Illinois Power Company
Clinton Power Station
P.O. Box 678
Clinton, IL 61727
Tel 217 935-5623
Fax 217 935-4632

Walter G. MacFarland IV
Senior Vice President
and Chief Nuclear Officer

ILLINOIS POWER
An Illinova Company

U-602970
2C.220
4F.140

April 3, 1998

Docket No. 50-461

10CFR50.73
10CFR21.21

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

Subject: Clinton Power Station - Unit 1
Licensee Event Report No. 97-034-01

Dear Madam or Sir:

Enclosed is Licensee Event Report (LER) 97-034-01 and 10 CFR, Part 21 Report No. 21-97-051: Incorrect Cable Resistance and Brake Horsepower Data Used in the Design of Divisions 1 and 2 Emergency Diesel Generator Vent Fans Results in Design of Fan Motors Being Outside the Design Basis of the Plant. This report is being submitted in accordance with the requirements of 10CFR50.73 and 10CFR21.21.

This Licensee Event Report contains the following commitments:

- Electrical calculations will be revised to reflect the correct cable impedance for tin coated copper conductors.

- Appropriate power loading and voltage calculations will be revised to account for safety related Heating Ventilation and Air Conditioning (HVAC) fan motor horsepower ratings at their minimum design operating temperature.

- The Updated Safety Analysis Report (USAR) will be revised to reflect the horsepower ratings of safety related HVAC equipment at their minimum design operating temperature.

- A sample of S&L standards will be reviewed to verify accuracy, degree of precision, and proper application of the standard at CPS. Any anomalies found during the review will be evaluated for impact on the plant, and corrected if required. Based on the results of this review, the need for additional action will be evaluated.

- CPS has installed a temporary modification to delay the start of the 1VD01CB supply fan during a LOCA block start accident. By delaying the start of the supply fan, the auxiliary power system voltage is allowed to recover from the initial power demand caused by the simultaneous starting of safety related equipment. This temporary modification will prevent the 1VD01CB supply fan from causing the auxiliary power system to separate from the off-site power source during a LOCA block start accident coincident with an off-site degraded voltage condition. A similar temporary modification is being prepared for the 1VD01CA supply fan. The final determination as to whether a permanent design change is necessary will be determined after the completion of a modification that affects degraded voltage values.

Sincerely yours,

Wayne D Roby for

Walter G. MacFarland, IV
Senior Vice President

JRF/mlh

Enclosure

cc: NRC Clinton Licensing Project Manager
NRC Resident Office, V-690
Regional Administrator, Region III, USNRC
Illinois Department of Nuclear Safety
INPO Records Center