

ILLINOIS POWER

CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727-0678, TELEPHONE (217) 935-8881

U-601817
L30-91(04-04)LP
1A.120

April 4, 1991

Docket No. 50-461

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

Subject: Clinton Power Station (CPS) Status Update to Generic
Letter (GL) 89-13: Service Water System Problems
Affecting Safety-Related Equipment

Dear Sir:

On December 31, 1990, Illinois Power Company (IP) provided a revised response (U-601756) to GL 89-13. In that letter, IP committed to provide a report by March 31, 1991, informing the Nuclear Regulatory Commission (NRC) of IP's status in developing and implementing a new design to provide microbiological and macrobiological biofouling protection of the Shutdown Service Water System. This letter provides that update.

In addition to the Shutdown Service Water System, IP utilizes raw water from Clinton Lake in five other systems. These systems are:

- * Potable Water
- * Fire Protection
- * Main Condenser Circulating Water
- * Normal Service Water
- * Makeup Water

As reported in IP's December 31, 1990, letter, IP has discovered that chlorine alone is not effective in treating water from Clinton Lake due to the high pH level of the lake water. Therefore, IP's challenge is to develop a treatment design that is compatible with all of CPS's raw water systems as well as the environment of Clinton Lake. IP does not have the necessary expertise on staff to meet this challenge; as a result, IP is soliciting the services of an expert in this field to lead the development of the chemical treatment program at CPS. In addition to the development of the chemical treatment design, IP must obtain Illinois Environmental Protection Agency (IEPA) approval of the chemical treatment process. IEPA approval will be solicited when the design process is complete.

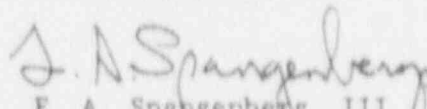
The interim measures discussed in the December 31, 1990, letter will continue to provide protection of the Shutdown Service Water System while CPS develops the permanent chemical treatment program. Application to the IEPA for the continued use of the interim treatment program discussed in the December 31, 1990, letter was made on February 22, 1991.

9104150133 910404
PDR ADOCK 05000461
P PDR

AD65

IP will continue to provide the NRC with updates concerning the progress being made in developing and implementing a raw water chemical treatment program. The next update will be provided when the conceptual design of the system is approved.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "F. A. Spangenberg, III". The signature is written in a cursive, flowing style.

F. A. Spangenberg, III
Manager, Licensing and Safety

WTD/alh

cc: NRC Clinton Licensing Project Manager
NRC Resident Office
NRC Region III, Regional Administrator
Illinois Department of Nuclear Safety