Illinois Power Company

U-0618
L30-83(03-18)L

500 SOUTH 27TH STREET, P. O. BOX 511, DECATUR, ILLINOIS 62525-1805

Docket No. 50-461

March 18, 1983

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

Dear Mr. Schwencer:

Subject: Clinton Power Station Unit 1
Control of Heavy Loads (NUREG-0612)

References: 1) NRC (D. G. Eisenhut) letter 12/22/80, subject: Control of Heavy Loads.

2) IP letter U-0249, 6/22/81 G. E. Wuller to D. G. Eisenhut, NRC (response to Section 2.1 of Enclosure 3 of reference (1) above).

3) IP letter U-0294 9/25/81 G. E. Wuller to D. G. Eisenhut, NRC (response to Section 2.2 and 2.3 of Enclosure 3 of reference (1) above).

4) NRC letter 5/13/82, H. Bernard to G. E. Wuller, IP, subject: Control of Heavy Loads - NUREG-0612.

5) Telcon on 9/28/82 with IP, NRC and EG & G personnel to discuss issues in reference (4) above.

The above references provide a chronology on the subject of Control of Heavy Loads (NUREG-0612) for the Clinton Power Station (CPS). Attached is Illinois Power's response to references (4) and (5). This information should resolve the Staff-Consultants concerns for CPS relative to Section 2.1 of Enclosure (3) of the reference (1) letter.

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We expect t provide the remaining information which was discussed in the referenced telephone conference about mid-June, 1983.

Sincerely,

G. E. Wuller
Supervisor-Licensing
Nuclear Station Engineering

GEW/jmm

enclosure

cc: Dr. H. Abelson, NRC Clinton Project Manager
Mr. Fred Clemenson, NRC ASB
Mr. H. H. Livermore, NRC Resident Inspector
Illinois Department of Nuclear Safety

Illinois Power Company
Clinton Power Station Unit 1

Attachment to U-0618 3/18/83)*

Section 2.1 of Reference 4 indicated that Illinois Power Company had not clearly specified the weight of a heavy load for the Clinton Power Station. NUREG-0612, Section 1.2 defines a heavy load as "the combined weight of a single spent fuel assembly and its associated handling tool..." which is approximately 1000 pounds for Clinton Unit 1.

Design has started on two new cranes since Reference 3 was submitted in 1981. They are the Fuel Channeling Hoist and the Screenhouse Trash Basket Hoist. The necessary information on these hoists, as well as the Auxiliary Roof Gantry Crane (RHR Heat Exchanger Removal Hoist) and the Fuel Transfer Tube Shield Plate Jib Crane, will be submitted upon completion of the designs.

Per the telephone conference (reference 5), Illinois Power confirms that all the drawings relevant to the study on Control of Heavy Loads are included in the set of drawings which were submitted with Reference 2.

The below listed responses to the Guideline Recommendations of Section 3.2 of Reference 4 apply to the plant cranes listed in Table 2.1 of Reference 4 with the following exceptions:

(i) Cranes 2, 7 and 9 of Table 2.1 (reference 4) do not handle heavy loads.

(ii) Other plant cranes of Table 2.1 that may be eliminated from the full scope of NUREG-0612 by further IP evaluation the elimination of which can be justified and demonstrated for NRC Staff concurrence.

Guideline		Illinois Power Action
1. (Section 2.3.1)	a, b	Safe load paths for each heavy load handled by each crane will be developed. Drawings or sketches will depict each load path in its entirety, with all nearby safe shutdown equipment and irradiated fuel areas highlighted. Action: Documentation will be provided to the NRC for review, and a copy will be available at the site at least 6 months prior to fuel loading.

*All references herein are to those listed in the cover letter U-0618

Guideline		Illinois Power Action
	c.	Safe load paths for each crane will be marked clearly on the plant floor. Action: Paths will be marked before fuel loading.
	d.	Administrative controls will be provided as required to prevent deviation from the prescribed load paths. Deviations will require approval of the plant safety committee or their designee. Permission for deviation may be oral, but subsequently shall be documented in a brief description which will be kept in permanent plant records. Procedures shall include a statement relating to the avoidance of undue hazards, especially for safety related equipment and cable trays, for cranes in which the entire load paths are not visible from the operating station. Action: Documents will be developed and available at the site before fuel loading.
2. (Section 2.3.2)	a,b.	Procedures for each overhead heavy load handling system (including single failure proof) will be completed. Action: Procedures will be completed and available at the site before fuel loading.
3. (Section 2.3.3)	a.	Training curricula and operator qualifications will be documented.

Guideline		Illinois Power Action
		Action: Documentation will be available at the site 6 months prior to fuel loading. Initial training will be completed 2 months prior to fuel loading.
4. (Section 2.3.4)	a,b.	The applicable standards of ANSI N14.6-1978, as amended by NUREG 0612 Section 5.1.1(4) will be compared to the standards imposed on Clinton's RPV head, drywell head, steam separator and steam dryer strongbacks. Action: Documentation will be sent to the NRC for review at least 6 months prior to fuel loading.
5. (Section 2.3.5)	a,b.	It will be demonstrated that all slings used for heavy load lifts meet the applicable requirements of ANSI B30.9-1971, as amended by NUREG-0612 Section 5.1.1(5). Action: Documentation will be available on site at least 3 months prior to fuel loading.
6. (Section 2.3.6)	a,b.	Procedures for crane inspection, testing, and maintenance will be developed in accordance with Chapter 2-2 of ANSI B30.2-1976, with the exceptions described in Section 2.3.6 of Reference 4. Action: Procedures will be written before fuel loading.
7. (Section 2.3.7)	a.	Compliance claims for crane design will be documented. Action: Documentation will be available on site at least 6 months prior to fuel loading.