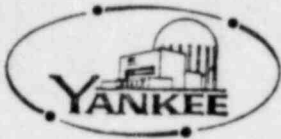


YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581



January 20, 1978

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Office of Nuclear Reactor Regulation

Reference: (a) License No. DPR-3 (Docket No. 50-29)
(b) USNRC letter dated December 15, 1977, Reliability
of Standby Diesel Generator Units - Questionnaire

Dear Sir:

Subject: Standby Diesel Generator Units Questionnaire

As requested in your letter, Reference (b), we are forwarding to you the completed standby diesel generator units questionnaire. To the best of our knowledge all the information stated within is correct and we trust it will meet your satisfaction. If you have any additional questions or comments pertaining to this questionnaire, please contact Mr. Norman St. Laurent, Yankee Atomic Electric Company, Star Route, Rowe, Massachusetts, 01367. Telephone Number: (413) 625-6140.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

R. H. Groce
Licensing Engineer

RTT/kg
Enclosures

780300199

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

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

Gases	<u>CARBON DIOXIDE</u>	Volume (ft)	<u>2 BOTTLES @ 200 lbs ea. (size w)</u>
	<u>NITROGEN</u>		<u>12 BOTTLES @ 51 ft³ ea.</u>
	_____		_____
	_____		_____
	_____		_____

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

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 *NA*

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

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

Give brief reasons for the answer. OUTSIDE EXPERTS ARE USED @ 10 MO INTERVALS FOR TESTING DIESEL ENGINE EQUIPMENT SUCH AS FUEL INJECTORS.

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

Preoperational test Date NOV & DEC 1970

Engine Serial No.	Surv. Testing & Maintenance Hrs. No Load	Loaded	Emergency and Other Service Hrs.	Total Hours
16VA-1803	30	240	430	700
16VA-1804	36	240	430	706
16VA-1805	30	240	430	700

2. Surveillance test load (percent of continuous rating) 50%
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
40	—	40

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

- a. Starting date of surveillance testing (OL date) 12/22/70
 b. Periodic test interval weekly
 c. Total number of surveillance tests performed 284
 d. Total number of test failures 9

failure to start 4 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.

Additional Comments

DIESELS WERE INSTALLED APPROXIMATELY DEC. 1970
* GIVEN PERIODIC TESTS. SOME PROBLEMS OCCURRED
* WERE CORRECTED (E.G. FAILURE TO START, ETC).
DIESELS WERE CONNECTED TO EGCS SYS ~ 3/72
WITH VERY LITTLE TROUBLE EXPERIENCED SINCE.

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.