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ILLINOIS POWER COMPANY



CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727

Docket No. 50-461

10CFR50.90
DPH-0798-88
September 6, 1988

Document Control Desk
Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Clinton Power Station Proposed Amendment to
Facility Operating License NPF-62

Dear Sir:

Pursuant to 10CFR50.90, Illinois Power Company (IP) hereby applies for an amendment of Facility Operating License NPF-62 Clinton Power Station (CPS). Changes to the CPS Technical Specifications are being requested to support the first refueling of the CPS reactor with new fuel types and to support subsequent reactor operation (Cycle 2) in the Maximum Extended Operating Domain (MEOD) and with reduced feedwater temperatures.* To support these requests the following attachments are included:

- Attachment 1 - Affidavit
- Attachment 2 - Description of Proposed Technical Specification Changes Related to the Reload and MEOD Analyses (including mark-ups of the affected Technical Specifications)
- Attachment 3 - Technical Specification Changes Required to Support Refueling
- Attachment 4 - Technical Specification Changes Required to Support Operation Consistent with the "MAXIMUM EXTENDED OPERATING DOMAIN AND FEEDWATER HEATER OUT-OF-SERVICE ANALYSIS FOR CLINTON POWER STATION" (MEOD/FWHOS)*

* An analysis which justifies reactor operation with reduced feedwater temperature as low as 370°F at rated conditions (included in Attachment 4) was performed in accordance with the provisions of Section 15.1 of Supplement No. 7 to the Clinton Safety Evaluation Report. Approval of this proposed license amendment containing the analysis for reduced feedwater temperature will require revision or deletion of License Condition 2.C.(10) in the Clinton Power Station Operating License as the license condition was required in accordance with Section 15.1 of SSER 7.

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- ° Attachment 5 - Basis for No Significant Hazards Consideration (for the Technical Specification Changes Proposed as a Result of Operation with New Fuel Types and in the MEOD Region)
- ° Attachment 6 - "SUPPLEMENTAL RELOAD LICENSING SUBMITTAL FOR CLINTON POWER STATION UNIT 1, RELOAD 1, CYCLE 2, 23A5921 Rev. 0"
- ° Attachment 7 - "MAXIMUM EXTENDED OPERATING DOMAIN AND FEEDWATER HEATER OUT-OF-SERVICE ANALYSIS FOR CLINTON POWER STATION, NEDC-31546P, August 1988"*
- ° Attachment 8 - Proposed Startup Test Plan for Cycle 2

This proposed amendment also requests revision to Technical Specification Table 3.3.7.4-2, REMOTE SHUTDOWN SYSTEM CONTROLS, to include additional control switches for valves 1E12-F068B and 1E12-F014B and circuit breaker 252-AT1AA1. This change provides for controls to enhance the operation of the subject components to comply with the NRC Staffs' guidance for implementing 10CFR50, Appendix A, Criterion 19 (GDC 19) as referenced in paragraph 7.4.3.1 of the Clinton Power Station Safety Evaluation Report (SSER NO. 6). The Description, Justification and Basis for No Significant Hazards Consideration for this change are contained in Attachment 9.

Additionally a change to Technical Specification 4.4.1.2 is requested. This change will clarify the jet pump surveillance requirements of this specification and incorporate the guidance provided in General Electric Service Information Letter No. 330. The Description, Justification and Basis for No Significant Hazards Consideration for this proposed change are contained in Attachment 10.

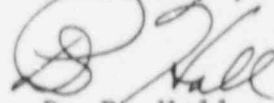
In accordance with the provisions of 10CFR170.12 and 170.21, IP is enclosing a check made out to the U.S. Nuclear Regulatory Commission in the amount of \$150.00 as payment of the application fee for this amendment. In addition, pursuant to 10CFR50.91(b)(1), a copy of this request for amendment has been sent to the Illinois Department of Nuclear Safety.

- * Attachment 7 is proprietary and was provided to IP from General Electric under the terms of an agreement which forbids disclosure to others except as allowed for disclosure to a governmental authority to the extent necessary to secure governmental authorizations.

IP has reviewed the proposed Technical Specification changes against the criteria of 10CFR51.22 for environmental considerations. The proposed changes do not involve a significant hazards consideration, do not significantly increase the amounts or change the types of effluents that may be released offsite, nor do they significantly increase individual or cumulative occupational radiation exposures. Based on the foregoing, IP concludes that the proposed Technical Specification changes meet the criteria given in 10CFR51.22(c)(9) for a categorical exclusion from the requirement for an Environmental Impact Statement.

It is IP's intent to implement the proposed changes for Cycle 2 commencing with the startup from the first refueling outage. Therefore, to support Cycle 2 startup, NRC review and approval is requested by January 3, 1989, the scheduled start date for the outage.

Sincerely yours,



D. P. Hall
Vice President

GSL/ckc


Attachments

cc: NRC Resident Office
NRC Region III, Regional Administrator
NRC Clinton Licensing Project Manager
Illinois Department of Nuclear Safety

STATE OF ILLINOIS
COUNTY OF DEWITT

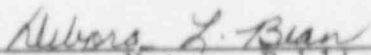
DONALD P. HALL, being first duly sworn, deposes and says: That he is Vice President of Illinois Power Company; that the provided information has been prepared under his supervision and direction; that he knows the contents thereof; and that to the best of his knowledge and belief said request and the facts contained therein are true and correct.

DATED: This 6th day of September 1988

Signed: 
Donald P. Hall

Subscribed and sworn to before me this 6th day of September 1988.

"OFFICIAL SEAL"
Debora L. Bean
Notary Public, State of Illinois
My Commission Expires 10/1/90


Notary Public

Description of Proposed Technical
Specification Changes Related to the Reload and MEOD Analyses

<u>Technical Specification Page No.</u>	<u>Technical Specification Section</u>	<u>Description of Change</u>	<u>Reason for Change</u>
1,iii, iv, v, xvi**	Index	The index is being revised to accurately reflect the insertions, deletions, and renumbering caused by the changes listed below.	Consistency
1-2	1.9	Replace "the General Electric Critical Quality Boiling Length (GEXL)" (correlation) with "an approved GE Critical Power" (correlation) in the definition of Critical Power Ratio.	Clarification*
1-3	1.15	Delete this Specification.	MEOD
1-3	1.16	Delete this Specification.	MEOD
1-4	1.23	Delete this Specification.	MEOD
2-1	2.1.2	Change the MCPR Safety Limit for two recirculation loop operation from 1.06 to 1.07 and change the MCPR Safety Limit for single recirculation loop operation from 1.07 to 1.08.	Reload
2-3	Table 2.2.1-1	Revise the trip setpoint for APRM Flow Biased Simulated Thermal Power-High trip channels during two recirculation loop operation. The trip setpoint for single recirculation loop operation will be listed separately, but will retain its current value.	MEOD
B2-1	B2.1.0	Replace specific values for the MCPR Safety Limit with a reference to Technical Specification 2.1.2.	Clarification*
B2-1	B2.1.1	Replace "GEXL Correlation" with "an approved GE critical power correlation (Reference 1)".	Clarification*

* To support future reloads

** Index pages may be revised as necessary to include appropriate information

<u>Technical Specification Page No.</u>	<u>Technical Specification Section</u>	<u>Description of Change</u>	<u>Reason for Change</u>
B2-2	B2.1.2	Remove the specific description of analysis methods used to determine the MCPR Safety Limit and replace it with a reference to the "General Electric Standard Application for Reactor Fuel (GESTAR)" NEDE-24011-P-A-8.	Clarification*
B2-3	Table B2.1.2-1	Delete table - information is contained in the "General Electric Standard Application for Reactor Fuel (GESTAR)" NEDE-24011-P-A-8.	Clarification*
B2-4	Table B.1.2-2	Delete table - information is contained in the "General Electric Standard Application for Reactor Fuel (GESTAR)" NEDE-24011-P-A-8.	Clarification*
B2-7	B2.2.1	Remove the reference to Technical Specification 3.2.2.	MEOD
3/4 1-6	3.1.3.2	Delete the footnote granting relief from scram time testing during the initial fuel cycle.	Clarification
3/4 1-8	4.1.3.2	Delete the footnote granting relief from scram time testing during the initial fuel cycle.	Clarification
3/4 2-1	3/4.2.1	Change to reference the appropriate figures.	Clarification
		Add reference to the MAPFAC _f and MAPFAC _p as figures 3.2.1-1 and 3.2.1-2 respectively.	MEOD
		Add a reference to each of the new MAPLHGR Figures 3.2.1-6 and 3.2.1-7 for each of the new fuel types.	Reload
3/4 2-2	Fig. 3.2.1-1	Add a new figure with MAPFAC _f curve.	MEOD
3/4 2-3	Fig. 3.2.1-2	Add a new figure with MAPFAC _p curve.	MEOD
3/4 2-4	Fig. 3.2.1-3	Revise figure and page number only.	Consistency
3/4 2-4A	Fig. 3.2.1-4	Revise figure and page number only.	Consistency

* To support future reloads

<u>Technical Specification Page No.</u>	<u>Technical Specification Section</u>	<u>Description of Change</u>	<u>Reason for Change</u>
3/4 2-4B	Fig. 3.2.1-5	Revise figure and page number only.	Consistency
3/4 2-4C	Fig. 3.2.1-6	Add a new MAPLHGR Curve for a new fuel type.	Reload
3/4 2-4D	Fig. 3.2.1-7	Add a new MAPLHGR Curve for a new fuel type.	Reload
3/4 2-5 & 3/4 2-6	3/4.2.2	Delete the entire Specification; retain the page and leave it intentionally blank.	MEOD
3/4 2-8 3/4 2-9	Fig. 3.2.3-1 Fig. 3.2.3-2	Replace existing MCPR _f and MCPR _p curves with curves that incorporate MEOD and Reduced Feedwater Temperature Analyses.	MEOD
3/4 3-10	Table 4.3.1.1-1	Remove the reference to Technical Specification 3.2.2.	MEOD
3/4 3-66	Table 3.3.6-2	Revise APRM Flow Biased Neutron Flux Upscale Rod Block for two recirculation loop operation. The APRM Flow Biased Neutron Flux Upscale Rod Block for single recirculation loop operation will be listed separately, but will retain its current value.	MEOD
		Revise Reactor Coolant System Recirculation Flow - Upscale Trip Setpoint and Allowable Value to allow for operation in the MEOD.	MEOD
3/4 3-67	Table 3.3.6-2	Remove reference to Technical Specification 3.2.2.	MEOD
3/4 3-91	3.3.7.7	Remove requirement to monitor MFLPD.	MEOD
3/4 4-1	3.4.1.1. ACTION a.1.c.	Revise MCPR Safety Limit to 1.08.	RELOAD
	3.4.1.1 ACTION a.1.d	Remove reference to reducing the MAPLHGR limit to a value of 0.85 times the two recirculation loop operation limit.	MEOD
	3.4.1.1. ACTION a.1.e.	Remove reference to Technical Specification 3.2.2.	MEOD

<u>Technical Specification Page No.</u>	<u>Technical Specification Section</u>	<u>Description of Change</u>	<u>Reason for Change</u>
B3/4 2-1 B3/4 2-2	B3/4.2.1	Add a paragraph describing how the MAPFAC curves are to be used and how they were determined.	MEOD
		Revise the section so that it refers to the correct MAPLHGR and MAPFAC curves.	Clarification
		Revise the last paragraph to discuss the MAPLHGR requirements during single recirculation loop operation.	MEOD
		Add a discussion of how the "Runout Flow" tolerances are determined.	MEOD
B3/4 2-2	B3/4.2.2	Delete this section.	MEOD
B3/4 2-3	Table B3.2.1-1	Revise Fuel Types to include Reload cores.	Reload
		Revise *** note to add additional information on assumptions used for initial MCPR.	MEOD
B3/4 2-4	B3/4.2.3	Replace the specific MCPR Safety Limit with reference to Technical Specification 2.1.2.	Clarification*
		Replace the reference to specific analysis with reference to GESTAR.	Clarification*
		Replace "105% of rated steam" with "most limiting power".	MEOD
		Add a discussion of how the "Runout Flow" tolerances are determined.	MEOD
B3/4 2-5	B3/4.2.3	Add the discussion about MCPRp limits when power is less than 40% of RATED THERMAL POWER.	MEOD
B3/4 2-6	References	Replace the specific references with a reference to GESTAR, and add MEOD as a reference.	Clarification*

* To support future reloads