



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

IOWA ELECTRIC LIGHT AND POWER COMPANY
CENTRAL IOWA POWER COOPERATIVE
CORN BELT POWER COOPERATIVE

DOCKET NO. 50-331

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 61
License No. DPR-49

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Iowa Electric Light and Power Company, Central Iowa Power Cooperative, and Corn Belt Power Cooperative (the licensees) dated June 28, 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 paragraph 2.C.(2) of Facility Operating License No. DPR-49 is hereby amended to read as follows:

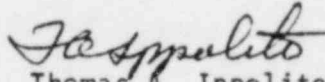
(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 61, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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3. This license amendment is effective as of June 28, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas A. Ippolito, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 17, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 61

FACILITY OPERATING LICENSE NO. DPR-49

DOCKET NO. 50-331

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

REMOVE

1.1-2
1.1-3
3.2-16
3.6-7

REPLACE

1.1-2
1.1-3
3.2-16
3.6-7

SAFETY LIMITLIMITING SAFETY SYSTEM SETTING16.C Power Transient

To ensure that the Safety Limits established in Specification 1.1.A and 1.1.B are not exceeded, each required scram shall be initiated by its primary source signal. A Safety Limit shall be assumed to be exceeded when a scram is accomplished by a means other than the Primary Source Signal.

- D. With irradiated fuel in the reactor vessel, the water level shall not be less than 12 in. above the top of the normal active fuel zone. Top of the active fuel zone is defined to be 344.5 inches above vessel zero (See Bases 3.2)

Where: S = Setting in percent of rated power (1,593 MWt)

W = Recirculation loop flow in percent of rated flow. Rated recirculation loop flow is that recirculation loop flow which corresponds to 49×10^8 lb/hr core flow.

For a MFLPD greater than FRP, the APRM scram setpoint shall be:

$S \leq (0.66W + 54) \frac{FRP}{MFLPD}$ for two recirculation loop operation and

$S \leq (0.66W + 50.7) \frac{FRP}{MFLPD}$ for one* recirculation loop operation.

NOTE: These settings assume operation within the basic thermal design criteria. These criteria are LHGR \leq 18.5 KW/ft (7x7 array) or 13.4 KW/ft (8x8 array) and MCPR \geq values as indicated in Table 3.12-2 times K_f , where K_f is defined by Figure 3.12-1. Therefore, at full power, operation is not allowed with MFLPD greater than unity even if the scram setting is reduced. If it is determined that either of these design criteria is being violated during operation, action must be taken immediately to return to operation within these criteria.

2. APRM High Flux Scram

When in the REFUEL or STARTUP and HOT STANDBY MODE. The APRM scram shall be set at less than or equal to 15 percent of rated power.

*Effective June 28 through July 1, 1980.

SAFETY LIMITLIMITING SAFETY SYSTEM SETTING

3. APRM Rod Block When in Run Mode.

For operation with MFLPD less than or equal to FRP the APRM Control Rod Block setpoint shall be as shown on Fig. 2.1-1 and shall be:

$$S \leq (0.66W + 42)$$

The definitions used above for the APRM scram trip apply.

For a MFLPD greater than FRP, the APRM Control Rod Block setpoint shall be:

$$S \leq (0.66W + 42) \frac{FRP}{MFLPD} \text{ for two recirculation loop operation, and}$$

$$S \leq (0.66W + 38.7) \frac{FRP}{MFLPD} \text{ for * one recirculation loop operation.}$$

4. IRM - the IRM scram shall be set at less than or equal to 120/125 of full scale.
- B. Scram and Isolation on reactor low water level \geq 513.5 inches above vessel zero (+12" on level instruments)
- C. Scram - turbine stop valve closure \leq 10 percent valve closure
- D. Turbine control valve fast closure shall occur within 30 milliseconds of the start of turbine control valve fast closure.

*Effective June 28 through July 1, 1980

TABLE 3.2-C

Minimum No.
of Operable
Instrument
Channels Per
Trip System

Number of
Instrument Channels
Provided by Design Action

Minimum No. of Operable Instrument Channels Per Trip System	Instrument	Trip Level Setting	Number of Instrument Channels Provided by Design	Action
2	APRM Upscale (Flow Biased)	for 2 recirc loop operation $\leq (0.66W + 42) \frac{FRP}{MFLPD} (2)$	6 Inst. Channels	(1)
		for 1 recirc loop operation $\leq (0.66W + 38.7) \frac{FRP}{MFLPD} (2)$		
2	APRM Upscale (Not in Run Mode)	≤ 12 indicated on scale	6 Inst. Channels	(1)
2	APRM Downscale	≥ 5 indicated on scale	6 Inst. Channels	(1)
1 (7)	Rod Block Monitor (Flow Biased)	for 2 recirc loop operation $\leq (0.66W + 39) \frac{FRP}{MFLPD} (2)$	2 Inst. Channels	(1)
		for 1 recirc loop operation $\leq (0.66W + 35.7) \frac{FRP}{MFLPD} (2)$		*
1 (7)	Rod Block Monitor Downscale	≥ 5 indicated on scale	2 Inst. Channels	(1)
2	IRM Downscale (3)	$\geq 5/125$ full scale	6 Inst. Channels	(1)
2	IRM Detector not in Startup Position	(8)	6 Inst. Channels	(1)
2	IRM Upscale	$\leq 108/125$	6 Inst. Channels	(1)
2 (5)	SRM Detector not in Startup Position	(4)	4 Inst. Channels	(1)
2 (5) (6)	SRM Upscale	$\leq 10^5$ counts/sec.	4 Inst. Channels	(1)

*Effective June 28 through July 1, 1980.

- b. The indicated value of core flow rate varies from the value derived from loop flow measurements by more than 10%.
- c. The diffuser to lower plenum differential pressure reading on an individual jet pump varies from the mean of all jet pump differential pressures by more than 10%.
- 2. Whenever there is recirculation flow with the reactor in the Startup or Run mode, and one recirculation pump is operating, the diffuser to lower plenum differential pressure shall be checked daily and the differential pressure of an individual jet pump in a loop shall not vary from the mean of all jet pump differential pressures in that loop by more than 10%.

F. Jet Pump Flow Mismatch

- 1. When both recirculation pumps are in steady state operation, the speed of the faster pump may not exceed 122% of the speed of the slower pump when core power is 80% or more of rated power or 135% of the speed of the slower pump when core power is below 80% of rated power.
- 2. * If specification 3.6.F.1 cannot be met, one recirculation pump shall be tripped. The reactor may be started and operated with one recirculation loop out of service provided that:
 - a. A MAPLHGR multiplier of 0.65 is applied.
 - b. The power level is limited to a maximum of 50% of licensed power.
 - c. The idle loop is isolated (suction valve closed and electrically disconnected).

*Effective 6/28 thru 7/2/80

F. Jet Pump Flow Mismatch

- 1. Recirculation pump speeds shall be checked and logged at least once per day.

Amendment No. 60, 61