



Nebraska Public Power District

Enclosure 3
GENERAL OFFICE
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January 18, 1978

Director, Nuclear Reactor Regulation
Attention: Karl R. Goller
Assistant Director of Operating Reactors
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Subject: Standby Diesel Generator Study

Reference: Letter, Karl R. Goller to All Power Reactor Licensees, dated
December 15, 1977.

Dear Mr. Goller:

This letter is in response to the referenced letter which transmitted a questionnaire pertaining a reliability study of Standby Diesel Generator Units. It was requested that the questionnaire be completed and one copy returned to your office by January 20, 1978. We have completed the questionnaire and are submitting one copy, for your review and use, as an enclosure to this letter.

Additionally, it was requested that we identify the individual responsible for completing the questionnaire, follow-up communications, or for arranging a reactor site visit. This individual is:

Mr. L. C. Lessor
Station Superintendent
Cooper Nuclear Station
P. O. Box 98
Brownville, Nebraska 68321

Phone (402) 825-3811

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

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

Gases	Carbon Dioxide	Volume	76	75	lb. bottles
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

If yes, then how many failures to bypass have occurred?

- U. Does the control system automatically override the test mode under emergency conditions? Yes X No _____

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

If yes, then which part or subsystem? Copper tubing

How many failures? Three

Give nature of failure. Tubing developed leaks, was replaced with stainless steel and no leaks have occurred since.

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

Give brief reasons for the answer. _____

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

Preoperational test Date 1-11-74

: Engine	: Surv. Testing &	: Emergency	: Total
: Serial No.	: Maintenance Hrs.	: and Other	: Hours
:	: No Load : Loaded	: Service Hrs.	:
: 7103	: UN : 336	: 0	: 336
: 7102	: UN : 320	: 0	: 320
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

2. Surveillance test load (percent of continuous rating) 35

3. Give the projected or planned time-load operation for each diesel-generator unit during the next 12 months.

: Surveillance &	: Emergency	: Total
: Maintenance Hrs.	: and other	: Hours
:	: Service Hrs.	:
: 40	: 0	: 40
:	:	:
:	:	:

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

- a. Starting date of surveillance testing (OL date) Jan. 1974
 b. Periodic test interval monthly
 c. Total number of surveillance tests performed 210
 d. Total number of test failures 7

failure to start 4 failure to accept load 0
 failure to carry load 3 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. See attached.

Additional Comments

We have listed UN on several items. We believe
the requested information does not warrant additional
effort to obtain the information. If there is dis-
agreement on this matter, we will reevaluate if contacted.

Y. General Suggestions

Briefly give constructive criticism or suggestions as to improvement in reliability of the diesel generators. These remarks may cover tests, maintenance, practices, orders, policy, adjustments, etc.