

ILLINOIS POWER COMPANY



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

August 6, 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
HPCS Diesel Generator Qualification Testing

Dear Mr. Schwencer:

In letter U-0715, dated June 13, 1984, Illinois Power agreed to supply the NRC applicable test data to further substantiate HPCS diesel generator reliability. In this letter, we are submitting data obtained from General Electric (GE) on tests performed on diesel engines representative of those used in the Clinton Power Station (CPS) HPCS. Many of these engines are of tandem configuration, where either both or at least one is a 16 cylinder Electric Motive Division of General Motors model EMD-645E4 engine.

The report consists of data on qualification tests of model EMD-645E4 engines that demonstrate restarting reliability and load pickup capability. This data was obtained from testing four 16 cylinder engines, representing a total of 1200 starts without a single failure. Three data sets were for Morrison-Knudsen supplied equipment, and one data set was for Stewart & Stevenson supplied equipment.

Satisfactory field installation of the CPS HPCS diesel generator will be demonstrated by the pre-operational test program, as previously outlined in letter U-0715.

We are in the process of obtaining data on 20 start tests of the site-installed HPCS diesel generator at Kuo Sheng. This 16 cylinder engine is identical to the one used at CPS. However, the data is proprietary. General Electric has requested Taiwan Power Company to release this information, but some delay is anticipated in obtaining concurrence. When the data is released, we will transmit it to the NRC.

NOTE: ENCL: B. Siegel

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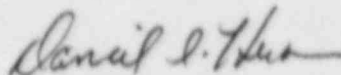
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Please contact us if you have any questions regarding the report.

Sincerely yours,



Daniel I. Herborn
Director - Nuclear Licensing
and Configuration
Nuclear Station Engineering

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Attachments

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