

TERA

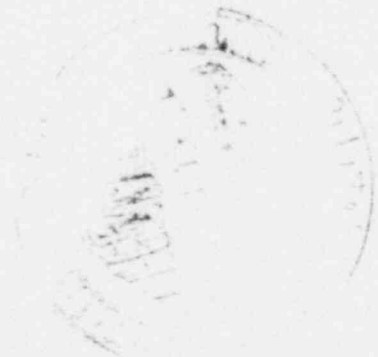
Docket No. 50-293

FEB 13 1981

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Mr. A. Victor Morisi, Manager
Nuclear Operations Support Department
Boston Edison Company
M/C Nuclear
800 Boylston Street
Boston, Massachusetts 02199



Dear Mr. Morisi:

Ref. (a) BECo Ltr 80-280 of November 5, 1980

SUBJECT: ADEQUACY OF STATION ELECTRIC DISTRIBUTION SYSTEM VOLTAGES

Your last correspondence (Ref. (a)) suggested that further questions on the subject may best be resolved in a meeting with our staff. Subsequent to a review of Ref. (a) we determined that additional information was necessary. However, the information required analysis, on your part, which obviated the benefit of a meeting.

In an effort to clarify our remaining questions, members of the NRC staff contacted your staff on February 10, 1981. The questions are contained in Enclosure 1. Your satisfactory response to these questions should result in the completion of our review. Your response to this letter is requested within 60 days of its receipt. Thank you for your cooperation in this regard.

Sincerely,

Thomas A. Ippolito, Chief
Operating Reactors Branch #2
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/encl:
See next page

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OFFICE	DL:ORB#2	DL:ORB#2	JL:ORB#2			
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DATE	2/13/81	2/13/81	2/13/81			

Mr. A. Victor Morisi
Boston Edison Company

cc:

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Plymouth, Massachusetts 02360

ENCLOSURE 1

REQUEST FOR ADDITIONAL INFORMATION PILGRIM UNIT 1 ADEQUACY OF STATION ELECTRIC DISTRIBUTION SYSTEM VOLTAGES

- Ref. 1: BECo letter (A. V. Morisi) to NRC
(T. A. Ippolito), dated November 5, 1980
- Ref. 2: BECo letter (G. C. Andognini) to NRC
(D. L. Ziemann), dated November 15, 1976
- Ref. 3: BECo letter (G. C. Andognini) to NRC
(D. K. Davis), dated August 8, 1977
- Ref. 4: NRC letter (W. G. Gammill) to all Power
Reactor Licensees dated August 8, 1979

1. Per Guideline 1, Ref. 4, submit an analysis for the 23 KV connection (second offsite source) through the shutdown transformer to the Class 1E buses.
2. Provide the manufacturers recommended minimum starting voltage for all Class 1E loads.
3. Provide the voltage drops from the Class 1E buses to the terminals of all Class 1E loads (Ref. 4, Guideline 7) for all cases analyzed.
4. Define the plant operating mode and the loading of the Class 1E buses for the conditions identified as "Full Load" and "No Load" in Ref. 2, Table 2.
5. Per Guideline 3, Ref. 4, provide an analysis of the effect on all Class 1E equipment when starting and running the largest non-Class 1E load when the Class 1E buses are heavily loaded during a LOCA. Also submit a transient analysis for bulk Class 1E load starting (no sequential loading) during a LOCA. The analyses should confirm that the second-level of undervoltage protection relays do not drop out during these load starting conditions. The starting of the largest non-Class 1E load will have an effect on the Class 1E bus voltage regardless of the load location.

PARTICIPANTS OF TELECON OF FEB. 10, 1981

BECo.	NRC
J. KEYS	M. WILLIAMS
S. VASGUPTA	J. LAZEVNICK
J. PAWLAK	J. SELAN (CONTRACTOR)