineer

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 2 1/2 yrs PWR 2 1/2 yrs., Operations Engineering at Monticello.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

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1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Russell E. Van Dell

3. Title Ass't. Computer Engineer

4. Education

a. Degrees BSEE Major Electrical Engineering

b. Other Nuclear Education

GE BWR Station Nuclear Engineer's Course
Honeywell 4020 Computer Programmer Course (PAL)
GE Fundamentals in Rx Operation
GE BWR Simulator Requal (3 days)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 4 yrs. PWR _____

4 years - Computer Area
- Scheduling/Planning Outages

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Generating Plant

2. Name Lon H. Waldinger

3. Title Asst. Quality Engineer

4. Education

a. Degrees B.S. Major Nuclear Engineering

b. Other Nuclear Education

NSP Basic Reactor Theory Course (3 months) General Physics BWR Fundamentals Course (7 days)

Nuclear Power School (USN)

SIC Nuclear Submarine Prototype (USN)

Basic Electricity and Electronics "P" Schol

Electrician's Mate "A" Scol

Enlisted Basic Course S/M Scol (Hydraulics & Fluid Systems)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

SIC Nuclear Sub. Prototype (Qualified Electrician Operator-6 months)

USS Nauticus, S2W Type RX (Qualified S/D Manuvering Area Operator)

USS Thomas A. Edison, S5W Type RX (Qualified S/D Manuvering Area Operator-5 mos.)

b. Utility nuclear experience BWR 1 year PWR 1 year

Connecticut-Yankee Atomic Power Company, Haddamneck, Connecticut
(Qualified Auxiliary Operator)

Monticello Nuclear Generating Plant, January 1978 to present (Asst. Quality Engineer)

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Worked part time in Health Physics AT University of Wisconsin, Madison.
Work consisted of surveys, evaluation of radiation protection techniques, NSEO, compliance with 10CFR20, recommendations to University Radiation Safety Committee.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Monticello Nuclear Plant
2. Name Dan Wegener
3. Title Asst. Nuclear Engineer
4. Education
 - a. Degrees BSNE Major Nuclear Engineering
MSNE Nuclear Engineering
 - b. Other Nuclear Education
 GE Station Nuclear Engineer Course
 Fundamentals of BWR Operation Course (6 days)
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR 3 1/2 yrs PWR 2 yrs.
 2 years Nuclear Core Analysis for PWR
 3 1/2 years Station nuclear engineer for BWR
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held None
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.2-54

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1. NSP Department or Plant Monticello Nuclear Plant

2. Name John Windschill

3. Title Health Physicist

4. Education

a. Degrees B.A. Major Natural Science

b. Other Nuclear Education

U. of Minesota Graduate School - 1 yr.
M.S. degree pending - major Env. Health/Health Physics

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 2 yrs. PWR _____
1977-1979 Health Physicist at Monticello Nuclear Plant

c. A/E, vendor or other nuclear experience
3M Company - Grad. school student training work

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

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1. NSP Department or Plant Monticello Nuclear Plant

2. Name Pat Yurczyk

3. Title Rad. Prot. Coord.

4. Education
a. Degrees _____ Major _____
_____ _____
_____ _____

b. Other Nuclear Education
NSP Rad. Prot. Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 10 Yrs. PWR _____
10 years at Monticello Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.3 Prairie Island Nuclear Plant

2.3.1 Organization Diagram

2.3.2 Personnel Resume's

PLANT MANAGER
F. P. Tierney

PLANT SUPT O & M
J B Brokaw

STAFF ENGINEER
A A Hunstad

SR SCHED ENGR
S A Fehn

SUPV PLNT SRV
DD Rithaus

TRAINING
L E Foltz

SUPT OPERATIONS
R L Lindsey

SUPT MAINTENANCE
J H Nelson

INSTRUC
WR Walker

SHIFT SUPERVISORS

G L Edon	R S Holthe	P A Valtakis
M J Balk	R J Flach	J L Meath
D W Cragoe	R J Held	P C Ryan
		D V Walker

CHIEF ELEC
J C Lyons

MTCE SUPVS
W A Lucking
R G Mrozek
M G Murchau
W F Phillip

LEAD PLANT EQUIPMENT & REACTOR OPERATORS

R L Walther	J H Bichel	V R Guertin
J L Schilling	D K Zimmerman	B A Ellison
T C Goetsch	G F Hamberg	H W Pemble
R C Berghammer	D F Wagenmann	

STATION ELEC

J A Juenemann
E E Dietz
G A Pletcher
L A Rapp
J E Kirchner
T A Tapanila-AP

LEAD MACHINIST

N L Ewals
D C Buerman
W D Foerste
MACHINIST
C H Phillip
W L Allard
D L Anderson

PLANT EQUIPMENT & REACTOR OPERATORS

M E Schmidt	J P Reuter
A W Childs	M D Werner
R N Meyer	R L Thorkelson
D W Childs	M D Wadley
	D B Johnson

LD NUC PLT HLPERS
T S Mullaney
T A Seeley
R E Schmid

J E Lee
J W Lommel
P M Winberg
E W Kruse-

ASSISTANT PLANT EQUIPMENT OPERATORS

K B Kein	B L Carlson	R D Pearson
L M Kelly	W M Mather	W J Irvin
R A Sutherland	W C Bell	J E Huebner
G D Woodhouse	D J Westphal	

NUC PLT HLPERS

TH Borgen
R J Doyle
K A Harvey
K M Dodge
W R Bodin
K M Asaial
J Klindworth
T P Bann
S A Rege
W D Eppen

WELDER SPEC
C W Nash
H L Kremer
STMFTR WELDER
R L Hanson
R A Safe
J P Samuel

PLANT ATTENDANTS

L E Wolford *	L E Mann	S N Chrzick
W A Osmak	W H Andrews	D J Halverson
W R Engler *	R W Osgood	P E Klopff
D L Herling *	DR Nelson	D S Brown
J R Anderson	G W Damman	J E Furlong
J J Hanson	R A Carlson	D W Gehlar
J R Gosman	D L Olson	
R D Tegg	A P Dreyling	
J B Ness	B M Anderson	
L L Henry	J N Grizzle	

REPAIRMAN
R J Kieffe
LEAD RIGGER
R W Scherth
E A Bengtson
RIGGER

P A Flynn
M K Larson
H T Johnson
D W Monty

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POOR ORIGINAL

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JUL 25 1979

OFFICE SUPERVISOR
R E Warren

PLANT SUPT PE & RP
E L Watzl

SUPV SEC & SERV
R Conklin

OA ENGINEERS
K A Albrecht
R V Pederson
D J Silvers

ADMIN AID
S L Arnold
M J Hamberg
J A Miller
J Daley

PLANT ADMINISTRATIVE SPEC
L J Brunner D E Lortscher
E M Jenson D A Lund
J N Johnson R O Olson
E C Lieber D Vandewacker

SUPT RAD PROT
D A Schuelke

SR NUC ENGR
M B Sellman

SUPT TECH ENGR
J L Hoffman

SUPT OPS ENGR
D J Mendele

ASST RP SUPT
R A Steinos
ENGINEERS
R P Pearson
D L Stember
PLANT CHEMIST
J T Linville

NUCLEAR ENGR
M A Klee
S D Northard

INST ENGR
G Sundberg

CMPTR ENGR
K Slingebu

ENGINEERS
T A Amundson
D R Brown
S E Guchas
D L Haugland
G T Lenertz
G L Miller

A D Smith
S F Stephens

ENGINEERS
G A Rolfsen
J C Ruether
R H Hanson

RAD & CHEM COORD
A C Johnson
RAD & CHEM SPEC
K G DeLong
S R Derleth
T M Gatten
G J Joachim
G M Kolle
D K Larimer
J K Lemmerman
D A Ludwig
G E Malinowski
J M Maurer III
J P Oelkers

I&C COORD
w C Gauger
R A Oelschlager
I&C SPEC
W E Bickford
J W Bierbrauer
T J Haws
R L Herder
S V Huikko
D G Martin
D H Peterson
T A Scheie
C A Schumacher
F W Shaffer
D W Swenson
T J Williams

TEMPORARY CLASSIFICATION

* APEO

POOR ORIGINAL

REPAIRMAN
J J Franek
M C Olson
L J Schumacher
D J Gould
R J Hanson - AP
S W Arnold - AP
D A Severson - AP
K R Spigale - AP

PRAIRIE ISLAND ORGANIZATIONAL CHART

March 12, 1979

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1. NSP Department or Plant PRAIRIE ISLAND Nuclear PLANT
2. Name KENNETH J. ALBRECHT
3. Title SENIOR Quality ENGINEER
4. Education
- a. Degrees BSEE Major ELECTRICAL & ELECTRONICS ENGINEERING
- b. Other Nuclear Education
1. IN PLANT SRO TRAINING
 2. Operator training at Indian Point Nuclear PLANT Simulator
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience NONE
- b. Utility nuclear experience BWR _____ PWR 6 yrs.
- SEE attached
- c. A/E, vendor or other nuclear experience NONE
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (year and type of work) NONE
- b. Other NONE
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO X Active _____ Expired X
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

- June-Dec, 1973: Hired by Northern States Power Company and assigned to Prairie Island Nuclear Generating Plant as an Operations Systems Engineer. Responsible for writing and reviewing electrical operating procedures, start-up procedures, and the electrical systems checklists for Unit 1 operation.
- Jan-Dec, 1974: Assigned the following activities in preparation for startup of Prairie Island Nuclear Unit 2: a) NSP's operations reviewer and co-startup leadman with Westinghouse for the following Pre-op tests: safety injection with and w/o blackout, reactor trip breakers, plant and cooling tower 480 volt system, instrument and computer AC distr. system.
- Jan-Aug, 1975: Assigned the responsibility for operation, maintenance, and technical evaluation for the following systems at P.I.: (1) electrical: 345 KV - 125 VDC - both units; (2) Safety Injection - Unit 2; (3) diesel generators - backup; (4) Instrument air - Unit 1; (5) Aux. feedwater - Unit 1; (6) Heating system - both units.
- Aug-March, 1975-1976: Assigned to the Plant Engineer's Technical group at Prairie Island. Responsible for establishing electrical preventive maintenance procedure and implementing administrative controls for the electrical pm program.
- March-May, 1976: In plant supervision (technical) of the station electricians, relay and breaker crews governing electrical pm activities for P.I. Unit 1's first refueling outage.
- May-Sept, 1976: Completed intensive training in the operation of the Prairie Island Nuclear Plant. Completed seven days of "hands on" operator training at the Indian Point Nuclear Plant Simulator. Passed written and oral exams given by the Nuclear Regulatory Commission. Received Senior Reactor Operators License in October, 1976.
- Jan-March, 1977-1978: Responsible for the technical supportive operation, maintenance, and evaluation of the following systems at P.I.: (1) Nuclear instrumentation - Unit 1; (2) Reactor Protection actuation - both units; (3) Safety Injection actuation - both units; (4) electrical pm program - both units.
- March-March, 1976 - 1978: Supervised, scheduled and co-ordinated the electrical pm program for five refueling outages at P.I. Units 1 and 2.
- May, 1978 - June, 1979: Assigned to the Tyrone Energy Park Task Force for NSP. Responsible for the preparation and review of generic operating procedures for the Standardized Nuclear Unit Power Plant Systems. Joint effort of five electrical utilities.

JUNE, 1979

Accepted position of Senior Quality Engineer for Prairie Island Nuclear Plant.

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR GEN. PLANT

2. Name DAYLE D. ALTHAUS

3. Title PLANT SERVICES SUPERVISOR

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

SEE ATTACHMENT

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
NONE

b. Utility nuclear experience BWR _____ PWR X
10 YEARS AS SHIFT SUPERVISOR

c. A/E, vendor or other nuclear experience
NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
16 YEARS AS ELECTRICAL OPERATOR AND STEAM PLANT OPERATOR

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO X Active _____ Expired X
c. Critical Facility or Test Reactor: RO X SRO _____ Active _____ Expired X

2.3-5

D. D. Althaus

Shift Supervisor

Served with the U.S. Navy during the Korean War.

June 1953

Started with Northern States Power Company at the Main Street Hydroelectric Plant. Held various operating positions at the following plants: Riverside Steam Plant, Nicollet Substation, Lower Dam Hydroelectric Plant, Hennepin Island Hydroelectric Plant, Black Dog Steam Plant. Obtained a Grade A Chief Engineer's License in the State of Minnesota.

November 1967

Assigned to the 600 MW A.S. King Steam Plant as a Lead Plant Equipment Operator (Control Room) for startup.

July 1969

Assigned to the Prairie Island staff as a Shift Supervisor.

July 1969

Began a math and physics review course in preparation for the Westinghouse Reactor Operator Training Program.

September 1969

Began the 9 month Westinghouse Reactor Operator Training Program. The program included 2 1/2 months at Waltz Mill, Pennsylvania, covering reactor control theory and operation of the CES Training Reactor, and 6 months of PWR power reactor operating experience at Saxton after which an AEC Reactor Operator License on the Saxton reactor was obtained.

September 1970

Completed Phase III (8 weeks) of the NSP Basic Nuclear Course.

September 1970

Began a 6 week Westinghouse Design Lecture Series at Pittsburgh, Pennsylvania. This was a series of lectures by the designers of the Prairie Island Nuclear Steam Supply Systems.

December 1970

Began working at the Prairie Island site along with the rest of the plant Operating Department. Principal activities from this time to present have been:

- (a) Supervising a group of operators in the preparation of plant operating procedures.
- (b) Giving system walk-through checkouts in the areas of his expertise to other license candidates.
- (c) Supervising plant operators in the conduct of preoperational testing.

1. NSP Department or Plant PRAIRIE ISLAND
2. Name THEODORE E AMUNDSON
3. Title ASSISTANT PRODUCTION ENGINEER
4. Education
- a. Degrees BS Major MECHANICAL ENGINEERING
MS MECHANICAL ENGINEERING
- b. Other Nuclear Education
14 GRADUATE CREDITS OF VARIOUS COURSES IN RADIATION PROTECTION PRINCIPLES FROM WINONA STATE UNIVERSITY
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
NONE
- b. Utility nuclear experience BWR _____ PWR
3 YEARS AT PRAIRIE ISLAND
- c. A/E, vendor or other nuclear experience
NONE
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
NONE
- b. Other
NONE
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND NUC GEN PLANT - OPER. DEPT.

2. Name MAY J. BALK

3. Title SHIFT SUPERVISOR

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

3 MONTHS COURSE BY PLANT ENGINEERS - PATHFINDER
1 MONTH COURSE BY PLANT ENGINEERS - MATH + PHYSICS
2 1/2 MONTHS COURSE BY WESTINGHOUSE
2 MONTHS BASIC NUCLEAR COURSE BY NSP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR PWR

NORTHERN STATES POWER CO. PATHFINDER - 6 YEARS - REACTOR OPERATOR
NORTHERN STATES POWER CO. PRAIRIE ISLAND - SHIFT SUPERVISOR - 10 YEARS
~~SAYTON~~ WESTINGHOUSE SAYTON + WALTZ MILLS - 9 MONTHS - REACTOR OPERATOR

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

SIOUX FALLS STEAM PLANT - 1 YEAR
J. L. LAWRENCE STEAM PLANT - 11 YEARS - PLANT ATTND - SWITCH BOARD OPERATOR
US NAVY 4 YEARS - ELECT - SWITCH BOARD OPERATOR

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO Active _____ Expired

b. PWR: RO _____ SRO Active Expired _____

c. Critical Facility or Test Reactor: RO SRO _____ Active _____ Expired

2.3-9

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1. NSP Department or Plant P.I.N.G.P.

2. Name William E. Bickford

3. Title IFCS

4. Education High School Graduate
a. Degrees _____ Major _____

b. Other Nuclear Education
USN - Nuclear Power School (Bainbridge, Md.)
Nuclear Prototype (Windsor Locks, Ct.)
Various advanced schools on specific equipments
and operations.
Engineering Watch Supervisor Seminars & lectures on
various subjects of operations.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
USN - { Engineering Watch Supervisor (2 1/2 years)
operating { Engine room Supervisor & subordinate watch stations (2 1/2 yrs)
Training Petty Officer (2 yrs)
maintenance { mechanical repair work, QA, spare parts
PM Surveillance tests (ie. leak test, v/o observe, op tests)
b. Utility nuclear experience BWR _____ PWR 2 yrs

1 1/2 yrs IFCS

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
USN - Damage Control School (1 wk)
USN - SCUBA Divers School (3 1/2 yrs exp.)

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PINGP

2. Name JOHN W. BIERBRAUER

3. Title I&C SPEC.

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

RED BADGE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR ✓

PINGP I&C for 7 yrs.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island Nuc. Gen. Plant.
2. Name Jarl B. Brokaw
3. Title Plant Supt., Oper. & Maint.

4. Education High school
a. Degrees _____ Major _____

b. Other Nuclear Education
Allis Chalmers - Greendale Facility - 6 mo.
Westinghouse Reactor Operator Training - 1 year
Westinghouse Design Lectures

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR PWR
Pathfinder Nuc. Plant 1960-1969 - BWR
Prairie Island 1969-present

c. A/E, vendor or other nuclear experience
ETA - Idaho - 6 mo. trainee (Pathfinder Training)

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Conventional power plant-operator - 13 years.

b. Other

7. NRC operator licenses held

a. BWR:	RO _____	SRO <input checked="" type="checkbox"/>	Active _____	Expired <input checked="" type="checkbox"/>
b. PWR:	RO _____	SRO <input checked="" type="checkbox"/>	Active <input checked="" type="checkbox"/>	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant Pravie Island Nuclear Generating Plant

2. Name Donald R. Brown

3. Title Production Engineer

4. Education

a. Degrees BME Major MECHANICAL ENGINEERING

b. Other Nuclear Education

17 WKS - Waltz - Mill Training
NSP Basic Nuclear course
NSP SRO License Training Course
INDIAN Point Simulator Hot License Training Program
W Design Lecture Series

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

b. Utility nuclear experience BWR _____ PWR X

NSP - PINGA - ENGINEER - 10 yrs

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

NSP - High Bridge Gen Plant. 3 yrs - ENGINEER

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2-3-13

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1. NSP Department or Plant Prairie Island

2. Name Roland K Conklin

3. Title Supervisor of Security & Services

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

Navy Nuclear Power School 6 mo 1960
Navy Nuclear Prototype 6 mo 1961

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

2 years Navy Prototype S1C Plant 1961 to 1963
6 years S5W(Westinghouse plant) 1963 to 1969
2 years S3G(General Electric plant) 1971 to 1973

b. Utility nuclear experience BWR _____ PWR X

4 years Radiation Protection Specialist

c. A/E, vendor or other nuclear experience

3 months power plant instructor 1973 General Physics Company

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other 2 years work in US Navy -Naval Reactors Division
Washington, DC 1969 to 1971 Special Projects and
screening of personnel

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR PLANT

2. Name Donald W. Cragoe

3. Title Shift Supervisor

4. Education
a. Degrees High School Major _____
ICS Power Plant Eng. _____

b. Other Nuclear Education
BWR Training @ Pathfinder Nuclear Plant, near Sioux Falls, S.D. for RO & SRO License
PWR Training @ Westinghouse Training Center, for RO License at Saxton Penn;
-- Test Reactor. Prairie Island training for SRO License
Five weeks PWR Design Lectures training.
Simulator Training, Zion, Ill. one week. Sequayah Simulator six days

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

b. Utility nuclear experience BWR X PWR X

BWR Pathfinder Nuclear Plant @ Sioux Falls, S.D. Reactor Operator 8 years

PWR Prairie Island Nuclear Plant @ Welch Minn. Shift Supervisor 10 Years

c. A/E, vendor or other nuclear experience

NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Boiler and Turbine Room Operator 7 Years Luverne, Minn. Gas & Oil Fired Boilers
Pump Room Operator, 9 Months @ The J. L. Lawrence Plant, Sioux Falls S.D. (Coal)

b. Other

Minnesota Grade A Chief Engineer License

7. NRC operator licenses held

a. BWR: RO X SRO X Active _____ Expired X
b. PWR: RO _____ SRO X Active X Expired _____
c. Critical Facility or Test Reactor: RO X SRO _____ Active _____ Expired X

2.3-15

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1. NRP Department or Plant PRAIRIE ISLAND
2. Name KEITH G. DELONG
3. Title RADIATION PROTECTION SPECIALIST
4. Education
a. Degrees NONE Major NONE

b. Other Nuclear Education
2 YEARS NUCLEAR SCHOOLING IN NAVY

5. Nuclear Work Experience (list number of years & type of work in each category) ~~4 YEARS OPERATING EXPERIENCE IN NUCLEAR PLANTS IN NAVY~~
~~8 YEARS WORK EXPERIENCE AT PRAIRIE ISLAND AS A RADIATION PROTECTION SPECIALIST~~

a. Nuclear Navy or related military nuclear experience
2 YEARS NUCLEAR SCHOOLING IN NAVY
4 YEARS OPERATING EXPERIENCE IN NUCLEAR PLANTS IN THE NAVY

b. Utility nuclear experience BWR _____ PWR
8 YEARS WORK EXPERIENCE AT PRAIRIE ISLAND AS A RADIATION PROTECTION SPECIALIST

c. A/E, vendor or other nuclear experience
NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NONE

b. Other
NONE

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-16

763 309

1. NSP Department or Plant Pravie Island Nuc Plant
2. Name Steven R. Derleth
3. Title Rad. Prot. Specialist
4. Education
- a. Degrees BA-LA Major Psy.
- b. Other Nuclear Education

NA

5. Nuclear Work Experience (list number of years & type of work in each category)

- a. Nuclear Navy or related military nuclear experience

NA

- b. Utility nuclear experience LW PWR

2yrs Nuc Plant Helper and RPS

- c. A/E, vendor or other nuclear experience

NA

6. Other work experience that might be helpful for nuclear plant emergency resource

- a. Non-nuclear utility experience (years and type of work)

Installation of Central Office telephone Equipment - 3yrs

- b. Other

N.A.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND

2. Name GILBERT L. EDON

3. Title SHIFT SUPV.

4. Education

a. Degrees NONE

Major _____

b. Other Nuclear Education

ONLY LICENSE CANDIDATE TRAINING

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience NONE

b. Utility nuclear experience BWR _____ PWR 9 1/2 YRS

c. A/E, vendor or other nuclear experience NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work) 13 YRS FOSSILE FUEL PLANT OPERATOR + MAINTENANCE

b. Other NONE

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO ✓ Active ✓ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-18

763 311

1. NSP Department or Plant PRAIRIE ISLAND

2. Name SIMON A FEHN

3. Title SR. SCHEDULING ENGR

4. Education

a. Degrees REE Major ELECTRONICS

b. Other Nuclear Education
IDAHO NUCLEAR CORP 3 MONTH CLASSROOM TRAINING
" " " 9 " ON SHIP " "
WATLE - MILL TRAINING BY WESTINGHOUSE
WESTINGHOUSE TRAINING AT SAXTON PLANT

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X

c. A/E, vendor or other nuclear experience
MTR + ATR OPERATION IN IDAHO AS REACTOR OPERATOR

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO X Active _____ Expired X
PWR (SAXTON)

b. PWR: (PRAIRIE ISLAND) RO _____ SRO X Active X Expired _____

c. Critical Facility or Test Reactor: RO X SRO _____ Active _____ Expired X @ MTR + ATR

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name Leland E. Finholm

3. Title Training Supervisor

4. Education : High School Grad. plus 2 yrs. general college

a. Degrees _____ Major _____

b. Other Nuclear Education

US Navy Nuclear Power School

US Navy Nuclear Prototype

US Navy Engineering Laboratory Technician School

Onsite NRC License Training - PINGP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

4 years Nuclear Mechanical Operator and Engineering Lab. Tech.

b. Utility nuclear experience BWR _____ PWR 8 yrs

7 years - PINGP - Operations

1 Year - PINGP - Training Supervisor

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

Approximately 1 year fossil marine propulsion operation - US Navy

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO X SRO _____ Active X Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-20

763 313

1. NSP Department or Plant Prairie Island

2. Name R. J. FLACK

3. Title Shift Supv

4. Education

a. Degrees _____ Major _____
_____ **NONE** _____

b. Other Nuclear Education

PI OPER TNG

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

b. Utility nuclear experience BWR _____ PWR X

9.5 YRS

c. A/E, vendor or other nuclear experience

NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

STM PLT OPER 2.5 YRS

b. Other

NONE

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO X Active X Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND

2. Name TERRANCE M. GATTEN

3. Title RADIATION PROTECTION SPEC.

4. Education NONE - BIK DUMMY

a. Degrees 98.6 Major _____

b. Other Nuclear Education

NAVY NUC PWR SCHOOLS

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

8 YEARS HP.

b. Utility nuclear experience BWR PWR

ABOUT 3 MONTHS @ MONTI. HP

ABOUT 8 YEARS @ PI. HP

c. A/E, vendor or other nuclear experience

COMBUSTION ENGINEERING FUEL FABRICATION H.P.

1 YEAR

6. Other work experience that might be helpful for nuclear plant emergency rescarce

a. Non-nuclear utility experience (years and type of work)

2 YEARS TUG BOAT ENGINEER PART TIME

b. Other

7. NRC operator licenses held NONE

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND Nuclear

2. Name William C. Hauger

3. Title Instrument & Controls Coordinator

4. Education
a. Degrees _____ Major _____
_____ _____
_____ _____

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR ✓ 2 YEARS
HANDFORD N. REACTOR IEC MAINT.

c. A/E, vendor or other nuclear experience 17 YEARS
IEC, HANDFORD PRODUCTION REACTORS 1982 - 1989

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
REC CROSS MEDIA TRAINING
CPR.

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RC _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name Stanley E. Guokas

3. Title Assistant Engineer

4. Education

a. Degrees B.S.

Major Nuclear Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X

2 years system engineer

c. A/E, vendor or other nuclear experience

2 years shield design, 1 year Mechanical Test
Engineer Newport News Shipbuilding and Drydock
Company

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-24

763-317

1. NSP Department or Plant Prairie Island

2. Name Raymond H. Hansen Jr.

3. Title Assistant Power Production Engineer

4. Education
a. Degrees BS - Purdue University Major Electrical Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR 1 1/2

1/2 year mechanical systems - Cooling Water, Diesel Generators
1 year electrical systems - Station Auxiliary systems, D.C., Generation and exciter, Nuclear Instrumentation, Protection and Safeguards logic

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
U.S. Navy - 20 years maintenance & operation supervision fossil marine propulsion plants (.5 yrs shipboard electrical systems, 1 yr steam propulsion systems, 1.5 years diesel propulsion systems)
- 2 years Fire Control Technician (radar, computer & control systems repair)

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND
2. Name D.L. HAUGLAND
3. Title ASSOC. PRD. ENG.
4. Education
- a. Degrees A.A. Major GENERAL
BME GENERAL

b. Other Nuclear Education

SRO. License Training @ PMGC

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

POOR ORIGINAL

b. Utility nuclear experience BWR PWR X

3 1/2 yrs. System Engineer at Prairie Island
Dec, 1975 to present

c. A/E, vendor or other nuclear experience

NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

3 years. System Engineer at fossil fired generating
Plant (NSP Black Dog Plant) Dec 1972 to Dec 1975

b. Other PWR Had license certification on Sequoyah nuclear
power plant simulator from General Physics Corporation in
April, 1979.

7. NRC operator licenses held NONE.

a. BWR: RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor: RO SRO Active Expired

2.3-20

763 319

1. NSP Department or Plant PRAIRIE ISLAND

2. Name TIMOTHY J HAWS

3. Title I+C S

4. Education
a. Degrees _____ Major _____
_____ _____
_____ _____

b. Other Nuclear Education
NAVY NUCLEAR PROGRAM

5. Nuclear Work Experience (list number of years type of work in each category)

a. Nuclear Navy or related military nuclear experience
6 YEAR NAVY NUCLEAR PROGRAM
PWR PLANT OPERATOR

b. Utility nuclear experience BWR _____ PWR
PI - ~ 8 months IFC

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RC _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR PLANT - OPER. DEPT.
2. Name ROBERT J. HELD
3. Title SHIFT SUPERVISOR

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education
NAVY NUCLEAR POWER SCHOOL
NAVY TRAINING @ A&W PROTOTYPE IDAHO FALLS, IDAHO.
NSP NUCLEAR TRAINING COURSES

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
NAVY SCHOOLS
ASSIGNED TO MACHINERY DIVISION U.S.S. ANDREW JACKSON
QUALIFIED ON ALL "M" DIV WATCH STATION UP TO AND
INCLUDING ENGINE ROOM SUPERVISOR (ERS)

b. Utility nuclear experience BWR _____ PWR
NORTHERN STATES POWER CO. PI.
HIRED 4-2-70 as Reactor Operator
Promoted to head plant equipment/reactor oper
then promoted to Shift Supervisor

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
US NAVY SUBMARINE SERVICE 5 YRS 10 MO.
Assigned to Machinery Division completed engineering qualif.
reactor and submarine qualification

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO <input checked="" type="checkbox"/>	Active <input checked="" type="checkbox"/>	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

211 3-28

763 321

1. NSP Department or Plant PI

2. Name R. H. BERGER

3. Title I & C spec

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education
0

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
0

b. Utility nuclear experience BWR _____ PWR X
PI - 9 YEARS ALL I & C

c. A/E, vendor or other nuclear experience
0

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
RIVERSIDE 2 YEARS

b. Other

7. NRC operator licenses held NONE

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island

2. Name James L. Hoffman

3. Title Supt. Technical Engineering

4. Education

a. Degrees B.S.

Major Electrical Eng.

b. Other Nuclear Education

SRO License Training @ PINGP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

U.S. Air Force, 4 years, Nuclear Weapons Specialist

b. Utility nuclear experience BWR _____ PWR

6 months, Point Beach Nuclear Plant, Construction/Startup testing of ITC systems

9 years, Prairie Island, Construction/Startup testing and

c. A/E, vendor or other nuclear experience Operational, mainenance ITC & electrical systems

10 months, Westinghouse PWR, Electrical and process controls design.

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

3 months, NSP Riverside Gen. Plant, Results engineer staff

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO Active Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-30

763 323

Hoffman, James L.

Prairie Island Nuclear Gen. Plant

Hiawatha

Prairie Island

156-333

Supt. Technical Engineering

Plant Superintendent - Engineering

Sherburne County Gen. Plant

Northwest

482

EDUCATION: BEE degree, University of Minnesota, June 1969

ADDITIONAL TRAINING: Senior Reactor Operators License

EXPERIENCE: NSP Planning Department, Student Engineer, January 1968 to June 1969.

(After assignment to Prairie Island staff)

Riverside Gen. Plant, July and August 1969, plant familiarization.

Westinghouse PWR Engineering, September 1969 to May 1970, worked with instrument and electrical controls applications designers with some participation in manufacturer factory testing.

Point Beach Nuclear Plant, May to November 1970, construction, preoperational and startup testing performance.

Prairie Island Nuclear Plant, December 1970 to present. Positions held: Systems engineer with mechanical and instrument systems assignments to March, 1973. Instrument Engineer through December, 1975. Plant Engineer Technical as of January, 1976. A synopsis of duties is attached.

POOR ORIGINAL

2.3-31

763 324

SYNOPSIS OF RESPONSIBILITIES

JAMES L. HOFFMAN

During plant construction The assignment of I&C section work director in mid 1971 and subsequent promotion to Instrument Engineer provided responsibilities in addition to the regular systems engineer responsibilities of system design review and operational and test procedure writing, review and performance. The added responsibilities included; supervision of 15 I&C Specialists during construction and pre-operational testing, formulation of instrument surveillance program and spare parts stocking level guidelines, writing section procedures and instructions and organizing and equipping the instrumentation shop.

As Instrument Engineer, during startup and operation, responsibilities included; instrument systems engineer, formulating instrument preventative maintenance program and assisting in the development of plant administrative controls.

The Technical Engineering section at Prairie Island is responsible for all electrical, instrument and computer systems maintenance, design and procedures plus investigation and response to regulatory body concerns. Also, the section has been charged with plant performance, Nuclear Plant Reliability Data reporting and the annual report. The section supervises instrument maintenance and electrical station auxiliary systems maintenance by outside groups.

Budgetary responsibility has included capital expenditure decisions, both positive and negative, for projects up to \$600,000.

Regular personnel evaluations and membership on the I&C Specialist Training Progression Program Committee were a part of the Instrument Engineer position. As Plant Engineer Technical DMS type principles were applied early in 1976, prior to company initiation, for section engineers benefit by in depth work progress, scheduling and priority interviews. Interview frequency has varied from annually to weekly depending on the individual and his workload. Frequent, but irregularly scheduled, informal group discussions of plant problems are held. Frequent private discussions of personnel policies are held.

POOR ORIGINAL

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name Roland S. Holthe

3. Title Shift Supervisor

4. Education 1 yr college (math/science)

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP Basic Nuclear Course

Training at Walze Mill

W Design Lecture Series

NSP - P1 NRC SRO License Training

W Systems Training

W NRC License Review Series

ZION simulator Training

Seguoyah simulator training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X

9 yrs NSP - P1 NSP - operations

6 1/2 yrs NSP - Pathfinder - operations

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

2 yrs - NSP - R.W. Steam Plant - operations

b. Other

7. NRC operator licenses held

a. BWR: RO X SRO _____ Active _____ Expired X

b. PWR: RO _____ SRO X Active X Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-33

163 326

1. NSP Department or Plant PRAIRIE Island
2. Name STAN HUUKKO
3. Title Inst & Cont. Spec

4. Education
a. Degrees _____ Major _____

b. Other ~~XXXX~~ Education
TWO YEARS Electricity @ St. Paul U tech
ONE YEAR High Voltage @ St. Paul U tech
TWO YEARS Electronic Dakota County U. tech
NAVY: Boiler A School 600* School 1200* School WATER TESTING

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X

Pr. Isl. I & C 9 mos.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Electrical OPERATOR @ High Bridge NSP - 2 1/2 yrs
OPER @ Chem-Lite Jet Plant NSP - 2 1/2 yrs
OPER Inver Hills GAS TURBINE NSP - 4 yrs

I&CS @ High Bridge 14 YEAR
& OTHER

USN Boiler man 4 years 2nd class

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island Units 1 and 2

2. Name Arne A. Hunstad

3. Title Staff Engineer

4. Education
a. Degrees BS Major ME

b. Other Nuclear Education
Onsite SRO Training Program 1976
Hot License Certification on Indian Point Simulator 1976
Onsite SRO Training Program 1979
Hot License Certification on Sequoyah Simulator 1979

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X

Pathfinder Atomic Power Plant 1966-1969, 3 years plant engineering
Prairie Island Nuclear Generating Plant 1971-1979, 2 years plant engineering and 6 years administration

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Riverside Steam (fossil fuels) 2 years plant engineering
Pathfinder (after conversion to fossil fuels) 2 years plant engineering

b. Other
EIT, South Dakota

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired 763

1. NSP Department or Plant Prairie Island Generating Plant

2. Name Gerald J. Joachim

3. Title Rad Prot. Specialist

4. Education

a. Degrees _____

Major _____

b. Other Nuclear Education

US Navy Nuc PWR school
US Navy ELT school
Wingona State University courses
1) Rad Prot. principals
2) Nuc counting statistics
3) Rad dosimetry
4) Det. means at Radimetry

PI. BASIC system training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

2 yrs - Inst/operator @ US Navy nuc prototype

b. Utility nuclear experience

BWR _____ PWR

8 yrs. - RPS @ PI

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-36

763 329

1. NSP Department or Plant Prairie Island Nuclear Plant

2. Name Alvin C. Johnson

3. Title Radiation Protection Coordinator

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

Health Physics Society Summer School 1978 - Radiation Dosimetry
Naval Nuclear Power School
Naval Nuclear Power Training Unit -
Naval Engineering Laboratory Technician School

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Naval Nuclear Power Submarine Duty
Mechanical Operator - 5 years
Health Physics - 5 years

b. Utility nuclear experience BWR _____ PWR X

Radiation Protection Specialist - 8 1/2 years

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island Plant

2. Name Matthew A Klee

3. Title Nuclear Engineer

4. Education

a. Degrees BS - North Dakota State U Major Physics
MS - North Dakota State U Physics
ME - U Virginia Nuclear Engineering

b. Other Nuclear Education
Completed BWR Station Nuclear Engineering Course
SRO Licence Training @ PIPGP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR _____ PWR X
3yr 6mo as Nuclear Engineer at Prairie Island

c. A/E, vendor or other nuclear experience
None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
None

b. Other
None

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO X Active X Expired _____ Prairie Island
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-38

763 331

1. NISP Department or Plant Prairie Island

2. Name Gary M Kelle

3. Title Radiation Protection Specialist

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

Navy Nuclear Power School
Navy Nuclear Power Training Unit
Engineering Laboratory School

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

8 years

b. Utility nuclear experience

BWR _____

PWR 6 1/2 years

RPS

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-39

763 332

1. NSP Department or Plant PRAIRIE ISLAND

2. Name Dennis Larimer

3. Title Chemistry Coordinator

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education
Navy Prototype and Nuclear Power Schools.
Winona State - Radiation dosimetry, Statistics

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

6 years - US Navy
Activist State and Engineering Lab Technician

b. Utility nuclear experience BWR _____ PWR _____

PWR - 5 1/2 years at Prairie Island
PWR - US Navy Prototype SW
BWR - Worked three refueling outages at Monticello

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

POOR ORIGINAL

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired 163

333

1. NSP Department or Plant PRAIRIE ISLAND

2. Name JERRY LEIMMERMAN

3. Title RPS

4. Education

a. Degrees NONE

Major CHEM
MATH

b. Other Nuclear Education

WINONA COURSES AT P.I

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

b. Utility nuclear experience BWR _____ PWR 6

RPS

c. A/E, vendor or other nuclear experience

NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-41

763 334

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name George T. Lenertz

3. Title Assoc. Production Engineer

4. Education
a. Degrees B.S. Major Marine Engineering

b. Other Nuclear Education
2 courses Nuclear Engineering
2 courses Nuclear Physics
SRO License Training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X
1 year - startup testing of Engineered Safeguards Systems
5 years - Performance review, procedure writing and design change performance.

c. A/E, vendor or other nuclear experience
1 year - Nuclear Submarine - Reactor Fluid Systems Design

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
1 year - operating on Merchant Marine Vessels
Professional Engineer - Mechanical
U.S.C.G. License - Third Asst. Engineer Unlimited Steam and Diesel Powered Vessels.

7. NRC operator licenses held

a. BWR:	EO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO <u>X</u>	Active <u>X</u>	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.3-42

335

1. NSP Department or Plant Prairie Island

2. Name Richard L. Lindsay

3. Title Superintendent - Operations

4. Education
a. Degrees none Major ME

b. Other Nuclear Education
USNav, Nuclear Power School
US Navy Nuclear Power Training Unit
General Atomic Reactor Operator Training Program
Westinghouse Reactor Operator Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
3 years - US Navy - Reactor Operator/Instructor, Reactor Technician
qualified on AIW and USS Enterprise

b. Utility nuclear experience BWR X PWR X
3 years - Reactor Specialist (Shift Supervisor) Elk River
Reactor
10 years - Prairie Island Nuclear Plant, Shift Supervisor; Operations
Supervisor & Superintendent - Operations

c. A/E, vendor or other nuclear experience
2 years - Experimental Beryllium Oxide Reactor -
Senior Reactor Operator and Shift Supervisor

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

POOR ORIGINAL

b. Other
Professional Engineer

7. NRC operator licenses held

a. BWR: RO SRO X Active Expired X

b. PWR: RO SRO X Active X Expired

c. Critical Facility or Test Reactor: RO SRO X Active Expired X

(not NRC)

2.3 - 43

350

1. NSP Department or Plant Prairie Island Nuclear Plant

2. Name John T. Linville

3. Title Plant Chemist

4. Education

a. Degrees AAS Major Ind. Tech.
BA Chem.

b. Other Nuclear Education

Navy Nuclear Power School Bainbridge, MD.
S3G Prototype West Milton, N.Y. Operator and ELT
Radiation Protection Courses (see attached)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

5 years on SSBN 657 (S5W) Qualified LEET and EWS

b. Utility nuclear experience BWR _____ PWR x

7 years at Prairie Island Nuclear Plant

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

None

b. Other
Qualified as Registered Radiation Protection Technician by
NERPT in 1978

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

John T. Linville (cont'd.)

College Courses Taken

Physics - Detect & Meas Radiation - Summer 1978

Radiation Dosimetry - Physics - Summer 1978

Nuclear Counting Statistics - Summer 1978

Primary Radiation Protection - Physics - Fall 1978

1. NSP Department or Plant RAINE ISLAND RAD PROTECTION

2. Name DANIEL A. LUDWIG

3. Title RAD. PROT. SPEC

4. Education

a. Degrees NONE Major _____

b. Other Nuclear Education
NAVY NUCLEAR POWER SCHOOL
NAVY ELT SCHOOL

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
8 YEARS
6 YEARS ON NUCLEAR SUBMARINES
AS MECH. OPERATOR / ELT

b. Utility nuclear experience BWR _____ PWR 5.5 YR
PI - RPS

c. A/E, vendor or other nuclear experience
A

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NONE

b. Other
NONE BOILER HOUSE OPERATOR 1 YR
MOBILE POLLUTION CO

7. NRC operator licenses held

a. BWR: RO _____ SRO NONE Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO NONE SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND PLANT

2. Name JERRY LYONS

3. Title CHIEF ELECTRICIAN

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education
BASIC NUCLEAR
PWR DESIGN LECTURE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 10 PWR 8
ELECTRICAL

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

7 RELAY, METER

b. Other

ELECTRICAL 4 YEARS NAVY

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.3-47

763-340

1. NSP Department or Plant PRAIRIE ISLAND

2. Name GERALD MALINOWSKI

3. Title RADIATION PROTECTION SPECIALIST

4. Education

a. Degrees NONE Major _____

b. Other Nuclear Education

1) RADIATION DOSIMETRY
2) RADIATION PROTECTION PRINCIPALS
3) NUCLEAR COUNTING STATISTICS
4) PROTECTION & MEASUREMENT OF RADIATION
← WILSONA STATE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

6

b. Utility nuclear experience BWR _____ PWR 3 yrs

c. A/E, vendor or other nuclear experience

0

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

0

b. Other

0

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island Nuclear Gen. Station
2. Name D. Gerald Martin
3. Title I&C Specialist

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education
U.S. Navy Nuc. Power School

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
6 years - U.S. Navy Nuclear Submarines

b. Utility nuclear experience BWR _____ PWR X
Prairie Island - 7 years - I&C Shop

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-49

763 342

1. NSP Department or Plant PRAIRIE ISLAND
2. Name JOE MAUREE
3. Title RPS
4. Education
- a. Degrees -10 Major _____

- b. Other Nuclear Education
NAVY NUC.
NUCLEAR WELDING SCHOOL
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
8 yrs SERVICE
5 yrs ON F.B.M. (wou)
- b. Utility nuclear experience BWR _____ PWR 6.0
operations - 2 1/2
RPS - 3 1/2
- c. A/E, vendor or other nuclear experience
WINONA CLASSES AT P.I.
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
CHIEF BOILER LICENSE
- b. Other

POOR ORIGINAL

7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2,3-50

763 343

1. NSP Department or Plant Prairie Island

2. Name James L Meath

3. Title Shift Supervisor

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

RO / SRC License Training PINGP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR 9 Years
PINGP operations

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Fossil Fueled Power Plant 16 Years Fireman & Aux. Operator

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO X Active X Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-51

763 344

1. NSP Department or Plant PRAIRIE ISLAND

2. Name DAVID MENDELE

3. Title Supt. OPERATIONS ENGINEERING

4. Education
a. Degrees Bach of Science Major CHEM ENGINEERING

b. Other Nuclear Education

SRO License Training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR 8 years
Procedure preparation and prep testing 3 years
Lead system engineer 1 year
Review and authorize all ~~work~~ nuclear safety related
work maintenance work. Supervise 10 engineers 4 years

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
2 years at a critical UP boiler - AS. King plant

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO <u>X</u>	Active <u>X</u>	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

763, 545

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name Gary L. Miller

3. Title Production Engineer

4. Education
a. Degrees B.S. Major Marine Engineering

b. Other Nuclear Education

1 year of Westinghouse PWR operating and design lectures
SRO License Training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X

3 years - startup testing of Engineered Safeguards Systems

5 years - Review of plant performance data, operating procedure preparation and review, design change review, preparation and installation.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1 year - Data evaluation and performance testing at coal firing plant

b. Other

1 year - Licensed Professional Engineer - Mechanical Engineer

2 years - Active duty U. S. Navy Non-nuclear vessel

2 years - operating experience on merchant marine vessels

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO X Active X Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-53

163 346

1. NSP Department or Plant Prairie Island Nuclear Plant

2. Name Nelson, John H.

3. Title Supt. Maintenance

4. Education

a. Degrees High School Major _____

b. Other Nuclear Education

Maint. Supvr. Trng. - Douglas United Nuclear
Basic Nuclear Course - NSP
Design Lecture Series - W

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X
Maintenance Supervisor - 9 yrs.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
Maintenance Machinist-Welder (Certified) - 20 yrs

b. Other
Job Shop Machinist-Boilermaker - 2 yrs.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SR _____ ive _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-54

763 347

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR GENERATING STATION

2. Name SCOTT NORTHARD

3. Title NUCLEAR ENGINEER

4. Education

a. Degrees P.S. UNIV. OF WIS - MADISON Major NUCLEAR ENGINEERING

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR

STUDENT ENGINEER AT ZION NUCLEAR STATION - 1976

NUCLEAR ENGINEER AT PRAIRIE ISLAND SINCE 9/1/77

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

PRESENTLY TAKING MECHANICAL ENGINEERING COURSES AT UNIVERSITY OF MINNESOTA FOR MASTERS DEGREE IN M.E.

HAVE PASSED EIT AND PE. EXAMS IN WISCONSIN.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-55

763 348

1. NSP Department or Plant 0480 PENGOP
2. Name DELKERS, JOHN P
3. Title RPS

4. Education
a. Degrees 0 Major _____

b. Other Nuclear Education None

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
None

b. Utility nuclear experience BWR 0 PWR 6 1/4
RPS

c. A/E, vendor or other nuclear experience
3M MINING. MINING. NUCLEAR PRODUCTS DIVISION.
5 YRS - HP - QO.

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work) 0

b. Other None

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island
2. Name Roger A. Belschlager
3. Title I+C Coordinator

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education
Nuclear Power School - USN

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
2 YR Instructor - West Milton N.Y.
2 YR LPO RC Div USS A. Hamilton

b. Utility nuclear experience BWR 1 1/2 YR PWR 8 YR
I+C

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
1 YR I+C

b. Other

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

2.3-57

763 350

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR GENERATING

2. Name RICHARD P. PEARSON

3. Title ASSOCIATE PRODUCTION ENGINEER

4. Education

a. Degrees B.A.

M.S.

Major CHEMISTRY
CHEMICAL ENGINEERING

b. Other Nuclear Education

Naval Nuclear Power Training -

Course in Radiation Protection at P.I.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

4 years - Division Officer in Engineering Department of nuclear submarines,
QUALIFIED AS Engineering Officer of the Watch.

b. Utility nuclear experience BWR _____ PWR X

4 years - Prairie Island - Radiation Protection Cr. Engineer

c. A/E, vendor or other nuclear experience

2 years - operated U of Minnesota Gamma Irradiation Facility

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

NONE

b. Other

NONE

POOR
ORIGINAL

7. NRC operator licenses held

a. BWF: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-58

753 351
19JUL79

1. NSP Department or Plant PRINCE ISLAND 0480

2. Name REGINALD V. PEDERSON

3. Title ENGINEER

4. Education
a. Degrees BA
AA

Major INTERDISCIPLINARY

b. Other Nuclear Education

NONE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NONE

b. Utility nuclear experience BWR _____ PWR _____
Florida Power & Light (St. Lucie Plant) 4 YR.
Northern States Power Co. (Prince Island Plant) 2 YR.

c. A/E, vendor or other nuclear experience
EBASCO SERVICES INC (St. Lucie Plant) 2 1/4 YR.

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

NONE

b. Other

NONE

7. NRC operator licenses held NONE

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant PINQP I+C

2. Name DAN PETERSON.

3. Title I+C SPECIALIST

4. Education

a. Degrees ELECTRONIC TECHNOLOGY Major _____

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X
3 YEARS. I+C

c. A/E, vendor or other nuclear experience
WESTINGHOUSE ROD CONTROL
L+N INSTRUMENT SCHOOL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name Gregory A. Rolfson

3. Title Asst. Production Engineer

4. Education

a. Degrees B.M.E.

Major Power Systems

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

NA

b. Utility nuclear experience BWR _____ PWR X

4 years - Prairie Island Nuclear Generating Plant - Engineering

c. A/E, vendor or other nuclear experience

NA

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1 year - Fossil Fueled Generation Plant - Engineering

b. Other

7. NRC operator licenses held NA

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-61

763 354

1. NSP Department or Plant PI N G P
2. Name J. C. Ruether
3. Title Asst. Prod Engr
4. Education
a. Degrees B A E E Major Electrical Engineer

b. Other Nuclear Education

N/A

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

No

b. Utility nuclear experience BWR _____ PWR 3yr at PI

c. A/E, vendor or other nuclear experience

No

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1 year work in NSP Power Supply Planning as student. Walked down PI piping for

b. Other 3 months

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Prairie Island

2. Name PATRICK C RYAN

3. Title SHIFT Supv.

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

- 1) NSP. BASIC Nuc. Course, Phase I 2-16-70 → 6-12-70
- 2) NSP. BASIC Nuc. Course Phase II 6-15-70 → 6-26-70
- 3) C.E.S. Indio. Opr. @ Waltz Mill 8-10-70 → 8-21-70
- 4) NSP BASIC Nuc. Course Phase III 8-22-70 → 9-25-70
- 5) D.S. 9-28-70 → 10-30-70
- 6) Participated in preoperation testing + start up of PI 1+2
- 7) Other see Training Record

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR

Prairie Island: 2-70 PAT. Eg + RTv. Opr.
4-74 Lead PLT. Eg + RTv. Opr.
7-75 Shift Supv.

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Dunwoody - STM. Eng. I 9-66
Dunwoody STM Eng II 9-67

b. Other

Riverside Steam plant 3-66 → 2-70 served as Apprentice, Fireman, Lead Fireman & Pump Operator

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO Active Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-63

356
~~7693 3385~~

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR

2. Name THORLEIF A SCHEIE

3. Title INSTRUMENTATION & CONTROL SPECIALIST

4. Education

a. Degrees MS

Major _____

b. Other Nuclear Education

USN

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

QUALIFIED "REACTOR OPERATOR" : "SHUTDOWN MANEUVERING AREA WATCH" ABOARD 2 DIFFERENT SUBMARINES IN USN. TOTAL 8 1/2 YRS ACTIVE DUTY SERVICE.

b. Utility nuclear experience BWR _____ PWR X

6 yrs IEL

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

RED CROSS CPR TRAINING

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-64

763 357

1. NSP Department or Plant Prairie Island Nuclear Generating Plant
2. Name Donald A. Schupke
3. Title Supt. Rad. Prot
4. Education
- a. Degrees BS Major Chem Eng
MS Environ. Health - Health Physics
- b. Other Nuclear Education Training for SRO License
7 Day simulator training at Indian Point
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience NONE
- b. Utility nuclear experience BWR PWR X
6-73 to 2-75 at NSP Prairie Island
1-76 to present at NSP Prairie Island
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work) NONE
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO X Active X Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-65

763 358

1. NSP Department or Plant P. E. N. G. P.

2. Name C. A. Schumacher

3. Title 1st C. Spec.

4. Education
a. Degrees _____

Major _____

~~_____~~
~~_____~~

~~_____~~
~~_____~~

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. ~~Nuclear Navy or related military nuclear experience~~

b. Utility nuclear experience BWR _____ PWR 6 yrs

PI - IFC

c. A/E, vendor or other nuclear experience

18 years - ~~Harvard~~ IFC
Harvard

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held NONE

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-66

763 359

1. NSP Department or Plant Prairie Island

2. Name Michael B. Sellman

3. Title Senior Nuclear Engineer

4. Education

a. Degrees B.S. Major Physics
M.S.E. Nuclear Engineering

b. Other Nuclear Education

Bettis Reactor Engineering School
SRO license training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Qualified in Submarines (SSBN 628)
5 yrs. - Nuclear design engineer for Naval Reactors.
Responsible for physics, thermal hydraulic design, core mechanical design
and fabrication for new reactor designs.

b. Utility nuclear experience BWR _____ PWR x

5 yrs. - Nuclear Engineer, Prairie Island.
Responsible for physics testing, fuel handling, surveillance testing,
operational procedures, fuel accountability, etc.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

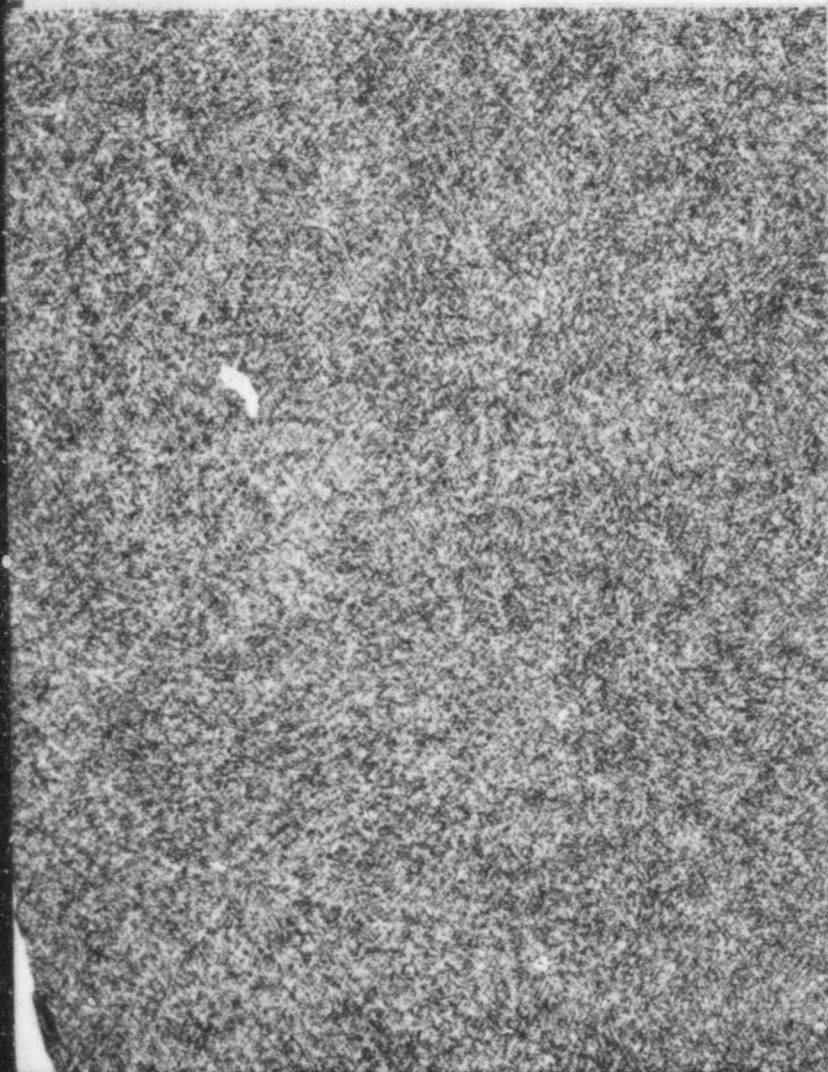
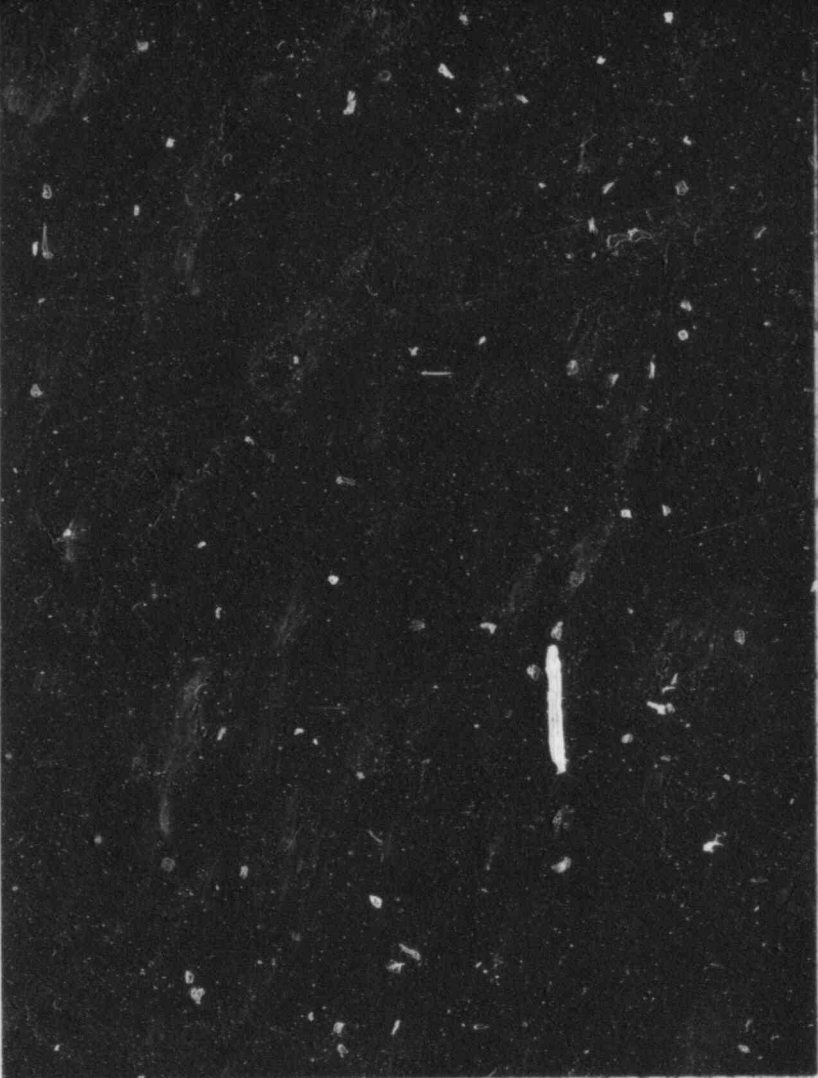
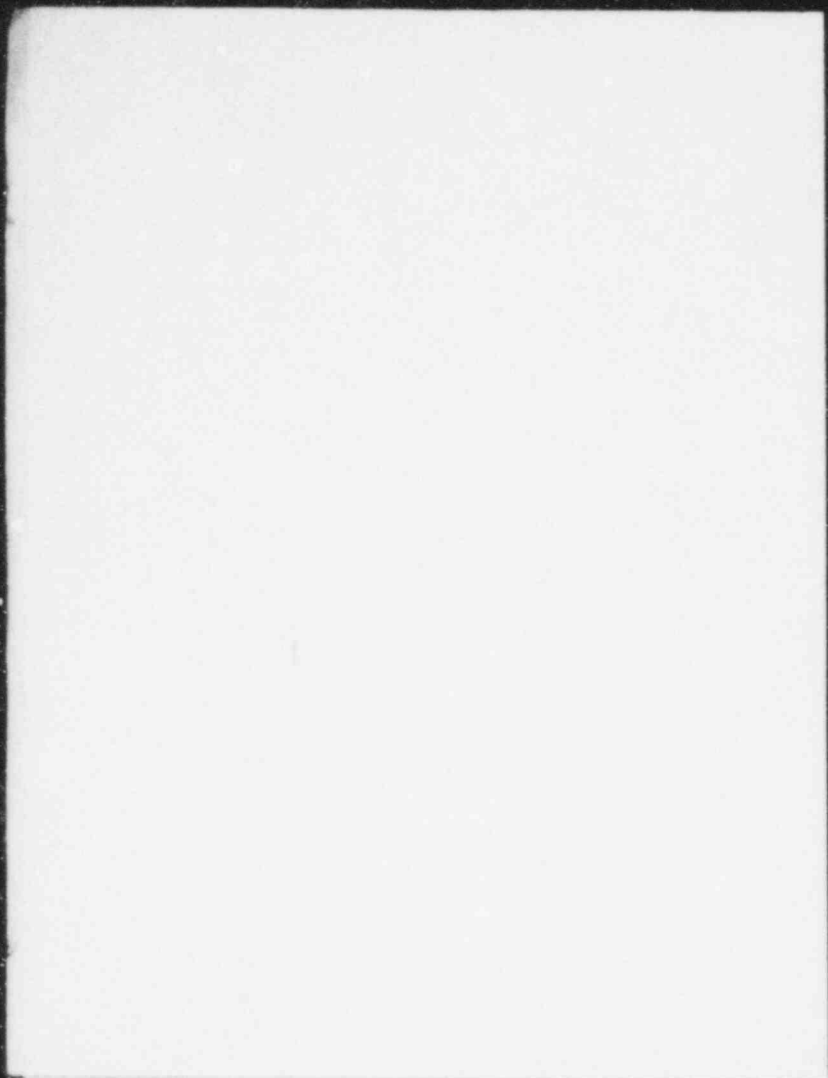
2 years - Experimenter, 68 Mev Linear Accelerator, Univ. of Minnesota
1 year - Lab technician, Dr. A.O.C. Nier's Mass Spectrographic Laboratory

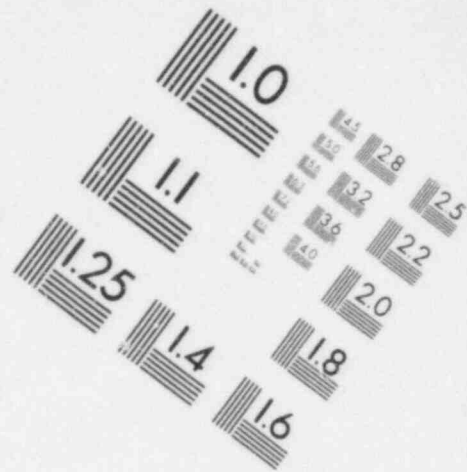
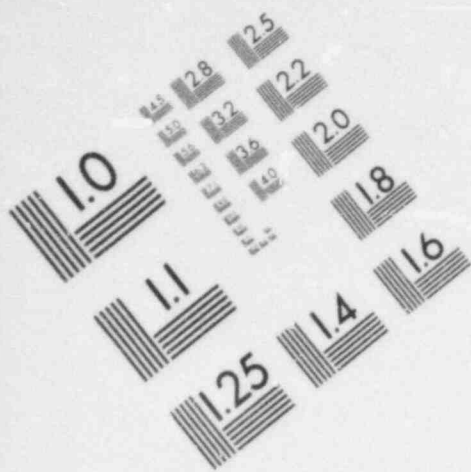
7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO X Active X Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

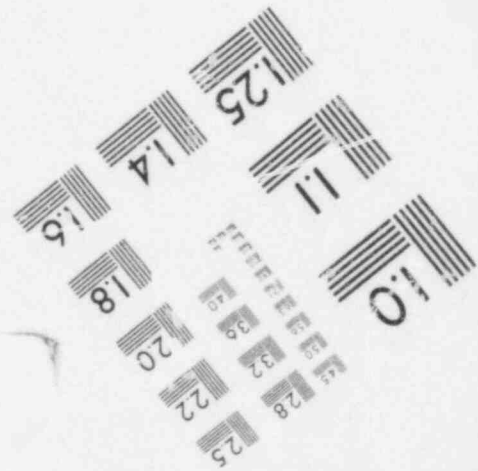
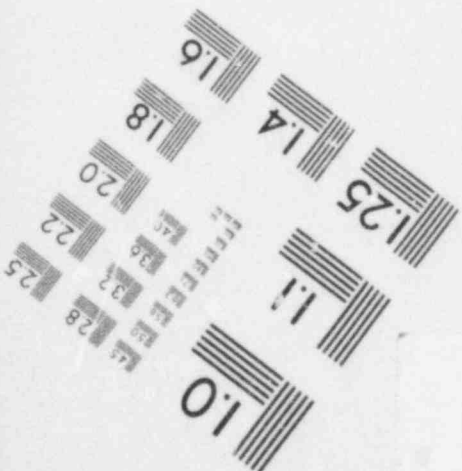
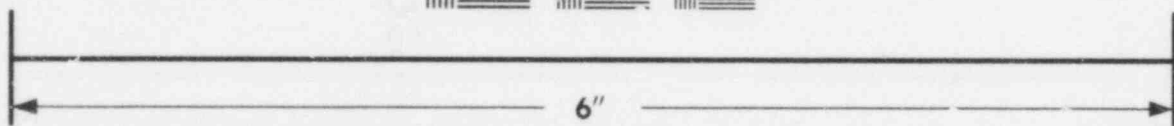
2.3 -67

763 360





**IMAGE EVALUATION
TEST TARGET (MT-3)**



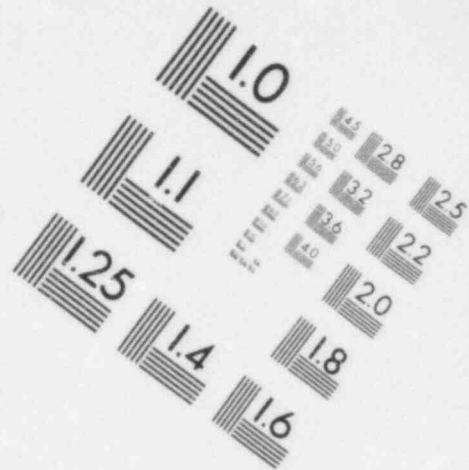
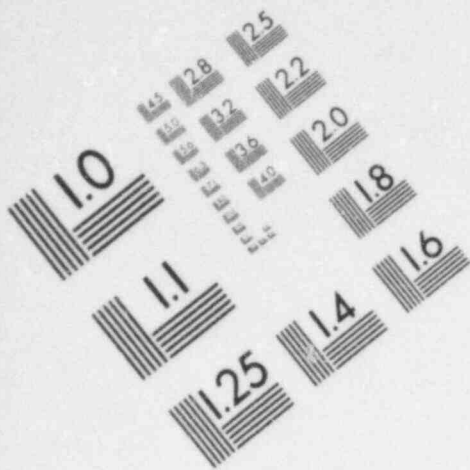
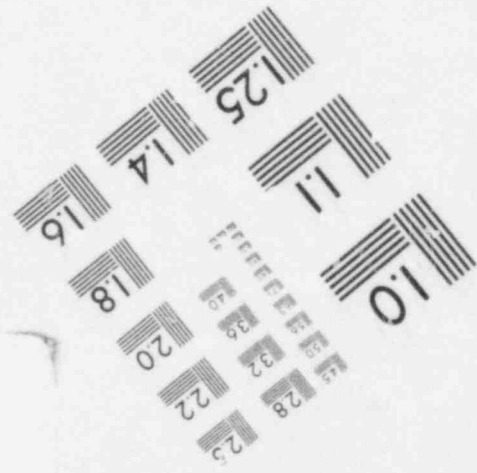
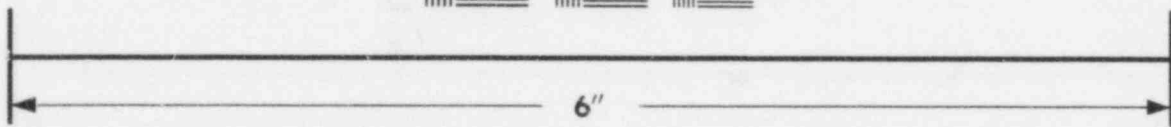


IMAGE EVALUATION
TEST TARGET (MT-3)



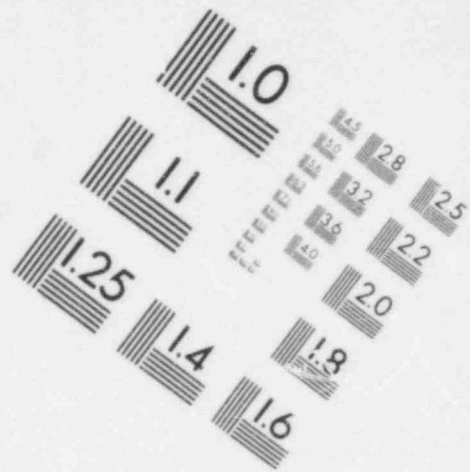
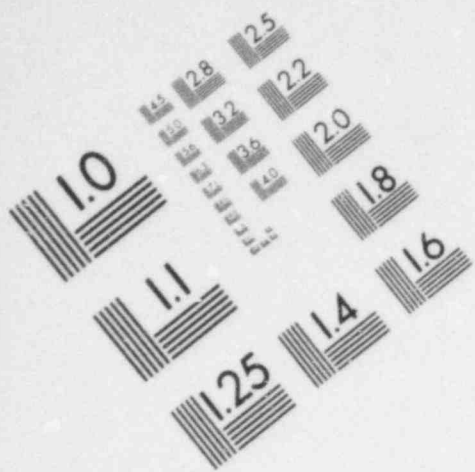
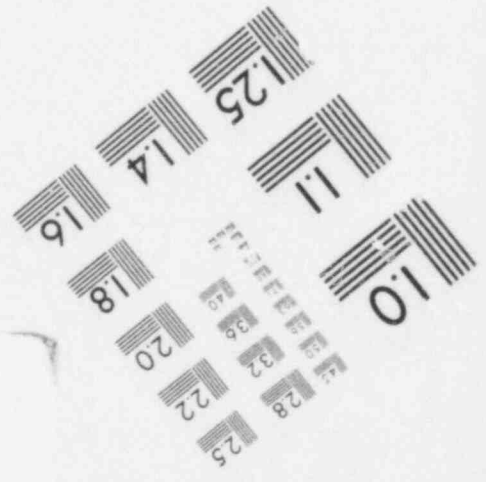
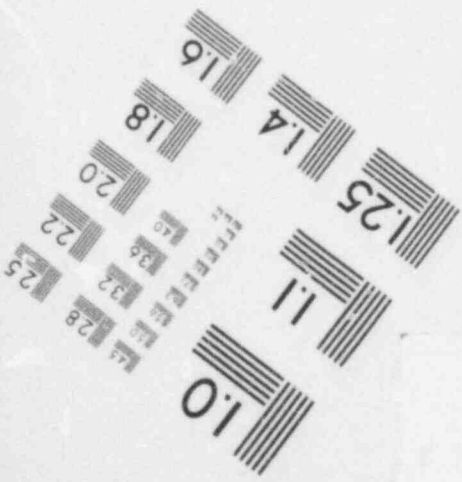
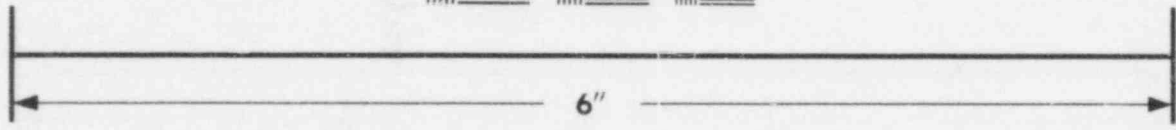
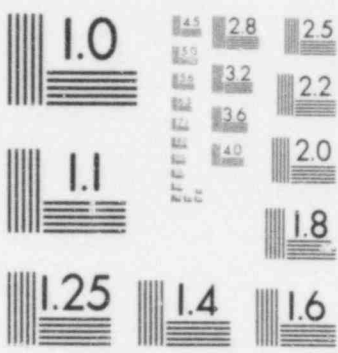


IMAGE EVALUATION
TEST TARGET (MT-3)



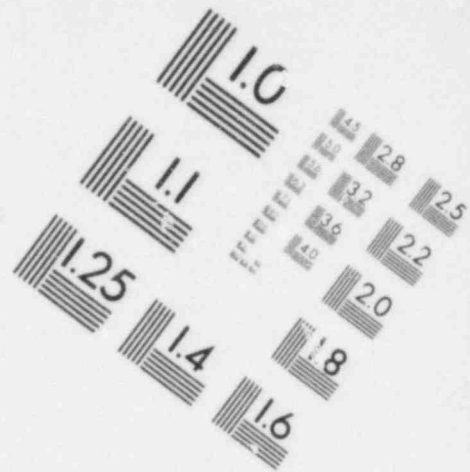
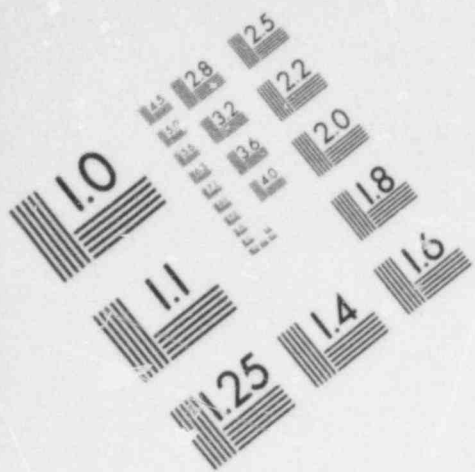
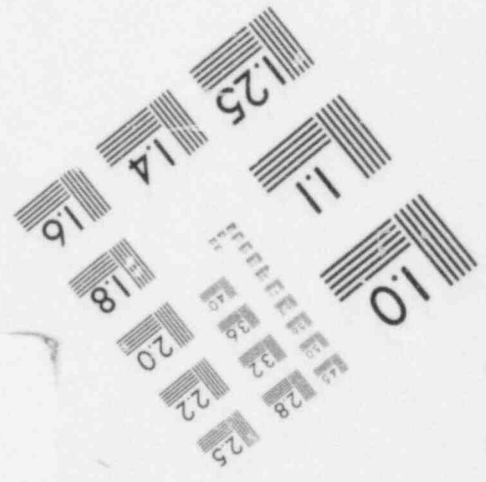
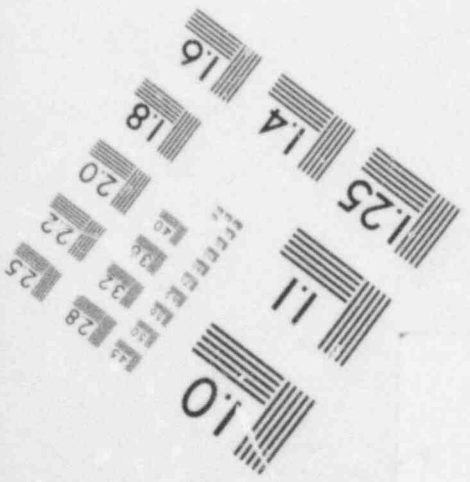
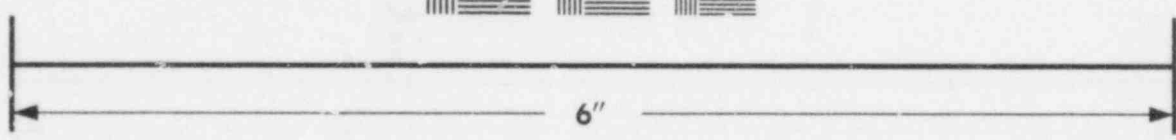
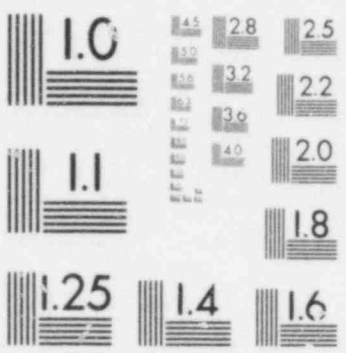


IMAGE EVALUATION
TEST TARGET (MT-3)



1. NSP Department or Plant 0480 Prairie Island 1979

2. Name Franklin W. Shaffer

3. Title Instrument & Control Spec.

4. Education

a. Degrees _____ Major _____

2 Year Trade School

Electronics

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. nuclear experience BWR _____ PWR 7 yrs

PI - ISC

c. A/E, vendor or other nuclear experience

13 years Graphite moderated plutonium production nuclear reactors

3 years nuclear fuel fabrication facility

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-68

764 001

1. NSP Department or Plant Prairie Island

2. Name David J. Silvers

3. Title Associate Production Engineer

4. Education

a. Degrees BSEE

Major Electrical Engineering

b. Other Nuclear Education

NUS Corporation course Nuclear Power
3 qtrs. Reactor Theory - Univ. of Mn.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X

NSP - PI 6 yrs - engineering
NSP - PI 24 yrs - Quality Assurance

c. A/E, vendor or other nuclear experience

~~None~~

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

NSP - Riverside - 20 months - engineering

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-69

764 002

1. NSP Department or Plant PI

2. Name KEN SLINGSBY

3. Title ENGINEER

4. Education
a. Degrees BS Major EEE

b. Other Nuclear Education
WALT:3 MILL/SAXTON 1969-1970

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
NONE

b. Utility nuclear experience BWR PWR
1970-PRESENT

c. A/E, vendor or other nuclear experience
NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
4 MONTHS AT NSP-RIVERSIDE COAL PLANT

b. Other
COMPUTER TRAINING FOR W-P250

7. NRC operator licenses held

a. BWR: 3 NONE RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor: RO SRO Active Expired

2.3-70

764 003

1. NSP Department or Plant Prairie Island Nuclear Generating Plant
2. Name Allen D. Smith
3. Title Production Engineer
4. Education.
- a. Degrees BSME Major Mechanical Engineering
Registered Professional Engineer, State of Minnesota
- b. Other Nuclear Education
 Principles of Radioisotope Methodology (9-1-69 to 2-1-70) Pathfinder Atomic Plant training. Nuclear Power Engineering course (4-15-69 to 6-15-69) University of Minnesota. Completed NSP Basic Nuclear Course Phases I, II, III (6-12-70 to 9-25-70) Piping Design and Fabrication per ASME Boiler and Pressure Vessel Code, Section III, technical seminar
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR X PWR X
 Pathfinder Atomic Plant (9-1-69 to 2-1-70) General Nuclear Orientation Prairie Island Nuclear Generating Plant, Units 1 & 2 (9 yrs, 8 mos) Participated in the entire area of construction, pre-operational, hydro-flush, hot functional and startup testing, procedure preparation and review.
- c. A/E, vendor or other nuclear experience
 CES and Waltz Mill training (6-15-70 to 8-7-70) Group Loading and Individual Training. Westinghouse Design Lecture Services (9-28-70 to 10-30-70) Design of all NSSS systems. Foxboro School (3-22-71 to 4-2-71) Foxboro instrumentation training. Indian Point Simulator - July 1976. Sequoah Simulator - August 1978.
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
 Engineering Intern Program, NSP Riverside, Black Dog and King Steam Plants, Chestnut Service Center laboratories and Power Production department - General Office.
- b. Other
 Completed American National Red Cross Standard First Aid Course 7-22-76
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO X Active X Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-71

764 004

1. NSP Department or Plant PRAIRIE ISLAND

2. Name DANIEL L. STEMBER

3. Title ENGINEER

4. Education

a. Degrees BS Major CIVIL ENGR

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR 9MPS
RAD WASTE SYSTEM ENGINEER

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
4 YRS - DESIGN OF TRANSMISSION STRUCTURES

b. Other
20 YRS - STRUCTURAL DESIGN

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND NUCLEAR PLANT
2. Name RODNEY A. STENROOS
3. Title ASS'T SUPT. OF RADIATION PROTECTION

4. Education
a. Degrees B.S. Major CHEMICAL ENGINEERING

b. Other Nuclear Education
1) Courses in Radiation Protection
2) Seven Day Hot License Certification
3) SRO TRAINING AT PINGP

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR

6 years at Prairie Island in the radiation protection group.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant Prairie Island Nuclear
2. Name Ben Stephens
3. Title Associate Production Engineer
4. Education
 - a. Degrees BChE Major Chemical Eng University of Minn.
 - b. Other Nuclear Education
Newell Nuclear Power School and Prototype at Vallejo Ca and Idaho Falls Idaho
Presently enrolled in University of Minnesota Graduate School for a Masters of Mechanical Engineering
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
5 years Division Officer, Reactor Control, Auxiliary, Electrical and Mechanical Divisions; Engineering Officer of the Watch and Engineering Duty Officer.
 - b. Utility nuclear experience BWR _____ PWR
3 years 6 months Production Engineer.
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO Active Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-74

764 007

1. NSP Department or Plant Prairie Island

2. Name G. C. SUNDBERG

3. Title INSTRUMENT ENGINEER

4. Education

a. Degrees BSEE
MSEE

Major Electrical Engineering
Electrical Engineering

b. Other Nuclear Education

Prairie Island SRO Training
PWR Hot License Certification, Sequoyah

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR PWR X

Prairie Island engineering staff since Oct, 1973

c. A/E, vendor or other nuclear experience

Attended Westinghouse Rod Control School

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

POOR ORIGINAL

b. Other

Honeywell Inc 1968 - 1972, Electronics Development
Rosemount Inc 1973, Instrumentation Design

7. NRC operator licenses held

a. BWR: RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor: RO SRO Active Expired

2.3-75

764 000

1. NSP Department or Plant Prairie Island
2. Name Don A. Swenson
3. Title I&C Specialist
4. Education
 - a. ~~Degrees~~ Diploma Major Electronic Eng. Tech.
 - b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR
Prairie Island seven years

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

- | | | | | |
|---------------------------------------|----------|-----------|--------------|---------------|
| a. BWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| b. PWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| c. Critical Facility or Test Reactor: | RO _____ | SRO _____ | Active _____ | Expired _____ |

2.3-76

764 009

1. NSP Department or Plant Prairie Island Nuclear Generating Plant

2. Name F. Patrick Tierney, Jr.

3. Title Plant Manager

4. Education
a. Degrees B. Chem Engr (5 yrs) Major _____
U of Minn - 1957 _____

b. Other Nuclear Education
1. Special course in Nuclear Reactor Engineering - Univ of Minn by Professor H. S. Isbin
2. Westinghouse Reactor Operator Training Course - 1 year at Waltz Mill and Saxton Pennsylvania - 1968-69.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR 10 yrs
- Completed a nine month training assignment at the Saxton Reactor of G.P.U. and passed an AEC Reactor Operators Exam on the facility.
- Have acted as Plant Supt/Mgr at the Prairie Island Nuclear Plant since the Department was established in 1968.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
- 4 1/2 yrs as Shift Supervisor/Process Engineer at a Chemical Mfg Plant.
- 8 yrs as Plant Engineer in NSP coal fired plants, including responsibilities in the start up operation of a 230 MW Drum Boiler and a 600 MW Supercritical Unit.
b. Other - Registered Professional Engineer in the State of Minnesota
- 4 yrs as a member of the Nuclear Power Subcommittee of EEI Prime Movers. Currently Chairman of the Subcommittee.
- Current member of the offsite Nuclear Safety Review Committee of Kewaunee Nuclear Plant.
- Current NSP representative in the Westinghouse - TMI Owners Study Group.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO X SRO _____ Active _____ Expired X
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PRAIRIE ISLAND

2. Name PETER A. VALTAKIS

3. Title SHIFT SUPERVISOR

4. Education

a. Degrees HIGH SCHOOL Major CONCRETE TECH

b. Other Nuclear Education

U.S. NAVY NUCLEAR POWER SCHOOL - MARINE ISLAND/AIW - 1963
NSP, PRAIRIE ISLAND, COLD SEWION LICENSEE TRAINING PROGRAM - 1970-72

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

8 YEARS. QUALIFIED R.O. @ AIW, 55W @ 53G.
QUALIFIED S.M.A.W. @ 55W @ 53G
QUALIFIED E.O.O.W. @ 53G
TRAINING COORDINATOR @ 53G

b. Utility nuclear experience BWR _____ PWR X

9 YEARS, PRAIRIE ISLAND, NSP.
PRE-OP TESTING, INITIAL CRITICALITY, PLANT OPERATIONS. (2 UNITS)

c. A/E, vendor or other nuclear experience

NO ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

NONE

b. Other

SUBMARINE QUALIFICATION, U.S. NAVY.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO X Active X Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-78

764 011

1. NSP Department or Plant Prairie Island Nuclear Generating Plant
2. Name William R. Waldron
3. Title Instructor
4. Education
 - a. Degrees N/A Major _____

 - b. Other Nuclear Education
 United States Navy Nuclear Power School - Bainbridge, Md.
 Nuclear Power Training Unit - Windsor Locks, Connecticut
 Prairie Island Nuclear Plant - Senior Reactor Operator Training and License
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 Qualified Mechanical Operator on USS Enterprise with 15 months as Chief Mechanical Operator. Six years in nuclear navy.
 - b. Utility nuclear experience BWR _____ PWR x
 Apprentice Plant Attendant for two years involving out plant operations.
 Assistant Plant Equipment Operator for 18 months involving plant operations.
 Reactor Operator for two years working in the control room.
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: Prairie Island RO _____ SRO X Active X Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-79

764 012

1. NSP Department or Plant 0480 PRAIRIE ISLAND NUC GEN PCT.

2. Name DONNELL V WALKER

3. Title SHIFT SUPV

4. Education HIGH SCHOOL

a. Degrees _____ Major _____

b. Other Nuclear Education

NSP TRAINING PROGRAM
SEQUOYA SIMULATOR
ZION SIMULATOR

① NRC LICENSE REVIEW SERIES
NSP BASIC NUC COURSE
TRAINING AT WALTERS MILL
② DESIGN LECTURE SERIES
NSA-PI SRO TRAINING
③ SYS TRAINING

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR

NORTHERN STATES Power Co
PRAIRIE ISLAND NUC PLANT OPERATION - 9 YR.

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

FIRST AID (NSP) FIRE BRIGADE TRAINING (NSP)
GEORGIA POWER CO - SUB-STATION MAINT - 2 YR.

NORTHERN STATES Power Co - FOSSIL PLANT OPERATION - 2 YR.

b. Other NSP PRIDE SUPV COURSE: PRIDE modules.

US ARMY - COMMUNICATIONS

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO Active Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

2.3-80

764 013

1. NSP Department or Plant PRAIRIE ISLAND

2. Name EDWARD L. WATZL

3. Title P.T. SUPT. ENGR. + RAD. PROT.

4. Education

a. Degrees BA
MS
MPH

Major GEOLOGY
RADIOLOGICAL HEALTH
PUBLIC HEALTH

b. Other Nuclear Education

AEC FELLOWSHIP SUMMER PROGRAM AT N.R.T.S
IDMHO, FALLS . NSP SRO TRAINING.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 3 PWR 9 YEARS

POOR ORIGINAL

c. A/E, vendor or other nuclear experience

2 YEARS STATE RADIOLOGICAL HEALTH

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

U.S. NAVY - 2 YEARS CARRIER ESSEX CUA-9

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO Active Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired 764

1. NSP Department or Plant PRAIRIE ISLAND

2. Name T. J. Williams

3. Title ITC Specialist

4. Education
a. Degrees NONE Major _____

b. Other Nuclear Education
NONE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear or related military nuclear experience
NONE

b. Utility nuclear experience BWR _____ PWR X
9 YEARS ITC

c. A/E, vendor or other nuclear experience
NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NA

b. Other
NA

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.0 Technical Resources (off-site)

3.1 Summary

3.0 Technical Resources (off-site)

3.1 Summary

The off-site technical resources are listed only for those three NSP departments that have line operating responsibility or provide technical support on a continuing basis for the nuclear generating plants. The resource personnel from these departments include Engineers, Chemists, Scientists and other categories of Professional-Technical personnel who have been associated with nuclear plant activities for NSP or during prior employment.

There are several other departments within NSP with Professional-Technical personnel that provide intermittent services for the nuclear plants. Personnel from these departments would be available in an emergency to provide support in their areas of expertise.

The Protection & Electrical Maintenance Department regularly provides services to NSP generating plants in the following areas: non-radiological water chemistry analysis; physical examination of test welds for welder qualification; trouble-shooting, calibration and maintenance of electrical relays and controls; testing and maintenance of circuit breakers and transformers; and HEPA and charcoal filter testing (DOP and Freon).

The Environmental Regulatory Activities Department has a number of Professional-Technical personnel and Scientists engaged in ecological and non-radiological sampling, monitoring, evaluation and reporting activities.

The NSP External Communications Department has responsibility for communication with all media services in the NSP operating area. As a part of these responsibilities, personnel in this department have periodic contacts with NRC Public Information personnel in the I&E Regional Office.

There are also a number of Professional-Technical personnel scattered throughout NSP in supervisory and administrative positions who have significant nuclear plant operating or engineering experience for the Monticello and Prairie Island plants who could be called upon for additional support in the event of a nuclear plant emergency.

Assuming the above resource personnel can be reached at work or at home by telephone, they would be able to respond in an emergency and be available at the Monticello or Prairie Island Plant sites within a few hours. In addition to these NSP off-site resources, NSP has a number of open contracts or agreements with consulting firms or individual consultants for professional services. These consultants are used for design activities,

3.1 Summary (continued)

engineering analyses, independent review and audit, and other consulting services for nuclear plants. Specialists covered by these agreements should be able to respond in an emergency within 12-36 hours, depending on their location. Listed below are the more important consultants covered by professional service contracts:

Vendors

- Exxon Nuclear Company
- General Electric Company
- Westinghouse Electric Company

Architect/Engineers

- Bechtel Power Corporation
- Fluor Power Services

Nuclear Consulting Services

- Nuclear Associates International
- Nuclear Services Corporation
- NUTECH Corporation
- NUS Corporation

Individual Consultants

- Joseph A Thie - Nuclear Engineering
- Dr George E McVehil, CCM - Meteorology

3.2 Power Production

3.2.1 Organization Diagram

3.2.2 Personnel Resume's



*For Plant Staff See Individual Organizational Diagram

020

GENERAL MANAGER
POWER PRODUCTION
D. E. Gilberts

GEN. SUPT.
CONVENTIONAL PLANTS
D. D. Bohn

PLANT MANAGER
BLACK DOG
Neudauer
Plant Staff 121*

PLANT MANAGER
HIGH BRIDGE
F. Dinville
Plant Staff 164*

PLANT MANAGER
KING
D. Petersons
Plant Staff 98*

PLANT MANAGER
OVERSIDE
Youngdahl
Plant Staff 169*

PLANT MANAGER
BURNE COUNTY
R. Tacheny
Plant Staff 252*

PLANT MANAGER
STEAM PEAKING & HYDRO
E. E. Crossett

PLANT SUPERINTENDENTS
G. A. Hoepner - Red Wing Plant Staff 17*
W. E. Lundquist - St. Anthony - Plant Staff 9*
R. T. McCaughan - Pathfinder - Plant Staff 18*
O. H. Rude - Minn. Valley Plant Staff 19*
R. J. Schmidt - French Island Steam Plant Staff 12*
B. O. Theissen - Wilmarth Plant Staff 19*

PLANT MANAGER
COMBS. PEAKING & GAS PRODUCTION
G. T. Olson

PLANT SUPERINTENDENTS
E. G. Chilton - Wescott Plant Staff 25*
J. E. Guertin - Blue Lake - Diesels - Plant Staff 17*
D. H. Halley - W. Faribault Chem. - Plant Staff 19*
R. J. Schmidt - French Island GT - Plant Staff 12*
J. V. Tepe - Wheaton Plant Staff 18*
B. O. Theissen - Key City Plant Staff
D. D. Day - Granite City Plant Services - Supervisor

GEN. SUPT.
PRODUCTION PLANT PROJECTS
E. J. Cramolini

SUPERINTENDENT
NUCLEAR PLANT PROJECTS

PROD. PROJ. ENGR.
J. F. Swedberg

ASST. PROD. PROJECT ENGINEERS
D. W. Krech

SUPERINTENDENT
CONV. PLANT PROJECTS
W. L. Leno

PRODUCTION PROJ. ENGINEER
D. R. Swanberg

SUPERINTENDENT
ELEC. PLANT PROJECTS
J. M. Suttor

PRODUCTION PROJ. ENGINEER
R. L. Anderson

ASST. PRODUCTION PROJECTS ENGINEER
M. A. Kraemer

SUPERINTENDENT
PROJECT CONST.
J. G. Bollensen

CRAFT LABOR
150 TO 250

GEN. SUPT.
PRODUCTION PERF. & SERV
A. J. Bauman

ADMINISTRATOR
PROD. BUD. & SERVICES
R. O. Berg

SENIOR POWER PRODUCTION STAT.
C. D. Hadley

ADMIN. SPEC. A
N. L. Kussmann

RECORDS CLK. A
J. S. Graves

MAT. & EQUIPMENT SPEC. A
S. A. Boerger

ADM. AID A
K. A. Carlson
G. I. Gehlen

ADM. AID B
E. A. Meade

RECORDS CLERK SR.
E. M. Triemert

SUPERINTENDENT TRAINING
G. D. Wright

SUPERVISOR TRAINING
E. Wiens

POWER PROD. TRAINING COORDINATORS
R. C. Emerson
P. R. Engler
W. J. Hansen
M. E. Opem

SUPERINTENDENT PROD. PERFORMANCE
W. T. Gleason

POWER PRODUCTION STATISTICIAN
W. C. Anderson

BENEFIT - OTHER ENGINEER INTERNS

POOR ORIGINAL

764 021

1. NSP Department or Plant Tyrone Task Force
2. Name Leslie L. Anderson
3. Title Production Engineer
4. Education
- a. Degrees Bachelor Major Mechanical Engineering
- b. Other Nuclear Education
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR PWR X
- 1975-1978 - Prairie Island Nuclear Plant
1978-1979 - Tyrone Task Force
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- NSP, 1969-1971: Riverside, Black Dog
- b. Other
7. NRC operator licenses held
- a. BWR: RO SRO Active Expired
- b. PWR: RO SRO X Active X ? Expired
- c. Critical Facility or Test Reactor: RO SRO Active Expired

RESUME

POSITION: Associate Production Engineer

NAME: Leslie Anderson

BIRTH DATE, AGE: March 2, 1949, Age-29

BUSINESS ADDRESS: Northern States Power Company
Prairie Island Nuclear Power Plant
Rural Route 2
Welch, MN 55089

PRIOR EMPLOYER: U. S. Navy

August, 1971

Received Bachelor of Mechanical Engineering Degree, with distinction, from the University of Minnesota. Prior to graduation, worked as an intern engineer with NSP.

September, 1971

Hired by NSP as an Engineer and was assigned to the Results Engineering Staff at the Black Dog Steam Generating Plant.

January, 1972

Attended U.S. Navy officer Candidate School, Newport, Rhode Island.

May, 1972

Commissioned in U.S. Navy. Assigned USS Epperson (DD-719), Pearl Harbor, Hawaii as Electronics Maintenance Officer.

August, 1973

Reassigned to CINCPAC Headquarters Telecommunications Center, Camp H. M. Smith, Hawaii

April, 1975

Discharged from U.S. Navy.

Hired by NSP as an Engineer at Prairie Island Nuclear Plant assigned to Technical Group. Principal responsibilities included serving as backup computer engineer.

April, 1976

Transferred to Engineering Operations group at Prairie Island. Responsibilities included preparation and monitoring of surveillance and maintenance procedures and providing technical support to the Maintenance and Operations Departments on assigned plant systems. Assigned plant systems included Reactor Coolant System, Reactor Coolant Pumps, Safety Injection, Containment Spray and Chemical and Volume System. Responsible

also for construction activities involving remodeling or additions to the plant buildings.

November, 1977

Began intensive training in operation of the Prairie Island Plant with the goal of an NRC Senior Operator's License.

April, 1978

Attended seven days of operator training at the Indian Point Nuclear Plant Simulator, Peekskill, New York. This included "hands on" training on a large PWR simulator. The training was conducted by Con. Ed. instructors according to an established training and examination schedule.

June, 1978

Received an NRC Senior Operator License

Transferred to the Tyrone Energy Park Task Force. Responsibilities include the preparation of generic operating procedure for the Tyrone Plant.

764 024

1. NSP Department or Plant Power Production
2. Name Ray W. Anderson
3. Title Gen Supt Production Plant Maintenance
4. Education
 - a. Degrees B.S. Major M.E.

 - b. Other Nuclear Education
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR _____ PWR _____
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 22.5 years operation and maintenance
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
 or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.2-6

764 025

1. NSP Department or Plant Power Production Department

2. Name Roger O. Anderson

3. Title Superintendent Core Analysis

4. Education

a. Degrees BSNE

Major Nuclear Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 8 PWR 0

8 years total experience in nuclear plant operation and nuclear fuel management

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

2 years coal plant results engineer

b. Other

7. NRC operator licenses held

a. BWR: RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor: RO SRO Active Expired

1. NSP Department or Plant Power Production
2. Name Clifford A. Bonneau
3. Title Associate Nuclear Engineer
4. Education
- a. Degrees B.S. Major Nuclear Engineer
- b. Other Nuclear Education
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR X FWR X
Core analysis experience in both BWR & PWR. 4 Years
- c. A/E, vendor or other nuclear experience
B&W in the plutonium recycle unit for 2 years
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- b. Other
7. NRC operator licenses held
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production Department

2. Name Donald J. Brosche

3. Title Assoc. Matls. & Special Processes Engr.

4. Education

a. Degrees BS Major Metallurgical Engr.
MSE Materials Engr.

b. Other Nuclear Education (Directly related to job at NSP):

- (1) Several materials (included nuclear materials) courses (Part-time) - R.I.I.; & Ohio St. U. (2) Level II PT & MT exam at H.A.V.T.I. (1 week)
 - (3) Seven full-time months in Welding Engr (including Nondestructive exam) at Ohio St. U. (4) Ultrasonic Exam (Level II) - (1 week) - Krautkramer Co.
 - (5) Welder training (several weeks) - Hobart Co. (6) Piping Design & Fabrication - Tech seminars Co. (1 week).
5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Civilian at Knolls Atomic Power Lab. - nuclear Navy materials & irradiation effects (about 2 years)

b. Utility nuclear experience BWR x PWR x

3 years supporting plants on welding, metallurgy & inservice inspection.

c. A/E, vendor or other nuclear experience

5½ years with Bechtel and with Stone & Webster, mostly supporting nuclear projects. Included 6 months at Nuclear Plant Construction Site.

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

--

b. Other

1 year at Battelle Memorial Institute testing special materials, including irradiated materials in hot cell.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production

2. Name Gerard T. Goering

3. Title Supt. Nuclear Operational Services

4. Education
a. Degrees B.S. Major Mechanical Engineering

b. Other Nuclear Education
SRO training - Pathfinder Nuclear Plant
Westinghouse SRO Training Program
Prairie Island SRO Training Program

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X
2 years experience at Pathfinder - BWR
6 years experience at Prairie Island - PWR

c. A/E, vendor or other nuclear experience
2 years of staff work interfacing operating nuclear plants with the utility general office

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
3 years of coal plant experience

b. Other
1 year of chairman of a multi-utility committee that is preparing operating procedures for the SNUPPS plants

7. NRC operator licenses held

a. PWR: Saxton	RO	<u>X</u>	SRO	_____	Active	_____	Expired	<u>X</u>
b. PWR: Prairie Island	RO	_____	cold SRO	<u>X</u>	Active	_____	Expired	<u>X</u>
c. Critical Facility or Test Reactor:	RO	_____	SRO	_____	Active	_____	Expired	_____

7/16/79

RESUME

POSITION: Superintendent Nuclear Operational Services

NAME: Gerard T. Goering

BIRTH DATE, AGE: September 15, 1940, Age - 38

BUSINESS ADDRESS: Northern States Power Company
414 Nicollet
Minneapolis, MN 55401

PRIOR EMPLOYERS: None

1963 Graduated from Iowa State University with a
B.S. degree in Mechanical Engineering.

June, 1963 Started with NSP as a member of the Results
Group at the High Bridge Plant. Attended a
course in nuclear engineering offered by the
University of Minnesota. Instructed courses in
steam power engineering at Dunwoody Institute.

June, 1966 Transferred to the Fargo Plant as Results Engineer
for the Fargo, Grand Forks, and Minot Steam Plants.

June, 1967 Transferred to the Pathfinder plant Results
Group. Participated in core component inspections
following shutdown of the reactor plant. Received
nuclear operations training at the plant.

January, 1969 Assigned to Prairie Island as Plant Results Engineer.
Attended the 9-month Westinghouse Reactor Training
School at Waltz Mill and Saxton, Pennsylvania.
Received an AEC Reactor Operator's License on the
Saxton reactor.

May, 1970 Observed five weeks of large PWR operation at the
RE Ginna Plant.

September, 1970 Completed Phase III (8 weeks) of an NSP basic
Nuclear Course.

September, 1970 Began a 6 week Westinghouse Design Lecture Series
at Pittsburgh, Pennsylvania. This was a series of
lectures by the designers of the Prairie Island
Nuclear Steam Supply system.

- December, 1970 Began working at the Prairie Island site along with the rest of the plant Operating Department. Principal activities were:
- (a) Supervision of the Operating Department's Engineering staff.
 - (b) Writing and reviewing operating and pre-operational test procedures.
 - (c) Participation in additional plant system training through classroom work and plant walk-throughs.
 - (d) Instructor for NSP staff engineers and plant operators covering plant systems and nuclear operating theory.
 - (e) Represented the Operating Department on the Joint Test Group that approved all pre-operational test procedures and results of all pre-operational tests.
 - (f) Member of the site Nuclear Safety Review Committee responsible for the review of all operational and testing activities that could effect nuclear safety.
- February, 1973 Attended seven days of operator training on the Zion Plant simulator at Zion, Illinois. This included "hands on" training on a large PWR simulator. The training was conducted by Westinghouse instructors according to an established training and examination schedule.
- March, 1973 Promoted to Superintendent Engineering and Radiation Protection. This position was responsible for supervision of all Operating Department Technical Support. This consisted of chemistry, radiation protection, instruments and controls, Computer, Nuclear, System Engineering and quality assurance.
- May, 1973 Became chairman of the Phase III test committee that approved all test procedures and test results for fuel load, reactor testing and power escalation to 100% power.
- July, 1973 Received an AEC Senior Reactor Operator's License for the Prairie Island Nuclear Generating Plant.

- September, 1973 Named Principal Assistant to the Plant Manager.
- June, 1976 Transferred to the General Office to present position. This position interfaces both of NSP's nuclear plants with the rest of the company in order to coordinate nuclear plant operations, maintenance and special requirements effectively.
- January, 1978 Additional responsibility was assumed for supervision of the Tyrone Operations Task Force. Primary responsibility is writing operating procedures for the Tyrone Nuclear Plant. Also, presently serving as Chairman of the SNUPPS Procedure Development Group. This group's responsibility is to review and approve all operating procedures that are being written as part of the SNUPPS effort by the member utilities.

1. NSP Department or Plant Tyrone Task Force
2. Name John E. Goldsmith
3. Title Senior Production Engineer
4. Education
- a. Degrees B.S. Major Electrical Engineer
- b. Other Nuclear Education
- Graduated from Westinghouse Reactor Operator Training Program
 Received R.O. license on Saxton Reactor
 Attended specialized course on Reactor Protection and Control System
 Attended Zion Simulator Training School
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
- b. Utility nuclear experience BWR PWR X
1. 1969-1975: Prairie Island Staff - I & C Engineer and Technical Engineering Supervisor
2. 1978 - present: Group leader in procedure writing for Tyrone Nuclear Plant
- c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
- 1968-1969: High Bridge Coal Plant - Junior Engineer
 1976-1978: Rate Research Department - Studied alternative rate structures to promote conservation and load management
- b. Other
7. NRC operator licenses held
- a. BWR: RO SRO Active Expired
- b. PWR: RO SRO X Active Expired X
- c. Critical Facility or Test Reactor: RO SRO Active Expired

RESUME

POSITION: Senior Production Engineer

NAME: John E Goldsmith

BIRTH DATE, AGE: December 15, 1944, Age 34

BUSINESS ADDRESS: Northern States Power Company
Prairie Island Nuclear Plant
Rural Route 2
Welch, MN 55089

February, 1968

Graduated from Iowa State University with a B.S. degree in Electrical Engineering. Prior to graduation, worked as an engineer assistant for the U.S. Army Corps of Engineers.

March 1968

Hired by NSP as a Junior Engineer and assigned to the Results Engineering staff at the High Bridge Steam Generating Plant.

April, 1969

Assigned as Engineer, Instruments to the Prairie Island Nuclear Generating Plant and received specialized training in preparation for the responsibilities of this position.

April, 1969

Began an NSP sponsored math and physics review course in preparation for a Westinghouse Reactor Operator Training Program.

May, 1969

Began a 9 month Westinghouse Reactor Operator Training program. The program included 2 1/2 months at Waltz Mill, Pennsylvania covering reactor control theory and operation of the CES Training Reactor and 6 months of PWR power reactor operating experience at Saxton after which an AEC Reactor Operating License on the Saxton was earned.

February, 1970 Began a 3 month specialized course at Pittsburgh, Pennsylvania and Foxboro, Massachusetts, on reactor protection and control systems.

May, 1970 Observed 3 1/2 weeks of large PWR operation at the RE Ginna Plant.

September, 1970 Completed Phase III (8 weeks) of an NSP Basic Nuclear Course.

September, 1970 Began a 6 week Westinghouse Design Lecture Series at Pittsburgh, Pennsylvania. This was a series of lectures by the designers of the Prairie Island Nuclear Steam Supply System.

December, 1970 Began working at the Prairie Island site along with the rest of the plant operating department. Principal activities were:

- (a) Direct supervision of the Instrument and Control Specialists in the conduct of Construction and Pre-operational testing
- (b) Writing and reviewing operating and pre-operational test procedures
- (c) Participation in additional plant system training through classroom work and plant walk-throughs
- (d) Instructor for NSP staff engineers and plant operators covering plant reactor protection and control systems and plant electrical systems

March, 1971 Attended a two-week Foxboro Instrumentation School at Red Wing, Minnesota

February, 1973 Attended seven days of operator training on the Zion Plant Simulator at Zion, Illinois. This included "hands on" training on a large PWR simulator. The training was conducted by Westinghouse Instructors according to an established training and examination schedule

March 1973 Promoted to Plant Engineer Technical. In this position was responsible for the supervision of the nuclear engineering section, the instrument and control section and the computer engineering system.

July, 1973 Received an AEC Reactor Operator's License for the Prairie Island Nuclear Generating Plant.

January, 1974 Received an AEC Senior Operator's License for the Prairie Island Nuclear Plant.

January, 1976 Assigned to the Rate Research Department at Northern States Power Company as a Senior Rate Engineer. Principal activities were:

- (a) Responsible for preparing jurisdictions and class production and energy allocation factors.
- (b) Responsible for preparing rate structure, and economic and conservation impact studies for the NSP-Minnesota Public Service Commission Advisory Panel on Peak Load Pricing Alternatives.
- (c) Responsible for rate design and cost studies for rate cases under Federal Power Commission Jurisdiction.

April, 1977 Passed Minnesota EIT test and recorded as Electrical Engineering in training.

April, 1978 Passed the Minnesota professional examination and approved for the registration as a Professional Engineer in Electrical Engineering.

June, 1978 Transferred to the Power Production Tyrone Operations Task Force. Primary responsibility is writing operating procedures for the Tyrone Nuclear Plant.

September, 1978

Registered as a Professional
Engineer in the State of Minnesota.
Registration Number 13502.

February, 1979

Registered as a Professional
Engineer in the State of Wisconsin.
Registration Number E-18302.

1. NSP Department or Plant Power Production Department

2. Name Glas B. Hansen

3. Title Engineer

4. Education

a. Degrees B.S. Major Welding Technology

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 1 PWR 1

Have worked 2 years for NSP, most of this time was spent on Inservice Inspection Activities and Maintenance for NSP.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Was certified by Utah State University as a welder, in a variety of positions, materials and welding processes

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production Department - QA Section

2. Name Theodore E. Harlan

3. Title Operational QA Specialist I

4. Education

a. Degrees _____ Major _____

b. Other Nuclear Education

1. 6 month training program for reactor operator training at San Onofre Nuclear Generating Plant. 1967
2. 9 month Westinghouse Reactor Operators Training Program. 1969
3. Numerous on site training program for cold license on Prairie Island.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

1960-1964: Machinist mate on the USS Hornet (non-nuclear).

b. Utility nuclear experience BWR PWR _____

1967-1969: Plant equipment operator at San Onofre Nuclear Plant.

1969-1977: Shift Supervisor for Prairie Island.

1977-1979: Operational QA Specialist.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1964-1967: Plant equipment and control room operator for Redondo Beach steam station.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO SRO _____ Active _____ Expired

c. Critical Facility or Test Reactor: RO SRO _____ Active _____ Expired

1. NSP Department or Plant Power Production Department

2. Name Paul Kamman

3. Title Supt Nuclear QA

4. Education
a. Degrees _____ Major _____

b. Other Nuclear Education

Navy Nuclear School
Operator Training for RO & SRO

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
4 years Nuclear Navy (PWR) 1960-1964

b. Utility nuclear experience BWR X PWR _____
1964-1970 Dairyland Power Co-op
1970-1975 Vermont Yankee Nuc. Power Corp.

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other
NSP QA Experience 1975 to present

7. NRC operator licenses held

a. BWR: RO X SRO X Active _____ Expired X
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production

2. Name Steven J. Kollmann

3. Title Superintendent Electric Plant

4. Education

a. Degrees B.S.

Major Electrical Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other Nine years of utility experience which included considerable involvement with nuclear plant operation and maintenance in the form of technical support services.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production

2. Name Donald Krech

3. Title Asst Prod Proj Eng

4. Education

a. Degrees B.S. Major Civil Eng

b. Other Nuclear Education
Navy nuclear trg (1 yr)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

1 yr Nuclear trg
5 yrs Qualified to supervise operation & maintenance of navy nuclear reactors

b. Utility nuclear experience BWR _____ PWR X

2 yrs projects section engineer at NSP, primarily design review & procedure review for Tyrone.

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

None

b. Other

None

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production Dept. (0452)

2. Name Phillip J. Krumpo

3. Title Superintendent, Materials & Special Processes

4. Education

a. Degrees B.S.

Major Metallurgical Engineering

b. Other Nuclear Education

Nuclear Reactor Technology (Univ of Minn)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR X PWR X

2½ yrs. - Construction QA Engr. at Monticello

2 yrs. - Acting Quality Engr. at Monticello

4 yrs. - Quality Control Engr. (P.I. & Monticello)

9 mo. - Supt of Materials & Special Processes

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

1 3/4 yrs. - Test Engr. at NSP Testing Lab.

b. Other

None

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.2-24

764 043

1. NSP Department or Plant Power Production

2. Name Laura McCarten

3. Title Engineer

4. Education
a. Degrees BS-NE Major Nuclear Engineering

b. Other Nuclear Education
--

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
--

b. Utility nuclear experience BWR _____ PWR _____
--

c. A/E, vendor or other nuclear experience
--

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
--

b. Other
--

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production Department - QA Section

2. Name Terrence E. McFadden

3. Title Gen. Supt. Operational Quality Assurance

4. Education

a. Degrees BSME Major Mech. Eng'r.

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 8 PWR 5

c. A/E, vendor or other nuclear experience

Nuclear QA - 5 years

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

7 years plant operation & maintenance & testing

b. Other

2 years US Army

5 years Marine plant operation & maintenance

7. NRC operator licenses held

a. BWR: RO _____ SRO x Active _____ Expired x

b. PWR: RO x SRO _____ Active _____ Expired x

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.2-26

764 045

1. NSP Department or Plant Power Division - Power Production Dept.

2. Name Gerald H. Neils

3. Title General Supt Nuclear Plants

4. Education

a. Degrees B.S. Major Elec Engrg

b. Other Nuclear Education

AEC Nuclear Plant Supv. School - Shipping port

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

6 years BWR Pathfinder Design review - Personnel Selection & Training
Pre-Oper and Startup Testing - Regular Operation;
Supervisor of site engineering and I&C Group.

c. A/E, vendor or other nuclear experience

2 years BWR Monticello - Design Review - Personnel Selection
3 years PWR Prairie Island - Design Review - Personnel Selection
8 years Operations Manager - Nuclear Plants
(Monticello-Prairie Island & Operational Core Analysis Section)

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

4 years - Fossil Plant Startup and Operations Engineering

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO x Active _____ Expired x

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO x SRO _____ Active _____ Expired x

1. NSP Department or Plant Power Production

2. Name J. Mike Pappenfus

3. Title Supt Environmental

4. Education

a. Degrees B.S.

Major Chemistry

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR 6 PWR 1
7 - Power Plant: Radiochemistry & Rad Protection

c. A/E, vendor or other nuclear experience

none

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

12 - 7: as indicated above
5: Environmental, Regulatory Compliance; Safety

b. Other

7. NRC operator licenses held None

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.2-28

764 047

RESUME

POSITION: Senior Operations Specialist

NAME: Ray Kenneth Rogers

BIRTH DATE, AGE: October 4, 1930, Age - 47

BUSINESS ADDRESS: Northern States Power Company
Prairie Island Nuclear Plant
Rural Route 2
Welch, MN 55089

PRIOR EMPLOYER: Simonson's Lumber Company
St. Cloud, MN

EDUCATION:

High School: Balsam Lake High School
Balsam Lake, WI

Vocational Schools: Steam Engineering I and II at St.
Cloud Vocational School, St. Cloud

Electricity I, II and III at Anoka
Vocational School, Anoka, MN

Nuclear Training: Nuclear Training School at Pathfinder
Nuclear Power Plant, Sioux Falls, SD

General Electric Boiling Water Reactor
Technology School at San Jose, CA

General Electric Boiling Water Reactor
Training School at Morris, IL

EMPLOYMENT:

1955-1968 Employed by Northern States Power Company at Whitney
Steam Plant, St. Cloud, Minnesota advancing from Plant
Attendant to Assistant Steam Plant Operator.

1968-1978 Employed at Monticello Nuclear Plant, Monticello, MN
holding a Senior Reactor Operator's License from
1970 - 1978.

1968-1977 Lead Plant Equipment and Reactor Operator.

1974-1976 Supervisor of Liquid and Solid Radioactive Waste
Processing, including Solidification and Off-site
Shipping.

1977-1978

Shift Supervisor

June, 1978

Transferred to Power Production Tyrone Operation's Task Force. Primary responsibility is writing operating procedures for Tyrone Nuclear Plant.

1. NSP Department or Plant Power Production
2. Name Bruce Roth
3. Title Supt. Overhaul Services
4. Education
 - a. Degrees B.A.E.M. Major _____
Aerospace & _____
Engineering Mechanics _____
 - b. Other Nuclear Education
BWR Service Engineering Training from General Electric Company
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR x PWR _____
 7 years - Refueling Outage Management
 7 years - GE & Westinghouse turbine overhaul supervision
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Power Production

2. Name Richard Streng

3. Title Engineer

4. Education

a. Degrees B. S.

Major Nuclear Engineering

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

--

b. Utility nuclear experience BWR _____ PWR X

1 summer - work at Kewaunee

c. A/E, vendor or other nuclear experience

--

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

--

b. Other

--

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

764 352

3.3 Nuclear Support Services

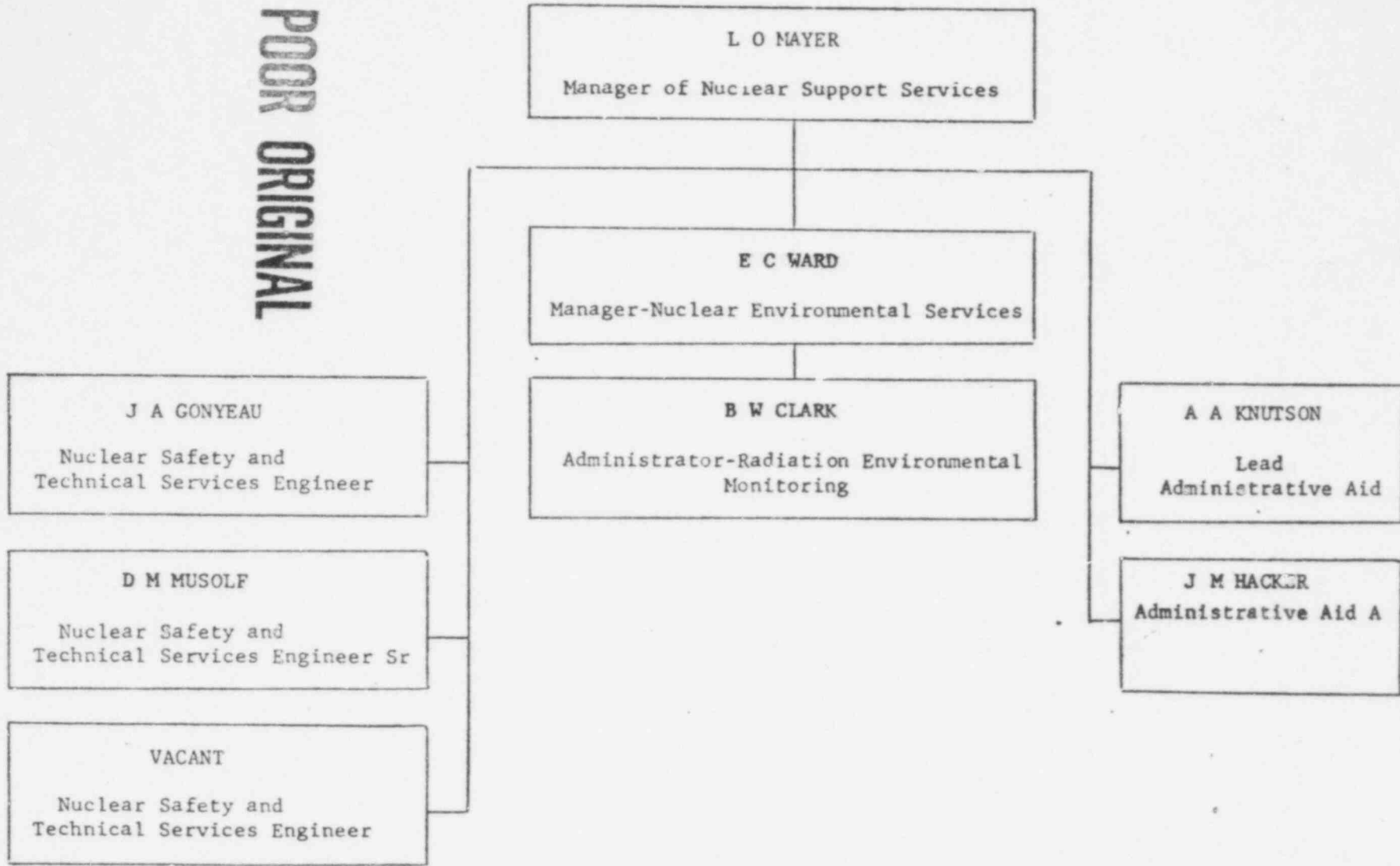
3.3.1 Organization Diagram

3.3.2 Personnel Resume's

POOR ORIGINAL

3.3-2

764 054



ORGANIZATIONAL DIAGRAM
NUCLEAR SUPPORT SERVICES DEPARTMENT
JULY 27, 1979

1. NSP Department or Plant Nuclear Support Services Dept.
 2. Name BERT W. CLARK
 3. Title ADMINISTRATOR - RADIATION ENVIRONMENTAL MONITORING PROGRAMS

4. Education
 a. Degrees BA Major Chem. - Math.

- b. Other Nuclear Education
Nuclear Reactor Technology - NSP
Radiation Surveillance - EPA
Management of Radiation Accidents - EPA Short Course

5. Nuclear Work Experience (list number of years & type of work in each category)

- a. Nuclear Navy or related military nuclear experience

- b. Utility nuclear experience BWR x PWR x

(12 yrs) Environmental Sampling around both types of plants.
 (3 yrs) Use of Pressurized Ion Chambers (PIC) for radiation levels.

- c. A/E, vendor or other nuclear experience

(12 yrs) Supervise contract of Nuclear Sciences Laboratory

6. Other work experience that might be helpful for nuclear plant emergency resource

- a. Non-nuclear utility experience (years and type of work)

(21 years) - Chemist & Microbiologist - Water treatment Plant

- b. Other

POOR ORIGINAL

7. NRC operator licenses held

- a. BWR: RO _____ SRO _____ Active _____ Expired _____
 b. PWR: RO _____ SRO _____ Active _____ Expired _____
 c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Nuclear Support Services

2. Name Joseph Alan GONYEAU

3. Title Nuclear Safety and Technical Services Engineer

4. Education

a. Degrees B.S.
M.S.
EIT

Major Chemistry (Minors- Math, Physics)
Chemistry (Nuclear)
Minnesota

b. Other Nuclear Education

Graduate of Bettis Atomic Power Laboratory Nuclear Plant Engineering School; Idaho Falls, ID

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

3 years - Power plant operations, training (AlW prototype)
1 year - Power plant water chemistry and health physics (task force to develop training program for all naval nuclear prototypes - project engineer and manager)

* Qualified as EOOW, Nuclear Plant Engineer, and Shift Supervisor (AlW plant)

b. Utility nuclear experience BWR * PWR **

** 4.7 years Training Supervisor (plant operations, chemistry, plant systems, health physics, thermal-hydraulics, nuclear engineering exp.)

*,** 1.1 years Nuclear Safety&Technical Services Engr. (licensing & technical support (Monticello and Prairie Island)

c. A/E, vendor or other nuclear experience

N/A

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

N/A

b. Other

2 years - Materials engineering
1 year - Radiochemistry and Nuclear chemistry (Graduate school courses and teaching assistant)

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO * _____ Active _____ Expired * (4 years licensed)

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Nuclear Support Services Department
2. Name David M Musolf
3. Title Nuclear Safety & Technical Services Engineer, Sr
4. Education
- a. Degrees BEE Major Electrical Engineering
MSME Nuclear Engineering
MSEE Digital Systems
- b. Other Nuclear Education
 Graduate US Navy Nuclear Power School
 Completed Course of Instruction at US Navy S1C Prototype Facility
5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
 US Navy
 5 years - Reactor Controls Officer, Electrical Officer
 Nuclear Submarine (S2W Plant). Qualified
 Engineering Officer of Watch and Officer of the Deck.
 Qualified Engineering Officer of Watch S1C Prototype reactor.
- b. Utility nuclear experience BWR x PWR X
 7 years - Independent review of nuclear plant operations,
 licensing for operating nuclear plants, technical
 support - NSP Nuclear Support Services Department.
- c. A/E, vendor or other nuclear experience
 1 year - Stanford University
 Participation in various laboratory exercises with
 small pool type research reactor.
6. Other work experience that might be helpful for nuclear plant emergency resource
- a. Non-nuclear utility experience (years and type of work)
 None
- b. Other
 None
7. NRC operator licenses held None
- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Nuclear Support Services

2. Name E.C. (AI) Ward

3. Title Mgr Nuclear Environ. Svs

4. Education

a. Degrees Bach,

Major Elec. Engrg

b. Other Nuclear Education

Oak Ridge School of Reactor Technology (1957-58)

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X

Engrg - Proj. Mgmt - 6 yrs (Pathfinder)

" Adm. Mgmt - 5 " (PI + Monti)

Staff Engrg Mgmt. (Lic + Reg.) 5 yrs

" A/E, " " (Nuclear Environ.) 4 yrs

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

substation & plant

b. Other

764 058

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

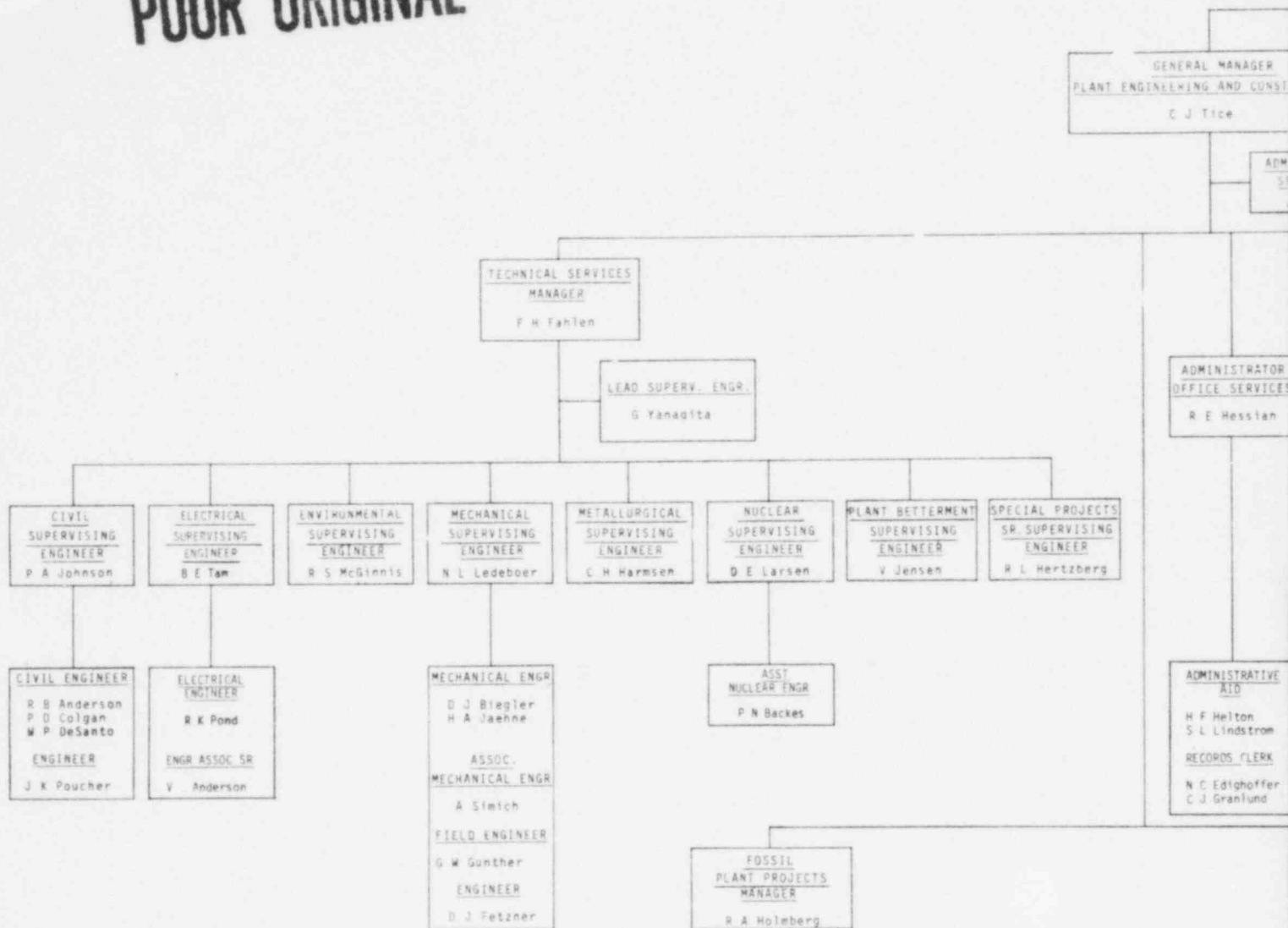
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4 Plant Engineering & Construction

3.4.1 Organization Diagram

3.4.2 Personnel Resume's

POOR ORIGINAL



FOLLOWING PERSONNEL ARE TEMPORARILY ASSIGNED TO POWER PRODUCTION DEPT.

CONSTRUCTION SUPT.

- J. G. Bollensen
- J. E. Carlson
- J. A. Kocur

ASST. CONSTR. SUPT.

- R. W. Olson

WELDING SUPERVISOR

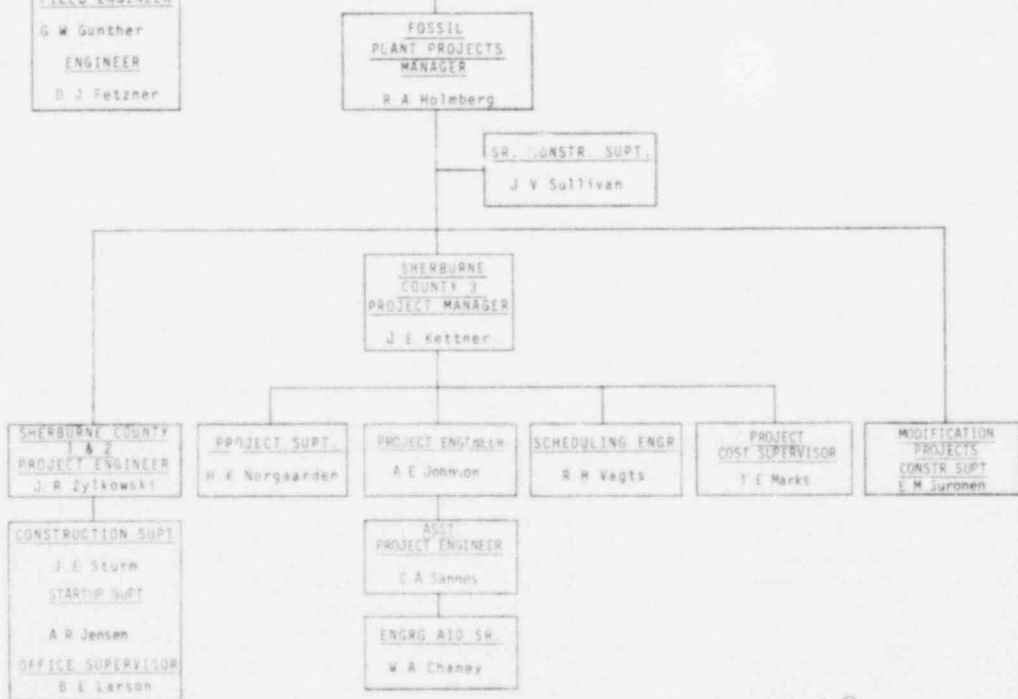
- P. R. Engler

PROJECT SAFETY SUPERVISOR

- W. M. Pratt

GENERAL NOTES

1. Personnel listed alphabetically under each job title.
2. PTNB and contract personnel not listed.



ORGANIZATION CHART

DEPARTMENT PRESIDENT
PLANT ENGINEERING AND CONSTRUCTION
P J Dienhart

SECRETARY
H M King

CONSTRUCTION

ADMINISTRATIVE
SPECIALIST
H M Rush

QUALITY ASSURANCE
MANAGER
W V Jokela

PROJECT CONTROL SYSTEMS
MANAGER
P J Schappa

SUPT. - SAFETY
K R Anakkala

ASST. SUPT.
DOCUMENTS &
PROCEDURES
J O Behling

SUPERVISOR
COMPUTER
APPLICATIONS
R O Clark

SUPERVISING
ENGINEER
SCHEDULING
E A Fulton

SUPERVISING
ENGINEER
COST
P W Andrzejek

LEAD
CONTROL CLERK
B M Pilarski

SCHEDULING
ENGINEER
(Vacancy)
ENGINEER
(Vacancy)

ASSOC.
COST ENGINEER
H M Lippe
PROJECT
COST SUPERVISOR
R L Ross

FOSIL
SUPERVISING
ENGINEER-QA
J C Meier

SUBSTATION
QA ENGINEER
J A Hanson

NUCLEAR
SUPERVISING
ENGINEER-QA
P F Suleski

TRANSMISSION
ENGR ASSOC SR
B E Faust

ELECTRICAL
SYSTEMS
SUPT. QAE
L C Bethoffer

SHERBURNE COUNTY
PRINCIPAL
QA ENGR.
D V Collins
ELEC. SUPERVISOR
E A Sasges

MONTECELLO
ENGR ASSOC SR
R I Nelson

TYRONE ENERGY
PARK
PRINCIPAL QA ENGR
A Pierce

MISC. PROJECTS
ASST. SUPT. QAE
D A Murphy

FOREMEN/JOURNEYMEN
V M Anderson G M Niemczyk
S R Anthony T J Qualley
T H Gloe F J Sularz
R R Johnson D C Szykulski
L D Konkler S C Tessmer

NUCLEAR
PLANT PROJECTS
MANAGER
R S Leddick

PRAIRIE ISLAND
& MONTECELLO
PROJECT MANAGER
L A Winter

TYRONE ENERGY PARK
PROJECT MANAGER
~~R S Leddick~~

CONSTRUCTION
SUPT.
E J Sabatits
ASST.
CONSTR. SUPT.
X W Kehren

PROJECT ENGINEER
D M Vincent

PROJECT ENGINEER
M M DeLong
ASST.
PROJECT ENGINEER
A M Kuroyama
(Acting)
SR.
NUCLEAR ENGINEER
M T Opstad

PROJECT SUPT.
C D Brown
CONSTRUCTION
SUPT.
J A Bystrzycki
C L Sillman

STARTUP SUPT.
A M Kuroyama

PRINCIPAL
LICENSING ENGR.
~~A D Schuster~~
ASST.
LICENSING ENGR.
B A Johnson

ASST.
SCHEDULING ENGR
G M Heupel

ASSOC.
COST ENGINEER
T E Escher

OFFICE SUPERVISOR
~~D L Farley~~

PLANT ENGINEERING AND CONSTRUCTION DEPARTMENT
DEPT. #0330
JANUARY 1, 1979

764 061

1. NSP Department or Plant Plant Engineering & Construction
2. Name Lowell C. Beihoffer
3. Title Supt Quality Assurance - Electrical Systems
4. Education
 - a. Degrees BEE Major Electrical Engineering
 - b. Other Nuclear Education
Basic Nuclear Reactor Technology
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience

POOR ORIGINAL

- b. Utility nuclear experience BWR _____ PWR 3
Supervised field crews who calibrated protective relays and Tested electrical control circuits.
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
19 - Protective relay design, operation & Testing.
 - b. Other
7. NRC operator licenses held None
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Plant Engineering and Construction

2. Name Paul M. Dackes

3. Title Assistant Nuclear Engineer

4. Education

a. Degrees BSNE Major Nuclear Engineering

b. Other Nuclear Education
NONE

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
NONE

b. Utility nuclear experience BWR X PWR X

BWR - Less than 1 year - Small projects

PWR - Two years - Review of specifications, drawings, bid evaluations, and design for proposed 1100 MWe plant

c. A/E, vendor or other nuclear experience
NONE

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NONE

b. Other NONE

7. NRC operator licenses held

a. BWR: NONE RO _____ SRO _____ Active _____ Expired _____

b. PWR: NONE RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

NONE

3.4-4

764 063

1. NSP Department or Plant PLANT ENGINEERING & CONSTRUCTION

2. Name C. D. BROWN

3. Title Project Supt

4. Education
a. Degrees B.S. - Mech. Eng. Major _____

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR ✓ PWR ✓
Prairie Island Nuclear Plant - 5 1/2 yrs. CONSTRUCTION Mech Supt & Project Supt
Monticello Nuclear Plant 1/2 yr CONSTRUCTION CONST. Supt - QA
PATHFINDER Nuclear Plant 1/2 yr CONSTRUCTION CONST. Supt
c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4-5

764 064

1. NSP Department or Plant Plant Eng. & Const. Dept.
2. Name Max M. DeLong
3. Title Project Engineer
4. Education
 - a. Degrees BS Major Agricultural Eng.
MS " " "
PhD " " "
Nuclear " "
 - b. Other Nuclear Education

POOR ORIGINAL

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR
 Management of engineering activities for
 NSP's Tyrone Project (a SNUPPS unit) 1974-1979 (5 yrs)

c. A/E, vendor or other nuclear experience
 Pioneer Service & Engineering (now Fluor Power Service)
 1971-1979 (~2 1/2 yrs) as licensing engineer and containment
 pressure and temperature transient analyst.
 1969-1971 Reactor operator, Iowa State Univ. UTR-10 (10kW)
 reactor. (2 yrs)

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
 General mechanical engineering work at Battelle
 Memorial Inst. 1964-1968 (4 yrs)

b. Other
 Soil sampling - U.S. Army 1 1/2 years 1962-1964

POOR ORIGINAL

7. NRC operator licenses held

- | | | | | |
|--|--|-----------|--------------|---|
| a. BWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| b. PWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| c. Critical Facility
or Test Reactor: | RO <input checked="" type="checkbox"/> | SRO _____ | Active _____ | Expired <input checked="" type="checkbox"/> |

1. NSP Department or Plant PLANT ENGINEERING & CONSTRUCTION
2. Name WILLIAM DE SANTO
3. Title CIVIL ENGINEER
4. Education
 - a. Degrees DCE Major CIVIL ENGINEERING
 - b. Other Nuclear Education

POOR ORIGINAL

5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR _____ PWR

2yrs. experience as inspecting Civil Engineer at Prairie Island Nuclear Gen. Plant. Inspecting work meant watching and measuring the Contractor's work so that they comply with the drawings and specifications.
 - c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)

3yrs experience as inspecting Civil Engineer at Sherburne County Fossil Generating Plant

4 yrs experience as Civil Engineer in Technical service Dept.
 - b. Other doing small designs and A/E review.

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____
b. PWR:	RO _____	SRO _____	Active _____	Expired _____
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____

1. NSP Department or Plant Plant Engineering & Construction Dept.
2. Name Carl H. Harmsen
3. Title Supervising Engineer, Metallurgical
4. Education
 - a. Degrees BSME Major Mechanical Engineering
M.S. MET. ENG. Metallurgical
 - b. Other Nuclear Education
 NSP course on nuclear reactor operation. Member of ASME Subcommittee on Nuclear Certification.
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR x PWR x
 Nine years - Plant Engineering and Construction of BWR & PWR plants.
 - c. A/E, vendor or other nuclear experience
 Six years with pressure vessel fabricator including nuclear reactor pressure vessels.
6. Other work experience that might be helpful for nuclear plant emergency resource Experienced as welder and could qualify as ASME Code welder on short notice.
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

764 067

1. NSP Department or Plant Plant Engineering & Construction
 2. Name Allen R Jensen
 3. Title Start-Up Supv
 4. Education
 a. Degrees BS ME Major Mech Engr
 b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR ~~_____~~

c. A/E, vendor or other nuclear experience
 Worked on 4 nuc. reactors through start up & testing program
6 years

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
 Worked on construction & start up of Sherro 1 & 2
4 years
 b. Other

POOR ORIGINAL

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
 b. PWR: RO _____ SRO _____ Active _____ Expired _____
 c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Plant Engineering and Construction Dept.
2. Name Aulden E. Johnson
3. Title Project Engineer
4. Education
 - a. Degrees B.E.E. 1966 Major Electrical Engineering
 - b. Other Nuclear Education
 - Nuclear Reactor Technology - University of Minnesota 1968
 - Westinghouse Pressurized Water Reactors 1970
 - Westinghouse Pressurized Water Reactors 1973
 - Radiation Safety 1973
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience

- b. Utility nuclear experience BWR _____ PWR 4 years
 - Electrical Engineering Design
 - Instrumentation & Control Design
- c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - 9 years
 - Electrical Engineering
 - Instrumentation and Control (specializing in digital computer applications)
 - b. Other
7. NRC operator licenses held None
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

764 069

1. NSP Department or Plant Plant Engineering & Construction

2. Name Bruce Allen Johnson

3. Title Associate Licensing Engineer

4. Education

a. Degrees BS Major Nuclear Engineering

Professional Engineer - State of Minnesota Mechanical Engineering

b. Other Nuclear Education
General Electric course in Station Nuclear Engineering

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR X
Indiana & Michigan Power Company

B.C. Cook Nuclear Plant
Pre-operational and startup testing, Reactor startup testing, Station Nuclear Engineering - 2 years
(see attached sheet)

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

B A Johnson (cont'd)

5.b Northern States Power Company

Analytic analysis of the Prairie Island reactors using
computer modeling-core analysis - 1.5 years

Nuclear licensing for Tyrone Energy Park - 2 years

3.4-12

764 071

1. NSP Department or Plant PLANT ENGINEERING & CONSTRUCTION

2. Name IV. V. JOKEAA

3. Title MANAGER - QUALITY ASSURANCE

4. Education

a. Degrees B MET ENGRG Major _____

b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR 12 PWR 11

*Metallurgical problem analyses
Non destructive examinations
QA/QC
Material testing*

concurrent

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Twenty-Six years - Same as 5b.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

Plant Engineering & Construction Department

1. NSP Department or Plant Monticello Plant, Prairie Island Plant

2. Name Karl Wm. Kehren

3. Title Assistant Construction Superintendent

4. Education

a. Degrees BCE Major Civil Engineering

b. Other Nuclear Education
Introduction to Nuclear Power
Yearly Badge Training

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
N/A

b. Utility nuclear experience BWR X PWR X
New Construction - PWR - 6 years
Modification, New Const. on Operating PWR, Outage Support - 3 years
Modification, New Const. on Operating BWR, Outage Support - 3 years

c. A/E, vendor or other nuclear experience
Cornell Hydro Plant Demolition & Rebuilding - 2 years

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
N/A

b. Other
Masonry Construction - 7 years
Farm Work - 10 years

764 073

7. NRC operator licenses held

a. BWR:	RO _____	SRO _____	Active _____	Expired _____	None
b. PWR:	RO _____	SRO _____	Active _____	Expired _____	None
c. Critical Facility or Test Reactor:	RO _____	SRO _____	Active _____	Expired _____	None

1. NSP Department or Plant Plant Engineering and Construction
2. Name A. M. Kuroyama
3. Title Startup Superintendent
4. Education
 - a. Degrees BS Major Electrical Engineering

 - b. Other Nuclear Education
 Bettis Reactor Engineering School
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 3.5 years - SIW Prototype Modification - Electrical/Instrumentation
 .5 years - Training Coordinator - SIW Nuclear Power Training
 - b. Utility nuclear experience BWR _____ PWR _____
 4 years - Electrical/Inst. & Control/Auxiliary Power System
 4.5 years - Project Engineer - Prairie Island Nuclear Generating Plant
 2.5 years - Startup/Project Engineering - Tyrone Energy Park
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
 3.0 years - Instrumentation and Control of missile systems (Ground control and monitoring equipment)
 3.0 years - Standards Subcommittee member - IEEE SC 4 on Auxiliary Power Systems
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
 or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4-15

64 074

1. NSP Department or Plant PLANT ENGINEERING + CONSTRUCTION

2. Name ROTH S. LEDDICK

3. Title MANAGER, NUCLEAR PLANT PROJECTS

4. Education
a. Degrees B.S. Major NAVAL ENGINEERING (U.S. NAVAL ACADEMY)
B.S. MECH. ENGRG (U.S. NAVAL POSTGRAD. SCHOOL)
M.S. " " " " " "

b. Other Nuclear Education
QUALIFIED CHIEF OPERATOR (S-1-W), IDAHO FALLS - U.S. NAVY 1957

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience
EXECUTIVE OFFICER - USS SARGO (SSAN 573) - 2 YRS.
COMMANDING OFFICER - USS SWORDFISH (SSAN 579) - 2 YRS.
COMMANDING OFFICER - USS KAUHAMAHEHA (SSAN 642) - 3 YRS.
COMMANDING OFFICER - USN NUCLEAR POWER TRAINING UNIT, SCHEWENITZ - 3 YRS.

b. Utility nuclear experience BWR PWR
PROJECT MANAGER, PRAIRIE ISLAND - 4 YRS.
PROJECT MANAGER, MONTICELLO - 2 YRS.
MANAGER NUCLEAR PLANT PROJECTS - 4 YRS.
PROJECT MANAGER, TYRONE ENERGY PARK - 1 YR.

c. A/E, vendor or other nuclear experience
NONE

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
NONE

b. Other
SERVED AS AN OFFICER, U.S. NAVY, PRIMARILY IN SUBMARINES, FOR 27 YEARS.

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____
b. PWR: RO _____ SRO _____ Active _____ Expired _____
c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____
d. NAVY - CHIEF OPERATOR, S-1-W. EXPIRED.
3.4-17

76A 076

- 1. NSP Department or Plant Plant Engr. & Constr. (GO)
- 2. Name John C. MEIER
- 3. Title Suprv. Engr - QA
- 4. Education
 - a. Degrees B.S. Major Civil Engr.

b. Other Nuclear Education

POOR ORIGINAL

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X

- ATTACHED -

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

- ATTACHED -

b. Other

||

7. NRC operator licenses held

- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4-18

764 077

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

John C Meier, Supervising Engineer - QA, Fossil

EDUCATION

Wisconsin State University at Platteville - Bachelor of Science, Civil Engineering

LICENSES AND REGISTRATION

Professional Engineer - Minnesota - No. 11637
Wisconsin - No. E18733
North Dakota - No. 2109

EXPERIENCE SUMMARY

Mr Meier joined Northern States Power Company in February 1968 as an Engineer in Plant Engineering and Construction Department. He has over 11 years experience in various capacities during the construction and modification of Company nuclear and fossil facilities.

Prior to joining NSP, he was employed as an Engineer with the Industrial Risk Insurers (formerly Factory Insurance Association) where he inspected industrial facilities to assure their compliance with fire protection codes.

DETAILED EXPERIENCE RECORD

JOHN C MEIER

May 1964 to
February 1968

Industrial Risk Insurers

Field inspection of industrial facilities for compliance with fire protection codes. Independent evaluation of fire protection piping, supply, supporting systems, and the acceptance and maintenance testing.

February 1968
to July 1968

Northern States Power Company

Field Engineer for civil construction and inspection activities at the Allen S King fossil plant, and the nuclear Prairie Island Units I and II.

July 1968 to March 1972	Quality Assurance Engineer - Civil, for program surveillance and audit during construction of the Prairie Island Nuclear Units I and II.
March 1972 to July 1974	Principal Quality Assurance Engineer responsible for administration of the Quality Assurance programs during modification of the Monticello Nuclear Plant's Off-Gas System, and construction of the Sherburne County fossil plant's Unit I.
July 1974 to Present	Supervising Engineer - Quality Assurance, Fossil; responsible for the development and administration of Quality Assurance programs, their budgets and staffing during construction and modification of fossil facilities. Projects include Sherburne County Units I, II and III, Riverside, High Bridge, and Black Dog.

1. NSP Department or Plant Plant Engineering + Construction Dept.

2. Name Melford T. Opstad

3. Title Sr. Nuclear Engineer

4. Education

a. Degrees BS
M.S.

Major Math-Science Education
Nuclear Engr.

b. Other Nuclear Education

Two Extension Courses from University of Idaho
Nuclear Reactor Technology Course - Prof. H. Isbin Univ. of Minn

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR _____ PWR _____

Prairie Island Computer Core Analysis (PWR)
Monticello Off Gas Modification - Engr + Installation (BWR)
SNUPPS Design Coordination (PWR)

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PLANT ENG + CONST.
2. Name DAVID A PIERCE
3. Title PRINCIPAL QA ENG.
4. Education
 - a. Degrees BS Chem ENG Major CHEMICAL ENGINEERING
 - b. Other Nuclear Education
SENIOR REACTOR OPERATORS LICENSE - PARRIS ISLAND 1975
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience

POOR ORIGINAL

- b. Utility nuclear experience

	BWR	PWR <u>8 years</u>
CONSTRUCTION / START UP	}	PARRIS ISLAND - 5 years
OPERATIVE		
DESIGN / CONSTRUCTION		
		TYRONG 3
- c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
2 years - OPERATION AT FOSSIL PLANT
 - b. Other

7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO X Active _____ Expired 1978
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

764 081

1. NSP Department or Plant Plant Eng. & Const.
2. Name Russell K. Pond
3. Title Electrical Engineer
4. Education
 - a. Degrees B.S. Major: Electrical Engineering - Power
 - b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience

POOR ORIGINAL

- b. Utility nuclear experience BWR _____ PWR
 - 2 1/2 yrs. - Construction Engineer, Electrical and I&C
 - 4 yrs. - Design Review, Electrical and I&C
- c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other

7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PLANT ENG. & CONSTRUCTION
2. Name EUGENE J. SABAITIS
3. Title CONSTRUCTION SUPT.
4. Education
- a. Degrees BS Major EE
MS EE
MBA BUSINESS

b. Other Nuclear Education
NAVY NUCLEAR POWER PROGRAM

5. Nuclear Work Experience (list number of years & type of work in each category)
- a. Nuclear Navy or related military nuclear experience
NUCLEAR NAVY: FORMAL SCHOOLING
PROTOTYPE TRAINING
1 YEAR ON BOARD EXPERIENCE

b. Utility nuclear experience BWR _____ PWR
NSP 5 YEARS ENGINEERING/CONSTRUCTION

c. A/E, vendor or other nuclear experience
WESTINGHOUSE 4 YEARS STARTUP

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

b. Other **POOR ORIGINAL**

7. NRC operator licenses held

- a. BWR: RO _____ SRO _____ Active _____ Expired _____
- b. PWR: RO _____ SRO _____ Active _____ Expired _____
- c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant Plant Engineering & Construction

2. Name Curtis L Sillman

3. Title Construction Supt.

4. Education

a. Degrees B.S. Major Civil Engineering

b. Other Nuclear Education

Company sponsored seminars

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience BWR X PWR X
PWR-4 years Construction-Prairie Island Nuclear Generating Plant
-3 years Engineering Management-Tyrone Energy Park

BWR-1 year Construction & Engineering Management- Monticello Nuclear Gen. Plant

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)
5 years Construction experience on large Fossil Fueled Generating Plants

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility
or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4-25

764 084

1. NSP Department or Plant Plant Engineering & Construction Dept.

2. Name Peter F Suleski PE

3. Title Supervising Engineer Quality Assurance Nuclear

4. Education

a. Degrees BS

Major Marine Engineering
with Nuclear and
Advance Calculus electives

b. Other Nuclear Education

Various technical and management courses related to construction, testing, refueling and overhaul of Naval Nuclear Propulsion Plants; also commercial nuclear plants in the area of PWRs and construction Quality Assurance.

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

Construction, testing and refueling; also overhauls/modifications SSW, D2G..... 7yrs at San Francisco Bay Naval Shipyard Mare Island. Participated (Boys Systems Operation) in Chemical Decontamination of SSBN 601 SSW plant.

b. Utility nuclear experience

BWR PWR 10

Managed Site Quality Assurance of Prairie Island during Construction, testing and turnover to NPP operations.

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

USN Active Duty Auxiliaries & Cargo Officer AO-107 (Fleet Oiler).

b. Other

Implemented collateral assignment (project) in transfer of contaminated spent resin (9 tons ± 300 curies) accumulated from chemical decontamination of SSBN 601 (SSW).

7. NRC operator licenses held

a. BWR: RO SRO Active Expired

b. PWR: RO SRO Active Expired

c. Critical Facility or Test Reactor:

RO SRO Active Expired 764

085

1. NSP Department or Plant Plant Engineering & Construction
2. Name Ernest M Suronen
3. Title Construction Superintendent
4. Education
 - a. Degrees Bach. of Eng Major Civil
 - b. Other Nuclear Education

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

b. Utility nuclear experience

BWR

PWR

Field Engineer during Prairie Island construction March 1969 To Sept 1972
 Construction Superintendent Monticello Security System. March 1978 To March 1979

c. A/E, vendor or other nuclear experience

POOR ORIGINAL

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

Assistant Construction Supt Sherco #2 Sept 1972 To April 1977.
 Construction Supt. Various modification projects April 1977 To Present.

b. Other

7. NRC operator licenses held

- | | | | | |
|--|----------|-----------|--------------|---------------|
| a. BWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| b. PWR: | RO _____ | SRO _____ | Active _____ | Expired _____ |
| c. Critical Facility
or Test Reactor: | RO _____ | SRO _____ | Active _____ | Expired _____ |

1. NSP Department or Plant PLANT ENGINEERING AND CONSTRUCTION DEPARTMENT
2. Name BRUCE E. TAM
3. Title SUPERVISING ELECTRICAL ENGINEER
4. Education
 - a. Degrees BSEE Major ELECTRICAL ENGINEER
 - b. Other Nuclear Education

POOR ORIGINAL

5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR _____ PWR

4 YRS OF WORK IN THE CONSTRUCTION AREA OF CONTROL & INSTRUMENTATION, AND PLANT ELECTRICAL DISTRIBUTION
WORKED AT PRAIRIE ISLAND WHEN PLANT PLACED IN SERVICE.
 - c. A/E, vendor or other nuclear experience
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PLANT ENGINEERING & CONSTRUCTION (OSR)

2. Name RICHARD H VAGTS

3. Title Sr. Scheduling Engineer

4. Education

a. Degrees BS
MS

Major Mechanical Engineering
Mechanisms Engineering

b. Other Nuclear Education

Introduction to Nuclear Power - NSP Prairie Island - 1973

5. Nuclear Work Experience (list number of years & type of work in each category)

a. Nuclear Navy or related military nuclear experience

POOR ORIGINAL

b. Utility nuclear experience BWR _____ PWR X

JUL 71 - FEB 75 ⇒ ~ 4 yrs @ Prairie Island
Construction & Start-up

c. A/E, vendor or other nuclear experience

6. Other work experience that might be helpful for nuclear plant emergency resource

a. Non-nuclear utility experience (years and type of work)

4 yrs - planning & scheduling - assisting in planning, coordination, & scheduling of work

b. Other US Navy

Qualified as Engineering Officer at Sea - light & heavy cruisers
- some engineering casualty control training & experience

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

3.4-29

764-080

1. NSP Department or Plant Plant Engineering & Construction
2. Name Dale M Vincent
3. Title Project Engineer
4. Education
 - a. Degrees B.Sc. Major Nuclear Engineering
M.S. Nuclear Engineering
 - b. Other Nuclear Education
 Westinghouse SNUPPS PWR Training (3 weeks)
 Zion Simulator (1 week)
5. Nuclear Work Experience (list number of years & type of work in each category)
 - a. Nuclear Navy or related military nuclear experience
 - b. Utility nuclear experience BWR X PWR X
 Field Engineer Prairie Island (1½ years)
 Licensing Engineer (2 years)
 Project Engineering (plant modifications) (3½ years)
 - c. A/E, vendor or other nuclear experience
 University of Wisconsin
 Nuclear Reactor Laboratory
 Neutron activation analysis (part time for 1 year)
 Teaching assistant (part time for 1 year)
6. Other work experience that might be helpful for nuclear plant emergency resource
 - a. Non-nuclear utility experience (years and type of work)
 - b. Other
7. NRC operator licenses held
 - a. BWR: RO _____ SRO _____ Active _____ Expired _____
 - b. PWR: RO _____ SRO _____ Active _____ Expired _____
 - c. Critical Facility
 or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

1. NSP Department or Plant PLANT ENGINEERING AND CONSTRUCTION DEPT.

2. Name Lynn A. Winter

3. Title Project Manager

4. Education

a. Degrees B.S. C.E.

Major Civil Engineering

b. Other Nuclear Education

None

POOR ORIGINAL

5. Nuclear Work Experience (list number of years & type of work in each category) 2 Years as Project Manager for modification projects at operating nuclear power plants.

a. Nuclear Navy or related military nuclear experience

None

b. Utility nuclear experience BWR X PWR X

2 Years as Project Manager for modification projects at the Prairie Island (PWR) plant and the Monticello (BWR) plant.

c. A/E, vendor or other nuclear experience

None

6. Other work experience that might be helpful for nuclear plant emergency resource

8 Years in Construction Administration with the Federal Aviation Administration.

a. Non-nuclear utility experience (years and type of work)

5 Years as Construction Supt. and Project Manager for fossil plant modification projects.

b. Other

7. NRC operator licenses held

a. BWR: RO _____ SRO _____ Active _____ Expired _____

b. PWR: RO _____ SRO _____ Active _____ Expired _____

c. Critical Facility or Test Reactor: RO _____ SRO _____ Active _____ Expired _____

64 090

3.5 Individual Consultant Resume's

3.5-1

764 091

TITLE: Safety Audit Committee Member, and Consultant

NAME: Joseph A. Thie

BIRTH DATE AND AGE: Dec. 15, 1927 and 50

PRIOR EMPLOYERS:

Educational 1944 - 1952

Attended University of Notre Dame and University of Chicago and received Ph. D. in nuclear physics.

Taught physics at the University of Notre Dame and the University of Dayton.

Post-doctoral AEC fellowship award for nuclear research at the Cornell University.

Registered Professional Engineer in the state of Wisconsin, registration number E-16864

Argonne National Laboratory 1953 - 1960

Held Q-clearance for classified R&D in nuclear power

Member of the design and safety testing teams of the first BWR, BORAX and subsequently of the EBWR

Authored papers and U.S. delegate to the Second International Conference on the Peaceful Uses of Atomic Energy at Geneva, Switzerland

Numerous research projects and publications including:

Chemical control

Reactor stability and kinetics problems

Thoria power reactor design and zero power experiments

Heavy water reactor design

Commercial power reactor design

Authored book, "Heavy Water Exponential Experiments Using ThC₂ and UO₂."

McLain Rodger Associates 1960 - 1961

Partner in consulting firm specializing in nuclear power and including the following activities:

Wrote startup test procedures for the Elk River reactor,

Reviewed bids for the Atomkraftkonsortiet Krangede's reactor in Stockholm, Sweden

Independent Consultant 1961 - 1978

Member of the plant Safety Committees of the following reactors:

- Elk River (Chairman)
- Pathfinder
- Enrico Fermi
- LaCrosse BWR (Chairman)
- Monticello
- Prairie Island

Participated in the safety testing of the following reactors including procedure writing and review, test data collection, and the analysis and reporting of data:

- Elk River
- ML-1
- Pathfinder
- Enrico Fermi
- N.S. Savannah
- Tarapur
- LaCrosse BWR
- EBR-II
- Monticello
- Prairie Island
- Palisades
- Calvert Cliffs

Author and/or co-author of the following books:

- Reactor Noise
- The Technology of Nuclear Reactor Safety
- Nuclear Reactor Instrumentation

Extensive publications in the nuclear literature including the following sources:

- Nucleonics
- Nuclear Safety
- Reactor Technology
- Nuclear Technology
- Nuclear Science and Engineering
- Transactions of the American Nuclear Society
- Annals of Nuclear Energy
- Progress in Nuclear Engineering
- U.S. Government laboratory publications

Assisted in the design of power reactor monitoring instrumentation at the following:

- Milletron Corp.
- Westinghouse Corp.
- Allis-Clamers Corp.

Gave seminars, short courses, and extended courses at the following institutions:

- Atomics International
- Commonwealth Edison
- University of Illinois
- University of Tennessee
- AB Atomenergie, Sweden
- Atomic Energy Establishment - Trombay, India
- Kernforschungsanlage - Julich, Germany
- Illinois Institute of Technology
- Purdue University
- Reactor Centrum Nederland, The Netherlands
- University of Michigan
- University of Minnesota
- University of Ohio
- University of Wisconsin

Consulted in the design and/or construction of the following reactors:

- A proposed Babcock and Wilcox advanced steam-cooled reactor
- The Tarapur power reactors
- A proposed Safety Test Facility of the Argonne National Laboratory

Paper author and U.S. delegate to the Third International Conference on the Peaceful Uses of Atomic Energy at Geneva, Switzerland

Member of corporate management advisory committees for:

- Allis-Chalmers - in their nuclear assessment of a German firm
- Oak Ridge National Laboratory - in the assessment of the Instrumentation and Controls Division

Conducted studies for the Electric Power Research Institute on monitoring for purposes of enhanced plant availability

Collaborated with Hokkaido University, Japan on nuclear safety information storage and retrieval

Participated in operating pressure optimization studies at the Argonne National Laboratory

Active in the American Nuclear Society

Participated in seminars and conferences held for the benefit of the Advisory Committee on Reactor Safety

PROFESSIONAL RESUME

George E. McVehil, Ph.D.
Certified Consulting Meteorologist

P.O. Box 4480
Boulder, Colorado 80306

PH: (303) 444-5243

Dr. McVehil has over 20 years of professional experience in meteorological research and application. His primary field of specialization is in atmospheric turbulence and diffusion. His major research work has been in wind distributions in the lower atmosphere, diffusion of air pollutants, weather phenomena related to the Great Lakes, and environmental impact of industrial activities.

During the past nine years, Dr. McVehil's work has related almost exclusively to air pollution meteorology and environmental effects of power generation and other industrial operations. As Manager of Ball Brothers Research Corporation's environmental analysis services, and since 1974 as a private consultant, Dr. McVehil has supervised and performed numerous studies in air pollution modeling, environmental monitoring and data analysis, and power plant atmospheric impacts. He is the author of more than fifty papers and reports, including more than twenty reports on cooling tower plume behavior and atmospheric effects of cooling systems. Dr. McVehil has directed or personally conducted studies and analytical investigations of cooling system effects for the power industry, government agencies, and cooling system manufacturers.

Dr. McVehil has performed analyses, prepared reports, and given testimony in support of licensing activities for a variety of electric generating facilities. He has consulted on more than twelve nuclear plant sites, over 30 fossil plants and gas turbine installations, in addition to numerous other projects involving mining, refining, smelting, highway construction, etc. He has testified on air pollution and cooling system effects before Pollution Control Agencies, the Nuclear Regulatory Commission, and in court proceedings.

Dr. McVehil is a Certified Consulting Meteorologist, having received this designation upon satisfaction of all requirements set by the Board for Certified Consulting Meteorologists of the American Meteorological Society. He is a Director and past President of the National Council of Industrial Meteorologists.

GEORGE E. McVEHIL

Education

B.A. Physics, 1958, Washington and Jefferson College
B.S. Meteorology, 1957, Massachusetts Institute of Technology
M.S. Meteorology, 1958, Massachusetts Institute of Technology
Ph.D. Meteorology, 1962, Pennsylvania State University

Experience

1974-Present Private Consulting Meteorologist.
Consultation, analysis, reports, and testimony for private industry and governmental agencies. Primary service areas are in air pollution, environmental impact, and meteorological influences on industry. Licensing activities for power generation including nuclear and fossil stations.

1970-1974 ~~Ball Brothers Research Corporation, Environmental Systems Group~~ (Formerly Sierra Research Corporation, Environmental Systems Division), Manager, Technical Services.
Responsible for overall management of BBRC's meteorological and air quality monitoring, and consulting services activities. Provided technical leadership for consulting service contracts and air quality impact analyses. Provided specialized consultation to power industry and industrial clients, including testimony and Final Consulting Reports. Project manager on major research and consulting service contracts.

1969-1970 EG&G, Inc., Environmental Services Operation, Manager, Technical Services.
Responsible for management and technical direction of field services and research contracts in air pollution, weather modification, and applied meteorology. Performed direct research on government contracts, as well as report and proposal preparation, and technical supervision of all service contracts.

1962-1969 Cornell Aeronautical Laboratory, Inc., Research Meteorologist, and Head, Dynamic Meteorology Section.
Basic and applied research in atmospheric diffusion and turbulence, air-sea interactions, weather phenomena related to the Great Lakes, weather modification, wind tunnel modeling of meteorological flows, radar meteorology, and meteorological influences on military weapons and operations. Principal Investigator on more than ten research contracts.

POOR
ORIGINAL

3.5-7

764 097

1958-1962 Pennsylvania State University: Graduate Assistant (1958-1960), Instructor (1960-61), Research Assistant (1961-1962).
As Graduate and Research Assistant, performed research on wind structure and turbulence in the planetary boundary layer. As full-time instructor in Meteorology, taught under-graduate courses in dynamic meteorology, thermodynamics of the atmosphere, applications of statistics to meteorology, and synoptic meteorology.

Organizations

American Meteorological Society - Certified Consulting Meteorologist
Royal Meteorological Society (Foreign Member)
Air Pollution Control Association
National Council of Industrial Meteorologists (President 1976-7)
Sigma Xi (elected 1958)

Publications

Panofsky, H. A. Blackadar, A. K., and McVehil, G. E., 1960: The diabatic wind profile. Quart. J. Royal Met. Soc., 86, 390-398.

McVehil, G.E., 1964: Wind and temperature profiles near the ground in stable stratification. Quart. J. Royal Met. Soc., 90, 136-146.

McVehil, G. E. and Peace, R. L., Jr., 1965: Some studies of lake effect snowfall from Lake Erie. Proceedings of the 8th Conference on Great Lakes Research, Pub. No. 13, Great Lakes Research Division, Univ. of Michigan, 262.

McVehil, G. E., Pilie, R. J., and Zigrossi, G. A., 1965: Some measurements of balloon motions with Doppler radar. J. Applied Meteor., 4, 146.

Fichtl, G. H., and G. E. McVehil, 1970: Longitudinal and lateral spectra of turbulence in the atmospheric boundary layer at the Kennedy Space Center. J. Applied Meteor., 9, 51.

American Society of Mechanical Engineers, 1975: Cooling Tower Plume Modeling and Drift Measurement. A Review of the State-of-the-Art. (Authored by G. E. McVehil and K. E. Heikes) ASME, New York, N.Y. 170 pgs.

Partial List of Consulting Clients and Reports

George E. McVehil, Certified Consulting Meteorologist

Consulting Clients 1972-1978

American Society of Mechanical Engineers	Pacific Gas and Electric Company
Black & Veatch Consulting Engineers	Public Service of Indiana
Commonwealth Edison Company	Public Service of New Mexico
Flatiron Companies, Boulder, Colorado	Public Service of Oklahoma
General Atomic Company	Sargent and Lundy Engineers
Interstate Power Company (Iowa)	State of Colorado
Illinois Power Company	State of Idaho
Kaiser Engineers	State of Minnesota, -Copper-Nickel Project
Marley Company	The Research Corporation of New England (TRC)
Northern States Power Company	U.S. Energy Research and Development Admin.
	Wisconsin Power and Light Company

Consulting Reports

1970: Evaluation of Cooling Tower Effects at Zion Nuclear Generating Station
1971: Atmospheric Effects of Cooling Tower Plumes - Sherburne County Station, Northern States Power Company
1972: Atmospheric Effects of Evaporative Cooling Towers - LaSalle County Station
1972: Atmospheric Effects of Dry Cooling Towers - Gulf General Atomic ~~Company~~
1972: Air Quality Estimates: Blue Lake Turbine Site
1974: Atmospheric Effects of Plant Cooling System: Sibley County Generating Plant
1974: Stack Gas Dispersion Analysis: Northern States Power Company, Sibley County Generating Plant
1974: Cooling Tower Plume Behavior: Diablo Canyon Nuclear Generating Station
1975: Environmental Report Sections: Marble Hill Station, Public Service of Indiana
1975: Atmospheric Impact of Closed-Cycle Cooling Systems: Will County and Joliet Stations, Commonwealth Edison Company
1975: Calibration and Validation of Cooling Tower Plume Models
1976: Air Quality and Cooling System Effects, Sherburne County Units 3 and 4, Northern States Power Company
1976: Analysis of Plateau-Valley Meteorological Effects - Marble Hill Nuclear Site
1976: Atmospheric Effects of Cooling Tower Operation - Edgewater Station Unit 5
1977: Air Quality Impact - Elk River and Sherburne County Generating Stations, Black & Veatch Engineers
1977: Atmospheric Effects of Nuclear Energy Centers, Commonwealth Edison Company
1977: Assessment of Cooling Tower Effects - Carroll County Station, Sargent & Lundy Engineers
1977: Evaluation of Mathematical Model Predictions of Cooling Tower Plumes, Northern States Power Company
1977: Background Air Quality: Sherburne County Generating Plant, Northern States Power Company
1978: Atmospheric Effects of Cooling Tower Operation - Byron Nuclear Generating Station, Sargent & Lundy Engineers
1978: Background Monitoring for Total Suspended Particulate, Northern States Power Company

Environmental Report, Safety Analysis Report, and licensing application contributions have been prepared in addition to the above for a number of proposed plant sites. Testimony has been presented before many agencies and boards, including Nuclear Regulatory Commission, U.S. Environmental Protection Agency, and state pollution control agencies.