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ACCESSION NBR:7909140361 DOC.DATE: 79/09/11 NOTARIZED: NO DOCKET #  
 FACIL:50-220 Nine Mile Point Nuclear Station, Unit 1; Niagara Powe 05000220  
 AUTH.NAME AUTHUR AFFILIATION  
 BARTLETT,J. Niagara Mohawk Power Corp.  
 RECIP.NAME RECIPIENT AFFILIATION  
 DENTON,H.R. Office of Nuclear Reactor Regulation

SUBJECT: Submits revised Tables 2 & 3 to 790810 submittal re util  
 mgt & technical resources.

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**N M NIAGARA  
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NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

September 11, 1979

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

Dear Mr. Denton:

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

Enclosed find revised Tables 2 and 3 to our submittal of August 10, 1979 regarding the management and technical resources available to Niagara Mohawk Power Corporation. This revised information was requested by Mr. F. Allenspach of your staff on August 27, 1979.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION



J. Bartlett  
Executive Vice President

PEF/kmb  
Enclosures

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TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

General Superintendent  
Nuclear Generation -  
Responsibilities include:  
overall operation, maintenance  
and construction of Nine Mile  
Point Site (5 years)

- A. Educational Background -  
B.S. in Engineering, Courses  
in Nuclear Physics & Reactor  
Technology
- B. Experience
- 1) Nuclear - Directly-Related\*
    - Operations Supervisor NMP#1(2½ yrs)
    - Plant Superintendent JAFNPP  
(3 yrs)
  - 2) Other Nuclear
    - Liason Engineer at EVESR  
reactor (3½ yrs)
    - Three years in research &  
development tests of sodium,  
water reactions & liquid metal  
steam generation at Enrico  
Fermi (3½ yrs)
    - Project Engineering Dept. -  
nuclear steam supply system  
(2½ yrs)
  - 3) Other Work Experience
    - Navy
    - Instructor in Engineering (3 yrs)
    - Technician - setting up &  
teaching testing, calibration,  
& trouble shooting control  
systems (7 yrs)
- 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.

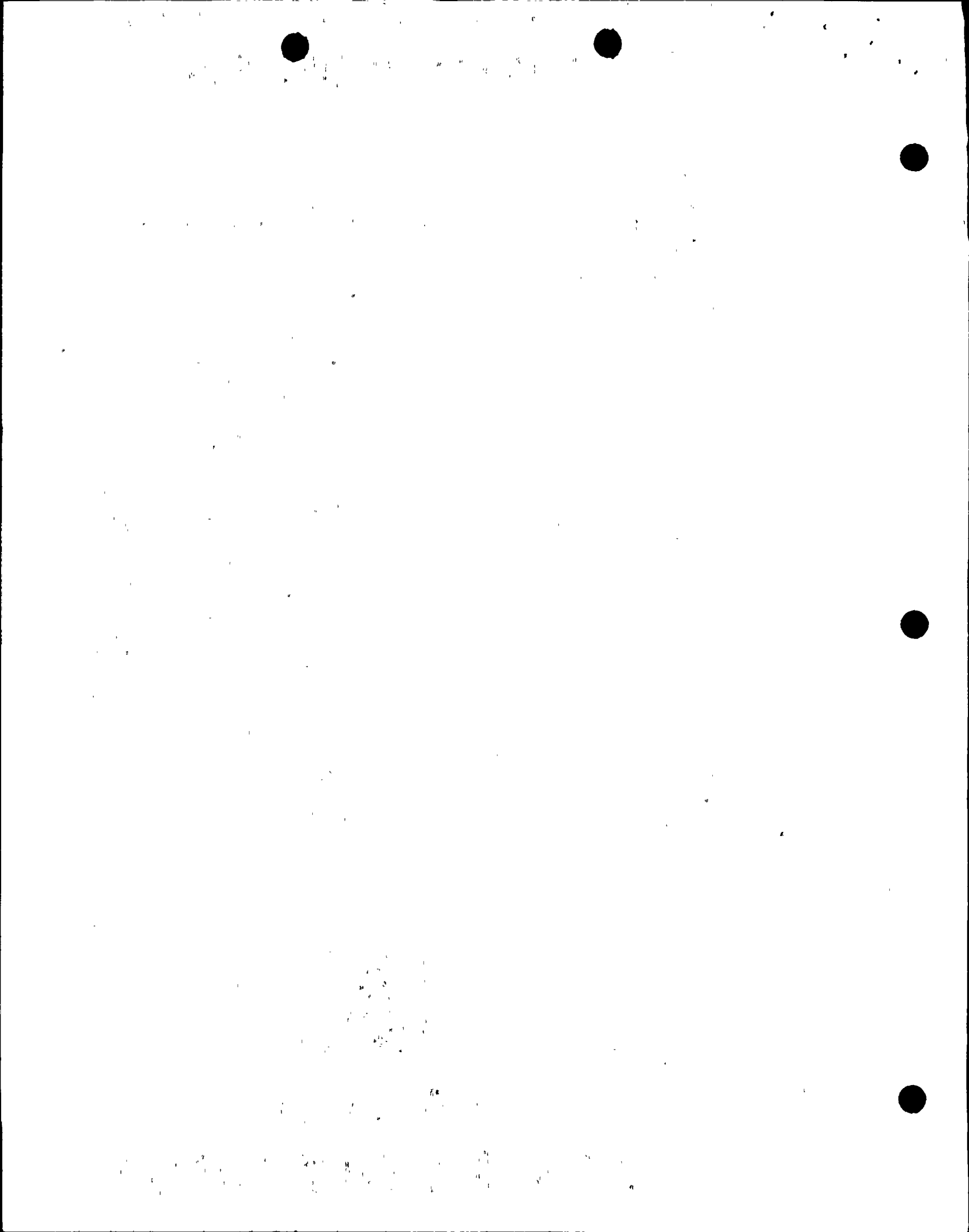


TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

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

- 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  
(3 months)

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

- 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 (2 years)  
- Test Technician testing &  
troubleshooting computer  
systems (2 years)
- 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  
(2 years)

- 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 (4 yrs)
      - Supervisor Operations (2 yrs)
      - Reactor Physics - Startup  
Test Engineer (1½ yrs)
      - Radiation Protection (1 yr)
      - Instrument & Control (1½ yrs)
    - 2) Other Nuclear
      - Related Technology Courses
      - On the job training in  
various departments mentioned  
above
    - 3) Other Work Experience
      - Groundman (1 yr)
  - 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  
(1 yr)

- A. Educational Background -  
Assoc. & BS in Mechanical Engineering,  
Metals Engineering Institute
- B. Experience
  - 1) Nuclear - Directly-Related
    - Asst. to General Supt. (1 yr)
    - Asst. to Plant Supt. (1 yr)
  - 2) Other Nuclear
    - Nondestructive Testing
    - Welding
  - 3) Other Work Experience
    - Field Engineer (4 yrs)
    - Detail Draftsman (1 yr)



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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 (2 years)

- A. Educational Background -  
High School - Electrical  
College courses in Engineering,  
Reactor Operations, Nuclear  
Technology
- B. Experience
  - 1) Nuclear - Directly-Related  
- Station Shift Supervisor (11 yrs)
  - 2) Other Nuclear  
- On the job training in  
various aspects of nuclear  
power
  - 3) Other Work Experience  
- Shift Operating Foreman (1 yr)  
- Shift Control Operation (14 yrs)  
- Various operating & maintenance  
positions in fossil plant (6 yrs)
- C. Other Information
  - Reactor Operator License
  - Senior Reactor Operator License
  - Reactor Operator License for EVESR

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Superintendent - Maintenance  
Nuclear -

Responsibilities include -  
planning, directing, and  
supervising all mechanical  
and electrical maintenance pro-  
grams at the station to insure  
reliable and safe nuclear power  
generation (3 years)

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

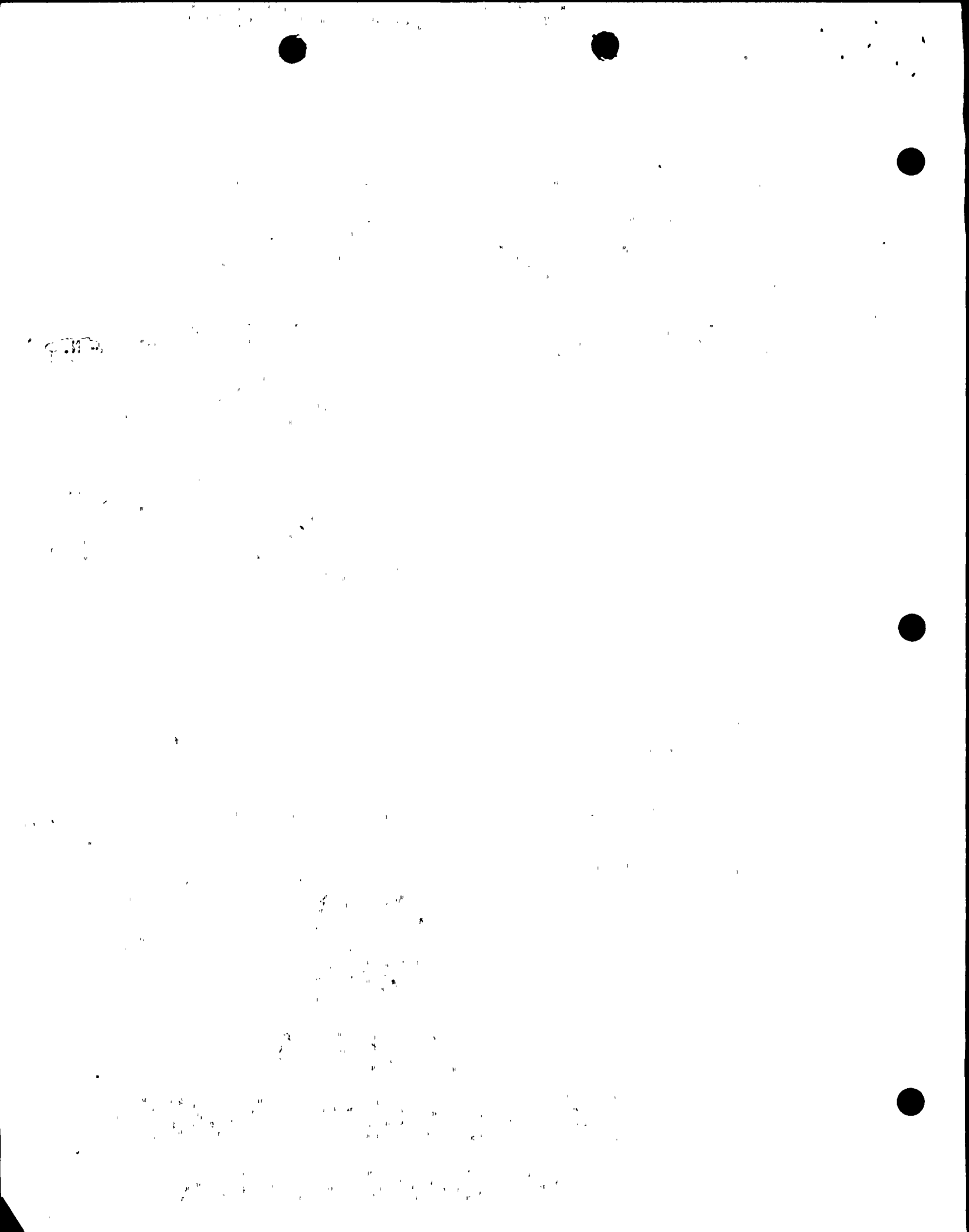


TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Supervisor Electrical  
Maintenance Nuclear -

Responsibilities include:  
assisting in supervision of  
electrical maintenance opera-  
tions to insure reliable and  
safe electrical station equipment  
(3 years)

A. Educational Background -  
Electrical Engineering Degree

B. Experience

- 1) Nuclear - Directly-Related  
- Asst. Maintenance Supv. (1 yr)
- 2) Other Nuclear  
- Startup Testing Program (1 yr)  
- Outage Scheduler &  
Coordinator (1½ yrs)

C. Other Information

- Fire Training School
  - Woodward Governor School
- 

Supervisor Mechanical  
Maintenance - Nuclear -

Responsibilities include -  
assists in supervision of  
mechanical maintenance opera-  
tions to insure reliable and  
safe mechanical station equipment  
(7 months)

A. Educational Background -  
High School, Crane Mechanic  
Seals, Limitorque operators,  
radiation protection

B. Experience

- 1) Nuclear - Directly-related  
- Asst. Maintenance Supv. (2 yrs)  
- Maintenance Foreman (10 yrs)
- 2) Other Nuclear  
- On the job training in  
various nuclear programs,  
startup
- 3) Other Work Experience  
- Building Maintenance in  
fossil plant (24 yrs)  
- Navy (4 yrs)

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Station Superintendent  
Nine Mile Point Unit #1  
Responsibilities include:  
functional operation of  
the station (7 years)

- A. Educational Background -
  - B.S. in Physics, Courses in Nuclear Technology
- B. Experience
  - 1) Nuclear - Directly-Related\*
    - Assistant Superintendent NMP#1 (6 yrs)
    - Project Engineering - assisted in design of NMP Nuclear Station (1 yr)
  - 2) Other Nuclear
    - On-the-job training - Big Rock Point (6 months)
    - On-the-job training - EVESR (6 months)
  - 3) Other Work Experience
    - U.S. Navy (3 yrs)
    - Laboratory Assistant - GE (2 yrs)
    - Student Engineer - NMPC (2 yrs)
    - Equipment Engineer - NMPC (2 yrs)
    - Assistant Superintendent of Hydro and Substations, Eastern Division (2 yrs)
    - Superintendent of Hydro and Substations, Eastern Division (6 yrs)
- 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 (6 years)

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



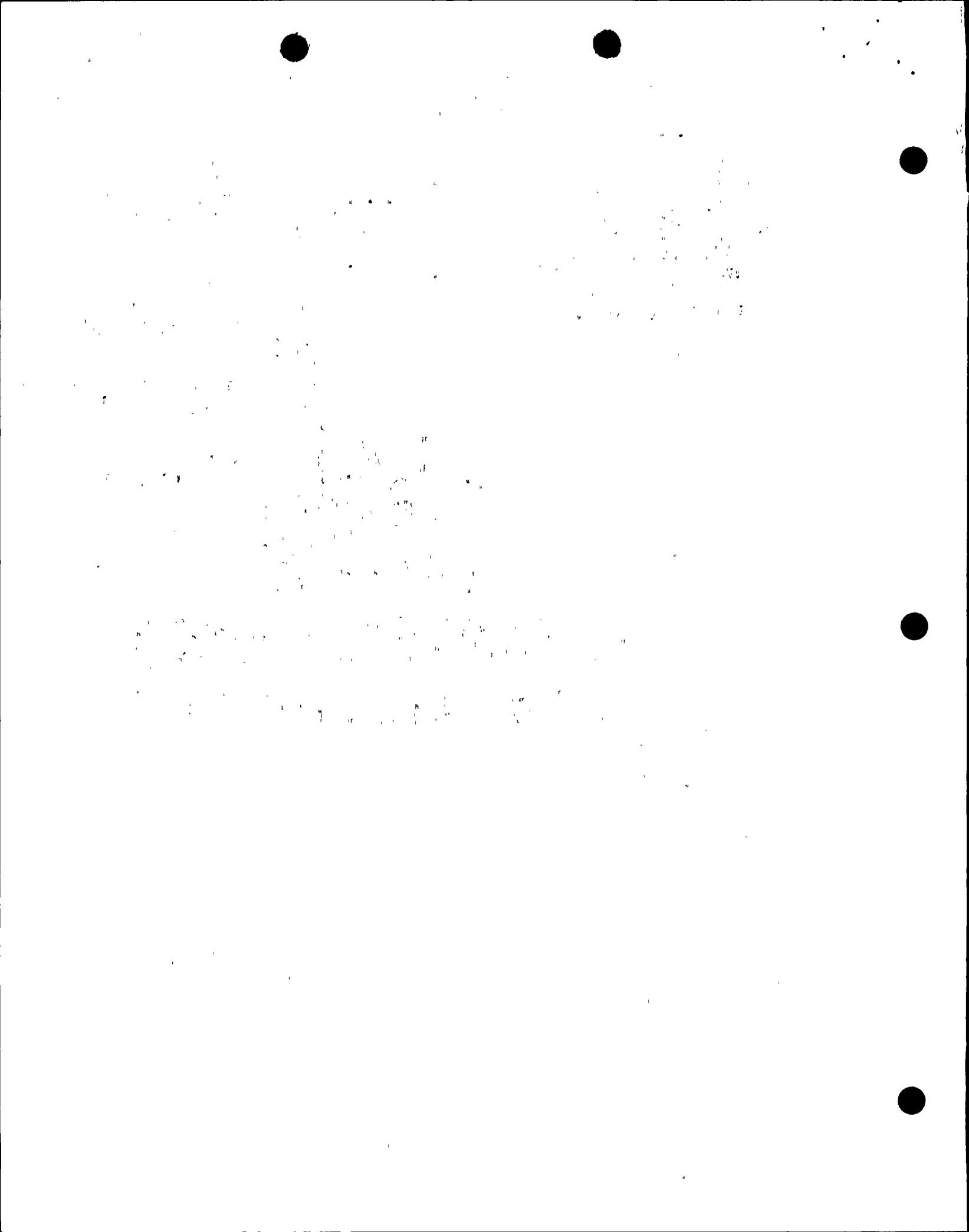


TABLE 2

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 (2 years)

- 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. (1 yr)
    - Assistant to Structural  
Steel Erection Superintendent,  
F.L. Heughes & Co., Inc. (2 yrs)
- C. Other Information
  - Certification - O.S.H.A.
  - Certification - M.E.S.A.

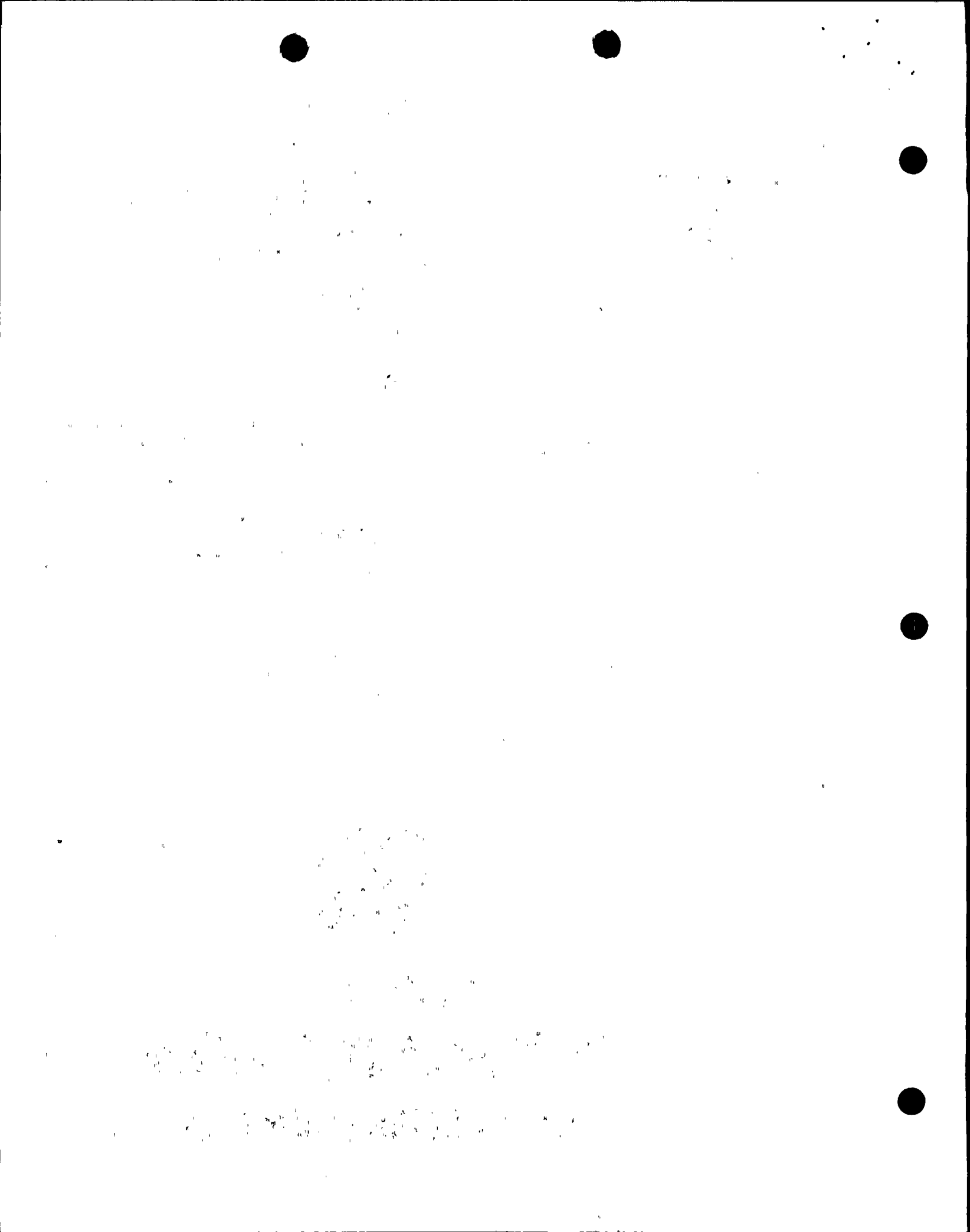


TABLE 2

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  
(1½ yrs)

- A. Educational Background -  
High School, Courses in  
General Physics, Nuclear
- B. Experience
  - 1) Nuclear - Directly-Related\*  
- Chief Shift Operator  
(Operations) (5 yrs)
  - 2) Other Nuclear  
- G.E. BWR Simulator Training
  - 3) Other Work Experience  
- Auxiliary Operator - Steam  
C.R. Huntley Station (16 yrs)
- C. Other Information  
- Reactor Operator's License-NMP#1



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TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Radiochemistry and  
Radiation Protection Super-  
visor - Nine Mile Point #1

Responsibilities include:  
direct supervision of all  
work performed by radio-  
chemistry and radiation  
protection technicians  
(7 yrs)

- A. Educational Background -  
High School, Courses in Chemistry,  
Physics, and Radiochemistry
- B. Experience
  - 1) Nuclear - Directly-Related\*  
- Radiation Protection Chemistry  
Technician - NMP#1 (4 yrs)
  - 2) Other Nuclear  
- 12 week Radiochemistry Training
  - 3) Other Work Experience  
- Plant Chemical Technician -  
Alcan Aluminun Corp. (5 yrs)

TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Results Supervisor  
Nine Mile Point Nuclear Station  
Responsibilities include:  
Nuclear fuel management, plant  
chemistry and instrumentation  
and control (14 yrs)

- A. Educational Background -  
B.A. in Electrical Engineering,  
Courses in Nuclear Engineering  
Reactor Technology, Nuclear  
Instrumentation, Environmental  
Radiology
- B. Experience
  - 1) Nuclear - Directly-Related\*  
- Results Supervisor NMP#1
  - 2) Other Nuclear
    - Senior Nuclear Engineer in  
Project Engineering Department
    - Design, construction and  
operation irradiation facilities  
in the CP-5 research center at  
Argonne National Laboratory.  
(5 yrs)
  - 3) Other Work Experience
    - Technician Foreman at Oswego  
Steam Station (10 yrs)
    - First Lieutenant U.S. Army and  
Air Force Test Engineer (6 yrs)
    - Cadet Engineer, Central New  
York Power Corporation (1 yr)
- C. Other Information
  - New York State Licensed Professional  
Engineer
  - Member of American Nuclear Society

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  
(1 year)

- 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  
(4 yrs)
  - 2) Other Nuclear  
- Assistant to the Superintendent  
NMP#1 (2 yrs)
  - 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.

(2 years)

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  
(6 yrs)
- 2) Other Nuclear  
- Technician "E" NMP#1 (3 yrs)  
- Technician "D" NMP#1 (3 yrs)
- 3) Other Work Experience  
- Property Records Engineer (2 yrs)  
- Draftsman (2 yrs)  
- US Air Force

Assistant to General Superin-  
tendent 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 (3 yrs)

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 (1 yr)
- 3) Other Work Experience (4 years)  
- 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 (3 years)

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 (2½ yrs)
- 2) Other Nuclear  
- Reactor Operator and  
Technician at Omega West  
Research Reactor (2 yrs)  
- Eng. Lab. Technician on  
Nuclear frigate USS Bainbridge (1yr)  
- Operator and instructor at  
AIW Reactor Facility (2 yrs)
- 3) Other Work Experience  
- Teaching Assistant,  
New Mexico State Univ. (3½ yrs)  
- U.S. Navy (6 yrs)

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

Responsibilities include:  
assistng in departmental  
responsibilities, emergency  
planning (2 years)

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 (5 yrs)  
- Asst. to Plant Superintendent  
NMP#1 (1 yr)
- 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 (2 months)

- 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 (2 yrs)
    - Technician, Radiochemistry and Radiation Chemistry Department - NMPC (5 yrs)

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Assistant Supervisor Site Environmental Protection  
Nine Mile Point Nuclear Site

Responsibilities include: coordinates all aspects of the Environmental Protection Programs at the site (4 yrs)

- 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 (3 yrs)
    - Public Relations Representative (1)
    - Landscape Technician (6 months)
    - Land Surveyor (4 months)
    - U.S. Army (6 yrs)



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 (4 years)

- 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 yrs)
  - 2) Other Nuclear  
- Senior Test Engineer, Newport News Shipbuilding and Dry Dock Company (2 yrs)
  - 3) Other Work Experience  
- Design Engineer  
- Second and Third Assistant Engineer, United States Lines Company (4 yrs)
- 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 (2 years)

- 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 (3 yrs)
    - Assistant to Superintendent  
(1 yr)
  - 2) Other Nuclear
    - GE B.W.R. Simulators
  - 3) Other Work Experience
    - Engine Room Supervisor (1 yr)
    - Assistant Engineer -  
American Export (3 yrs)
- 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  
(2 years)

- 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"  
(5 years)
  - 2) Other Nuclear
    - Assigned to JAF for Pre-  
Operational Testing (3 months)
  - 3) Other Work Experience
    - U.S. Navy (9 yrs)
    - 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  
(6 years)

- 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  
(4 yrs)
  - 2) Other Nuclear  
- Instrumentation Technician E  
NMP#1 (2 yrs)  
- Instrumentation Technician D  
NMP#1 (4 yrs)
  - 3) Other Work Experience  
- Draftsman - NMPC (2 yrs)  
- Electrical Technician - GE  
(1 yr)



TABLE 2

PLANT TECHNICAL RESOURCES

Plant Staff Positions

Assistant Maintenance  
Supervisor - Nuclear  
Responsibilities include:  
directs supervision of  
all mechanical and electrical  
maintenance (2 years)

- A. Educational Background -  
High School,  
Welding School
- B. Experience
  - 1) Nuclear - Directly-Related\*  
- Present Position
  - 2) Other Nuclear
    - Mechanic Foreman A - NMP#1 (5 yrs)
    - Chief Maintenance Mechanic B -  
NMP#1 (2 yrs)
  - 3) Other Work Experience -Maintenance  
- Janitor (16 yrs)  
- Welder

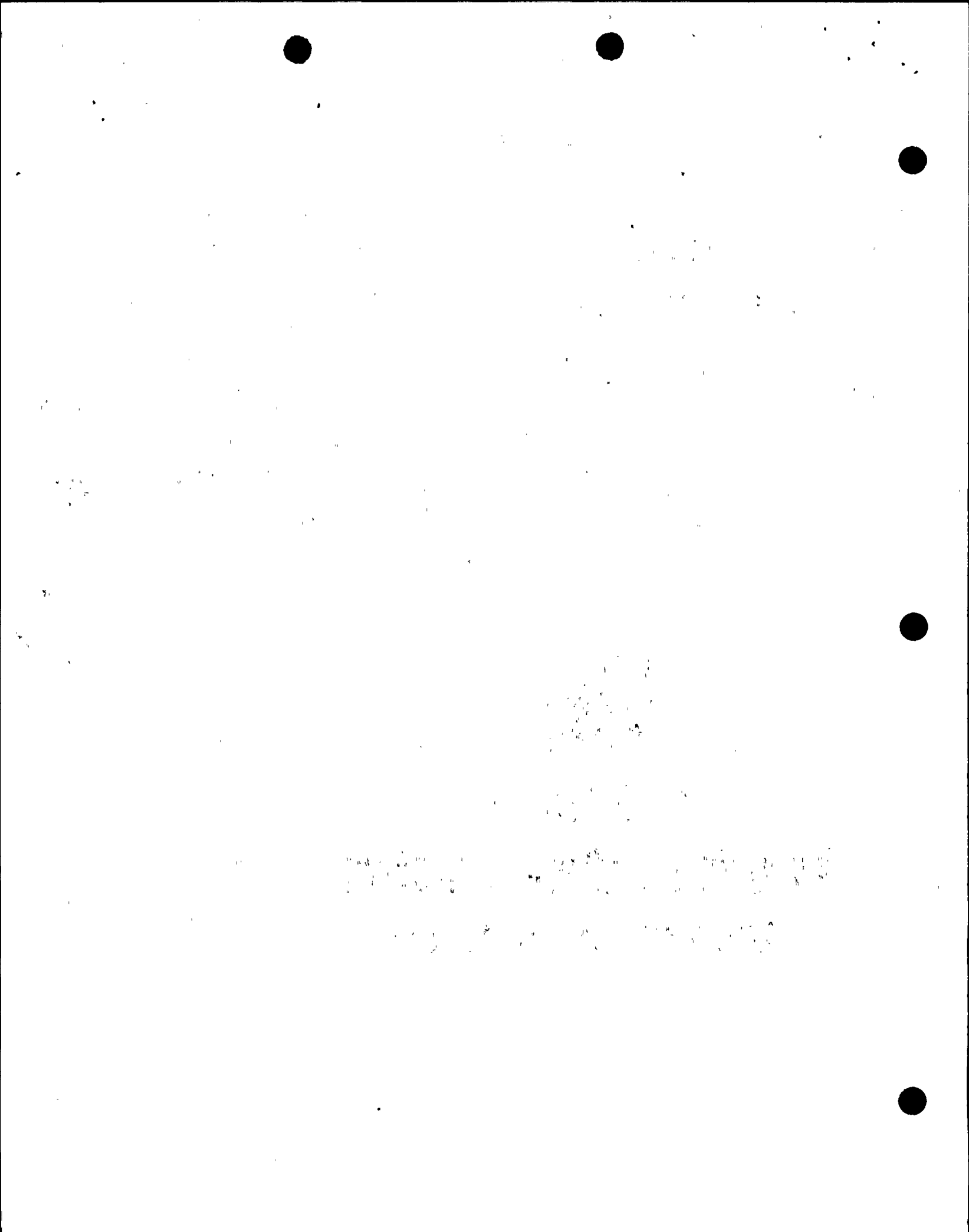


TABLE 3 (cont'd.)

Technical Staff (Offsite)

	<u>NUCLEAR GENERATION ENGINEERING</u>			<u>FOSSIL GENERATION ENGINEERING</u>			<u>HYDRO GENERATION ENGINEERING</u>			<u>PROTECTION ENGINEERING</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>	<u>F</u>	<u>P</u>	<u>N</u>
3. Technical Experience (in man-years) (Continued)												
b. Field*												
(1) Reactor Physics	12											
(2) Electrical Engineering				9 11 20			1 5			10 10 5		
(3) Health Physics	2.5											
(4) Mechanical Engineering	18 29 5			22 15			8					
(5) Civil/Structural				3 20			7 1 20					
(6) Licensing	21.5 8											
(7) Instrument and Control	2 15			10 7						10 10 5		
(8) System Design Engineering	11 8 2			23 30								
(9) Nuclear Fuel	16.5											
(10) Maintenance Engineering	29 44			46 62								
(11) Plant Chemistry and Radiochemistry	1											
(12) Quality Assurance/Control	4.5											
(13) Operations	1 8											
(14) Startup Testing	1 20			4 8								

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



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 (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>			
	<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>	
3. Technical Experience (in man years) (con't)													
b. Field*													
(1) Reactor Physics													
(2) Electrical Engineering	3	15	14	4	3	4	4.5	7	14				
(3) Health Physics													
(4) Mechanical Engineering	7	9	8	6	45	24							
(5) Civil/Structural Engineering										11	27	28	
(6) Licensing													
(7) Instrument and Control				2	6	20							
(8) System Design Engineering				3	13	12							
(9) Nuclear Fuel													
(10) Maintenance Engineering	4	6	11	4	12	24	4.5	7	14	5	21	22	
(11) Plant Chemistry and Radiochemistry													
(12) Quality Assurance/Control				1				2					
(13) Operations							2.5						
(14) Startup Testing							3						

\*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 Submarine Field	5	
(2) Nuclear Fuel Reprocessing		21
(3) Nuclear Power Field	43	61
(4) Engineering Management	11	39
(5) 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	4	3	7	7	7	17
(3) Health Physics				12		
(4) Mechanical Engineering	22		12	19		
(5) Civil/Structural Engineering	9	5	9			
(6) Licensing	5					
(7) Instrument and Control	4					
(8) System Design Engineering	14		13			
(9) Nondestructive Testing					5	13
(10) Metallurgy				18	12	13
(11) Plant Chemistry and Radiochemistry					11	
(12) Quality Assurance/Control				7	5	
(13) Operations	5	6	4	2		
(14) Startup Testing	1	4	2			
(15) Welding Engineering				6	5	13

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

