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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. TO FACILITY OPERATING LICENSE NO. NPF-62

ILLINOIS POWER COMPANY, ET AL

CLINTON POWER STATION, UNIT 1

DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated October 30, 1987, Illinois Power Company requested changes to the Clinton Power Station Unit 1 Technical Specifications. Package Number 13 of Attachment 3 to that letter contained proposed changes to the battery portion of the Technical Specifications. The following evaluation addresses only those changes identified in Package Number 13 of the licensees' letter.

2.0 EVALUATION

Package Number 13 of Attachment 3 to the licensees' October 30, 1987 letter requested a change to Technical Specification 4.8.2.1.d.2.b. to accurately reflect the 4-hour Division II battery emergency loading profile. The purpose of this profile is to define the level of loading in amperes that the battery would have to supply for a specific time period during an emergency condition with the battery charger inoperable. The Technical Specification requires a demonstration once every 18 months during shutdown that the battery can supply a dummy load of that profile or that it can supply the actual emergency loads.

A review conducted by the licensees determined that a Division II load (Fire Protection distribution panel) was not considered for this profile during a previous plant modification review. The proposed Technical Specification change therefore increases the emergency loading profile of the Division II battery by 10 amperes. This increases the first, second, and third periods of the battery emergency loading profile to 462 amperes, 296 amperes, and 108 amperes respectively.

The licensees state that the battery capacity has been evaluated using the new loading profile to ensure its capability of supporting required design basis accident loads. The staff has determined that the change in battery load is not significant in comparison to the battery capacity and that the batteries are capable of supplying the new loads now and at the end of their twenty year life per IEEE 485.

3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of no significant impact have been prepared and published (53 FR 30359) in the Federal Register on August 11, 1988. 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.

Based on the relatively small increase in battery loading and the battery's capability of supplying the new loading, the staff concludes that the Division II battery will continue to provide its original 4 hour endurance under the new emergency loading profile. The staff therefore approves this Technical Specification change request.

4.0 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 amendments will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: J. Lazevinick, SELB/DEST

Dated: August 15, 1988