

December 19, 1988

Docket No.: 50-461

Mr. Dale L. Holtzscher  
Acting Manager - Licensing and Safety  
Clinton Power Station  
P. O. Box 678  
Mail Code V920  
Clinton, Illinois 61727

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Dear Mr. Holtzscher:

SUBJECT: TECHNICAL SPECIFICATION CHANGE REQUEST TO REVISE THE NUMBER OF  
GALLONS OF FUEL OIL SPECIFIED FOR THE DIVISION II DIESEL GENERATOR  
(1B) (TAC NO. 69813)

Re: Clinton Power Station, Unit No. 1

The Commission has issued the enclosed Amendment No. 13 to the Facility  
Operating License No. NPF-62 for the Clinton Power Station, Unit No. 1. This  
amendment consists of changes to the Technical Specifications (TSs) in  
response to your application dated September 23, 1988.

This amendment revises Technical Specification Sections 3.8.1.1 and 3.8.1.2,  
which are the Limiting Conditions for Operation specified for the AC  
electrical power sources, to change the number of gallons of fuel oil  
specified for the Division II diesel generator (1B).

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

Sincerely,

Janice Stevens, Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III,  
IV, V and Special Projects

Enclosures:

1. Amendment No. 13 to  
License No. NPF-62
2. Safety Evaluation

cc w/enclosures:  
See next page

\*see previous concurrence

PDIII:PM *gas*  
\*JStevens dmj  
11/14/88

PDIII-2:LA  
LLuther  
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SPLB  
@WCraig  
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OGC Rockville  
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PDR ADOCK 05000461  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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See next page



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. 13  
License No. NPF-62

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Illinois Power Company\* (IP), Soyland Power Cooperative, Inc., and Western Illinois Power Cooperative, Inc. (the licensees) dated September 23, 1988 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:

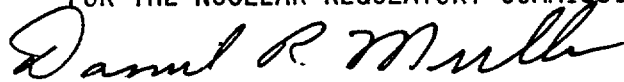
\*Illinois Power Company is authorized to act as agent for Soyland Power Cooperative, Inc. and Western Illinois Power Cooperative, Inc. and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No.13 , 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



Daniel R. Muller, Director  
Project Directorate III-2  
Division of Reactor Projects - III,  
IV, V and Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 19, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 13

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.

Remove

3/4 8-1

3/4 8-11

Insert

3/4 8-1

3/4 8-11

### 3/4.8 ELECTRICAL POWER SYSTEMS

#### 3/4.8.1 AC SOURCES

##### AC SOURCES - OPERATING

#### LIMITING CONDITION FOR OPERATION

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3.8.1.1 As a minimum, the following AC electrical power sources shall be OPERABLE:

- a. Two physically independent circuits between the offsite transmission network and the onsite Class 1E distribution system, and
- b. Three separate and independent diesel generators, each with:
  1. A separate day fuel tank containing a minimum of 385 gallons of fuel for diesel generators 1A and 1B and 240 gallons of fuel for diesel generator 1C.
  2. A separate fuel storage system containing a minimum of 48,000 gallons of fuel for diesel generator 1A and 45,000 gallons for diesel generator 1B and 29,500 gallons of fuel for diesel generator 1C.
  3. A separate fuel transfer pump.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

- a. With one offsite circuit of the above required AC electrical power sources inoperable, demonstrate the OPERABILITY of the remaining AC sources by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter. If either diesel generator 1A or 1B has not been successfully tested within the past 24 hours, demonstrate its OPERABILITY by performing Surveillance Requirements 4.8.1.1.2.a.4 and 4.8.1.1.2.a.5 for each such diesel generator, separately, within 24 hours. Restore the offsite circuit to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With either diesel generator 1A or 1B inoperable, demonstrate the OPERABILITY of the above required AC offsite sources by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. If the diesel generator became inoperable due to any cause other than preplanned preventive maintenance or testing, demonstrate the OPERABILITY of the remaining OPERABLE diesel generators, separately, by performing Surveillance Requirements 4.8.1.1.2.a.4 and 4.8.1.1.2.a.5 within 24 hours\*. Restore the inoperable diesel generator to OPERABLE

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\*This test is required to be completed regardless of when the inoperable diesel generator is restored to OPERABLE status. The provisions of Specification 3.0.2 are not applicable.

## ELECTRICAL POWER SYSTEMS

### AC SOURCES - SHUTDOWN

#### LIMITING CONDITION FOR OPERATION

---

3.8.1.2 As a minimum, the following AC electrical power sources shall be OPERABLE:

- a. One circuit between the offsite transmission network and the onsite Class 1E distribution system, and
- b. Diesel generator 1A or 1B, and diesel generator 1C when the HPCS system is required to be OPERABLE, with each diesel generator having:
  1. A separate day fuel tank containing a minimum of 385 gallons of fuel for diesel generators 1A and 1B and 240 gallons of fuel for diesel generator 1C.
  2. A separate fuel storage system containing a minimum of 48,000 gallons of fuel for diesel generator 1A, 45,000 gallons for diesel generator 1B, and 29,500 gallons of fuel for diesel generator 1C.
  3. A fuel transfer pump.

APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and \*.

#### ACTION:

- a. With less than the above required AC electrical power sources OPERABLE, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment, operations with a potential for draining the reactor vessel and crane operations over the spent fuel storage pool when fuel assemblies are therein. In addition, when in OPERATIONAL CONDITION 5 with the water level less than 23 feet above the reactor pressure vessel flange, immediately initiate corrective action to restore the required power sources to OPERABLE status as soon as practical.
- b. With diesel generator 1C of the above required AC electrical power sources inoperable, restore the inoperable diesel generator 1C to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specification 3.5.2 and 3.5.3.
- c. The provisions of Specification 3.0.3 are not applicable.

#### SURVEILLANCE REQUIREMENTS

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4.8.1.2 At least the above required AC electrical power sources shall be demonstrated OPERABLE per Surveillance Requirements 4.8.1.1.1, 4.8.1.1.2 and 4.8.1.1.3, except for the requirement of 4.8.1.1.2.a.5.

\*When handling irradiated fuel in the secondary containment.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 13 TO FACILITY OPERATING LICENSE NO. NPF-62  
CLINTON POWER STATION, UNIT NO. 1  
ILLINOIS POWER COMPANY, ET AL.  
DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated September 23, 1988 the Illinois Power Company (IP), et al. (the licensees) requested an amendment to Facility Operating License No. NPF-62 for the Clinton Power Station, Unit 1. The proposed amendment would revise Technical Specification Sections 3.8.1.1 and 3.8.1.2, which are the Limiting Conditions for Operation specified for the AC electrical power sources, to change the number of gallons of fuel oil specified for the Division II diesel generator (1B). These Technical Specifications indicate the minimum amount of diesel fuel that should be available for the diesel generators. The licensees have requested to change the number of gallons of fuel oil specified for the Division II diesel generator (1B) from 41,500 to 45,000.

2.0 EVALUATION

The licensees have prepared a plant modification to replace the Fuel Pool Cooling and Cleanup (FC) System pump motors (1A and 1B) and remove the associated LOCA shunt trips. This modification is in accordance with their commitment "Until the first refueling, the pump motors will be tripped on a LOCA signal.... By the first refueling, replacement motors qualified to the maximum environment conditions will be installed and the LOCA-trip signal will be removed." Removing the associated LOCA shunt trips and ensuring the FC pump motors are qualified to operate in a post-LOCA environment allows the pump motors to be regarded as safety-related essential loads powered from the Class 1E emergency busses. This effectively increases the maximum expected emergency loading for the associated diesel generators (1A and 1B). The resultant increase in the maximum expected loading thus requires a revision of the minimum fuel oil volume specified in the Technical Specifications to ensure that the diesels are capable of supplying and maintaining emergency power for all essential loads.

The licensees have reviewed the fuel oil storage requirements for the diesel generators per Section 5.4 of the American National Standards Institute (ANSI) N195-1976 standard. The calculation of the fuel-oil storage requirements was based on the time-dependent loads of the diesel generator. As a result, the licensees determined that the current minimum volume specified in the Technical Specifications for the Division 1 diesel generator (1A) is still acceptable and in accordance with the ANSI N195-1976 standard and the guidance



of Regulatory Guide 1.137, FUEL-OIL SYSTEMS FOR STANDBY DIESEL GENERATORS. However, it was determined that the Technical Specification minimum limit of 41,500 gallons for the Division II diesel generator (1B) must be increased to account for the increased fuel consumption required to support the additional load resulting from installation of the plant modification. Additionally, a review conducted by the licensees of the diesel generator capabilities confirms that the diesel generators will continue to meet the requirements of Regulatory Guide 1.9, SELECTION, DESIGN, AND QUALIFICATION OF DIESEL-GENERATOR UNITS USED AS STANDBY (ONSITE) ELECTRICAL POWER SYSTEMS AT NUCLEAR POWER PLANTS.

The impact of the proposed change is confined to two areas of concern: diesel generator operability and the ability to maintain an adequate supply of high quality cooling water in the spent fuel storage pool(s) under post-accident conditions. The changes associated with the plant modification have been evaluated and found to have no adverse impact on the diesel generators' capability to perform their intended function during or following a design basis accident (DBA-LOCA). With respect to any concern regarding the spent fuel storage pool, including the FC pump motors as essential loads will ensure that an FC pump is available for cooling and maintaining the volume and quality of water in the spent fuel storage pools under post-accident conditions. The proposed change therefore does not create the possibility of a new or different kind of accident from any accident previously evaluated. Also, the proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated because the proposed change will ensure that an adequate volume of diesel fuel is available for the diesel generator (1B) to perform its intended function in mitigating the consequences of the design basis accident while carrying the maximum expected load (including the associated FC pump motor). The increased maximum expected loading for the diesel generator(s) resulting from the plant modifications does not exceed the rated capacity of the diesel generators.

### 3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. We have determined that the amendment involves no significant hazards consideration, and no significant change in the types or increase in the amounts of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding.

Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

### 4.0 CONCLUSION

The proposed amendment to Technical Specification Sections 3.8.1.1 and 3.8.1.2 to change the number of gallons of fuel oil specified for the Division II

diesel generator (1B) is acceptable since it does not involve a significant reduction in a margin of safety. This is due to the fact that the increased minimum amount of diesel fuel to be stored for diesel generator 1B is well within the storage capacity of the fuel storage tank. In addition, the added electrical load requiring the extra amount of diesel fuel does not cause the maximum expected load for diesel generator 1B to exceed its rated capacity. Hence, the electrical loading and fuel storage demand for diesel generator 1B will still be in compliance with the original design requirements.

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety to the public.

Principal Contributor: Janice A. Stevens, NRR/PDIII-2

Dated: December 19, 1988