

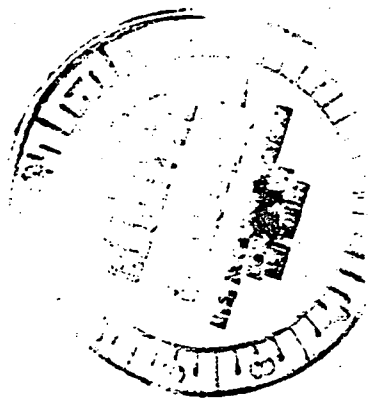
**IOWA ELECTRIC LIGHT AND POWER COMPANY**

*General Office*  
**CEDAR RAPIDS, IOWA**

**LEE LIU**  
VICE PRESIDENT - ENGINEERING

January 20, 1978  
IE-78-112

50-331



Mr. Edson G. Case, Acting Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Case:

Enclosed herewith is the completed diesel  
questionnaire requested by the NRC letter of December  
15, 1977.

Very truly yours,

Lee Liu  
Vice President, Engineering

LL/KAM/gan

Attachment

cc: K. Meyer w/a  
D. Arnold w/o  
R. Lowenstein w/a  
R. Clark (NRC) w/a  
L. Root w/a  
File: A-107

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HEAD TO  
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- S. Are any foreign gases such as propane, freon, halon, carbon dioxide, etc. stored in the: Diesel Engine room?  
Yes \_\_\_\_\_ No XX or adjacent buildings? Yes XX No \_\_\_\_\_

If yes, (other than hand portable fire extinguishers), then identify gases and give approximate tank size.

Gases	Volume (ft <sup>3</sup> )
<u>CO<sub>2</sub>-Cardox</u>	<u>10 tons-liquid</u>
_____	_____
_____	_____
_____	_____
_____	_____

- T. Does control system automatically bypass, in emergency starting, any engine temporarily out of service for maintenance? Yes XX No \_\_\_\_\_

If yes, then how many failures to bypass have occurred?  
None

- U. Does the control system automatically override the test mode under emergency conditions? Yes XX No \_\_\_\_\_

- V. Have repetitive mechanical failures occurred in any component part or subsystem of the engine, generator, or switch gear, etc.?  
Yes XX No \_\_\_\_\_

If yes, then which part or subsystem? Journal Bearings

How many failures? 2

Give nature of failure. Possible oil problems causing bearing failure

- W. Would periodic (yearly or other) evaluation and/or testing by "outside experts" contribute significantly to the diesel-generator reliability? Yes XX No \_\_\_\_\_

Give brief reasons for the answer. Colt Industries currently participates in our annual maintenance inspection. We feel that this contributes to the reliability of the diesels.

- X. 1. Give the accumulated time-load operating record for each diesel-generator unit from installation to the present (Running Hours):

Preoperational test Date August, 1973

Engine Serial No.	Surv. Testing & Maintenance Hrs. No Load : Loaded	Emergency and Other Service Hrs.	Total Hours
38D871077 TDSM12	~ 14.8 : ~ 81.5	~ 402.2	498.5
38D871078 TDSM12	~ 12.7 : ~ 80	~ 320.1	412.8

2. Surveillance test load (percent of continuous rating) 100%
3. Give the projected or planned time-load operation for each diesel-generator unit during the next 12 months.

Surveillance & Maintenance Hrs.	Emergency and other Service Hrs.	Total Hours
30 hours each	none	30 hours

4. Provide the following summary of the periodic surveillance testing experience:

- a. Starting date of surveillance testing (OL date) 3/2/74
- b. Periodic test interval monthly
- c. Total number of surveillance tests performed Unit A-105; Unit B-112
- d. Total number of test failures 5

failure to start 0 failure to accept load 0  
 failure to carry load 0 failures due to operator error 0  
 failure due to equipment not being operative during emergency conditions 0

- e. Supply a copy of the surveillance test procedures with this completed questionnaire.