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P23-84(11-15)-L
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ILLINOIS POWER COMPANY



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

Novmeber 15, 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
SER Confirmatory Issue #71
Local Encroachments Issue
Related to the Humphrey Concerns

Dear Mr. Schwencer:

In letter U-0756 dated October 24, 1984, Ullinois Power Company provided the NRC with a program to resolve the local encroachments issue related to the Humphrey concerns. This program is divided into two parts - a generic program, established by the Containment Issues Owners Group (CIOG), and a plant-specific program. In Illinois Power's plant-specific program, we committed to determine loads from 1/10-scale encroachments tests and provide load application information, for which the adequacy of structures can be determined.

A plant-specific load has been established from the 1/10-scale encroachments tests consistent with General Electric's generic methodology. Loads were determined on structural beams and the concrete portion of the Hydraulic Control Unit (HCU) floor based upon observations from the tests on pool surface curvature, velocity and water ligament thickness. The methodology for which these loads were developed will be presented to the NRC by the CIOG in mid-November.

The load was applied to the entire HCU floor. However, only the area between 54° and 76° (approximately 35%) lies directly above the encroachment. Applying the load over the entire floor is a conservative representation of the actual impact area. An assessment of the HCU floor structure has been completed using this load. The results of this work have indicated that the floor is capable of withstanding this loading.

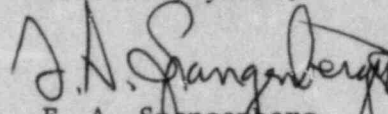
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Loads on small structures and piping from elevations 737'-0" to 755'-0" and between azimuths 43° and 76° will be evaluated for water impact loads observed from the encroachments tests. A submittal to the NRC providing the details of the HCU floor analysis and the evaluations of the piping and other structures is anticipated by December 1, 1984. Please contact us should you require further information.

Sincerely yours,



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

JLP/lm

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