

December 27, 1982 <sup>(608) 788-4000</sup>

In reply, please  
refer to LAC-8777

DOCKET NO. 50-409

Director of Nuclear Reactor Regulation  
Division of Operating Reactors  
ATTN: Mr. Dennis M. Crutchfield, Chief  
Operating Reactors Branch No. 5  
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  
SYSTEMATIC EVALUATION PROGRAM TOPIC III-4.B, "TURBINE MISSILES"

Gentlemen:

This letter will respond to questions asked by R. Dudley, NRC-NRR, on Turbine Missiles, SEP Topic III-4.B.

Neither the LACBWR turbine nor the Genoa Unit 3 turbine incorporate any shrunk-on discs. Refer to the attached letter from Allis-Chalmers for a discussion of the LACBWR turbine. The Genoa Unit 3 turbine was manufactured by Westinghouse. Its blade ring collars are integral with the shaft. The blades are then keyed to the collars. The Genoa Unit 1 turbines do have shrunk-on discs.

The other question requested the thickness of the LACBWR low pressure turbine casing. There is a uniform 1-1/4 inch outer steel plate casing. There is an inner cylinder of 1-1/4 inch also, but it does not cover the entire low pressure turbine. All areas not covered by the inner casing do have at least 1-1/4 inches between the blades and the outer casing. There is a cast section welded into the outer casing over the last few rows, which has a minimum thickness of approximately 1-1/2 inches, not including the 1-1/4 inch outer casing.

If there are any further questions, please contact us.

Yours very truly,

DAIRYLAND POWER COOPERATIVE

*Frank Linder*

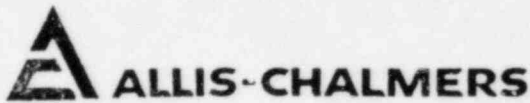
Frank Linder, General Manager

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Attachment

cc - J. G. Keppler, Reg. Admin., NRC-DRO Region III  
R. Dudley, Project Manager, NRC-NRR  
NRC Resident Inspector



MILWAUKEE WISCONSIN 53201

*File 1-5*  
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FEB 5 1980 - 7 1980

February 5, 1980

Dairyland Power Cooperative  
LaCrosse Boiling Water Reactor  
P.O. Box 135  
Genoa, Wisconsin 54632

Attention: Mr. Dick Shimshak  
Plant Superintendent

Dear Dick:

This letter is to confirm our telephone conversation of January 29, 1980 with an attached NRC, IE Information Notice No. 79-37, Cracking in Low Pressure Turbine Discs.

The Allis-Chalmers turbine generator unit that you have in your plant does not incorporate any shrunk-on discs on either the HP or LP turbine spindles. Therefore, the problems reported and the inspections discussed in IE Information Notice No. 79-37 will not apply to your unit. This unit has solid shafts throughout, with blade insertions directly into the spindle body.

If you need any further information on this subject, please let us know.

Sincerely,

*O. R. Mallat*

O. R. Mallat  
Sr. Staff Engineer  
Turbo-Generator Maintenance  
Service Division

ORM/r

*Casual. SEC*  
*Trammell*  
*Milow*  
*Shimshak*  
*Antygin*  
*Engel/Kerling*  
*Vick H/D*  
*IE Info. Notice 79-37*  
*Eng. Div.*