



TELEPHONE
203-555-6911

CONNECTICUT YANKEE ATOMIC POWER COMPANY

BERLIN, CONNECTICUT
P. O. BOX 270 HARTFORD, CONNECTICUT 06101

February 1, 1978

Docket No. 50-213



Director of Nuclear Reactor Regulation
Attn: Mr. A. Schwencer, Chief
Operating Reactors Branch #1
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

- References:
- (1) Letter from K. R. Goller to D. C. Switzer dated December 15, 1977.
 - (2) Letter from K. R. Goller to D. C. Switzer dated January 3, 1978.

Gentlemen:

Haddam Neck Plant
Questionnaire for Reliability Study of Standby Diesel Generator

References (1) and (2) requested responses regarding the demonstrated reliability of standby diesel generators. As requested, CYAPCO has completed the enclosed questionnaire and is forwarding a single copy. Although Reference (1) requested a response by January 20, 1978, the attached information was not available by that date. This delay was discussed with the NRC Staff and was acceptable.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY

D. C. Switzer
D. C. Switzer
President

Attachment

8107290239 810720
PDR ADOCK 05000213
F PDR

120350274

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	Fire Extinguishers	Volume (ft ³)	
			N/A

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

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

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. Our own P.M. Program has proven sufficient.

Additional Comments

Air Motors (for starting) have In-Line Oilers, however,
our main diesel problem was starting with two motors.

If engine does not start with two air motors after 3
seconds, four motors (total installed) are used. Rust buildup
in the motor was the cause. The air supply line was changed

from the bottom of the air tank to the top to minimize water
or moisture and also the motors were placed on a preventative
maintenance program. These measures have removed the problem.

Y. General Suggestions

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

Preventative Maintenance was solved all minor problems and at this time we consider our diesels very reliable.