

July 30, 1992

Docket No. 50-461

DISTRIBUTION

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Dear Mr. Spangenberg:

SUBJECT: AMENDMENT NO. 64 TO FACILITY OPERATING LICENSE NO. NPF-62
(TAC NO. M79687)

The Commission has issued the enclosed Amendment No. 64 to Facility Operating License No. NPF-62 for the Clinton Power Station, Unit No. 1. This amendment revises the Technical Specifications (TS) in response to your application dated December 17, 1990, and supplemented December 17, 1991.

The amendment revises TS 3/4.3.4.1, Anticipated Transient Without Scram Recirculation Pump Trip (ATWS-RPT) system to allow use of the trip system test switches during condition 1 (Run Mode), and to extend the time when an operable channel must be placed in the tripped condition from 48 to 72 hours.

Copies of the Safety Evaluation and of the Notice of Issuance are also enclosed. The notice of issuance has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by
C. E. Carpenter, Jr., Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 64 to License No. NPF-62
- 2. Safety Evaluation

cc w/enclosures:
See next page

LA: PD33:DRPW
PKreutzer
7/20/92
DOCUMENT NAME:

PM: PD33:DRPW
JLombardo
7/16/92

PM: PD33:DRPW
CECarpenter
7/16/92
7/30/92

D: PD33:DRPW
JHannon
7/16/92

OGC:OWFN
CBoehring
7/16/92

Subject to
addition of TP
on Action "d" on

P. 2 of SE

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Mr. Frank A. Spangenberg
Illinois Power Company

Clinton Power Station
Unit No. 1

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

ILLINOIS POWER COMPANY, ET AL.

DOCKET NO. 50-461

CLINTON POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 64
License No. NPF-62

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Illinois Power Company* (IP), and Soyland Power Cooperative, Inc. (the licensees) dated December 17, 1990 and supplemented December 17, 1991, 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. NPF-62 is hereby amended to read as follows:

*Illinois Power Company is authorized to act as agent for Soyland Power Cooperative, Inc. and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

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(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 64, are hereby incorporated into this license. Illinois Power Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of issuance: July 30, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 64

FACILITY OPERATING LICENSE NO. NPF-62

DOCKET NO. 50-461

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are provided to maintain document completeness.

Remove

3/4 3-48

3/4 3-49

Insert

3/4 3-48

3/4 3-49

INSTRUMENTATION

3/4.3.4 RECIRCULATION PUMP TRIP ACTUATION INSTRUMENTATION

ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.4.1 The anticipated transient without scram recirculation pump trip (ATWS-RPT) system instrumentation channels shown in Table 3.3.4.1-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.4.1-2.

APPLICABILITY: OPERATIONAL CONDITION 1.

ACTION:

- a. With an ATWS-RPT system instrumentation channel trip setpoint less conservative than the value shown in the Allowable Value column of Table 3.3.4.1-2, declare the channel inoperable until the channel is restored to OPERABLE status with the channel trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip system, place the inoperable channel(s) in the tripped condition within 72 hours or be in at least STARTUP within the next 6 hours.
- c. With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems, place at least one inoperable channel in the tripped condition within one hour, and place the second inoperable channel in the tripped condition within 72 hours. Otherwise, be in at least STARTUP within the next 6 hours.
- d. With both trip systems otherwise inoperable, restore at least one trip system to OPERABLE status within one hour or be in at least STARTUP within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.3.4.1.1 Each ATWS-RPT system instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.4.1-1.

4.3.4.1.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per 18 months.

TABLE 3.3.4.1-1

ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

<u>TRIP FUNCTION</u>	<u>MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM ^(a)</u>
1. Reactor Vessel Water Level - Low Low, Level 2	2
2. Reactor Vessel Pressure - High	2

(a) One trip system may be placed in an inoperable status for up to 2 hours for required surveillance provided the redundant trip system is OPERABLE.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 64 TO FACILITY OPERATING LICENSE NO. NPF-62

ILLINOIS POWER COMPANY, ET AL.

CLINTON POWER STATION, UNIT NO. 1

DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated December 17, 1990 and supplemented December 17, 1991, Illinois Power Company requested changes to the Clinton Technical Specification (TS) Section 3/4.3.4.1, Anticipated Transient Without Scram Recirculation Pump Trip (ATWS-RPT) system instrumentation to comply with the requirements of 10 CFR 50.62. The actuation logic for the Clinton ATWS-RPT is based on a trip system with two-out-of-two high reactor pressure signals or two-out-of-two low-low reactor water level signals. These are redundant trip systems. Each trip system will automatically trip both pumps. TS 3.3.4.1 requires both reactor pressure channels and both reactor water level channels in each trip system to be operable while in Operational Condition 1 (Run Mode). Action (b) of TS 3.3.4.1 currently allows one channel in one trip system to be inoperable for up to 48 hours; otherwise, the plant must be in at least Operational Condition 2 (Startup Mode) within the next 6 hours.

The licensee proposed to replace the existing Action statement (b) with a new action statement and add new Action statements (c) and (d) that are consistent with other BWR/6 plants. In addition, the licensee requested an exemption from the provision of TS 3.0.4. This exemption will allow plant startup with one or more channels inoperable in the RPT system.

2.0 EVALUATION

The existing TS 3.3.4.1 Action statement (b) states that "With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip function in one Trip System, restore the inoperable channel to OPERABLE status within 48 hours or be in at least STARTUP within the next 6 hours." The licensee proposed to replace the existing Action statement (b) with a new Action statement (b) and add Action Statements (c) and (d), as follows:

- b. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip system, place the inoperable channel(s) in the tripped condition within 72 hours or be in at least STARTUP within the next 6 hours. The provisions of TS 3.0.4 are not applicable.

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- c. With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems, place at least one inoperable channel in the tripped condition within one hour, and place the second inoperable channel in the tripped condition within 72 hours. Otherwise, be in at least STARTUP within the next 6 hours. The provisions of TS 3.0.4 are not applicable.
- d. With both trip systems otherwise inoperable, restore at least one trip system to OPERABLE status within one hour or be in at least STARTUP within the next 6 hours.

The staff recognizes that, with the redundant trip systems arrangement, a channel inoperable in one trip system will not prevent the RPT actuation (i.e., it will not lose RPT function), and it is still safe to operate the plant in RUN mode. With one channel inoperable for one trip system, the proposed 72 hours limit is a reasonable time to repair the inoperable channel and is consistent with the draft BWR standard TS. However, the proposed wording "The provisions of TS 3.0.4 are not applicable" in Action Statement (b) is not acceptable. TS 3.0.4 establishes limitations on a change in OPERATIONAL CONDITIONS when a Limiting Condition for Operation (LCO) is not met. It precludes placing the facility in a higher CONDITION of operation when the requirements for a LCO are not met and continued noncompliance to these conditions would result in a shutdown to comply with the ACTION requirements if a change in CONDITIONS were permitted. The purpose of this TS is to ensure that facility operation is not initiated or that higher CONDITIONS of operation are not entered when corrective action is being taken. This is consistent with the staff position in Generic Letter 87-19. The ATWS recirculation pump trip is an important safety feature and should be fully operational prior to changing plant conditions. The provisions of TS 3.0.4 are applicable to LCO 3.3.4.1 and, by letter dated December 17, 1991, the licensee has withdrawn the original request to change the reference to the provisions of TS 3.0.4.

The proposed Action Statement (c) addresses the condition when the number of OPERABLE channels are one less than required for both trip systems. By placing at least one inoperable channel in the trip condition within 1-hour, the risk of incapability to initiate the ATWS-RPT function is limited to the 1-hour time period. The staff finds that during the 1-hour time period plus the 6-hours for bringing the plant to the STARTUP mode, the probability of failing RPT actuation coincident with an ATWS event is very low. Statement (c) also requires placing the second inoperable channel in the tripped condition within 72 hours. This is the same condition as covered by Action (b). The proposed actions are consistent with the draft BWR standard TS being implemented in the improved Technical Specification program. However, the proposed wording "The provisions of TS 3.0.4 are not applicable" in Action Statement (c) is not acceptable for the same reason as stated above for denying in Action Statement (b). The licensee has also withdrawn this proposed change by letter dated December 17, 1991.

The proposed Action Statement (d) addresses the case in which both trip systems are inoperable for reasons other than addressed by proposed Action Statement (c). In this case, the proposed Action (d) requires at least one trip system to be

restored to operable status within 1-hour. With one trip system restored, continued operation would be governed by proposed Action (b). If one trip system is not restored within 1-hour, the plant must be in at least Startup within the next 6-hours. The proposed Action (d) is justified based on the limited period of time for continued plant operation with both ATWS-RPT trip systems inoperable and the low probability of an event occurring that requires actuation of this system during this short time period. The staff finds the proposed Action (d) acceptable.

The wording change on Footnote (a) of TS Table 3.3.4.1-1 allows one trip system to be placed in an inoperable status for up to two hours for required surveillance when the redundant trip system is operable. The staff finds this acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the appropriate Illinois State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of significant impact has been prepared and published in the Federal Register on May 31, 1991 (57 FR 6747). Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

5.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: H. Li
J. Lombardo

Date: July 30, 1992