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ILLINOIS POWER COMPANY



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

October 15, 1984

Docket No. 50-461

Mr. James L. Milhoan
Section Chief, Licensing Section
Quality Assurance Branch
Office of Inspections and Enforcement
Mail Stop EWS-305A
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Clinton Power Station Unit #1
Independent Design Review

Dear Mr. Milhoan:

Attachment 1 lists all of the design subcontractors who have assisted S&L in the Clinton design effort and a brief description of their activities.

This information is being provided to Bechtel per item 2b of our letter of September 27, 1984 to you.

Sincerely yours,

J. D. Geier
Assistant to Vice President

JDG/DWW/em

Attachment

cc: See Attached Service List

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ADD: J. Milhoan
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Clinton Power Station

Independent Design Review
Standard Distribution List

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Attachment 1

The companies listed below have provided design work for Clinton. This list does not contain those companies who have designed and supplied a product (i.e., a pump manufacturer):

<u>Company</u>	<u>Design Activity</u>
Dames & Moore	Performed detailed site investigation and laboratory testing required to define the geotechnical parameters reported in the preliminary safety analysis report. As part of their assignment, they prepared reports documenting the engineering characteristics of the soils encountered including movements under static and dynamic loadings. They also provided a geophysical survey of the site with the corresponding assessment of dynamic characteristics of the various glacial till members.
Woodward Clyde Consultants	Responded to the Nuclear Regulatory question concerning the potential for liquefaction along a creek tributary joining the ultimate heat sink. Their involvement consisted of a limited field investigation, literature search and preparation and presentation of oral testimony to the ACRS sub-committee.
Soil Testing	Established the cyclic dynamic strength of compacted soils used in and around the ultimate heat sink. The work included the preparation of a report documenting the testing results of representative samples.
Westenhoff and Novick	Performed laboratory testing of borrow area soils and main dam site soils. S&L directly supervised their work.
Raymond International	Obtained the samples for Westenhoff and Novick and prepared drill logs for the borings they made. S&L directly supervised their work.

<u>Company</u>	<u>Design Activity</u>
Harza Engineers	Reviewed the hydraulic and structure design of the cooling lake and main dam. Their work included review and evaluation of design parameters, inspections of the construction specifications, and establishment of future monitoring guidelines for the main dam.
Weston Geophysical	Provided a service for the development of earthquake related design spectra, corresponding damping ratios and specific site related earthquake responses. Their work included the definition of causative earthquake, its magnitude and distances, and re-affirmation of the site geologic conditions.
Warren & Van Praag, Inc.	Provided engineering services related to the design of bridges, approaches and crossings for the Clinton cooling lake.
Schermer Engineering Corporation	Performed a third party review in 1978 on the Clinton Fire Protection Evaluation Report as required by Appendix A to the BTP9.5-1.
Nutech	Assisted in the identification of those components which required environmental qualification per the NUREG requirements.
Wyle Labs	Provided qualification services for miscellaneous safety-related equipment. Wyle Labs provided the required tests or a combination of tests and analyses necessary to demonstrate environmental and seismic qualification of equipment.
Wiss, Janney and Elstner and Associates	Performed concrete mix design work which included materials investigation and qualification, trial mix proportioning and initial testing evaluation of physical properties of structural concrete and consulting services during construction.
Reactor Controls, Inc.	Designed and installed the control rod drive insert and withdrawal lines and supports.

Stone and Webster
Engineering Corporation

Designed the support clamps for the control rod drive insert and withdrawal lines (originally designed for River Bend and Illinois Power contracted with Stone and Webster to use the design at Clinton).

H. L. Chastain

Performed site survey work and designed new township roads.

U. S. Testing

Provided testing services, including nondestructive examination, and consulting services in the areas of vendor surveillance and inservice inspection.