

Enclosure 3

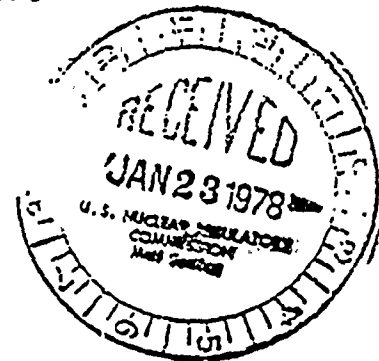
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ROCHESTER GAS AND ELECTRIC CORPORATION • 39 EAST AVENUE ROCHESTER, N.Y. 14609

LEON D. WHITE, JR.
VICE PRESIDENT

January 18, 1978

Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Sir:

Enclosed herewith is our response to your request of December 15, 1977 for questionnaire response for your study of standby diesel generating units.

Our response to the questionnaire contains no information that is considered proprietary.

Very truly yours,

L. D. White, Jr.
L. D. White, Jr.

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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 X or adjacent buildings? Yes _____ No X

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

Gases	Volume (ft ³)
_____	_____
_____	_____
_____	_____
_____	_____

- 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 _____ No X

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

If yes, then which part or subsystem? _____

How many failures? _____

Give nature of failure. _____

- 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. Adequate testing of D/G is performed by plant personnel via monthly, yearly surveillance and maintenance tests/checks. During yearly maintenance check the diesel manufacturer's representative is on site.

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

Preoperational test Date 7/69

: Engine	:	Surv. Testing &	:	Emergency	:	Total
: Serial No.	:	Maintenance Hrs.	:	and Other	:	Hours
:	:	No Load	: Loaded	: Service Hrs.	:	:
: 9689	:	30	: 100	: 390	:	520
: 9688	:	30	: 100	: 508	:	638
:	:	:	:	:	:	:
:	:	:	:	:	:	:
:	:	:	:	:	:	:
:	:	:	:	:	:	:

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 &	:	Emergency	:	Total	:
: Maintenance Hrs.	:	and other	:	Hours	:
:	:	Service Hrs.	:	:	:
: 20	:	:	:	20	:

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

- a. Starting date of surveillance testing (OL date) November 1969
- b. Periodic test interval monthly and refueling outage
- c. Total number of surveillance tests performed 256
- d. Total number of test failures 3

failure to start 1 failure to accept load

failure to carry load 1 failures due to operator error 1

failure due to equipment not being operative during emergency conditions 0

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

Additional Comments

1. D/Gs were used intermittently during early plant operation (1970) for power generation. This practice has since been discontinued. Currently power is generated only during surveillance testing or when plant Tech. Specs. require one D/G to be in service.
2. D/Gs must be manually sunchronized to their respective safeguard buses during surveillance testing.
3. D/G tie breakers are closed automatically to safeguard buses only after off site power has been lost. Times noted in O.1.a thru c are from bus de-energization (off site power) to bus voltage restoration by D/Gs.

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.

- 1.. All personnel who will be associated with operating, maintaining and testing responsibilities be thoroughly and formally famillarized with the D/G's and their associated support and control systems.
2. Strict adherence to manufacturers' maintenance recommendations for units, commensurate with running time hours.
3. Develop a comprehensive series of surveillance procedures to fulfill the following requirements.
 - a. at least yearly verify emergency start mode and proper automatic safeguard load assumption.
 - b. at least yearly verify all protective alarm and trip circuitry functional.
 - c. at least monthly synchronize units to outside power grid and load units to at least long term KW rating for a sufficient period of time to assure satisfactory operation.