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

WISCONSIN PUBLIC SERVICE CORPORATION
WISCONSIN POWER AND LIGHT COMPANY
MADISON GAS AND ELECTRIC COMPANY

DOCKET NO. 50-305

KEWAUNEE NUCLEAR PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 39
License No. DPR-43

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for amendment by Wisconsin Public Service Corporation, Wisconsin Power and Light Company and Madison Gas and Electric Company (the licensee) dated October 19, 1979 as revised by letter dated April 16, 1980, 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.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraphs 2.C.(2) and 2.C.(3) of Facility Operating License No. DPR-43 are hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 39, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

(3) The licensee may proceed with and is required to complete the modifications identified in Paragraphs 3.1.1, 3.1.2 and 3.1.4 through 3.1.28, of the Fire Protection Safety Evaluation Report. These modifications shall be completed by the dates specified in Table 3.1. Dates for resolution of items are specified in Table 3.2. In the event that these dates for completion cannot be met, the licensee shall submit a report explaining the circumstances and propose a revised schedule.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 21, 1982

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 39 TO FACILITY OPERATING LICENSE NO. DPR-43

DOCKET NO. 50-305

Revise Appendix A as follows:

Remove Pages	Insert Pages
Table TS 3.15-2	Table TS 3.15-2
TS 3.15-2	TS 3.15-2
Table TS 3.15-1	Table TS 3.15-1
TS 4.15-1	TS 4.15-1
TS 4.15-2	TS 4.15-2
TS 4.15-3	TS 4.15-3
TS 6-2	TS 6-2

TABLE TS 3.15-2

FIRE HOSE STATIONS

	LOCATION
1.	Adjacent to S/G Blowdown Tank and 4160 V Switchgear Rooms
2.	Adjacent to Main Shop, Tank and Pump Room near Door 78
3.	Adjacent to Control Room and A/C Equipment Room, 606 elevation near stairs
4.	Screenhouse, north stairway leading to lower level
5.	Adjacent to D/G 1A and D/G 1A day tank rooms
6.	Adjacent to D/G 1B and D/G 1B day tank rooms
7.	Air Compressor and Pump Room near Auxiliary Feedwater Area Panel
8.	Adjacent to Oil Storage Room "B" and SWPT Pressure Filter Assembly
9.	Adjacent to Battery Rooms 1A and 1B
10.	Aux. Building Basement North of Freight elevator (A)
11.	Aux. Building Basement North of Laundry Pumps on south wall of valve gallery.
12.	Aux Building Basement solid radwaste handling area, west of MCC 1-45G
13.	Aux Building Mezz. Southwest of BA Transfer Pumps
14.	Aux Building Mezz. South of S/G Blowdown Tank
15.	Aux Building Operating Floor West of entrance to BA Tank Room
16.	Aux Building Operating Floor East Side of RWST
17.	Stair well at 616 elevation next to "G" wall

Specification 6.9.2 within the next 30 days.

4. With no fire water systems operable:

   A. Establish a backup fire water system within 24 hours.

   B. Submit a report in accordance with Specification 6.9.2;

      a) By telephone within 24 hours, and

      b) In writing no later than the first working day following the event, and

      c) In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

c. Spray And/Or Sprinkler Systems

Whenever equipment in spray and/or sprinkler protection areas is required the following spray and/or sprinkler systems shall be OPERABLE:

1. Special Ventilation Room AX-23
2. Cable Tray Sprinkler System (AX-32)
3. Screenhouse Sprinkler System

With one or more of the above required spray and/or sprinkler systems inoperable, establish backup fire suppression equipment for the unprotected area(s) within one hour; restore the system to OPERABLE status within 14 days or submit a report to the Commission pursuant to Specification 6.9.2 within the next 30 days.

d. Low Pressure CO_2 Systems

Whenever equipment in the low pressure CO_2 protected areas is required to be OPERABLE, the following low pressure CO_2 systems shall be OPERABLE with a minimum of 60% indicated level and a minimum pressure of 295 psig in the associated storage tank(s).

1. Diesel Generator 1A, TU-90 and day tank room, TU-91
2. Diesel Generator 1B, TU-92 and day tank room, TU-93

TABLE TS 3.15-1

FIRE DETECTION INSTRUMENTATION

Fire Area		Detectors	Minimum # Required	Required Actions
AX-21	4160 Switchgear Room	3	2	Establish an hourly fire watch inspection
AX-23	Special Vent Filter Housings	9	9	If filter housing is in operation with charcoal filters in service establish an hourly fire watch inspection. If not in service establish a 4-hour inspection frequency.
AX-23	Auxiliary Building	4	2	Establish an hourly fire watch inspection
AX-24	Fuel Handling Area	3	3	Establish an hourly fire watch inspection
AX-30	Relay Room	19	6	Establish an hourly fire watch inspection
AX-32	Cable run area	11	8	Establish an hourly fire watch inspection
AX-35	Control Room	13	0	Control room is continuously manned
AX-37	CRD Room	7	4	Establish an hourly fire watch inspection
SB-65	Shield Building	6	2	Establish a four hour fire watch inspection
SC-70	Screenhouse	4	2	Establish an hourly fire watch inspection
TU-90/91	D/G 1A and day tank room	7	5	Establish an hourly fire watch inspection
TU-92/93	D/G 1B and day tank room	7	5	Establish an hourly fire watch inspection
TU 94	Cardox Room	1	1	Establish an hourly fire watch inspection
TU 95	Air Compressor & Pump Room	5	4	Establish an hourly fire watch inspection
TU 97	Battery Room 1A	1	1	Establish an hourly fire watch inspection
TU 98	Battery Room 1B	1	1	Establish an hourly fire watch inspection

4.15 FIRE PROTECTION SYSTEM

Applicability

Applies to the testing and surveillance requirements for the fire protection equipment addressed in Specification 3.15.

Objective

Verify performance capability of the fire protection system.

Specification

a. Fire Detection Instrumentation

1. At least the minimum required number of fire detection instruments in Table TS 3.15-1 shall be demonstrated OPERABLE semi-annually by performance of a CHANNEL FUNCTIONAL TEST. Those detectors that are of the fusible link type shall be verified operable by visual inspection.

2. Deleted

b. Fire Water System

The fire water system shall be demonstrated OPERABLE:

1. Each pump shall be tested monthly in accordance with Table TS 4.1-3.

2. At least once per 12 months by verifying that each valve (manual, power operated or automatic) in the flow path is in its correct position, and by cycling each testable valve in the flow path through at least one complete cycle of full travel.

3. At least once per 12 months by performance of a system flush.

4. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:

   a) Verifying that each pump develops at least 1800 gpm at a system head of 310 feet,

   b) Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and

c) Verifying that each high pressure pump auto-start setpoint is ≥100 psig.

5. Deleted

c. Spray/Sprinkler Systems

Each of the spray and/or sprinkler systems in Specification 3.15.c shall be demonstrated OPERABLE:

1. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.

2. At least once per 18 months:

a) By performing a system functional test which includes simulated automatic actuation of the system, and:

1. Verifying that the automatic valves in the flow path actuate to their correct positions, and

2. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.

b) By visual inspection of the spray headers to verify their integrity, and

c) By visual inspection of each nozzle to verify no blockage.

3. At least once per three years by performing an air flow test through each open head spray/sprinkler header and verifying each open head spray/sprinkler nozzle is unobstructed.

d. Low Pressure CO_2 Systems.

Each of the low pressure CO_2 systems in Specification 3.15.d shall be demonstrated OPERABLE:

1. At least once per 7 days by verifying CO_2 storage tank level and pressure, and

2. At least once per 18 months by verifying:

a) The system valves and associated ventilation dampers actuate manually and automatically, upon receipt of a simulated actuation signal, and

b) Flow from each nozzle during a "Puff Test."

e. Fire Hose Stations

Each of the fire hose stations shown in Table TS 3.15-2 shall be demonstrated OPERABLE:

1. Monthly:

   a) Visual inspection of the station to assure all required equipment is at the station, and

2. At least once per 18 months by:

   a) Removing the hose for inspection and reracking, and

   b) Replacement of all degraded gaskets in couplings.

3. At least once per three years by:

   a) Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage.

   b) Conducting a hose hydrostatic test at a pressure of at least 200 psig.

f. Penetration Fire Barriers

Each of the required penetration fire barriers shall be verified to be intact by a visual inspection:

1. At least once per 18 months, and

2. Prior to declaring a penetration fire barrier functional following repairs or maintenance.

BASES

Fire Detection Instrumentation

Failure of a fire detection instrument results in an alarm to the control room Control Panel and local panels and, thus, an annual functional test is adequate to detect otherwise failed detector.

Fire Water System

Both pumps in the system shall be individually tested monthly. The fire water system consists of a 12"

c. At least one licensed operator shall be in the control room when fuel is in the reactor.

d. At least two licensed operators shall be present in the control room during reactor startup, turbine generator synchronization to the grid, and during recovery from reactor trips.

e. An individual qualified in radiation protection procedures shall be on site when fuel is in the reactor. This individual may be one of the shift operators.

f. Refueling operations shall be directed by a licensed Senior Reactor Operator assigned to the refueling operation who has no other concurrent responsibilities during the refueling operation.

g. A five man fire response team, consisting of 3 Fire Brigade members and 2 Assistant Fire Brigade personnel, shall be maintained. If a member of the fire response team becomes incapacitated due to illness or injury this requirement is deemed satisfied if a replacement arrives within two hours in all but the severest weather.

h. When the reactor is above the cold shutdown condition, a qualified Shift Technical Advisor shall be within 10 minutes of the control room.

6.3 PLANT STAFF QUALIFICATIONS

6.3.1 Qualifications of each member of the Plant Staff shall meet or exceed the minimum acceptable levels of ANSI-N18.1-1971 for comparable positions.

6.3.2 The Shift Technical Advisor shall have a bachelors degree or equivalent in a scientific or engineering discipline with specific training in the design of the Kewaunee Plant and plant transient and accident analysis.