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Enclosure 3

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February 14, 1978

BECO. Ltr. #78-26

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

Docket No. 50-293
License No. DPR-35

Reliability Study of Standby Diesel Generators

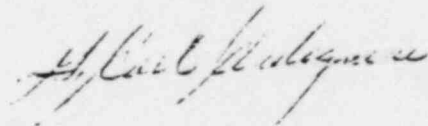
Dear Sir:

In letters dated December 15, 1977 and January 3, 1978, power reactor licensees were requested to complete a questionnaire on standby diesel generators. The attached questionnaire for the Pilgrim Nuclear Power Station diesels has been completed and is hereby submitted.

Boston Edison Company regrets the delay in transmitting the survey results, however, due to some omission we were not aware of the request for such information until receipt of your January 3, 1978 letter. At that time appropriate steps were taken to obtain a copy of the questionnaire and begin compiling the responses.

We trust that this information will contribute to the reliability study. If additional information is required concerning this subject please contact the individual identified on the cover sheet of the questionnaire.

Very truly yours,



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Attachments

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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 ☒ or adjacent buildings? Yes _____ No _____

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 ☒

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? EXHAUST MANIFOLD PIPING

How many failures? 9

Give nature of failure. WELDING AND MATERIAL

- 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. SAFETY/RELIABILITY PROGRAM IS BASED ON OUTSIDE EXPERTISE

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

Preoperational test Date 4/7/72

| : Engine : | Surv. Testing & | Emergency | Total |
|----------------|--------------------|----------------|---------|
| : Serial No. : | Maintenance Hrs. : | and Other | Hours : |
| : | No Load : Loaded : | Service Hrs. : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |

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. : | : |
| : ENG HR/WR | : | : |
| : MAINTENANCE | : MAX | : 52 HRS |
| : | : | : 40 HRS |

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

- a. Starting date of surveillance testing (OL date) Dec. 1972
- b. Periodic test interval 1 YEARLY
- c. Total number of surveillance tests performed _____
- d. Total number of test failures 0

failure to start _____ failure to accept load _____

failure to carry load _____ failures due to operator error _____

failure due to equipment not being operative during emergency conditions _____

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