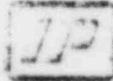


ILLINOIS POWER COMPANY



CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727  
October 10, 1984

Docket No. 50-461

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Clinton Power Station Unit #1  
NUREG-0737, TMI Action Plan Item II.F.2  
Instrumentation for Detection of Inadequate Core Cooling

Dear Mr. Schwencer:

Attached is an Interim Closure Report regarding Illinois Power's compliance with proposed upgrades to the Reactor Vessel Water Level Measurement System (WLMS) design. These WLMS design enhancements were originally addressed in submittals to the Nuclear Regulatory Commission (NRC) staff from the Boiling Water Reactors Owner's Group (BWROG) for TMI activities, of which Illinois Power Company is a participating member. Specifically, two reports, SLI-8211 entitled "Review of BWR Reactor Vessel Water Level Measurement Systems" and SLI-8218 entitled "Inadequate Core Cooling Detection in Boiling Water Reactors", were prepared by Sol Levy Inc. for the BWROG and provided to the Staff for review. The attached Interim Closure Report addresses the concerns identified within these BWROG reports as they relate to the Clinton Power Station (CPS).

As a result of the plant-specific evaluations performed for CPS, Illinois Power is incorporating design modifications to the WLMS which enhance the reliability and accuracy of this system during postulated plant accident conditions. These modifications include instrument sensing line re-routing within the drywell to limit the overall vertical drop to within approximately 30 inches and relocation of the instrument line flow limiting orifice plates to near the corresponding drywell penetration. The design for these modifications to the CPS WLMS is complete and construction implementation is underway.

A final comprehensive evaluation report of the CPS WLMS will be submitted to the NRC Staff in late October, 1984. The attached Interim Closure Report provides the highlights from this final report and forms

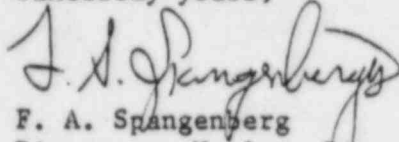
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the basis for resolving TMI Action Plan Item II.F.2 (Inadequate Core Cooling Detection) for CPS.

Please contact us if you have any questions on the information provided in this submittal.

Sincerely yours,



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

FAS/DWW/lm

Attachment

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