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Docket Nos.: 50-440
 and 50-441

MAR 14 1983

Mr. Murray R. Edelman
 Vice President - Nuclear Group
 The Cleveland Electric Illuminating Company
 P. O. Box 5000
 Cleveland, Ohio 44101

Dear Mr. Edelman:

Subject: NRC Requirement and Request for a Turbine Generator System
 Maintenance Program for the Perry Nuclear Power Plant
 (Units 1 and 2)

Because of the unfavorable orientation of the Perry turbine generators with respect to other reactor buildings housing safety-related systems and components, the NRC staff considered turbine missile protection to be an unresolved issue in Section 3.5.1.3 of the Perry SER (NUREG-0887), and listed turbine missile protection as Outstanding Issue (1) in Section 1.9 of NUREG-0887.

On the basis of its continuing review of the turbine missile issue, the staff has determined that the probability of unacceptable damage due to turbine missiles is acceptably low, provided that the turbine missile generation probability is maintained to be 10^{-5} per reactor year or less for the life of the plant, by the implementation of an acceptable maintenance program. The staff considered the unfavorable orientation of the Perry turbine generators in reaching this conclusion.

In order for the NRC staff to consider the turbine missile issue to be sufficiently resolved for issuing an operating license for Perry, it is required that CEI agree to submit, for NRC staff approval, a turbine generator system maintenance program, predicated on the turbine manufacturer's (General Electric) calculations of turbine missile generation probabilities within three years of obtaining an operating license for Unit 1 of the Perry plant. If such a maintenance program is not received and approved by the NRC staff within three years of licensing, CEI will be required to volumetrically inspect all low pressure turbine rotors at the second refueling outage, and every other (alternate) refueling outage thereafter until a rotor inspection program is approved by the NRC staff. In addition, the staff requires CEI to conduct turbine steam valve maintenance with present NRC criteria (see Section 10.2 of NUREG-0800), until a maintenance program is approved.

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It is our intent to document the basis upon which the above conclusion and requirement were formulated in a future supplement to the Perry SER. It is therefore requested that CEI formally agree to submit the required turbine generator system maintenance program within the time stated above, or to perform the inspection indicated above, no later than March 31, 1983, in order that the NRC staff may provide the project manager (John Stefano) with its complete and detailed evaluation for the Perry SER. Should there be any questions, please direct them to Mr. Stefano at 301-492-7037.

Sincerely,

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B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

cc: See next page

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