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**ILLINOIS POWER COMPANY**

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

Docket No. 50-461

June 11, 1985

Director of Nuclear Reactor Regulation
Attention: Mr. W. R. Butler, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Clinton Power Station Unit #1
Reactor Core Damage Estimation Procedure
NUREG-0737, TMI Action Plan Item II.B.3
SER License Condition #6

Dear Mr. Butler:

Illinois Power Letter U-0833, dated April 19, 1985, provided the Staff with the Clinton Power Station (CPS) "Post Accident Sampling System Evaluation Report". This report addressed the eleven criteria of NUREG-0737, TMI Action Plan Item II.B.3, entitled "Post Accident Sampling", as they apply to CPS. In the referenced letter, Illinois Power (IP) committed to provide the NRC Staff with the CPS "Reactor Core Damage Estimation" procedure. This procedure (attached) has been revised, as required by the Staff (per CPS Safety Evaluation Report (SER) Supplement #2, Section 9.3.5), to include a third core damage class, referred to as "fuel overheat", that is in-between cladding failure and fuel melt. In addition, per SER Supplement #2, other plant indicators have been added to the procedure to assist in the interpretation of the extent of core damage. This procedure will be used for accident assessment in the CPS Emergency Plan and, as such, has become one of the Emergency Plan Implementing Procedures (EPIPs), i.e., EPIP EC-13.

This procedure confirms CPS implementation of the information discussed in CPS Position 2 of the referenced Post-Accident Sampling Report. With the referenced report, as supplemented by this procedure provided herein, the Staff should have sufficient information to resolve SER License Condition #6 in the next Supplement. Please contact me if there are any questions on this material.

Sincerely yours,

F. A. Spangenberg
Director - Nuclear Licensing
and Configuration
Nuclear Station Engineering



TLR/lab

Attachment (1)

cc: B. L. Siegel, NRC Clinton Licensing Project Manager
NRC Resident Office
Regional Administrator, Region III, USNRC
Illinois Department of Nuclear Safety

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