

February 2, 1981

In reply, please
refer to LAC-7355

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
LIQUEFACTION POTENTIAL & SEISMIC ANALYSIS AT LACBWR
(SEP TOPICS II-4 AND III-6) - DESIGN DETAILS FOR
ALTERNATE SAFE SHUTDOWN SYSTEM

Reference: (1) DPC Letter, Linder to Crutchfield, LAC-7246,
dated November 26, 1980.

Gentlemen:

Our letter (Reference 1) discussed the preliminary design, schedule, and final design of a dedicated safe shutdown system which would preclude reliance on the Crib House and buried piping in the event of an SSE.

Enclosed as Attachment 1 is a detailed design description of the Emergency Service Water Supply System dated January 23, 1981, which describes the components, physical arrangement, installation requirements, and deployment of the system.

It is our opinion that the above information will show that the FSWSS is a suitable remedial solution for mitigating the potential consequences due to the loss of critical Crib House water supply services as addressed in the NES Report No. 81A0039 transmitted to you earlier by Reference 1.

Since the transmittal of our letter (Reference 1), additional changes have been incorporated in our preliminary design which are reflected in the enclosed attachment. Briefly, these changes consist of utilizing an existing spare 2" High Pressure Service Water line tap for the cross-tie to the tube side of the CCW coolers. Also, the flow path of the FSWSS inlets has been improved in order to enhance the

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mechanical hydraulic quality of the inlets and to minimize flow path disturbances to the existing in-plant HPSW/ACS systems. Reduction of the CCW tie line to 2" still allows for a 200 GPM capacity and if deemed necessary, an existing 1½" hose tie is available.

Presently, all of the necessary HPSW/ESWSS isolation valves, HPSW piping modifications, 2" tap into the LPSW inlet to the CCW coolers, and the inlet isolation valve for the ESWSS header inlets have been installed. Purchase orders have been issued for the pumps, hoses, distributor, hose fittings, strainers, and other miscellaneous components to place the system into operation. Installation of the remaining piping, fittings, and valves for the ESWSS inlet header is in progress and should be completed before or during the second week in February, 1981, at which time we anticipate completing receipt of the pumps and hoses. Based on progress thus far, we estimate that the system will be operational on February 25, 1981.

In order to optimize the anticipated abilities of the ESWSS as presented in our attached design, prededication testing of the system will be necessary which will enable us to expand the details for the deployment and operational procedures. Also, additional time is necessary to properly prepare the proposed Technical Specifications which we expect to submit on or before February 9, 1981.

If there are any questions regarding this submittal, please contact us.

Very truly yours,

DAIRYLAND POWER COOPERATIVE

Frank Linder, General Manager

FL:DR:af

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