

AEOD/E510

July 30, 1985

MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

THRU: Matthew Chiramal, Section Chief
Engineering Section
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FROM: Frank Ashe, Engineer
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SUBJECT: DISAPLING OF A SHARED DIESEL GENERATOR SET DUE TO
ELECTRICAL POWER SUPPLY ARRANGEMENT FOR SUPPORT
AUXILIARIES

The enclosed Engineering Evaluation report is forwarded for your review and consideration. This report provides information concerning power supply arrangements for support auxiliaries associated with shared diesel generator sets.

The report identifies a situation which was discovered at the Surry Station whereby electrical power necessary for operation of engine louvers associated with the swing diesel generator set would not be available. For this situation, the engine would overheat and thus may be unable to perform its safety function. To assist in making an assessment of its generic implications, five additional facilities were reviewed to determine if this or a similar concern might be applicable to these facilities.

Based on the results of the review conducted for the five additional facilities and the knowledge that certain support auxiliaries must be supplied with electrical power for proper operation of a diesel generator set, we believe that the concern identified for the Surry Station would not be a concern at most facilities which use shared diesel generator sets. However, this or a similar concern may exist for a shared diesel generator set at a few stations, and in view of this possibility, the report suggests that it would be

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appropriate to discuss the event described in the Surry Station LER in
Section 2.0 (Excerpts of Selected Licensee Event Reports) of a future issue of
Power Reactor Events.

Frank Ashe

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Enclosure:
As stated

cc: J. Crooks, AEOD
M. Srinivasan, NRR

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