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SUBJECT: Forwards summary rept re corporate mgt & technical capabilities.

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WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

July 30, 1979

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

Docket No. 50-305
Operating License DPR-43
Summary Report: Management and Technical Capabilities

Enclosed please find forty (40) copies of the above referenced Summary Report on the corporate management and technical capabilities in response to your June 29, 1979 request.

Very truly yours,

A handwritten signature in cursive script that reads "E. R. Mathews".

E. R. Mathews, Vice President
Power Supply and Engineering

snf

Attach.

7908010457

None
1/40

I.A. MANAGEMENT RESOURCES (OFFSITE)

Attached Figure 1 provides the offsite organization which can provide experienced management functions in the event of an accident. These individuals either presently possess or can readily be provided with the authority and responsibility to function, on a company wide basis, in the areas of engineering management; logistics support; coordination of activities with local, state, and Federal agencies; communication networks; and overall accident response coordination.

The functions, responsibilities and authority associated with each position and the educational and experience background for the incumbent are described in Table I-1.

TABLE I-1

MANAGEMENT RESOURCES

A. MANAGEMENT POSITIONS

1. Vice President - Power Supply & Engineering

A. Functions, Responsibilities and Authority

The Vice President-Power Supply and Engineering is directly responsible for all power supply and engineering functions. He has corporate responsibility for all matters relating to the administration, engineering, design, manufacture, construction, installation, maintenance, modification, test, startup, licensing, fuel management, commercial operation and quality assurance of WPS Nuclear Power Plants.

B. Educational Background

University of Wisconsin - B.S.M.E. 1947

Special Nuclear Education

University of Wisconsin - Reactor Design

CWE Purdue University - Nuclear Fuel

NAI - Core Analysis

Registered PE - Wisconsin 1953

WPS Nuclear Training for Engineers

C. Experience

(1) Nuclear

(a) Directly Related:

Managed final years of construction of Kewaunee Nuclear Plant and responsible for operation as noted above. Responsible for operation of QA for several years. 33 years with WPS.

(b) Other

None

(2) Other

Previously Vice President for Engineering transmission activity of the Corporation.

U. S. Navy - 4 years

2. Manager - Nuclear Power

A. Functions, Responsibilities and Authority

The Manager-Nuclear Power is responsible for the operations, administration, engineering, maintenance, modification, safety evaluations, licensing of WPS nuclear plants, and implementation of the applicable requirements of the OQAP.

He has delegated the responsibility for functions and activities related to nuclear licensing; safety evaluations concerning NSS, ECCS, and FSAR analyses; providing support to the plant relating to nuclear steam supply items and implementation of Technical Reviews for related areas to the Nuclear Licensing and Systems Supervisor. He has delegated responsibility for engineering activities, balance of plant technical support, modification project management, special project activities and Technical Reviews of related areas to the Nuclear Services Supervisor. He has delegated responsibility for operation, maintenance, and implementation of administrative controls of the Kewaunee Plant to the Kewaunee Plant Superintendent.

B. Educational Background

University of Wisconsin - B.S.E.E. 1948
Moravian College - 2 semesters
Princeton University - 3 semesters
Westinghouse Nuclear Training - 1 year. AEC License
University of Michigan - Utility Executive Training
WPS - Nuclear Training for Engineers
Registered PE - Wisconsin 1953

C. Experience

- (1) Nuclear
(a) Directly Related

Superintendent - Kewaunee Nuclear Power Plant - 1967-1970 - responsible for development of plant staff, preoperational and startup program. Supervised staff of 88.

Manager - Nuclear Power - 1970 - Present - responsible for Kewaunee Nuclear Plant operations and support staff, including licensing and services. Responsible for operational QA for 3 years.

- (b) Other

Spent one year at Saxton Nuclear Plant. Served four years on EPRI fusion program and new energy resource task force.

- (2) Other

(a) Superintendent - Weston Plant - 1962 - 1967, responsible for operation of 171 MW - 2 unit coal fired plant

(b) Assistant Superintendent - Weston Plant - 1954 - 1962

(c) Results & Efficiency Engineer - 1948 - 1954.

(d) Northern Paper Mills - 1 year

(e) U. S. Army - 3 years

3. Manager - Fuel and Fossil Operations

A. Functions, Responsibilities and Authority

The Manager-Fuel and Fossil Operations is responsible for procurement, management, and offsite disposition of nuclear fuel and fuel materials and implementation of the quality assurance requirements associated with the fuel functions. He has responsibility for approval of directives which control activities affecting quality performed by the Fuel Management Staff. His authority and responsibility for procurement, management and offsite disposition of nuclear fuel and fuel materials and implementation of quality assurance requirements associated with these functions are specifically delegated to the Director-Fuel Services.

B. Educational Background

University of Wisconsin - B.S.Ch.E. 1947

University of Michigan - Fundamentals of Nuclear Engineering 1970
Numerous Management and Technical seminars in both nuclear and power generation.

WPS - Nuclear Training for Engineers

C. Experience

(1) Nuclear

(a) Directly Related

Superintendent - Steam Plants - 1970 - 1977, responsible for management of all company steam powered generation including Kewaunee. Total generating capacity 1175 MW. Fossil Fuel procurement and nuclear fuel management. Supervised staff of 330.

1977 - Present - Manager - Fuel and Fossil Operations, responsible for fossil and nuclear fuel procurement and fuel management. 32 years with WPS.

(2) Other

1965 - 1970 - Superintendent - Pulliam Power Plant.
400 MW fossil fired plant - Supervised 140 people.

4. Superintendent - Power Plant Design and Construction

A. Functions, Responsibilities and Authority

The Superintendent-Power Plant Design and Construction, is responsible for design and construction of new power generation facilities and major retrofit activities associated with existing stations and for ensuring that a Quality Assurance Program is developed, implemented and maintained to meet the licensing requirements. He also has responsibility for providing engineering support for plant modifications. He has delegated his authority and responsibility for the WPS Operational Quality Assurance Program (OQAP) to the Quality Assurance Supervisor. He has delegated his authority

and responsibility for support of plant modification to the Power Plant Design Engineer. He is responsible for final review and approval of changes to the OQAP.

B. Educational Background

University of Wisconsin - B.S.M.E 1961
Registered PE - Wisconsin 1967

C. Experience

(1) Nuclear

(a) Directly Related

Assistant Construction Engineer for Kewaunee

(b) Other

None

5. Manager - System Planning and Engineering

A. Function, Responsibilities and Authority

The Manager-System Planning and Engineering is responsible for system planning, system engineering and design and environmental affairs for the Power Supply & Engineering Dept.

B. Education and Background

University of Wisconsin - B.S.E.E. 1947
Registered PE - Wisconsin

C. Experience

(1) Nuclear

(a) Directly Related

None.

(2) Other

Served in various positions of responsibility in 32 years with WPS from engineer to Superintendent of Hydro Plants to General Superintendent Substation and Transmission to the present position.

6. Nuclear Licensing & Systems Supervisor

A. Functions, Responsibilities and Authority

The Nuclear Licensing and Systems Supervisor is responsible for functions and activities related to licensing matters with the Nuclear Regulatory Commission, and for providing engineering support to the plant staff relating to the nuclear steam supply system. He has responsibility for ensuring that functions and activities of the Nuclear Licensing and Systems Group are controlled and performed in accordance with appropriate approved directives. The responsibilities of the Nuclear Licensing and Systems Supervisor include:

- 1) Accident analysis of the Kewaunee Plant as presented in the FSAR.
- 2) Providing technical and licensing support to the plant and corporate staffs by providing for and reviewing all safety evaluations concerning changes to the Nuclear Steam Supply System (NSSS), Emergency Core Cooling System (ECCS) or related safety analyses and providing an interface with the Nuclear Regulatory Commission for all such matters.
- 3) Providing for investigation and reporting of matters to the NRC: (e.g., Licensee Event Reports, Technical Specification violations, unreviewed safety questions, operating reports, inservice inspection reports).
- 4) Development of training requirements for the Nuclear Licensing and Systems Group.

B. Educational Background

University of Wisconsin - B.S.N.E. 1968
Lynchburg College - 1968 - 1970
B&W Critical Experiment Facility - SRO, 2 years
B&W Lynchburg Pool Reactor - SRO, 2 years
Registered PE - Wisconsin 1978

C. Experience

- (1) Nuclear
 - (a) Directly Related

Two years were spent with Babcock and Wilcox as a Nuclear Engineer working with the critical facility. The past nine (9) years have been with WPS as Reactor Test Engineer during the preoperational and startup test program and in his present position. Responsible for Pre-Operational testing & startup of Kewaunee Plant NSSS. He is presently on leave of absence serving as a Nuclear Technical Advisor on the Presidents Commission to investigate Three Mile Island.

(b) Other

None

(2) Other

None

7. Nuclear Services Supervisor

A. Functions, Responsibilities and Authority

The Nuclear Services Supervisor is responsible for functions and activities related to engineering support for balance of plant systems and for the engineering activities associated with plant modification and special project activity. He is responsible for ensuring that functions and activities of the Nuclear Services Group are controlled and performed in accordance with appropriate approved directives. The responsibilities of the Nuclear Services Supervisor include:

- 1) Providing management of activities associated with plant modifications, (e.g., determination of the type of change, translation of design bases into design documents, analyses and design verification).
- 2) Primary contact for negotiating with consultants and contractors in support of nuclear operations.
- 3) Providing technical support to the plant for balance of plant systems and special project activities (e.g., refueling, inservice inspection, NPRD).
- 4) Development of training requirements for the Nuclear Services Group and coordination of supervisory training programs for the nuclear group.

B. Educational Background

University of Wisconsin - B.S.Ch.E. 1966
Naval Nuclear Power School - Graduate
Naval Nuclear Prototype School - Graduate
Officer Sub School - Graduate

C. Experience

- (1) Nuclear
 - (a) Directly Related

Eight years with WPS as Safeguards Test Engineer, Technical advisor to the Kewaunee Plant Manager and as Nuclear Services Supervisor.

(b) Other

Five and one-half (5 1/2) years spent in the Nuclear Navy; held every officer position in the engineering department on a nuclear submarine except "Engineer". Was recommended for "Engineer" at time of discharge. Qualified as "Engineering Officer of the Watch".

(2) Other

None

8. Quality Assurance Supervisor

A. Functions, Responsibilities and Authority

The Quality Assurance Supervisor is responsible for preparing and maintaining the WPS OQAP and for ensuring its effective implementation. He is independent of cost and scheduling considerations and has the sufficient authority and organizational freedom to identify quality problems, stop work on nonconforming activities until deficiencies have been corrected, initiate, recommend or provide solutions and verify implementation of corrective actions.

B. Educational Background

Marquette University - B.S.M.E. 1963
University of Wisconsin - M.S.Met. Eng. 1966
Registered PE - Massachusetts 1970
Registered PE - Wisconsin 1978

C. Experience

- (1) Nuclear
(a) Directly Related

Past two (2) years has functioned as Quality Assurance Supervisor with a large percentage of effort being directed to the Kewaunee Plant.

- (b) Other

Served eight (8) years as Principal Engineer with Tele-dyne where 25% of time was spent on nuclear power plant work.

- (2) Other

(a) 3 years as senior metallurgist with Bell Aerosystems

(b) 3 years as Research Metallurgist with Allis Chalmers

9. Power Plant Design Engineer

A. Functions, Responsibilities and Authority

The Power Plant Design Engineer is responsible for providing engineering and design support to the Nuclear and fossil plants. His three (3) engineers and two (2) draftsmen are responsible for a major number of design changes at the Kewaunee Plant.

B. Educational Background

Marquette University - B.S.M.E. 1956
Registered PE - Wisconsin 1976

C. Experience

- (1) Nuclear
(a) Directly Related

Instrument and Control Engineer - preoperational testing at Kewaunee, specializing in instrument testing, primary responsibility was balance of plant equipment and some safeguards equipment.

Pre-Operational Test Supervisor - responsible for coordinating all pre-operational testing from cold hydro to fuel loading. Staff consisted of over 30 test engineers and support people.

Test Engineer - Performance startup tests during the period of fuel load to commercial operation.

Power Plant Design Engineer - Present Position

- (b) Chairman - Nuclear Safety Review and Audit Committee

(2) Other

(a) Bailey Meter Co. - Sales/Service Engineer 9 years

10. Environmental Engineer

A. Functions, Responsibilities and Authority

The Environmental Engineer has responsibilities for corporate environmental affairs, including corporate environmental policies and implementation. He is responsible for initiation of environmental surveillance and special study programs to meet local, state and federal regulations.

B. Educational Background

Michigan Tech. University - B.S.Ch.E. 1969
Westinghouse Nuclear Training
Numerous Seminars on Nuclear Power - 1970 - 1975

C. Experience

(1) Nuclear

(a) Directly Related

Startup Test Engineer during pre-operational and startup test program at Kewaunee.

(b) Other

Present position affords him the responsibility for all environmental affairs as they relate to Kewaunee.

(2) Other

Union Carbide - Four (4) years - Engineer

11. Director - Fuel Services

A. Functions, Responsibilities, and Authority

The Director-Fuel Services is responsible for procurement, management, and offsite disposition of nuclear fuel and fuel related materials. The responsibilities of the Director-Fuel Services include:

- 1) Providing coordination of activities associated with nuclear fuel and core design, (e.g., design analyses and design verification).
- 2) Development of training requirements for the Nuclear Fuel Management staff.
- 3) Approval of Fuel Management Procedures affecting quality.

B. Educational Background

University of Wisconsin	BS Nuclear Engineering	1965
University of Wisconsin	MS Nuclear Engineering	1966
RPI - Advanced Courses		1967

C. Experience

- (1) Nuclear
 - (a) Directly Related

Directs fuel services activities, including reload design of reactor cores and related fuel management including reactor physics analysis and safety analysis.

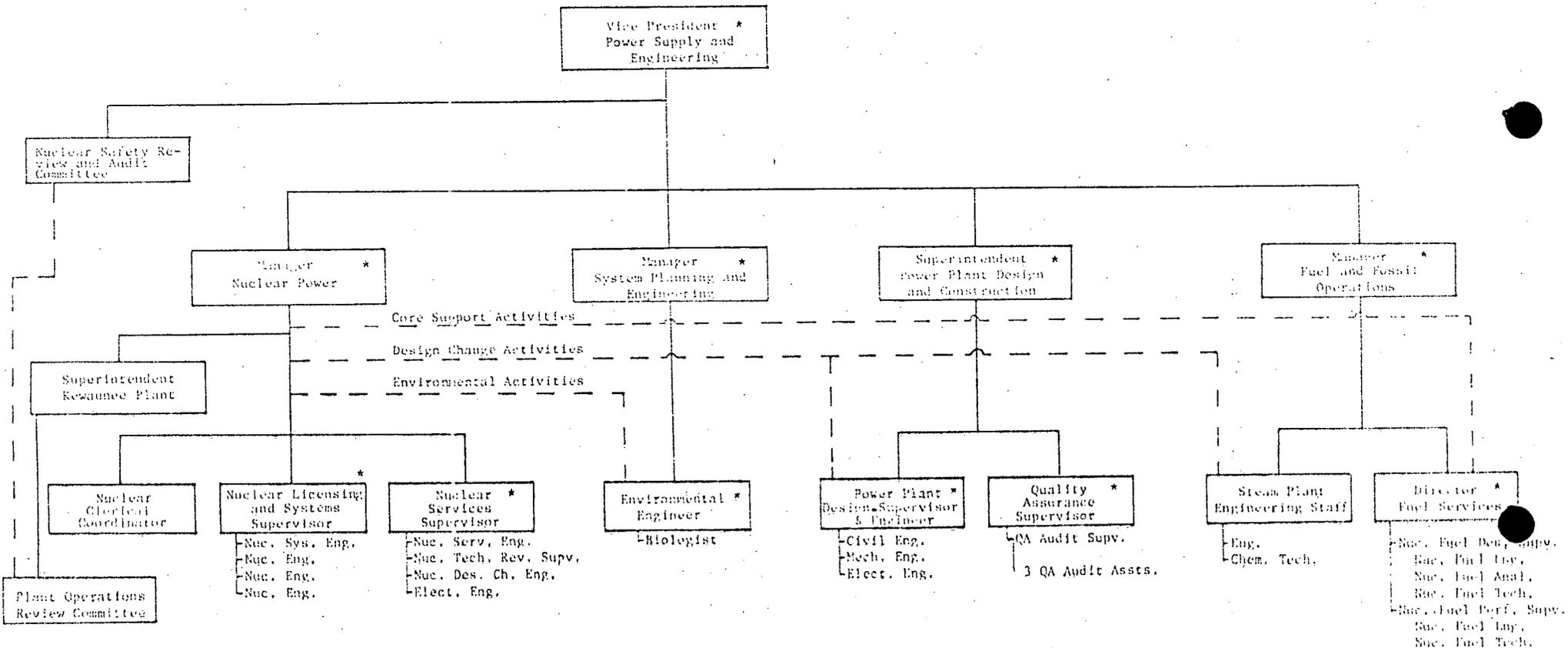
- (b) Other

Spent two years at Knolls Atomic Power Laboratory as a design physicist.

- (2) Other

None.

FIGURE 1



----- Direct Line Responsibility

- - - - - Coordination/Communication

* Management

FUNCTIONAL ORGANIZATION
POWER SUPPLY AND ENGINEERING DEPARTMENT
WISCONSIN PUBLIC SERVICE CORPORATION

II.A. TECHNICAL RESOURCES (PLANT - MANAGEMENT)

Attached Figure 2 provides the plant organization which can provide experienced management and technical functions in the event of an accident. These individuals have the responsibility and authority to function in areas of operation, coordination of activities with local, state and federal agencies in response to any accident condition.

The functions, responsibilities and authority associated with each position and the educational and experience background for the incumbent are described in Table II-1.

TABLE II-1

TECHNICAL RESOURCES (PLANT)

A. TECHNICAL POSITIONS

1. Plant Superintendent (Kewaunee Nuclear Plant)

A. Functions, Responsibilities and Authority

The Plant Superintendent is responsible for the safe and reliable operation and maintenance of the plant. He is responsible for assuring that all plant activities are in compliance with regulatory requirements. He has the responsibility for the review, approval, and verification of implementation of plant administrative directives which control activities affecting quality. He has delegated the responsibility for maintenance of plant equipment to the Assistant Superintendent-Maintenance. He has delegated the responsibility for safe operation of the plant to the Assistant Superintendent-Operations. He has delegated responsibility for technical support and training to the Technical Supervisor. He has delegated the responsibility for verifying the effectiveness of plant quality activities to the Nuclear Plant Performance Engineer through the Technical Supervisor. He has delegated responsibility for the security program implementation and other administrative activities to the Administrative Assistant.

B. Educational Background

Michigan Tech. University - B.S.E.E. 1950
Univ. of Wisconsin - Nuclear Engineering 1967 - 1968
OCD Radiological Monitoring Instr. Course 1962
Univ. of Michigan - Public Util. Exec. Course 1968

C. Experience

- (1) Nuclear
(a) Directly Related

Plant Superintendent - Kewaunee 8 years, staff of 110 people

- (b) Other

None

- (2) Other

Results Engineer, Production Supervisor and Plant Superintendent's Pulliam (Coal Fired) Plant - 20 years. Plant staff varied from 3 to 140 people.

2. Assistant Superintendent - Maintenance

A. Functions, Responsibilities and Authority

The Assistant Superintendent-Maintenance is responsible for maintenance of plant equipment and implementation of appropriate requirements of the OQAP. The responsibilities of the Assistant Superintendent-Maintenance include:

- 1) Providing for control of all maintenance and I & C activities in his area of responsibility including preventative and corrective maintenance, inspections and tests and assuring compliance with regulatory requirements and applicable sections of the technical specifications.
- 2) Developing and maintaining the maintenance planning and scheduling program and plant component retrieval listings.
- 3) Coordinating the scheduling and planning of plant refueling and maintenance outages.

B. Educational Background

Michigan Technological University - B.S.M.E. 1957
Univ. of Wisconsin Nuclear Course - 1967 - 1968
WPS Nuclear Study Course
Qualified Operator - Saxton Reactor - 1970
Qualified SRO - Kewaunee 1973-1977

C. Experience

(1) Nuclear

(a) Directly Related

Assistant Superintendent - Kewaunee 1 year
Assistant Superintendent - Maintenance 5 years

(b) Other

Qualified for license on Saxton Plant

(2) Other

Results Engineer, Power Plant Engineer, Production Supervisor - 17 years.

3. Assistant Superintendent - Operations

A. Functions, Responsibilities and Authority

The Assistant Superintendent-Operations is responsible for the safe operation of the plant and for implementation of appropriate requirements of the OQAP. The responsibilities of the Assistant Superintendent-Operations include:

- 1) Providing for control of inspections or tests performed at the plant which are in his area of responsibility.
- 2) Directing plant operations to assure compliance with regulatory requirements, applicable sections of the technical specifications, OQAP requirements, and safety and limiting conditions including responsibility for control of temporary changes.
- 3) Directing the safety aspect of reactor startup and operation, core performance and fuel handling activities and assuring these activities meet all regulatory requirements.
- 4) Providing for preparation, review, analysis and evaluation of plant operating data.

B. Educational Background

University of Wisconsin - B.S. - Applied mathematics and Engineering Physics 1964
Numerous (13) Special Courses and Training Sessions on Nuclear Power
RO - Saxton Plant
RO/SRO - Kewaunee 6 years

C. Experience

(1) Nuclear

(a) Directly Related

Reactor Supervisor - 6 years - Kewaunee
Assistant Superintendent-Operations - 4 years - Kewaunee

(b) Other

None

(2) Other

Allis Chalmers - Field Service Engineer - 4 years.

4. Technical Supervisor

A. Functions, Responsibilities and Authority

The Technical Supervisor is responsible for technical support, HP and Rad Chem activities, training and implementation of appropriate requirements of the OQAP. The responsibilities of the Technical Supervisor include:

- 1) Directing the radiological control, industrial safety, chemical analysis and discharge control programs at the plant to meet all regulatory requirements.
- 2) Directing the development and implementation of the training program for plant licensed and non-licensed personnel.
- 3) Providing a program for transfer and shipment of all radioactive waste to meet regulatory requirements.
- 4) Providing compliance with applicable sections of the technical specifications.

B. Educational Background

University of Colorado - B.A. - Chemistry 1958
Post Graduate Courses
Training Schools (7).
Licensed Operator - ETR, MTR, ATR

C. Experience

(1) Nuclear

(a) Directly Related

General Engineer - Kewaunee - 3 years (Construction)
Technical Supervisor - Kewaunee - 5 years (Operation)

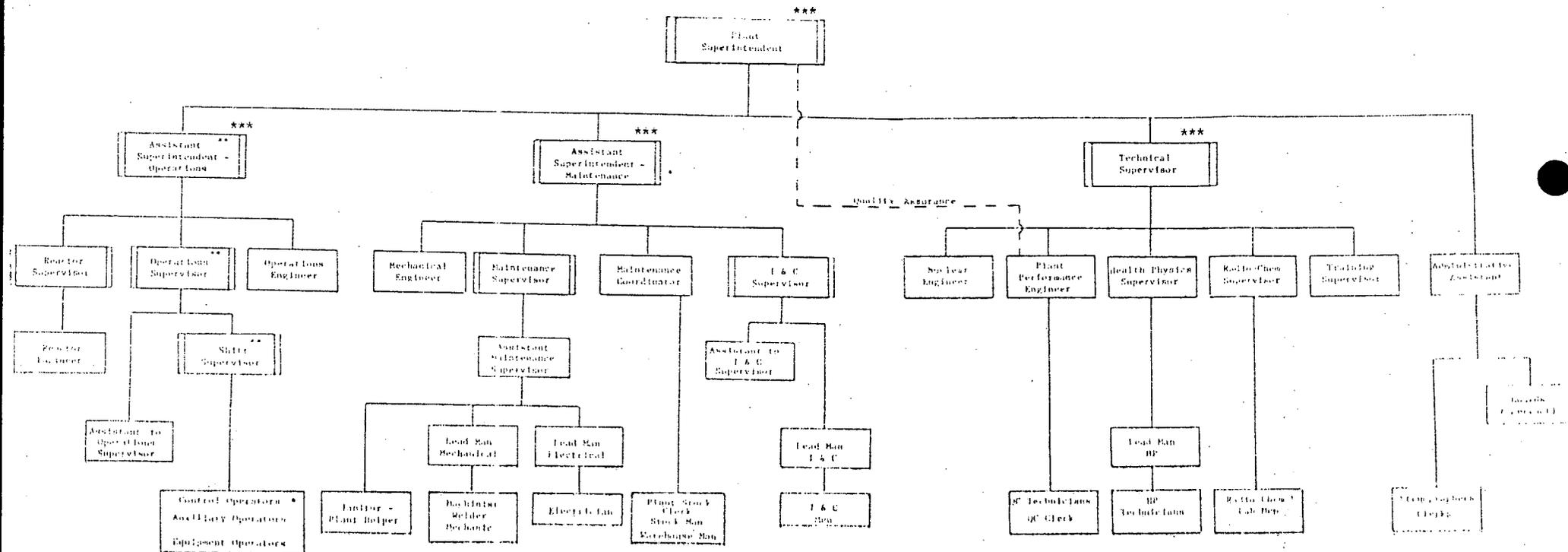
(b) Other

Reactor Engineer and Senior Reactor Engineer at MTR, ETR
12 years.

(2) Other

Research Chemist - 1 year - Beech Aircraft

FIGURE 2



KEWAUNEE NUCLEAR POWER PLANT
 ORGANIZATION CHART UNIT NO. 1
 WISCONSIN PUBLIC SERVICE CORPORATION

Operating Shift
 Complement (5)

- 1 Shift Supervisor
- 1 A Control Operator
- 1 B Control Operator
- 1 Auxiliary Operator
- 1 Equipment Operator

Key or Technical Personnel

- * Reactor Operator License
- ** Senior Reactor Operator License
- *** Management

II.A.1 TECHNICAL RESOURCES (PLANT STAFF)

Figure 2, section II.A provides the organization chart for the plant technical staff. The qualifications are tabulated in Tables II.A-2A through II.A-2C. The tables include the qualifications of all technical personnel except for the Plant Superintendent.

TABLE II.A-2A

TECHNICAL STAFF - (PLANT)

Operations

1. Total Number	34	10 Supervisory 11 Control Operators 5 Equipment Operator* 8 Aux. Oper/ Aux. Control Oper.*
2. Education		* Not included in tabulation
BS - Nuc. Eng.	1	
BS - Elec. Eng.	1	
BS - Education	1	
Graduate Courses	2	
Navy Nuclear School	10	
Nuc. Training School	18	
3. Experience (Man-Yrs.)		
(a)Engineering	35	
1)Nuclear	27	
2)Eng. Mgmt.	19	
3)RO/SRO	17	
4)Total Utility	54**	** Includes 3 degreed personnel and Operations Supervisor
(b)Operations (Man Yrs.)	***	***Includes Operations Support personnel, Shift Supervisors &Control Operator
1)Plant Operations	209	
2)Operator (RO)	47.5	
3)Operator (SRO)	30.5	
4)Total Utility	209	

TABLE IIA-2B

TECHNICAL STAFF (PLANT)Technical Support

1. Total Number	19	4 Supervisory 15 Wage & hour
2. Education		
BS - Chemistry	2	
BS - Elec. Eng.	1	
BS - Math/Phys/Eng	1	
Navy Nuclear School	4	
Nuclear Training School	3	
3. Experience (Man-Yrs.)		
a) Engineering/Tech	121	
1) Nuclear	110	
2) Tech. Mgmt.	36	
3) Total Utility	54	
b) Field		
1) Chemistry	45	
2) Quality Control	6	
3) Health Physics	33	
4) Training	4	
5) RO	4	
6) SRO	4	

TABLE IIA-2C

TECHNICAL STAFF - (PLANT)

		Maintenance	
1.	Total Number	43	This tabulation includes professional, supervisory and lead men only.
2.	Education		
	BS - Mech. Eng.	2	
	BS - Elec/Comp. Eng.	1	
	BS - Elec. Eng.	1	
	Navy Nuclear Schools	3	
	Nuclear Training Schools	4	
	Trade Schools	5	
3.	Experience** (Man Yrs.)		**Professional Only
	(a)Engineering	57	
	1)Nuclear	32	
	2)Eng. Mgmt.	20	
	3)Maintenance	14	
	4)Total Utility	37	
	(b)Field* (Man Yrs)	284.5	*Non-Professional Only
	1)Maintenance	120.5	
	2)Supervisory	52.5	
	3)Total Utility	111.5	

II.B. TECHNICAL RESOURCES (OFFSITE)

Figure 1, section I.A, provides the organization chart for the offsite, nonplant, technical staff. The qualifications are tabulated in Tables IIB-2A through IIB-2G. The functions and responsibilities of each group are described in Section I.A. The tables include the qualification of supervisory personnel listed in Section I.A. Management Resources, except for the Vice-President, three managers, and the Superintendent - Power Plant Design and Construction.

TABLE IIB-2A

TECHNICAL STAFF (OFFSITE)

	Nuclear Licensing & Systems Group	Remarks
1. Total Number	5	
2. Education		
BS - Nuc. Eng	3	
BS - Mech/Aeron	1	
BS - Applied Physics	1	
MS - Nuc. Eng.	1	
MS - Physics	1	
MS - Mech/Aeron	1	
3. Technical Experience (Man-Yrs.)		
a. Engineering	29.5	
(1) Nuclear	27.5	
(2) Eng. Mgmt.	7.0	
(3) Total Utility	16.5	
b. Field		
(1) Reactor Physics	2 (F)	
(2) Instructor	3 (F)	
(3) Operator	6 (F)	Licensed SRO
(4) Test	8 (F)	

(F) Full Time

TABLE IIB-2B

TECHNICAL STAFF (OFFSITE)

	Nuclear Services Group	Remarks
1. Total Number	5	
2. Education		
RS - Chem Eng	1	
BS - Nuc. Eng	2	
BS - Elect. Eng	1	
3. Technical Experience (Man-Yrs.)		
a. Engineering	52	
(1) Nuclear	51	
(2) Eng. Mgmt.	4	
(3) Total Utility	27	
b. Field		
(1) Test Eng	11 (F)	
(2) Nuc. Navy	13.5(F)	
(3) Elec. Eng.	1 (F)	
(4) Consultant	4 (F)	
(5) Nuc. Eng.	16 (F)	
(6) Operations	9 (F)	Licensed SRO

TABLE IIB-2C

TECHNICAL STAFF (OFFSITE)

	Environmental Group	Remarks
1. Total Number	2	
2. Education		
BS - Chem. Eng.	1	
BS - Biology	1	
MS - Biology	1	
3. Technical Experience (Man-Yrs.)		
a. Engineering	14	
(1) Nuclear	6	
(2) Eng. Mgmt.	5	
(3) Total Utility	15	
b. Sciences		
(1) Nuclear	5	
c. Field		
(1) Test Eng.	3	
(2) Environmental	7	

TABLE IIB-2D

TECHNICAL STAFF (OFFSITE)

	Power Plant Design & Constr.	Remarks
1. Total Number	5	Construction Engineer is included - but does not report to PP Design Eng.
2. Education		
BS - Mechanical	1	2 Engineering vacancies exist in group
BS - Eng.	1	
BS - Civil	1	
3. Technical Experience (Man-Yrs.)		
a. Engineering	38	
(1) Nuclear	13	
(2) Eng. Mgmt.	3	
(3) Total Utility	22	
b. Field		
(1) Construction	7 (N)	
(2) Test Eng.	9 (F)	
(3) Design	5 (F)	

TABLE IIB-2E

TECHNICAL STAFF (OFFSITE)

	Quality Assurance Group	Remarks
1. Total Number	5	
2. Education		
BSME	1	
MS - Metal Eng.	1	
Assoc. Deg. Elect.	1	
3. Experience (Man-Yrs.)		
a. Engineering	16	
(1) Nuclear	12	
(2) Eng. Mgmt.	2	
(3) Total Utility	25.5	
b. Field		
(1) Instrumentation	24	
(2) Metallurgist	14	
(3) Qual. Assurance	36	

TABLE IIB-2F

TECHNICAL STAFF (OFFSITE)Fossil Plant
Engineering

1. Total Number	3
2. Education	
BS ME	1
BS EE	1
3. Experience (Man-Yrs.)	
a) Engineering	31
1) Fossil Plant	30
2) Eng. Mgmt.	10
3) Maintenance	9
4) Technician	30
5) Total Utility	60
b) Field	
1) Chemistry	30
2) Maint. Eng.	8
3) Test/Oper	13

TABLE IIB-2G

TECHNICAL STAFF (OFFSITE)Reactor Fuel Design

1. Total Number	5
2. Education	
BS - Nuclear Eng.	2
BS - Physics	1
BS - Mathematics	1
BA - Phy/Math	1
MS - Nuclear Eng.	3
3. Experience (Man-Yrs.)	
a) Engineering	27
1) Nuclear	27
2) Eng. Mgmt.	13
3) Total Utility	38
b) Analytical	38
1) Reactor Physics	8
2) Core & Reload Design	13
3) Fuel Design	17