

June 1, 1981

In reply, please
refer to LAC-7573

DOCKET NO. 50-409

Director of Nuclear Reactor Regulation
ATTN: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: DAIRYLAND POWER COOPERATIVE
LA CROSSE BOILING WATER REACTOR (LACBWR)
PROVISIONAL OPERATING LICENSE NO. DPR-45
CONTROL OF HEAVY LOADS



Reference: (1) NRC Letter, Eisenhut to All Licensees of
Operating Plants and Applicants for Oper-
ating Licenses and Holders of Construction
Permits, dated December 22, 1980.

Gentlemen:

Reference (1) requested that we review our controls for the handling of heavy loads to determine the extent to which the guidelines of NUREG-0612, "Control of Heavy Loads at Nuclear Power Plants" are presently satisfied at LACBWR, and identify the changes and modifications that are required in order to fully satisfy the guidelines of NUREG-0612.

The following information is presented in answer to specific requests of Reference (1).

Reference (1) specifically requested that the interim actions of Enclosure 2 be implemented as soon as possible. Enclosure 2 contained the staff position on the following interim actions:

- (1) *Safe load paths should be defined per the guidelines of Section 5.1.1(1) of NUREG-0612.*

LACBWR developed and implemented safe load paths for the movement of heavy loads to circumvent the reactor vessel, and safe shutdown equipment. The movement of heavy loads over spent fuel in the FESW is inevitable at LACBWR. The load path, analysis, and USNRC approval, for moving heavy loads into the FESW is addressed in submittals for Amendment No. 4 to License No. DPR-45, and USNRC Safety Evaluation Reports, dated October 22, 1975, and July 13, 1979, revised February 4, 1980.

- (2) *Procedures should be developed and implemented per the guidelines of Section 5.1.1(2) of NUREG-0612.*

Procedures have existed in the LACBWR Operating Manual, Volume VI, Sections 2 through 7, since the existence of the plant for handling all of the removable items required for reactor refueling operations.

Volume VI, Section 13, of the Operating Manual refers to handling a spent fuel shipping cask, and in accordance with requirements of this section, detailed procedures have been developed and implemented for each spent fuel shipment, the earliest occurred in November 1970 and the latest occurred in May 1981.

Detailed procedures for lifting other plant equipment (e.g., Forced Circulation Pumps) have been utilized, avoiding of handling operations over or in proximity to irradiated fuel or safe shutdown equipment.

- (3) *Crane operators should be trained, qualified and conduct themselves per the guidelines of 5.1.1(3) of NUREG-0612.*

All crane operations are conducted by operators trained and qualified per LACBWR Administrative Control Procedure 23.1, which incorporates guidelines of ANSI B30.2-1967, "Overhead and Gantry Cranes".

- (4) *Cranes should be inspected, tested and maintained in accordance with the guidelines of Section 5.1.1(6) of NUREG-0612.*

LACBWR utilizes the mechanical maintenance preventive maintenance program to schedule and record crane inspections and tests. Machinery history records maintenance performed on the cranes. The crane inspection program with attendant procedures and records have been in use at LACBWR since 1970 and the program is based on the guidelines of ANSI B30.2-1967 and OSHA 1910.179. The provision that, for cranes having limited usage, the tests should be performed prior to their use is utilized by LACBWR. However, even on these cranes, inspections and maintenance are performed routinely.

- (5) *In addition to the above, special attention should be given to procedures, equipment, and personnel for the handling of heavy loads over the core, such as vessel internals or vessel inspection tools. This special review should include the following for these loads: (1) review of procedures for installation of rigging or lifting devices and movement of the load to assure that sufficient detail is provided and that instructions are clear and concise; (2) visual inspections of load*

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bearing components of cranes, slings, and special lifting devices to identify flaws or deficiencies that could lead to failure of the component; (3) appropriate repair and replacement of defective components; and (4) verify that the crane operators have been properly trained and are familiar with specific procedures used in handling these loads, e.g., hand signals, conduct of operations, and content of procedures.

Prior to each refueling, i.e., the handling of heavy loads over the core, the procedures are reviewed and revised as necessary, reviewed by the Operations Review Committee and approved by the Plant Superintendent.

The special handling and lifting equipment is assembled, inspected and functionally tested, if applicable. Any replacement or repairs are made at this time prior to use in the refueling.

Crane operators qualification is verified and training on the approved procedures is conducted prior to handling core and vessel components.

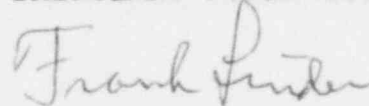
The above actions by LACBWR fulfill the request for implementation of the interim actions described in Enclosure 2 to Reference (1).

The request for a report documenting the results of a review and the required changes and modifications will be included in a subsequent reply to Reference (1).

If you have any questions, please contact us.

Very truly yours,

DAIRYLAND POWER COOPERATIVE



Frank Linder, General Manager

FL:HAT:af

cc: J. G. Keppler, Reg. Dir., NRC-DRO III
NRC Resident Inspectors