

May 27, 1993

Docket No. 50-461

Mr. Frank A. Spangenberg
Manager - Licensing and Safety
Clinton Power Station
P. O. Box 678
Mail Code V920
Clinton, Illinois 61727

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B. Clayton RIII
D. Hagan
L. Cunningham

Dear Mr. Spangenberg:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. M85817)

The U. S. Nuclear Regulatory Commission (Commission) has issued the enclosed Amendment No. 76 to Facility Operating License No. NPF-62 for the Clinton Power Station, Unit No. 1. The amendment is in response to your application dated February 11, 1993 (U-602096).

The amendment changes Clinton Power Station Technical Specification 6.9.1.7, "Semiannual Radioactive Effluent Release Report" to comply with the amended 10 CFR 50.36a requirements which change the submittal frequency of the report from semiannually to annually. Your letter proposed extending the period of time allowed for submitting each report from 60 days to 90 days after January 1 of each year. This was similar to the staff's recommended position. However, it was subsequently determined that this was unnecessarily restrictive and the staff now proposes relaxing this reporting time to "prior to May 1 of each year." Following discussion with your staff, we have extended this increased flexibility to your submittal.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

Original Signed By:

Douglas V. Pickett, Project Manager
Project Directorate III-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 76 to NPF-62
2. Safety Evaluation

cc w/enclosures:
see next page

* Please see previous concurrence

OFC	LA:PDIII-2	PE:PDIII-2	PM:PDIII-2	BC:PRPB	D:PDIII-2	OGC
NAME	CMOORE	RLAUFER	DPICKETT	LCUNNINGHAM*	JDYER	
DATE	4/30/93	4/30/93	4/30/93	04/26/93	5/27/93	5/5/93

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PDR ADOCK 05000461
PDR

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Douglas V. Pickett, Project Manager
Project Directorate III-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

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see next page

* Please see previous concurrence

OFC	LA:PDIII-2	PE:PDIII-2	PM:PDIII-2	BC:PRPB	D:PDIII-2	OGC
NAME	MOORE	RLAUFER	DPICKETT	LCUNNINGHAM*	JDYER	
DATE	1/30/93	2/20/93	4/30/93	04/26/93	5/27/93	5/5/93



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 27, 1993

Docket No. 50-461

Mr. Frank A. Spangenberg
Manager - Licensing and Safety
Clinton Power Station
P. O. Box 678
Mail Code V920
Clinton, Illinois 61727

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Sincerely,

A handwritten signature in cursive script that reads "Douglas V. Pickett".

Douglas V. Pickett, Project Manager
Project Directorate III-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 76 to NPF-62
2. Safety Evaluation

cc w/enclosures:
See next page

Mr. Frank A. Spangenberg
Illinois Power Company

Clinton Power Station
Unit No. 1

cc:

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

ILLINOIS POWER COMPANY

SOYLAND POWER COOPERATIVE, INC.

DOCKET NO. 50-461

CLINTON POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 76
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 February 11, 1993, 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.

(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. 76 , 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

Douglas V Peletti for

James E. Dyer, Director
Project Directorate III-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 27, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 76

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, as indicated by an asterisk, are provided to maintain document completeness.

<u>Remove Pages</u>	<u>Insert Pages</u>
xxv	xxv
*xxvi	*xxvi
1-5	1-5
*1-6	*1-6
*3/4 7-17	*3/4 7-17
3/4 7-18	3/4 7-18
6-19	6-19
*6-20	*6-20
6-25	6-25
*6-26	*6-26

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DEFINITIONS

MINIMUM CRITICAL POWER RATIO

1.25 The MINIMUM CRITICAL POWER RATIO (MCPR) shall be the smallest CPR which exists in the core.

OFFSITE DOSE CALCULATION MANUAL (ODCM)

1.26 The OFFSITE DOSE CALCULATION MANUAL (ODCM) shall contain the methodology and parameters used in the calculation of offsite doses resulting from radioactive gaseous and liquid effluents, in the calculation of gaseous and liquid effluent monitoring Alarm/Trip Setpoints, and in the conduct of the Environmental Radiological Monitoring Program. The ODCM shall also contain (1) the Radioactive Effluent Controls and Radiological Environmental Monitoring Programs required by Section 6.8.4 and (2) descriptions of the information that should be included in the Annual Radiological Environmental Operating and Radioactive Effluent Release Reports required by Specifications 6.9.1.6 and 6.9.1.7.

OPERABLE - OPERABILITY

1.27 A system, subsystem, train, component or device shall be OPERABLE or have OPERABILITY when it is capable of performing its specified function(s) and when all necessary attendant instrumentation, controls, electrical power, cooling or seal water, lubrication or other auxiliary equipment that are required for the system, subsystem, train, component or device to perform its function(s) are also capable of performing their related support function(s).

OPERATIONAL CONDITION - CONDITION

1.28 An OPERATIONAL CONDITION, i.e., CONDITION, shall be any one inclusive combination of mode switch position and average reactor coolant temperature as specified in Table 1.2.

PHYSICS TESTS

1.29 PHYSICS TESTS shall be those tests performed to measure the fundamental nuclear characteristics of the reactor core and related instrumentation as 1) described in Chapter 14 of the FSAR, 2) as authorized under the provisions of 10 CFR 50.59, or 3) as otherwise approved by the Commission.

PRESSURE BOUNDARY LEAKAGE

1.30 PRESSURE BOUNDARY LEAKAGE shall be leakage through a nonisolable fault in a reactor coolant system component body, pipe wall or vessel wall.

DEFINITIONS

PRIMARY CONTAINMENT INTEGRITY

1.31 PRIMARY CONTAINMENT INTEGRITY shall exist when:

- a. All primary containment penetrations required to be closed during accident conditions are either:
 1. Capable of being closed by an OPERABLE containment automatic isolation system or
 2. Closed by at least one manual valve, blind flange, or deactivated automatic valve secured in its closed position, except as provided in Specification 3.6.4.
- b. All primary containment equipment hatches are closed and sealed.
- c. Each primary containment air lock is in compliance with the requirements of Specification 3.6.1.3.
- d. The primary containment leakage rates are within the limits of Specification 3.6.1.2.
- e. The suppression pool is in compliance with the requirements of Specification 3.6.3.1.
- f. The sealing mechanism associated with each primary containment penetration e.g., welds, bellows or O-rings, is OPERABLE.

PROCESS CONTROL PROGRAM (PCP)

1.32 The PROCESS CONTROL PROGRAM shall contain the current formula, sampling, analyses, tests, and determinations to be made to ensure that the processing and packaging of solid radioactive wastes based on demonstrated processing of actual or simulated wet solid wastes will be accomplished in such a way as to assure compliance with 10 CFR Part 20, 10 CFR Part 61, 10 CFR Part 71 and Federal and State regulations, burial ground requirements and other requirements governing the disposal of the radioactive waste.

PURGE - PURGING

1.33 PURGE or PURGING is the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition in such a manner that replacement air or gas is required to purify the confinement.

RATED THERMAL POWER

1.34 RATED THERMAL POWER shall be a total reactor core heat transfer rate to the reactor coolant of 2894 MWt.

PLANT SYSTEMS

3/4.7.6 MAIN TURBINE BYPASS SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.6 The main turbine bypass system shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITION 1 with THERMAL POWER greater than or equal to 25% of RATED THERMAL POWER.

ACTION:

With the main turbine bypass system inoperable, restore the system to OPERABLE status within 1 hour or reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.

SURVEILLANCE REQUIREMENTS

4.7.6 The main turbine bypass system shall be demonstrated OPERABLE:

- a. At least once per 31 days by cycling each turbine bypass valve through at least one complete cycle of full travel, and
- b. At least once per 18 months by:
 1. Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve actuates to its correct position.
 2. Demonstrating TURBINE BYPASS SYSTEM RESPONSE TIME meets the following requirements when measured from the initial movement of the main turbine stop or control valve:
 - a) 80% of turbine bypass system capacity shall be established in ≤ 0.3 seconds.
 - b) Bypass valve opening shall start in ≤ 0.1 seconds.

PLANT SYSTEMS

3/4.7.7 LIQUID STORAGE TANKS*

LIMITING CONDITION FOR OPERATION

3.7.7 The quantity of radioactive material contained in each of the following unprotected outdoor tanks shall be limited to less than or equal to 10 curies, excluding tritium and dissolved or entrained noble gases.

- a. Cycled Condensate Storage Tank
- b. RCIC Storage Tank
- c. Outside temporary tank

APPLICABILITY: At all times.

ACTION:

- a. With the quantity of radioactive material in any of the above listed tanks exceeding the above limit, immediately suspend all additions of radioactive material to the tank, within 48 hours reduce the tank contents to within the limit, and describe the events leading to this condition in the next Radioactive Effluent Release Report.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.7 The quantity of radioactive material contained in each of the above listed tanks shall be determined to be within the above limit by analyzing a representative sample of the tank's contents at least once per 7 days when radioactive materials are being added to the tank.

*Tanks included in this specification are those outdoor tanks that are not surrounded by liners, dikes, or walls capable of holding the tank contents and that do not have tank overflows and surrounding area drains connected to the liquid radwaste treatment system.

ADMINISTRATIVE CONTROLS

RADIOACTIVE EFFLUENT RELEASE REPORT

6.9.1.7 The Radioactive Effluent Release Report covering the operation of the unit during the previous 12 months of operation shall be submitted prior to May 1 of each year. The report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit. The material provided shall be (1) consistent with the objectives outlined in the ODCM and PCP and (2) in conformance with 10 CFR 50.36a and Section IV.B.1 of Appendix I to 10 CFR Part 50.

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ADMINISTRATIVE CONTROLS

6.14 OFFSITE DOSE CALCULATION MANUAL (ODCM)

Changes to the ODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.3.n. This documentation shall contain:
 1. Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
 2. A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.1302, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by the FRG and the approval of the Manager - Clinton Power Station.
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire ODCM as a part of or concurrent with the Radioactive Effluent Release Report for the period of the report in which any change to the ODCM was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

ADMINISTRATIVE CONTROLS

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 76 TO FACILITY OPERATING LICENSE NO. NPF-62

ILLINOIS POWER COMPANY

SOYLAND POWER COOPERATIVE, INC.

CLINTON POWER STATION, UNIT NO. 1

DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated February 11, 1993, the Illinois Power Company (IP, the licensee) requested an amendment to Facility Operating License No. NPF-62 for the Clinton Power Station (CPS). The proposed amendment will change Technical Specification (TS) 6.9.1.7, "Semiannual Radioactive Effluent Release Report," to comply with the amended 10 CFR 50.36a requirements which change the submittal frequency of the report from semiannually to annually. Additionally, the proposed change will adjust the period of time allowed for submitting each report from 60 days to 90 days after January 1 of each year.

2.0 EVALUATION

The proposed changes revise those CPS TS involving the Semiannual Radioactive Effluent Release Report in order to be consistent with the requirements of 10 CFR 50.36a concerning submittal frequency. The licensee is proposing the following changes:

- a. Throughout CPS TS the subject report is currently referred to by the name "Semiannual Radioactive Effluent Release Report." References to this report within TS 6.9.1.7 and in other sections of the TS listed below will now be revised to refer to the "Radioactive Effluent Release Report."
 1. INDEX: 6.9.1, "Routine Reports";
 2. TS 1.26: "Offsite Dose Calculation Manual (ODCM)";
 3. TS 3.7.7: "Liquid Storage Tanks," ACTION a;
 4. TS 6.9.1.7: "Semiannual Radioactive Effluent Release Report";
 5. TS 6.14: "Offsite Dose Calculation Manual (ODCM)."
- b. TS 6.9.1.7, "Semiannual Radioactive Effluent Release Report," is being revised to replace the requirement that the Radioactive Effluent Release Report cover the previous "6 months" of operation with the requirement

that the report cover the previous "12 months" of operation. Additionally, the requirement to submit the report "within 60 days after January 1 and July 1 of each year" will be revised to read "within 90 days after January 1 of each year."

The staff has reviewed the licensee's proposed changes and determined that they meet the requirements of 10 CFR 50.36a which became effective on October 1, 1992 (57 FR 39353). The time of year or period of time permitted for submitting the report following the period of operation addressed by the report are not specified in 10 CFR 50.36a. The staff initially endorsed a reporting time of "within 90 days after January 1 of each year" which is similar to that proposed by the licensee. However, it was subsequently determined that this was unnecessarily restrictive and the staff now proposes relaxing this reporting time to "prior to May 1 of each year." Following discussion with the licensee, the staff has extended this increased flexibility to the licensee's submittal. Therefore, based upon our review, the staff finds that the licensee's proposal in this area is consistent with generic guidance currently being developed by the NRC. The staff, therefore, finds the licensee's proposed changes acceptable.

3.0 STATE CONSULTATION

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

4.0 ENVIRONMENTAL CONSIDERATION

This amendment changes recordkeeping, reporting, or administrative procedures or requirements. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

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 Contributor: R. Laufer

Date: May 27, 1993