



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ROCHESTER GAS AND ELECTRIC CORPORATION

DOCKET NO. 50-244

R. E. GINNA NUCLEAR POWER PLANT

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 53
License No. DPR-18

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Rochester Gas and Electric Corporation (the licensee) notarized July 22, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public; and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C(2) of Provisional Operating License No. DPR-18 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 53, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 29, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 53
PROVISIONAL OPERATING LICENSE NO. DPR-18
DOCKET NO. 50-244

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages contain the captioned amendment number and marginal lines which indicate the area of changes.

PAGES

3.14-1 through 3.14-4
3.14-7
3.14-8
4.15-1 through 4.15-2a

3.14 Fire Suppression System

Applicability

Applies to the operating status of the Fire Suppression System.

Objective

Define those conditions of the Fire Suppression System which provide adequate fire protection.

Specification

- 3.14.1 The fire detection instruments for each fire detection zone shown in Table 3.14-1 shall be operable.
- 3.14.1.1 With the number of operable instruments less than that required by Specification 3.14.1,
- a. Except during emergency conditions which prohibit access, establish within an hour a fire watch patrol to inspect the zone with the inoperable instrument(s) at least once per hour, unless the instrument is located in containment, in which case inspect the containment once every 8 hours or monitor the containment air temperature at least once per hour at a minimum of 16 representative locations.
 - b. Comply with the requirements of Specification 3.14.1 within 14 days, or
 - c. Prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the instrument(s) to operable status.
- 3.14.2 The fire suppression water system shall be operable with:
- a. Two fire pumps each with a capacity of 2000 gpm with their discharge aligned to the fire suppression header.
 - b. Automatic initiation logic for each fire pump.
- 3.14.2.1 With an inoperable redundant component,
- a. In the operating mode, restore the component to operable status within 7 days. If the component is not restored to operable status within 7 days, run the remaining pump continuously and prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the

inoperability and plans for restoring the component to operable status.

- b. In cold or refueling shutdown, restore the component to operable status within 7 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of inoperability and the plans for restoring the component to operable status.

3.14.2.2 With the fire suppression water system inoperable,

- a. Establish within 24 hours a backup fire suppression water system and
- b. Provide Prompt Notification With Written Followup in accordance with Specification 6.9.2 outlining the actions taken, the cause of the inoperability, and the plans for restoring the components to operable status.
- c. If a. and b. above cannot be fulfilled, place the reactor in Hot Shutdown within the next six (6) hours and in Cold Shutdown within the following thirty (30) hours.

3.14.3 The spray and/or sprinkler systems located in the following areas shall be operable when equipment in the area is required to be operable:

- a. "A" Diesel Generator Room (S12)
- b. "B" Diesel Generator Room (S13)
- c. Turbine Driven Auxiliary Feedwater Pump and its Oil Reservoir (S14)
- d. Cable Tunnel (S05)
- e. Air Handling Room Cable Spray System (S06)
- f. Relay Room Spray System West (S10)
- g. Relay Room Spray System Northeast (S11)
- h. Relay Room Spray System Southeast (S09)
- i. Turbine Bldg./Control Room Wall Spray System (S29)
- j. Intermediate Bldg. Cable Trays Spray System (S15)
- k. Auxiliary Bldg. at Cable Tunnel Spray System (S03)

- l. Auxiliary Bldg. 253'-6" Cable Trays Spray System (S04)
 - m. Auxiliary Bldg. Basement Cable Trays Spray System (S01)
 - n. Screenhouse Basement Cable Trays Spray System (S17)
 - o. Screenhouse Sprinkler System (S18)
 - p. 1 G Charcoal Filter System (original system #14)
- 3.14.3.1 If a spray/sprinkler system is inoperable, except during emergency conditions which prohibit access, or for testing, within one hour, establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components necessary for safe-shutdown could be damaged; for other areas, establish a fire watch patrol to inspect the zone with the inoperable system at least once per hour and place backup fire suppression equipment in the unprotected area(s).
- a. Restore the system to operable status within 14 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the system to operable status.
- 3.14.4 The Halon systems located in the following areas shall be operable when equipment in the area is required to be operable and the storage tanks shall have at least 95% of the full charge weight and 90% of full charge pressure at 70°F:
- a. Computer Room (S07)
 - b. Relay Room (S08)
- 3.14.4.1 If a Halon system is inoperable, except during emergency conditions which prohibit access, within one hour, establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components necessary for safe-shutdown could be damaged; for other areas establish a fire watch patrol to inspect the zone with the inoperable equipment at least once per hour and place portable equipment in the unprotected area(s).
- a. Restore the system to operable status within 14 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the system to operable status.
- 3.14.5 The fire hose stations in Table 3.14-2 shall be operable.
- 3.14.5.1 With a hose station listed in Table 3.14-2 inoperable, except for hose station(s) within containment, route a hose to the unprotected area from an operable hose station within an hour.

- 3.14.5.2 If the water service to containment is inoperable, comply with the requirements of Specification 3.14.5 within 14 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the system to operable status.
- 3.14.6 All fire barrier penetration fire seals protecting safety related areas shall be intact.
- 3.14.6.1 With a fire barrier penetration fire seal which protects a safety related area not intact, a continuous fire watch shall be established on one side of the penetration within one hour or, verify that fire detectors on at least one side of the inoperable seal are in service and establish an hourly fire watch patrol.
- a. Restore the system to operable status within 7 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the system to operable status.
- 3.14.7 The yard hydrant on the southeast corner of the yard loop shall be operable.
- 3.14.7.1 With the yard hydrant on the southeast corner of the yard loop inoperable, within one hour have sufficient lengths of 2-1/2 inch diameter hose located in an adjacent operable hydrant hose house to provide fire protection to the transformers and the standby auxiliary feedwater building.
- a. Restore the system to operable status within 14 days or prepare and submit a Thirty Day Written Report in accordance with Specification 6.9.2 outlining the cause of the inoperability and the plans for restoring the system to operable status.

TABLE 3.14-1

FIRE DETECTION INSTRUMENTS

<u>INSTRUMENT LOCATION</u>	<u>MINIMUM INSTRUMENTS OPERABLE ***</u>	
	<u>HEAT</u>	<u>SMOKE</u>
1. Containment		
"A" Post-Accident Charcoal Bank (Z09,Z10)	3*	N/A
"B" Post-Accident Charcoal Bank (Z11,Z12)	3*	N/A
"A" Aux. Filter Charcoal Bank (Z06)	1*	N/A
"B" Aux. Filter Charcoal Bank (Z07)	1*	N/A
Cable Trays Basement Elev. (Z08)	1**	N/A
Cable Trays Intermed. Elev. (Z15)	2**	N/A
Cable Trays Operating Floor (Z16)	1**	N/A
"A" RCP Intermediate Floor (Z13)	1**	N/A
"B" RCP Intermediate Floor (Z14)	1**	N/A
Area Detection Operating Floor (Z16)	N/A	7
2. Control Room		
Area and Cabinet (Z19)	1	17
Control Room/Turb. Bldg. Wall (S29)	4	N/A
3. Relay Room (Z18,S08)	3	16
4. Computer Room		
Under Floor (S07)	N/A	3
Ceiling (Z17)	N/A	3
5. Battery Rooms (A & B) (Pyrotronics Zone 8)	N/A	3
6. Control Building		
Air Handling Room (S06)	N/A	3
7. Diesel Generator		
"A" Generator Room (S12)	2	N/A
"A" Generator Vault (Z20)	N/A	1
"B" Generator Room (S13)	2	N/A
"B" Generator Vault (Z21)	N/A	1
8. Intermediate Building		
Motor Driven Aux. Fd. Pump Area (Z22)	N/A	9
Turb. Driven Aux. Fd. Pump & Res. (S14)	1	N/A
Cable Trays Basement North (S15)	N/A	14
"A" Purge Filter Elev. 315'-4" (Z23)	N/A	1
"B" Purge Filter Elev. 315'-4" (Z24)	N/A	1
9. Screen House		
Area Detection serv. Water Pump and Bus Area (Z26)	N/A	11
Cable Trays Basement (S17)	N/A	4

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INSTRUMENT LOCATIONMINIMUM INSTRUMENTS OPERABLE ***

	<u>HEAT</u>	<u>SMOKE</u>
10. Standby Auxiliary Feedwater Bldg. (Z25)	N/A	8
11. Cable Tunnel (Z05,S05)	10	8
12. Auxiliary Building		
General Area (Pyrotronics Zones 1,2,3)	N/A	8
Area Basement East (Z01)	N/A	5
Area Basement West and RHR Pit (Z02)	N/A	9
Cable Trays/SI Pumps Basement (S01)	N/A	5
Penetration Area Cable Trays Mezz. (Z03)	N/A	2
Cable Trays, Elec. Cab. Mezz. Center (S03)	N/A	4
Cable Trays Mezz. East (S04)	N/A	4
Area Operating Floor (Z04)	N/A	13
1G Charcoal Filter (#14)	11	N/A

* Resistance Temperature Detectors (RTD) Only

** Line Type Detectors

*** The fire detection instruments located within the containment are not required to be operable during the performance of Type A containment leakage rate tests.

4.15 Fire Suppression System Test

Applicability

Applies to periodic testing and surveillance requirements of the Fire Suppression System.

Objective

To verify that the Fire Suppression System will respond properly, if required.

Specification

- 4.15.1 The fire detection instruments listed in Table 3.14-1 which are accessible during plant operation shall be demonstrated operable by performance of tests at least once every six months. Fire detectors which are not accessible during plant operation shall be demonstrated operable by the performance of tests during each cold shutdown exceeding 24 hours unless performed in the previous 6 months. The functional test for RTD detectors inside containment will be performed by verifying detector circuit continuity and detector temperature indication in the control room.
- 4.14.1.1 The supervised circuits supervision associated with the detector alarms of each of the detection instruments listed in Table 3.14.1 which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months. The non-supervised circuits between the local alarm panels and the control room shall be demonstrated OPERABLE at least once per 31 days. Circuit supervision which is not accessible during plant operation shall be demonstrated operable by the performance of tests during each cold shutdown exceeding 24 hours unless performed in the last 6 months.
- 4.15.2 The fire suppression water system shall be demonstrated operable:
- a. At least once per 31 days by starting each pump and operating it for at least 15 minutes on recirculation flow.
 - b. At least once per 31 days by verifying that each valve (manual, power operated, or automatic) in the flow paths is in its correct position.
 - c. At least once per 31 days by verifying the level of the diesel driven fire pump fuel tank.
 - d. At least once per 31 days by inspecting and testing the diesel fire pump starting batteries to determine the condition of the battery cells.

- e. At least once per 92 days by verifying that a sample of diesel fuel from the diesel fire pump fuel oil day tank is within the ASTM D975 recommended limits for number 2 diesel fuel oil when checked for viscosity, water and sediment.
- f. At least once per year by cycling each testable valve in the flow path (except for hydrant isolation valves) through at least one complete cycle of full travel. A further exception is the containment isolation valve which shall be done at a minimum of at least once per 18 months.
- g. At least once per 18 months by performing a system functional test which includes simulated actuation of the system, throughout its operating sequence, and:
 - (i) verifying that each automatic valve in the flow path actuates to its correct position on a test signal;
 - (ii) verifying that each fire pump develops at least 2000 gpm at 210 Ft. Hd.;
 - (iii) cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel;
 - (iv) verifying that each high pressure pump starts (sequentially) to maintain the fire suppression water system pressure at or above 210 Ft. Hd.
- h. At least once per 18 months by subjecting the diesel engine to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.
- i. At least once every 3 years a flow test of the fire suppression water system shall be performed. With one fire pump running the static pressure will be recorded at the test connection for the fire suppression water system. The four exterior wall hydrants will be flowed individually with the residual pressure at the test connection and the flow from each hydrant recorded.

4.15.3a The spray systems shall be demonstrated to be operable:

- a. At least once per 12 months by verifying the loss of locking pressure manual operation.

- d. At least every 3 years by pressure testing each hose to 50 psi greater than the Maximum Working Pressure.

4.15.6 Penetration seals in fire barriers which protect a safety related area shall be verified to be intact by visual inspection:

- a. At least once per 18 months, and
- b. Prior to declaring a penetration seal in a fire barrier intact following repairs or maintenance.

4.15.7 The yard fire hydrant on the southeast corner of the yard loop and its associated hydrant hose house shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the hydrant hose house to assure all required equipment is at the hose house.
- b. At least once per 6 months (once during March, April or May and once during September, October or November) by visually inspecting the yard fire hydrant and verifying that the hydrant barrel is dry and that the hydrant is not damaged.
- c. At least once per 12 months, by:
 - (i) Conducting a hose hydrostatic test at a pressure at least 50 psig greater than the maximum pressure available at the yard fire hydrant.
 - (ii) Replacement of all degraded gaskets in couplings.