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JUN 9 1972

Robert L. Tedesco, Assistant Director for Containment Safety, Directorate of Licensing

TECHNICAL ASSISTANCE REQUEST FOR REVIEW OF TOPICAL REPORT AAF-TR-7101 "DESIGN AND TESTING OF FAN-COOLER FILTER SYSTEMS FOR NUCLEAR APPLICATIONS" DATED FEBRUARY 20, 1972

The topical report titled "Design and Testing of Fan-Cooler Filter Systems for Nuclear Applications" AAF-TR-7101 dated February 20, 1972 submitted by American Air Filter Company, Louisville has been reviewed and evaluated by the L Mechanical Engineering Branch. Adequate response to the enclosed request for additional information is required before we can complete our evaluation of the seismic analysis approach of the filter systems described in the report.

DKT # 50-289

Original Signed by
R. R. M.

R. R. Maccary, Assistant Director
for Reactor Safety
Directorate of Licensing

Plant Name: Three Mile Island
Licensing Stage: Operating License
Docket No. 50-289
Requesting Branch: Containment Safety, L
Project Leader: D. D. Reiff
Requested Completion Date: June 20, 1972
Technical Review Branches Involved: Mechanical Engineering Branch
Description of Request: Review of techniques used by AAF in seismic design
Review Status: Need for additional information

cc w/encl:
S. H. Hanauer, DRTA
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cc w/o encl:
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Docket File
L, Reading File
L:MEB Reading File

OFFICE ▶	L:ME	L:ME	L:B			
SURNAME ▶	K. Kapur:jm	D. Lange	R. Maccary			
DATE ▶	6/9/72	6/9/72	6/9/72			

Form AEC-318 (Rev. 9-53) AECM 0240 GPO 943—16—81465-1 445-078

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REQUEST FOR ADDITIONAL INFORMATION

THREE MILE ISLAND NUCLEAR STATION UNIT 1

DOCKET NO. 50-289

1. If the term "root-mean-square basis" is used in describing the combination of modal responses, confirmation that the responses are combined using the square root of the sum of the squares should be provided.

2. The criteria for combining modal responses (shears, moments, stresses, deflections, and/or accelerations) where modal frequencies are closely spaced and a response spectrum modal analysis method is used should be provided.

3. If static loads equivalent to the peak of the floor spectrum curve are used for the seismic design of components and equipment, the use of peak spectrum values should be justified by demonstrating that the contribution of all significant dynamic modes of response under seismic excitation have been included.

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