

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 23, 1978

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

Serial No. 614/121577
PO&M/DLB:das
Docket Nos. 50-280
50-281
50-338
License Nos. DPR-32
DPR-37
NPF-4

Dear Sir:

This is in response to your letter of December 15, 1977 requesting the completion of a questionnaire entitled "Questionnaire for Nuclear Regulatory Commission Reliability Study of Standby Diesel Generator Units". Two completed questionnaires are enclosed; one for Surry Unit Nos. 1 and 2 and one for North Anna Unit No. 1. The names, addresses and telephone numbers of person to contact for further information are included.

Very truly yours,

C. M. Stallings
Vice President-Power Supply
and Production Operations

Attachments



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1/1

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PDR

The person responsible for completing the attached questionnaire and responsible for responding to any follow-up communications is Lauren A. Johnson, Surry Power Station, Box 315, Surry, Virginia 23883. His telephone number is 804-357-3184 extension 280.

- 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 _____	3	Volume (ft) _____
_____		_____
_____		_____
_____		_____
_____		_____

- 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 X No _____

If yes, then which part or subsystem? Cracked liners & heads

How many failures? 4

Give nature of failure. Engine Overheat

- 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. Station personnel have satisfactory technical capability. Manufacturers representative makes periodic visits for consultation.

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

Preoperational test Date 11-22-71 Final Turnover

	Engine Serial No.	Surv. Testing & Maintenance Hrs. No Load	Testing & Loaded	Emergency and Other Service Hrs.	Total Hours
#1	:69J1101	: 36	: 144	:	:
#2	:69J11155	: 36	: 144	:	:
#3	:69J11062	: 44	: 176	:	:
	:	:	:	:	:
	:	:	:	:	:

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
#1	: 30	: 10	: 40
#2	: 30	: 10	: 40
#3	: 40	: 10	: 50

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

- a. Starting date of surveillance testing (OL date) 8-7-72
 b. Periodic test interval Monthly.
 c. Total number of surveillance tests performed 232
 d. Total number of test failures 8

failure to start 2 failure to accept load 1
 failure to carry load _____ failures due to operator error _____
 failure due to equipment not being operative during emergency
 conditions _____ Other 5 (Ran hot 3, Water in cylinder 2)

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