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 DISE, D.P. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation

SUBJECT: Submits info re mgt & technical resources available to
 respond to unusual event, in response to NRC 790629 request.

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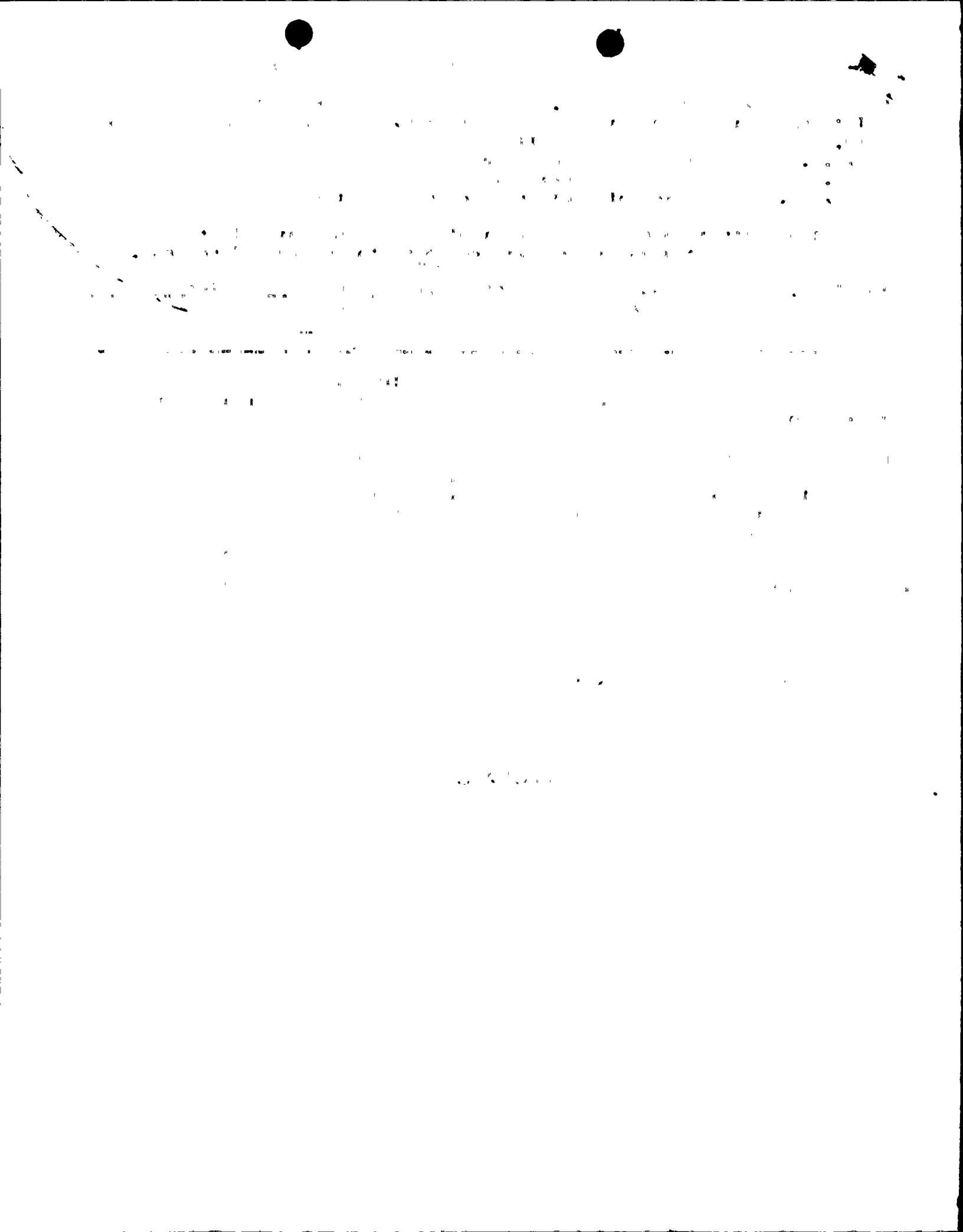
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Rpt JACKET ENTITLED, " INFORMATION REQUESTED TO
 REVIEW CORPORATE CAPABILITIES TO RESPOND
 TO UNUSUAL TYPE EVENTS AT NUCLEAR POWER
 PLANTS."

AUG 14 1979

*THAD
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August 10, 1979

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

REGULATORY DOCKET FILE COPY

Dear Mr. Denton:

RE: Nine Mile Point Unit 1
Docket No. 50-220

Enclosed is the information requested by your June 29, 1979
letter regarding the management and technical resources available
to Niagara Mohawk Power Corporation.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

Donald P. Dise

Donald P. Dise
Vice President-Engineering

PEF/djc
Enclosure

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INFORMATION REQUESTED TO REVIEW CORPORATE CAPABILITIES
TO RESPOND TO UNUSUAL TYPE EVENTS AT NUCLEAR POWER PLANTS

50-220
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MANAGEMENT RESOURCES (OFFSITE)

1. Figure 1 is an organizational chart showing each position (below the Executive Vice President) for which the person filling the position could be depended upon to provide experienced management functions in the event of an accident.
2. Table 1 describes the functions, responsibilities and authority associated with each of the positions shown in Figure 1, as well as the educational and experience background for the incumbent in each of the designated positions.

PLANT STAFF TECHNICAL RESOURCES

1. Figure 2 is a plant staff organizational chart showing the professional level technical positions.
2. Table 2 provides a description of the functions of the positions shown in Figure 2 as well as the educational background, applicable work experience and other pertinent information.

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OFFSITE (NON-PLANT STAFF) TECHNICAL RESOURCES

1. Figures 3, 4 and 5 are organizational charts, showing each offsite functional unit that now provides or could provide engineering, professional and technical support for our plant staff.
2. Table 3 provides the educational background, applicable work experience and other pertinent information of the personnel in each unit. The personnel under the heading of Other in Table 3 have a level of expertise which would be useful in performing necessary or unique functions for unusual events like the TMI-2 accident. However, they now work in departments which would not be called upon to provide support functions.
3. The functions and responsibilities are given below for each unit indicated in Table 3 as being assigned to support or could be assigned to support our nuclear power plant.

a. Nuclear Generation Engineering --

Responsible for nuclear licensing and fuel management of nuclear power plants, as well as plant modifications to operating nuclear plant. This includes technical submittals to NRC, safety evaluations, reload fuel procurement activities and conceptual design of plant improvements and modifications.

b. Fossil Generation Engineering --

Responsible for the conceptual design including overall scope, objectives and design parameter for plant improvements and modifications to our operating fossil generating plants.

c. Hydro Generation Engineering --

Responsible for the conceptual design including overall scope, objectives and design parameters for plant improvements and modifications to our operating hydro generating plants.

d. Protection Engineering --

Responsible for maintaining the integrity of the Niagara Mohawk Power System which includes all power generating stations. Within a generating station this responsibility involves control and protection of major electrical equipment and the station power distribution system, including diesel generators and offsite emergency power supply.

e. Equipment Analysis --

Responsible for analysis of electrical and mechanical equipment failures such as power transformers, station auxiliaries, pumps, motors, etc. Determining the cause of failure and how to prevent them.

f. Electrical Generation Station Engineering --

Responsible for final detailed design of electrical improvements and modifications to operating generating stations including our nuclear power plant.

g. Mechanical Engineering --

Responsible for final detailed design of piping systems and other mechanical improvements and modifications to operating generating stations including our nuclear power plant.

h. Mechanical Instrument and Control Engineering --

Responsible for final detailed design of instrumentation and control system improvements and modifications to operating generating stations and transmission stations, including our nuclear power plant.

i. Civil & Structural Steam Station Engineering --

Responsible for final detailed design for structural improvements and modifications to operating steam stations including our nuclear power plant.

j. Civil & Structural Hydro Engineering --

Responsible for final detailed design of structural improvement and modifications to operating hydro stations.

FIGURE 1

OFFSITE MANAGEMENT RESOURCES

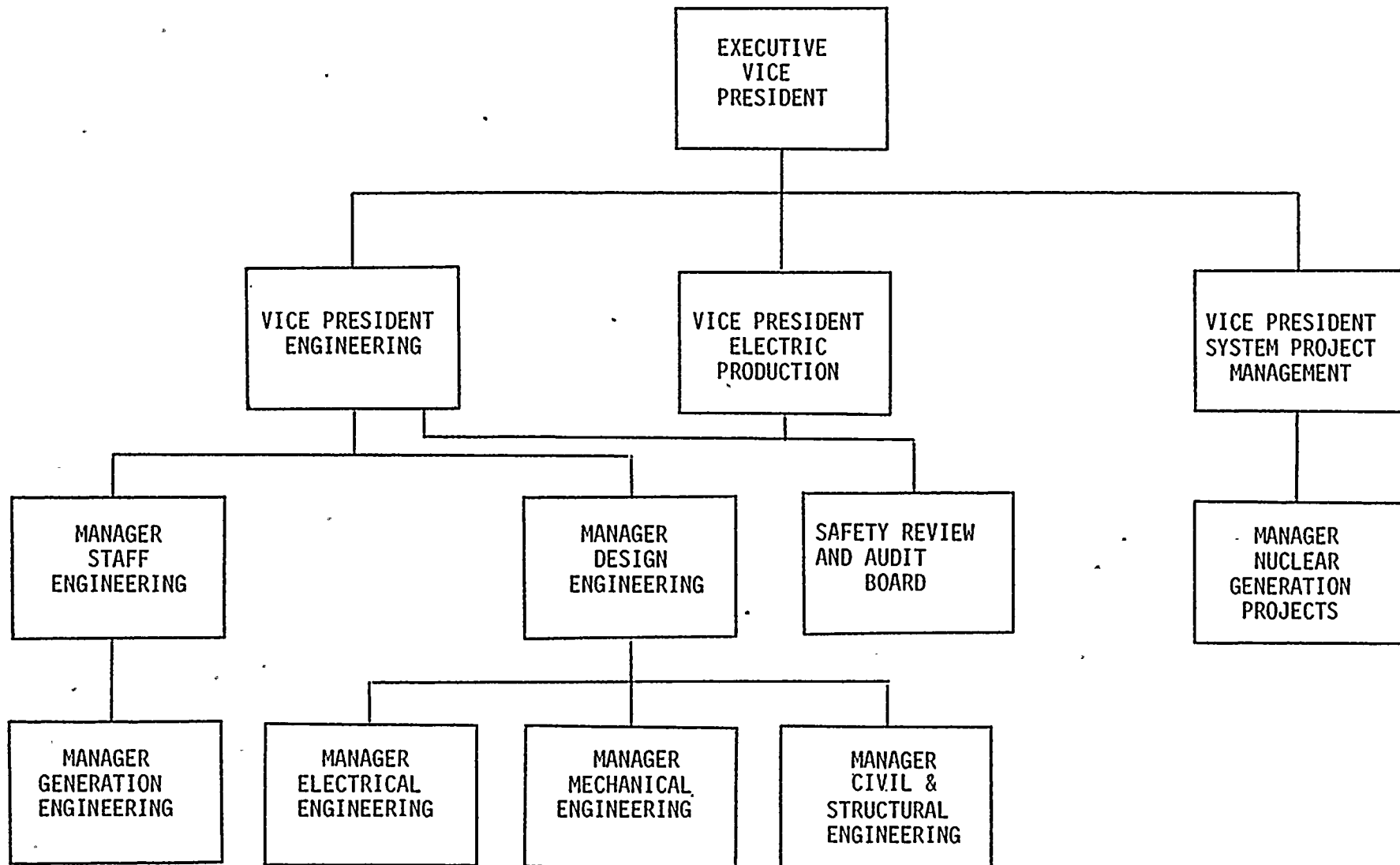


TABLE 1
MANAGEMENT RESOURCES (OFFSITE)

A. Management Positions

1. Vice President -
System Project Management

A. Functions, Responsibilities & Authorities:

Responsible for timely completion in a cost-effective manner of all expansion projects and certain improvement projects. Accountable for all aspects of projects including design, construction, licensing, purchasing legal matters, etc., through initial operation of the completed project.

B. Education:

B.S. Mechanical Engineering
Oak Ridge School of Reactor Technology

C. Experience:

(1) Nuclear-Directly Related*

Six years in nuclear reactor design and development as chief of advanced planning staff for the Babcock & Wilcox Company.

Nine years in Nuclear Engineering Group involved in the design and licensing of Nine Mile Point Unit 1.

Two years as Administrative Assistant to Manager System Staff Engineering.

(2) Other Nuclear Experience:

Two years Manager of System Engineering including generation licensing and Nuclear and Fossil Fuel Management.

(3) Other Experience:

Two years as Manager System Planning, involved planning for generation additions.

Two years as Vice President - Engineering responsible for all plant, transmission, and substation addition and modifications.

* Directly related nuclear experience is defined as that experience judged useful in performing necessary and unique functions for unusual events like the TMI-2 accident.

1. Vice President -
System Project Mgmt. (Cont'd.)

Two years as Vice President -
System Project Management responsible
for all expansion projects and certain
improvement projects.

2. Vice President -
Electrical Production

- A. Functions, Responsibilities and Authorities:

Responsible for operation of all nuclear
and fossil steam electric production plants
in the system.

- B. Education:

B.S. Electrical Engineering

- C. Experience:

- (1) Nuclear-Directly Related

None

- (2) Other Nuclear Experience

None

- (3) Other Experience

Fifteen years as an electric planner
performing design interface with
electrical design and field operations.

Three years as general foreman in
the electric department.

Eighteen years in various management
positions of electric operations in the
company's Central Division. Responsible
for hydro and fossil plant operations.

Six years as Vice President Electric
Production, with direct responsibility
for the operation and maintenance of
nuclear and fossil electric production
plants.

3. Vice President
Engineering

- A. Functions, Responsibilities and Authorities:

Directing all design activities for all
existing company facilities. Directing
all design activities with regard to
nuclear and hydro licensing with the
Nuclear Regulatory Commission and the
Federal Energy Regulatory Commission,
including testimony, as required for
legal or Commission proceedings.

3. Vice President
Engineering (Continued)

Assisting other departments in technical or budget matters. Planning new company facilities, including location, type and quality. Developing standards for new and existing company facilities.

B. Education:

B.S. Electrical Engineering

C. Experience:

(1) Nuclear-Directly Related

Eleven years as Senior Electrical Engineer responsible for electrical design aspects of nuclear generation facility including reactor protection system and engineered safeguards.

One year as Assistant Project Manager-Nuclear Generation responsible for management of licensing, design, procurement, and construction of a nuclear generation facility.

(2) Other Nuclear Experience :

Two years as Manager Design Engineering responsible for electrical, mechanical, and nuclear design, for electric production and transmission facilities.

Five years as Manager Quality Assurance responsible for the overall operation of the corporate Quality Assurance Department and management of quality activities for the corporation.

(3) Other Experience:

Six years as Junior Engineer working on major and minor construction of large hydroelectric and fossil generation plants.

Four years as engineer responsible for design, studies, reports, and inspection of hydroelectric and fossil generation projects. Including supervising work of draftsmen, designers, and engineers.

Two years as the Vice President - Engineering responsible to the Executive Vice President for overall administration and operation of the Corporate Engineering Department.

4. Manager - Staff
Engineering

A. Functions, Responsibilities and Authorities:

Directing all conceptual and preliminary design and project management for generating stations, transmission, electrical stations, and buildings within Engineering.

Providing liaison with Area Engineers for hydroelectric stations, electric stations, transmission facilities and buildings for technical and budget matters.

Providing liaison with fossil and nuclear generating plant and System Project Management personnel for budget and technical matters.

Providing direction for all fossil and nuclear fuel engineering activities.
Providing direction for all nuclear licensing activities, including testimony as required.

Providing technical input, including testimony as required for licensing of transmission facilities, fossil and hydroelectric plants.

Directing the activities of Protection Engineering and Engineering standards.

B. Education:

B.S. Mechanical Engineering. Graduate, Oak Ridge School of Reactor Technology.

C. Experience:

(1) Nuclear-Directly Related

Ten years in nuclear design and engineering, involved in conceptual design of engineered safeguards, plant accident and transient analysis and licensing submittals for Nine Mile Point Unit 1.

(2) Other Nuclear Experience:

Four years as manager in Engineering Department. Responsible for overall management of conceptual design, of all plant improvements (nuclear, fossil, and hydro), licensing and nuclear fuel management.

4. Manager - Staff
Engineering (Continued)

(3) Other Experience:

Two years as Manager System Planning responsible for planning the addition of new generation.

Two years in design of steam turbines.

5. Manager - Design
Engineering

A. Functions, Responsibilities and Authorities:

Direction of all detailed design activities for generating stations, major transmission stations, electric stations and buildings.

Assisting in the conceptual and preliminary design activities, as required.

Providing technical input, including testimony as required for licensing of generation, transmission, electric stations and buildings.

B. Education:

B.S. Electrical Engineering
Graduate studies - no degree

C. Experience:

(1) Nuclear-Directly Related

None

(2) Other Nuclear Experience:

None

(3) Other Experience:

One year as NASA Research Scientist included designing and troubleshooting control systems.

Seven years as Project Engineer involved in substation design.

Four years as Supervisor of Substation Design responsible for substation design activities in the Central Division.

Three years as Manager of Eastern Division Electrical Engineering. Responsible for engineering activities associated with substation design, electric studies and long-range planning, relay engineering and customer facilities engineering.

5. Manager - Design
Engineering (Continued)

Five years as Manager Division Engineering. Responsible for the administration and supervision of all Divisional Engineering Department functions related to the planning design and construction of an economical and reliable electric power and gas system.

One year as Manager Design Engineering responsible to manage, direct and coordinate all detailed design engineering activities associated with power plant engineering (nuclear, hydro, and fossil) major transmission and related stations and buildings.

6. Manager - Generation
Engineering

A. Functions, Responsibilities and Authorities:

Responsibilities include conceptual design and project management for all nuclear, fossil and hydro activities within Staff Engineering. Direction of all Nuclear Fuel Engineering and Nuclear Licensing and safety analysis activities.

B. Education:

B.S. Physics
M.S. Nuclear Engineering

C. Experience

(1) Nuclear-Directly Related

Five years in Fuel Engineering involved in reload design optimization, fuel management analysis, fuel reload safety analysis, plant technical support, technical evaluations related to nuclear fuel and various fuel related projects.

Three years as Supervisor of Nuclear Licensing and Fuel activities, including technical support, implementation of licensing requirements, safety evaluations for plant modifications and related studies.

(2) Other Nuclear Experience

One year in present position as Manager, Generation Engineering.

(3) Other Experience

None

7. Manager - Nuclear
Generation Projects

A. Functions, Responsibilities and Authorities:

Responsibility and authority to manage all assigned nuclear generation projects from assignment through initial operation of the completed project, scope includes all aspects of the assigned projects including licensing, design, construction quality assurance, testing, etc.

B. Education:

B.S. Engineering U.S. Naval Nuclear
Power School
M.S. Nuclear Engineering

C. Experience:

(1) Nuclear-Directly Related

Three years as Operations Engineer for nuclear propelled ship during final construction and testing and initial operation.

Two years as Supervisor of nuclear prototype plant operation and maintenance.

Three years as Start-Up Testing Engineer for commercial nuclear power plant. Reviewed and evaluated start-up test procedures, supervised testing and evaluated test results.

Two years as Design Engineer during initial stages of commercial nuclear power plant design.

Seven years as Manager of Design and Construction of nuclear power plant under construction.

(2) Other Nuclear Experience

None

(3) Other Experience

None

8. Manager - Mechanical Engineering

A. Functions, Responsibilities and Authorities:

Establishes, directs and coordinates the work of design groups in Mechanical and Instrument & Control Engineering for steam electric generation, hydroelectric generation and related substations.

Establishes and controls performance standards scheduling and technical requirements for subordinate personnel.

Establishes and controls work procedures and interfaces with other company departments. Assigns areas of authority and responsibility within group and resolves problem areas.

B. Education:

B.S. Electrical Engineering

C. Experience:

(1) Nuclear-Directly Related

Four years as Junior Engineer responsible for design of Class 1E electric systems and equipment and modifications to the systems for a nuclear engineering plant.

One year as Engineer responsible for design review of overall electric distribution systems including Class 1E equipment for a nuclear plant under design and construction.

Five years as Supervisor in Electrical Engineering group responsible for electrical design of nuclear, fossil and hydro plant improvements.

One year in present position as Manager Mechanical Engineering.

(2) Other Nuclear Experience

None

(3) Other Experience

None

9. Manager - Electrical Engineering

A. Functions, Responsibilities and Authorities:

Establishes, directs and coordinates the work of design groups in electrical engineering for plant improvements to nuclear, hydro and fossil electrical generating stations and substations.

Establishes and controls performance standards scheduling and technical requirements for subordinate personnel.

Establishes and controls work procedures and interfaces with other company departments. Assigns areas of authority and responsibility within group and resolves problem areas.

B. Education:

B.S. Electrical Engineering

C. Experience:

(1) Nuclear-Directly Related

None

(2) Other Nuclear Experience

One year directed the construction and installation at a nuclear plant security system.

(3) Other Experience:

Two years training in all phases of electric utility operations work such as stations, transmission and distribution, cable and underground and generation operations.

Eight years involved in all facets of electric substation work including direction of work forces to construct and maintain all types of substations and equipment from 4 - 345 KV.

Two years in training group. Managed and directed all types of company training including skilled and management. Involved in both development and implementation phases of various programs.

10. Manager - Civil &
Structural Engineering

A. Functions, Responsibilities and Authorities:

Establishes, directs and coordinates civil, structural and architectural engineering for plant improvements and modifications to nuclear, fossil and hydroelectric generating plants, major transmission lines, buildings and substations.

Establishes and controls performance standards, scheduling and technical requirements for subordinate personnel.

Establishes and controls work procedures and interfaces with other company departments. Assigns areas of authority and responsibility within group and resolves problem areas.

B. Education:

B.S. Civil Engineering

C. Experience:

(1) Nuclear-Directly Related

Nine years as Design Engineer in steam generation group. Involved in the design of civil and structural components of EVESR research reactor and in a commercial nuclear power plant. This involved structural design of reactor building and primary containment.

Ten years as Supervisor/Manager of Civil & Structural Engineering, responsible for all civil and structural design and contractors for improvements to nuclear, fossil and hydroelectric generating plants, transmission, substation and buildings.

(2) Other Nuclear Experience

None

(3) Other Experience

Four years as a draftsman and designer working on various hydroelectric projects.

11. Safety Review and Audit Board Members

a. Leonard Geller

A. Functions, Responsibilities and Authorities:

The Safety Review and Audit Board shall report to and advise the Vice President - Electric Production and Vice President - Engineering on those areas of responsibility specified in Section 6.5.2.7 and 6.5.2.8 of the Unit 1 Technical Specifications.

B. Education:

B.A. Mathematics
Ph.D Mathematics

C. Experience

(1) Nuclear-Directly Related

Six years in core physics design and thermal analysis and design of plant shielding on Combustion Engineering PWR's.

(2) Other Nuclear Experience

Eighteen years involved in various reactor studies on reactor siting, evaluation of NRC reactor safety, R&D and technology and economics of LWR's.

Two years at Oak Ridge National Laboratory worked at K-2's gaseous diffusion plant.

(3) Other Experience

Two years at Cornell Aeronautical Laboratory working on stability and design, optimization of automatic control systems.

b. Miles C. Leverett

B. Education:

B.S. Chemical Engineering
M.S.E. Petroleum Engineering
D.S.C. Chemical Engineering

b. Miles C. Leverett
(Con't.)

(1) Nuclear-Directly Related

Fifteen years work in safety division of GE Nuclear Energy Division. Organized and serves as Chairman of Safety Review of GE reactor plants before their start-up. Directs review of technologically potentially hazardous new products and advises on technical risk evaluation. Also monitors all technological hazards work in licensing and radiological health and safety.

(2) Other Nuclear Experience

Thirteen years in various assignments in Aircraft Nuclear Provision Department. Consulting Engineer of Research and Engineering at Hanford Laboratories.

(3) Other Experience

Employed one year as a chemist for paper company.

Nineteen years with oil companies as research chemist.

c. Larry M. McNeer

B. Education:

B.A. Chemistry

C. Experience:

(1) Nuclear-Directly Related

One year in charge of environmental radiological analyses and studies for military PWR's.

Eleven years in nuclear power plant licensing of BWR's. Preparation of FSAR and supplements.

Also performed duties as project engineer for various projects on BWR, including Ultrasonic Resin Cleaner, Traveling Belt Filter and Noble Gas Retention System.

(2) Other Nuclear Experience

Two years in health physics laboratory responsible for analyses of reactor and environmental samples.

c. Larry M. McNeer
(Con't.)

(3) Other Experience

None

d. Clayton R. Montgomery, Jr.

B. Education:

B.S. Mechanical Engineering

C. Experience:

(1) Nuclear-Directly Related

Six Years as Project Manager of Portland Units 5 and 6 and Oyster Creek and Berne Nuclear Station modifications. Responsible for all aspects of design and construction.

(2) Other Nuclear Experience:

Ten years as reactor engineer and Group Leader for SPERT Project.

Eight years as President and General Manager of Saxton Nuclear Experimental Corporation. Responsible for activities of Saxton Safety Committee.

(3) Other Experience:

Four years as Refinery Engineer and Project Engineer in Refining Department of oil company.

e. Norman L. Rademacher

B. Education:

B.S. Marine Nuclear Science

C. Experience:

(1) Nuclear-Directly Related

Five years as licensing coordinator for BWR in operation and one in design and construction. Preparation of licensing submittals to NRC on system designs.

e. Norman L. Rademacher
(Con't.)

(2) Other Nuclear Experience:

None

(3) Other Experience:

None

f. Ferdinand J. Schneider

B. Education:

B.S. Electrical Engineering

C. Experience:

(1) Nuclear-Directly Related

None

(2) Other Nuclear Experience:

Thirteen years as Vice President Operations at time of design construction start-up and COD of utilities first nuclear power plant.

Six years as consultant on SRAB

(3) Other Experience

Sixteen years in field operation, including hydro and steam plants.

Eleven years Supervisor, Engineering Design. Responsible for plant expansion and improvements.

g. John M. Toennies

B. Education:

B.S. Chemistry

C. Experience:

(1) Nuclear-Directly Related

Nine years as health physicist responsible for radiation surveillance and radiation hazard analysis of nuclear facility operations responsible for establishing and maintaining radiation protection programs and health physics procedures for military reactors.

g. John M. Toennies (Con't.)

One year included in review of shielding design and waste treatment system procedures for a BWR.

(2) Other Nuclear Experience

Three years as Health Physics Engineer concerned with radiation protection in uranium-plutonium separation facility and production reactor facilities.

(3) Other Experience

Ten years as Environmental Engineer responsibilities included administration of environmental consultant activities at companies steam electric generating stations.

FIGURE 2
PLANT STAFF ORGANIZATION

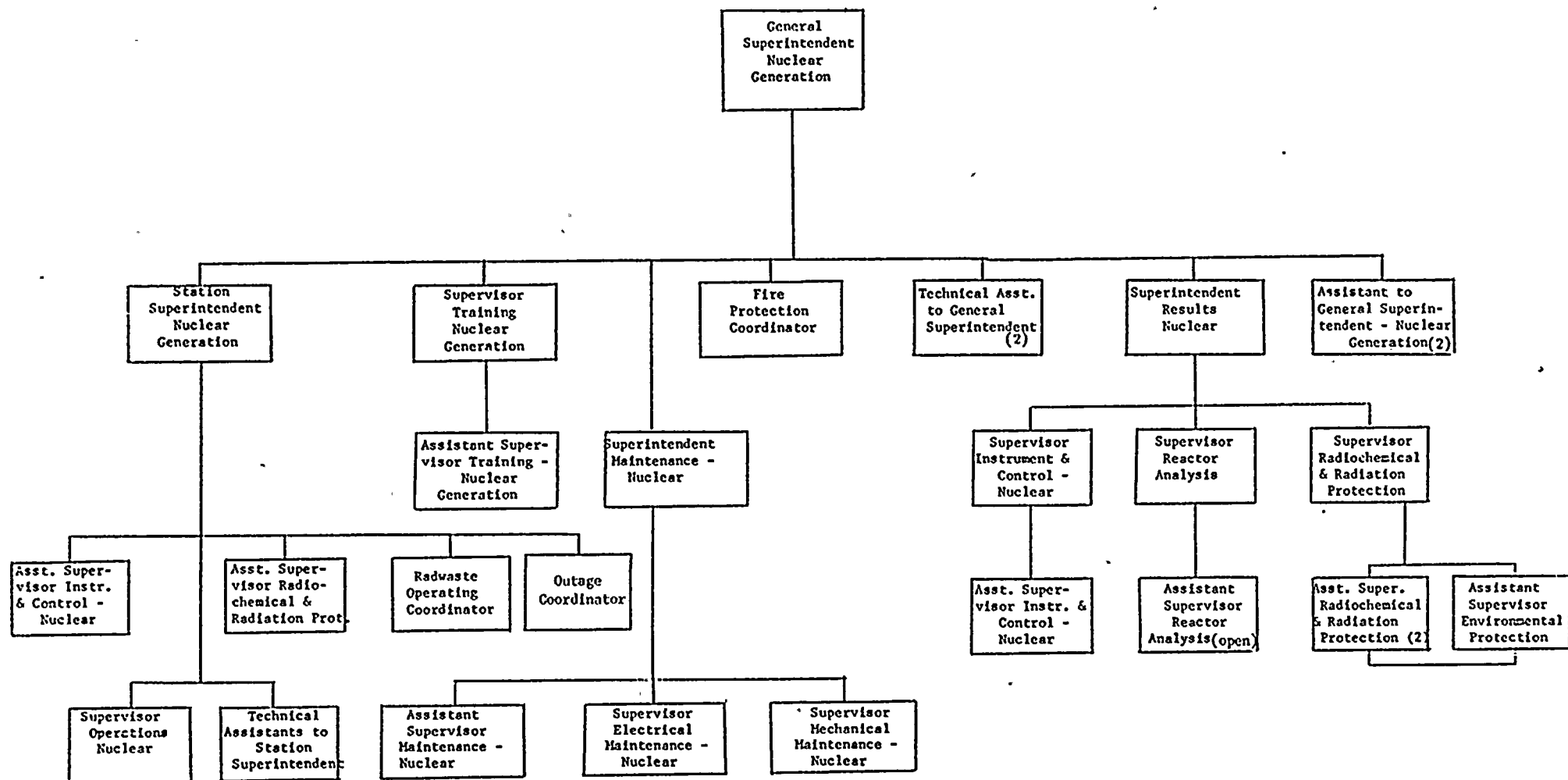


TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

General Superintendent
Nuclear Generation -
Responsibilities include:
overall operation, maintenance
and construction of Nine Mile
Point Site

- A. Educational Background -
B.S. in Engineering, Courses
in Nuclear Physics & Reactor
Technology
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Operations Supervisor NMP#1
 - Plant Superintendent JAFNPP
 - 2) Other Nuclear
 - Liason Engineer at EVESR
reactor
 - Three years in research &
development tests of sodium,
water reactions & liquid metal
steam generation at Enrico
Fermi
 - Project Engineering Dept. -
nuclear steam supply system
 - 3) Other Work Experience
 - Navy
 - Instructor in Engineering
 - Technician - setting up &
teaching testing, calibration,
& trouble shooting control
systems
- C. Other Information
 - Senior Reactor Operator License
for EVESR & NMP#1
 - Professional Engineer License

* Directly-related nuclear experience is defined as that experience judged useful in performing necessary and unique functions for unusual events like the TMI-2 accident.

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant to General
Superintendent Nuclear Gen.
Responsibilities include:
executes studies & special
projects to enhance overall
nuclear plant efficiency

- A. Educational background
B.S. Nuclear Engineering, Station
Nuclear Engineer Course
- B. Experience
 - 1) Nuclear - Directly-Related*
- Present Position
 - 2) Other Nuclear
- Related nuclear courses
 - 3) Other Work Experience
- Health Physics Technician

Assistant to General
Superintendent Nuclear Gen.
Responsibilities include:
executes studies & special
projects to enhance overall
nuclear plant efficiency

- A. Educational Background
B.S. & M.S. in Chemical Engineering,
PhD Candidate
- B. Experience
 - 1) Nuclear - Directly-Related*
- Present Position
 - 2) Other Nuclear
- Related nuclear courses
 - 3) Other Work Experience
 - Army
 - Test Technician testing &
troubleshooting computer
systems
- C. Other Information
 - Associate Member of AIChE
 - Satisfactory Completion of ASDC
and PUR

* Directly-related nuclear experience is defined as that experience judged useful in performing necessary and unique functions for unusual events like the TMI-2 accident.

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Technical Assistant to
General Superintendent
Nuclear Generation
Responsibilities include:
execute studies & special
projects concerning design,
construction and operation
of nuclear power plant

- A. Educational Background -
BS Electrical Engineering,
Courses in Reactor Physics,
and Radiation Protection,
GE MAC Instrumentation, BWR
Technology Courses, Simulator
Training
- B. Experience
 - 1) Nuclear - Directly-Related
 - Asst. to Supt. Operations
 - Supervisor Operations
 - Reactor Physics - Startup
Test Engineer
 - Radiation Protection
 - Instrument & Control
 - 2) Other Nuclear
 - Related Technology Courses
 - On the job training in
various departments mentioned
above
 - 3) Other Work Experience
 - Groundman
- C. Other information
 - Held Reactor Operator License
 - Observed startups, shutdown,
pulled criticals, BWR Simulator
training

Technical Assistant to
General Superintendent
Nuclear Generation -
Responsibilities include:
execute studies & special
projects concerning design,
construction & operation of
nuclear power plant

- A. Educational Background -
Assoc. & BS in Mechanical Engineering,
Metals Engineering Institute
- B. Experience
 - 1) Nuclear - Directly-Related
 - Asst. to General Supt.
 - Asst. to Plant Supt.
 - 2) Other Nuclear
 - Nondestructive Testing
 - Welding
 - 3) Other Work Experience
 - Field Engineer
 - Detail Draftsman

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Fire Protection Coordinator -
Nuclear Generation -

Responsibilities include coordinating the planning, testing, overseeing & inspection of fire protection activities insuring that all requirements of the technical specifications pertaining to fire protection are fulfilled

- A. Educational Background -
High School - Electrical
College courses in Engineering,
Reactor Operations, Nuclear
Technology
- B. Experience
 - 1) Nuclear - Directly-Related
- Station Shift Supervisor
 - 2) Other Nuclear
- On the job training in
various aspects of nuclear
power
 - 3) Other Work Experience
- Shift Operating Foreman
- Shift Control Operation
- Various operating & maintenance
positions in fossil plant
- C. Other Information
 - Reactor Operator License
 - Senior Reactor Operator License
 - Reactor Operator License for EVESR

Superintendent - Maintenance
Nuclear -

Responsibilities include - planning, directing, and supervising all mechanical and electrical maintenance programs at the station to insure reliable and safe nuclear power generation

- A. Educational Background -
BS Mechanical Engineering
- B. Experience
 - 1) Nuclear - Directly-Related
- Asst. Maintenance Supervisor
- Startup Test Engineer
- Pre-Operational Test Co-ordinator
- Supervision of Operation,
Maintenance of Radwaste
Disposal system
 - 2) Other Nuclear
- Nuclear related courses
- C. Other Information
 - Senior Reactor Operator License

TABLE 2

PLANT TECHNICAL RESOURCESPlant Staff PositionsSupervisor ElectricalMaintenance Nuclear -

Responsibilities include:

assisting in supervision of electrical maintenance operations to insure reliable and safe electrical station equipment

- A. Educational Background -
Electrical Engineering Degree
 - B. Experience
 - 1) Nuclear - Directly-Related
- Asst. Maintenance Supv.
 - 2) Other Nuclear
 - Startup Testing Program
 - Outage Scheduler & Coordinator
 - C. Other Information
 - Fire Training School
 - Woodward Governor School
-

Supervisor MechanicalMaintenance - Nuclear -

Responsibilities include -

assists in supervision of mechanical maintenance operations to insure reliable and safe mechanical station equipment

- A. Educational Background -
High School, Crane Mechanic
Seals, Limitorque operators,
radiation protection
- B. Experience
 - 1) Nuclear - Directly-related
- Asst. Maintenance Supv.
 - 2) Other Nuclear
 - On the job training in
various nuclear programs,
startup
 - 3) Other Work Experience
 - Building Maintenance in
fossil plant
 - Navy

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Station Superintendent
Nine Mile Point Unit #1
Responsibilities include:
functional operation of
the station

- A. Educational Background -
B.S. in Physics, Courses
in Nuclear Technology
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Assistant Superintendent
NMP#1
 - Project Engineering - assisted
in design of NMP Nuclear Station
 - 2) Other Nuclear
 - On-the-job training -
Big Rock Point
 - On-the-job training - EVESR
 - 3) Other Work Experience
 - U.S. Navy
 - Laboratory Assistant - GE
 - Student Engineer - NMPC
 - Equipment Engineer - NMPC
 - Assistant Superintendent of
Hydro and Substations, Eastern
Division
 - Superintendent of Hydro and
Substations, Eastern Division
- C. Other Information
 - Senior Reactor Operator's License
 - Reactor Operator's License EVESR

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Operations Supervisor
Nine Mile Point Nuclear Station
Responsibilities include:
directs the functional conduct
of shift operations and when
required performs the duties
of the Station Shift
Supervisor

- A. Educational Background -
B.S. in Physics, Station Nuclear
Engineer Course, Navy Nuclear
Power School
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Assistant to Superintendent
 - 2) Other Nuclear
 - Navy Nuclear Power Prototype
 - U.S. Navy Nuclear Submarine
Officer
 - 3) Other Work Experience
 - High School Teacher
- C. Other Information
 - Senior Reactor Operator's License
Nine Mile Point #1
 - Certified to supervise and operate
Naval Nuclear Reactors

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Technical Assistant to
Station Superintendent
Nine Mile Point Nuclear Station
Responsibilities include:
design, installation, and
management of mechanical and
structural modifications to
existing plant

- A. Educational Background -
B.S. at College of Engineering
and Technology - Department of
Construction, Courses in
Statistics toward M.S.
- B. Experience
 - 1) Nuclear - Directly-Related*
- Present Position
 - 3) Other Work Experience
 - Field Engineer,
John B Pike & Son, Inc.
 - Assistant to Structural
Steel Erection Superintendent,
F.L. Heughes & Co., Inc.
- C. Other Information
 - Certification - O.S.H.A.
 - Certification - M.E.S.A.

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Radwaste Operations Coordinator
Nine Mile Point Nuclear Station

Responsibilities include:
coordinating the safe and
efficient conduct of radio-
active waste operations at
the Nine Mile Point Site

- A. Educational Background -
High School, Courses in
General Physics, Nuclear
- B. Experience
 - 1) Nuclear - Directly-Related*
- Chief Shift Operator
 - 2) Other Nuclear
- G.E. BWR Simulator Training
 - 3) Other Work Experience
- Auxiliary Operator - Steam
C.R. Huntley Station
- C. Other Information
- Reactor Operator's License-NMP#1

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Supervisor-Reactor Analysis
Nine Mile Point Nuclear Station

Responsibilities include:
developing procedures for the
evaluation of all aspects of
nuclear fuel performance

- A. Educational Background -
B.S. Nuclear, Courses in
Engineering, Physics, Mathematics,
Chemistry and Radiochemistry,
Nuclear Metallurgy. G.E. Dresden
Rx. Simulator Training
- B. Experience
 - 1) Nuclear - Directly-Related*
- Station Shift Supervisor
 - 2) Other Nuclear
- Assistant to the Superintendent
NMP#1
 - 3) Other Work Experience
- Navy
- C. Other Information
 - Federal License Third Assistant
Engineer #120410
 - Federal License Senior Rx.
Operator #SOP 1992

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Instrumentation and Control
Supervisor

Nine Mile Point Nuclear Station

Responsibilities include:

exercises the overall responsibility for the proper operation and maintenance of all instrumentation and associated controls of the Nuclear Stations.

- A. Educational Background -
Associate Degree Electrical Technology, Courses in Nuclear Power, Security Equipment, Radiation Protection, IRD Mechanalysis, GE MAC School
- B. Experience
- 1) Nuclear - Directly-Related*
- Assistant I&C Supervisor NMP#1
 - 2) Other Nuclear
- Technician "E" NMP#1
- Technician "D" NMP#1
 - 3) Other Work Experience
- Property Records Engineer
- Draftsman
- US Air Force

Assistant to General Superintendent Nuclear Generation
Nine Mile Point Nuclear Station

Responsibilities include:

assists in supervision and guidance of I&C techs to calibrate and maintain I&C systems and to comply with NRC Surv. testing for safe and efficient plant operations-Computer Systems

- A. Educational Background -
B.S. Electrical Engineering, M.S. System Management, Courses in Mini-Computers and Programming
- B. Experience
- 1) Nuclear - Directly-Related*
- Asst. to General Superintendent NMP#1
 - 3) Other Work Experience
- Automatic Data Processing Officer, ILT
- Electronics System Engineer
- United States Army
- C. Other Information
- Institute of Electrical and Electronic Engineers
- Power Engineering Society

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Radiochemistry and Radiation
Protection Supervisor

Nine Mile Point

Responsibilities include:
provides technical and
administrative guidance in
the areas of Chemistry and
Radiation Protection to manage
and control radioactive chemical
effluents and in-house radiation
exposure levels of the Nuclear
Site

- A. Educational Background -
Completed course work required
for doctoral program, MS in
Chemistry, Prototype, Basic
Nuclear and Mechanical
Engineering Training
- B. Experience
- 1) Nuclear - Directly-Related*
- Asst. Supervisor Radiochemistry
and Radiation Protection
 - 2) Other Nuclear
- Reactor Operator and
Technician at Omega West
Research Reactor
- Eng. Lab. Technician on
Nuclear frigate USS Bainbridge
- Operator and instructor at
A1W Reactor Facility
 - 3) Other Work Experience
- Teaching Assistant,
New Mexico State Univ.
- U.S. Navy

Assistant Supervisor Radio-
chemistry and Radiation
Protection - NMP#1

Responsibilities include:
assistng in departmental
responsibilities, emergency
planning

- A. Educational Background -
B.A. in Technology - Electrical
Engineering, G.E. BWR Training,
Radiation Protection and Self
Monitoring Course
- B. Experience
- 1) Nuclear - Directly-Related*
- Asst. to General Superintendent
JAF
- Asst. to Plant Superintendent
NMP#1
 - 3) Other Work Experience
- U.S. Coast Guard

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Supervisor Radio-chemistry and Radiation Protection - NMP #1
Responsibilities include:
assisting in departmental responsibilities, emergency planning

- A. Educational Background -
B.S. in Chemistry (A.C.S. Accredited)
Graduate courses in Business Administration, Fire, Breathing Air, and Self Monitoring Training
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Asst. to General Superintendent NMPC
 - Technician, Radiochemistry and Radiation Chemistry Department - NMPC

Assistant Supervisor Site Environmental Protection
Nine Mile Point Nuclear Site
Responsibilities include:
coordinates all aspects of the Environmental Protection Programs at the site

- A. Educational Background -
B.S. in Resources Management
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Asst. Supv. Site Environmental Protection
 - 3) Other Work Experience
 - Hydro Maintenance Man A, NMPC
 - Public Relations Representative
 - Landscape Technician
 - Land Surveyor
 - U.S. Army

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Training Supervisor

Nine Mile Point Nuclear Station

Responsibilities include:

development, implementation and documentation of training and retraining programs for all site personnel, to meet the requirements of all guides and standards committed to by NMPC in their licensing documents to operate the NMP and JAF and any other company Nuclear Plants

A. Educational Background -
B.S. in Science, Courses in Non-destructive testing, Quality Auditing, General Physics Corporation Courses for Reactor and Senior Reactor Operator License

B. Experience

- 1) Nuclear - Directly-Related*
- Quality Control Engineer (Nuclear)
- 2) Other Nuclear
- Senior Test Engineer, Newport News Shipbuilding and Dry Dock Company
- 3) Other Work Experience
- Design Engineer
- Second and Third Assistant Engineer, United States Lines Company

C. Other Information

- License-U.S.C.G. Second Assistant Engineer, Steam, Unlimited Horsepower
- License-U.S.C.G. Third Assistant Engineer, Diesel, Unlimited Horsepower
- U.S. Nuclear Regulatory Commission Operator License OP-4416
- U.S. Nuclear Regulatory Commission Senior Operator License, SOP-3129

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Outage Coordinator
Nine Mile Point Nuclear Station
Responsibilities include:
planning, coordinating, and
interfacing major refueling
outage work projects, modifi-
cations, tests and refueling
operations

- A. Educational Background -
 - B.S. in Nuclear Science
 - Courses in Systems and Print Reading, General Physics, Project/2 Computer Schools
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Station Shift Supervisor
 - Assistant to Superintendent
 - 2) Other Nuclear
 - GE B.W.R. Simulators
 - 3) Other Work Experience
 - Engine Room Supervisor
 - Assistant Engineer - American Export
- C. Other Information
 - Senior Reactor Operator's License
 - License-U.S.C.G. Third Assistant Marine Engineer Unlimited, Steam and Diesel, any ocean

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Training Supervisor
Nine Mile Point Nuclear Station
Responsibilities include:
assist in the development and
implementation of training and
retraining programs conducted
for licensed personnel at the
Nine Mile Point Nuclear Site

- A. Educational Background -
High School,
Electronic Technician "A" School,
Electronic Technician "B" School,
Instructor Training School,
Nuclear Power Basic School,
Nuclear Power Training Unit
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Assistant Training Supervisor
 - Nuclear Operator "E"
 - 2) Other Nuclear
 - Assigned to JAF for Pre-Operational Testing
 - 3) Other Work Experience
 - U.S. Navy
 - Assistant Head Radiac Maintenance School
- C. Other Information
 - Licensed by Atomic Energy Commission at Radiac Maintenance School
 - NRC Senior Reactor Operator License

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Supervisor
Instrument and Control
Nine Mile Point Nuclear Station
Responsibilities include:
direct supervision of all
instrument calibration and
maintenance in unit

- A. Educational Background -
A.A.S in Instrumentation and
Electronics, Courses in
Nuclear Instrumentation and
Control Technology
- B. Experience
 - 1) Nuclear - Directly-Related*
 - Instrumentation Supervisor-JAF
 - 2) Other Nuclear
 - Instrumentation Technician E
NMP#1
 - Instrumentation Technician D
NMP#1
 - 3) Other Work Experience
 - Draftsman - NMPC
 - Electrical Technician - GE

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Maintenance
Supervisor - Nuclear
Responsibilities include:
directs supervision of
all mechanical and electrical
maintenance

- A. Educational Background -
High School,
Welding School
- B. Experience
 - 1) Nuclear - Directly-Related*
- Present Position
 - 2) Other Nuclear
 - Mechanic Foreman A - NMP#1
 - Chief Maintenance Mechanic B -
NMP#1
 - 3) Other Work Experience
 - Janitor
 - Welder

Figure 3
Staff Engineering Organization

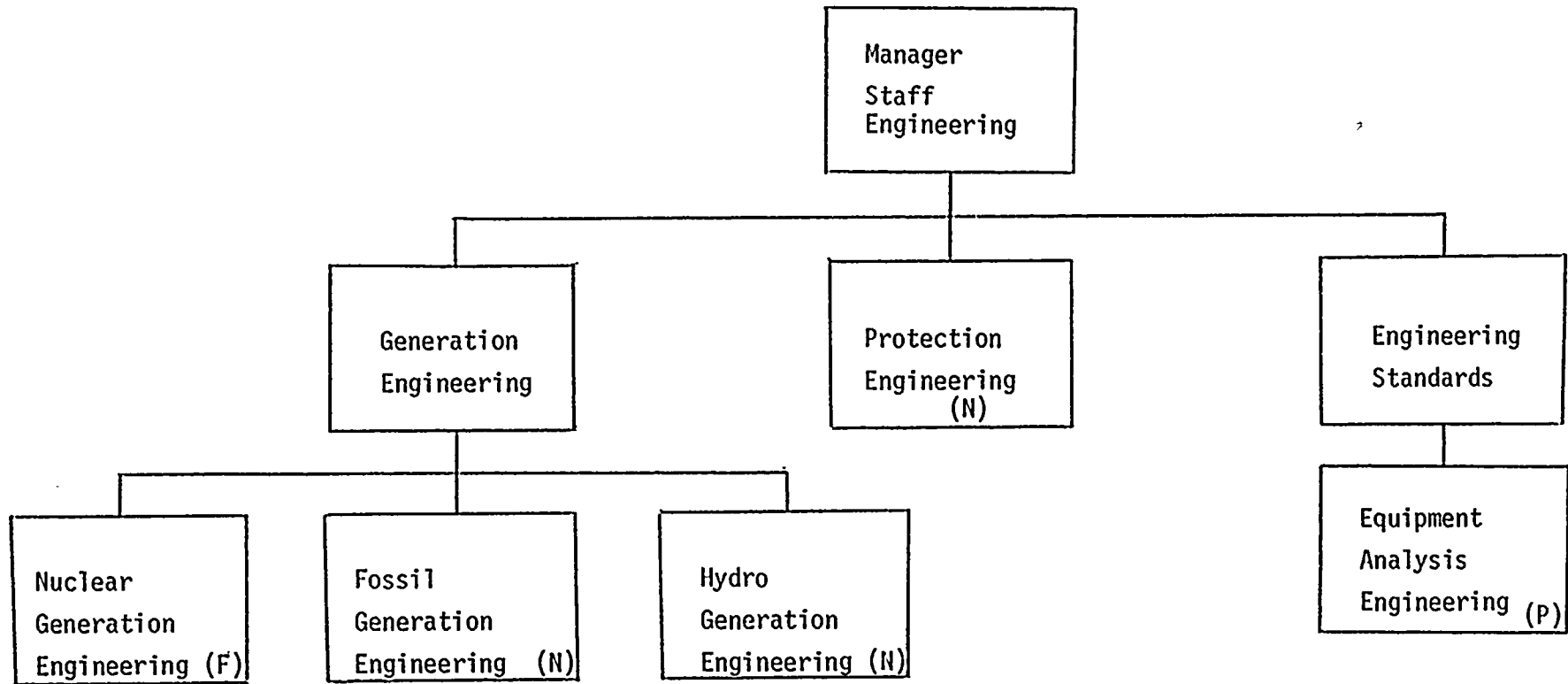


Figure 4
Design Engineering

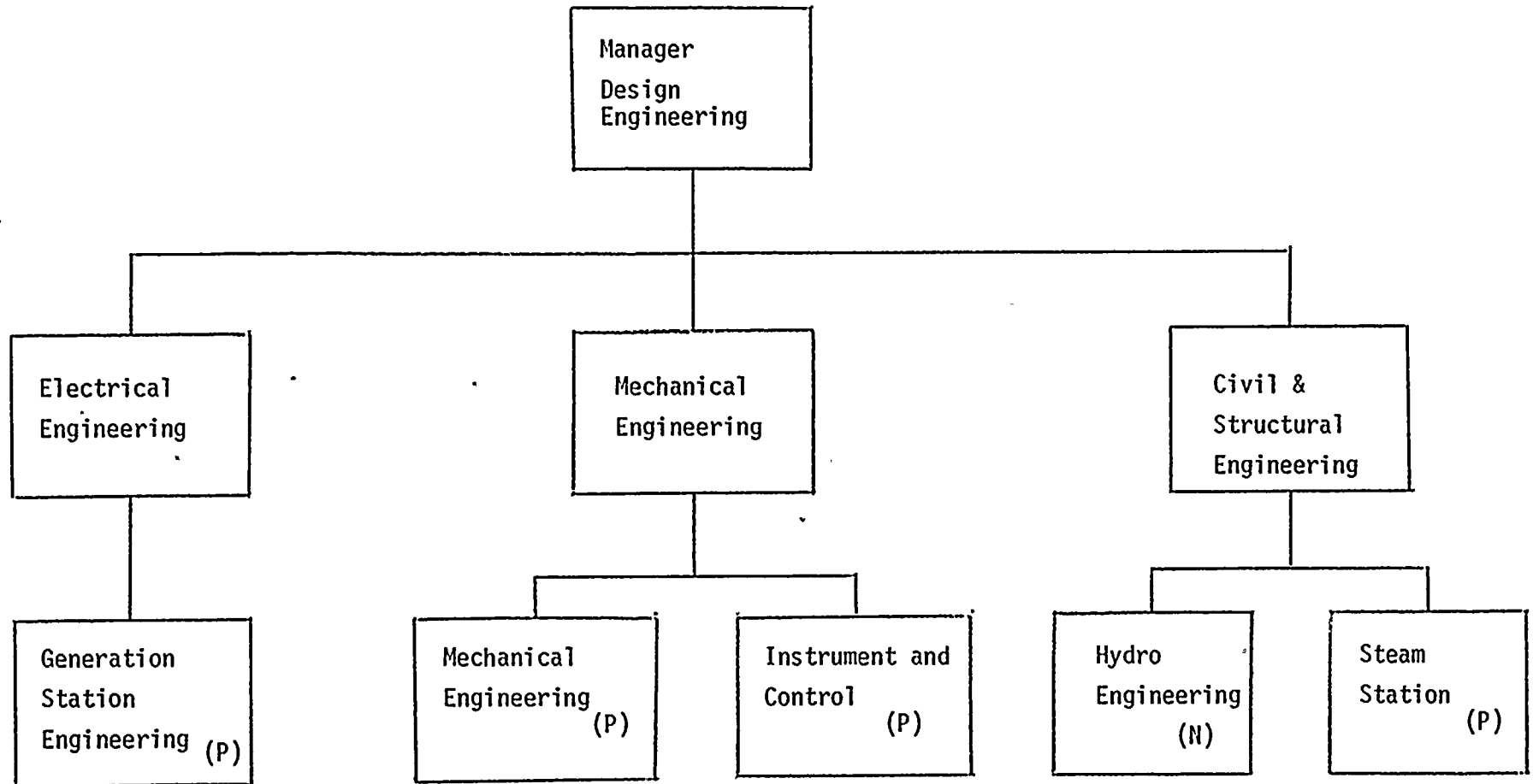


Figure 5
Nuclear Generation Projects Organization

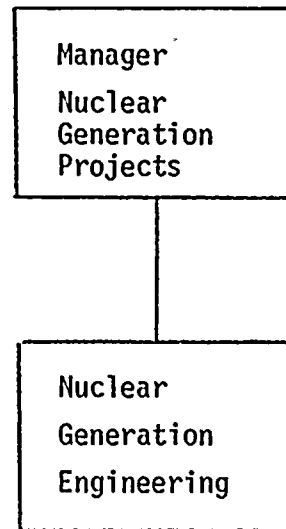


TABLE 3

Technical Staff (Offsite)

	<u>NUCLEAR GENERATION ENGINEERING</u>	<u>FOSSIL GENERATION ENGINEERING</u>	<u>HYDRO GENERATION ENGINEERING</u>	<u>PROTECTION ENGINEERING</u>
1. Total number (Managers, Engineers, & Professional Personnel)	12	8	9	9
Number available to respond	12	6	4	1
2. By educational background				
B.S. Nuclear Engineering	3			
B.S. Electrical Engineering	1	2	1	1
B.S. Chemical Engineering	1			
B.S. Mechanical Engineering	4	1	1	
B.S. Civil/Structural Engineering		1	2	
B.S. Physics	1			
B.S. Chemistry				
B.A. Chemistry	1			
No Degree	1	2		
M.S. Nuclear Engineering	3			
M.S. Electrical Engineering				
M.S. Mechanical Engineering				
M.S. Civil/Structural Engineering			1	
Registered Professional Engineer	4	2	2	1
Courses toward Graduate Degree	4			
3. Technical Experience (in man-years)				
a. Engineering				
(1) Nuclear Power Field	102	62	10.5	18
(2) Engineering Management	11	8	2	
(3) Total Utility Experience	131	111.5	41	23

TABLE 3 (cont'd.)

		<u>Technical Staff (Offsite)</u>											
		<u>NUCLEAR GENERATION ENGINEERING</u>			<u>FOSSIL GENERATION ENGINEERING</u>			<u>HYDRO GENERATION ENGINEERING</u>			<u>PROTECTION ENGINEERING</u>		
3. Technical Experience (in man-years) (Continued)													
b.	Field*	<u>F</u>	<u>P</u>	<u>N</u>	<u>F</u>	<u>P</u>	<u>N</u>	<u>F</u>	<u>P</u>	<u>N</u>	<u>F</u>	<u>P</u>	<u>N</u>
	(1) Reactor Physics	X											
	(2) Electrical Engineering		X	X	X	X	X		X	X		X	X
	(3) Health Physics		X										
	(4) Mechanical Engineering	X		X		X	X		X				
	(5) Civil/Structural				X	X		X	X	X			
	(6) Licensing	X											
	(7) Instrument and Control		X	X		X	X					X	X
	(8) System Design Engineering	X	X	X		X	X						
	(9) Nuclear Fuel	X											
	(10) Maintenance Engineering		X	X		X	X						
	(11) Plant Chemistry and Radiochemistry		X										
	(12) Quality Assurance/Control	X											
	(13) Operations		X	X									
	(14) Startup Testing		X	X		X	X						

*Specify whether experience is (F) - full time nuclear experience, (P) - part time nuclear experience,
(N) - non-nuclear experience.

Table 3 (continued)
Technical Staff (Offsite)

	<u>Engineering Standards</u>	<u>Mechanical Engineering</u>	<u>Electrical Engineering</u>	<u>Civil/Structural Engineering</u>
1. Total number (Managers, Engineers, and Professional Personnel) Number available to respond	12 2	13 10	11 6	18 8
2. By education background,				
B.S. Nuclear Engineering				
B.S. Electrical Engineering	1	3	6	
B.S. Chemical Engineering				
B.S. Mechanical Engineering	1	6		
B.S. Civil/Structural Engineering				8
B.S. Physics				
B.S. Chemistry				
B.A. Chemistry				
No Degree		1		
M.S. Nuclear Engineering				
M.S. Electrical Engineering				
M.S. Mechanical Engineering		1		
M.S. Civil/Structural Engineering				
Registered Professional Engineer		5		4
Courses towards graduate degree		3		
3. Technical Experience (in man years)				
a. Engineering				
(1) Nuclear Power Field	23	73	19	38
(2) Engineering Management		9	2	12
(3) Total Utility Experience	46	112.5	31	61

Table 3 (continued)
Technical Staff (Offsite)

	<u>Engineering Standards</u>	<u>Mechanical Engineering</u>	<u>Electrical Engineering</u>	<u>Civil/Structural Engineering</u>
3. Technical Experience (in man years) (con't)				
b. Field*	<u>F P N</u>	<u>F P N</u>	<u>F P N</u>	<u>F P N</u>
(1) Reactor Physics				
(2) Electrical Engineering	X X X	X X X	X X X	
(3) Health Physics				
(4) Mechanical Engineering	X X X	X X X		
(5) Civil/Structural Engineering				X X X
(6) Licensing				
(7) Instrument and Control		X X X		
(8) System Design Engineering		X X X		
(9) Nuclear Fuel				
(10) Maintenance Engineering	X X X	X X X	X X X	X X X
(11) Plant Chemistry and Radiochemistry				
(12) Quality Assurance/Control		X	X	
(13) Operations			X	
(14) Startup Testing			X	

*Specify whether experience is (F) - full time nuclear experience, (P) - part time nuclear experience,
(N) - non-nuclear experience.

Table 3 (continued)

Technical Staff (Offsite)

	<u>Nuclear Generation Projects</u>	<u>Others</u>
1. Total number (managers, engineers, and professional personnel Number available to respond	6 5	6 6
2. By education background		
B.S. Nuclear Engineering	1	
B.S. Electrical Engineering	1	1
B.S. Chemical Engineering		
B.S. Mechanical Engineering	1	1
B.S. Civil/Structural Engineering	1	
B.S. Science	1	1
B.S. Chemistry		1
B.S. Metallurgical Engineering		1
No Degree		1
M.S. Nuclear Engineering	1	1
M.S. Metallurgical Engineering		1
Registered Professional Engineer	4	2
3. Technical Experience (in man years)		
a. Engineering		
(1) Nuclear Power Fuel	48	82
(2) Engineering Management	11	39
(3) Total Utility Experience	69	104

Table 3 (Continued)

Technical Staff (Offsite)

3. Technical Experience (in man years) (continued)	<u>Nuclear Generation Projects</u>			<u>Others</u>		
	<u>F</u>	<u>P</u>	<u>N</u>	<u>F</u>	<u>P</u>	<u>N</u>
b. Field*						
(1) Reactor Physics						
(2) Electrical Engineering	X	X	X	X	X	X
(3) Health Physics				X		
(4) Mechanical Engineering	X		X	X		
(5) Civil/Structural Engineering	X	X	X			
(6) Licensing	X					
(7) Instrument and Control	X	X	X			
(8) System Design Engineering	X		X			
(9) Nondestructive Testing					X	X
(10) Metallurgy				X	X	X
(11) Plant Chemistry and Radiochemistry					X	
(12) Quality Assurance/Control				X	X	
(13) Operations	X	X	X	X		
(14) Startup Testing	X	X	X			
(15) Welding Engineering				X	X	X

*Specify whether experience is (F) - full time nuclear experience, (P) - part time nuclear experience,
(N) - non-nuclear experience.

