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U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER

50-289

FILE NUMBER

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TO:

Mr. R. W. Reid

FROM:

Met Ed  
Reading, Pa. 19603  
J. G. Herbein

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PROP

INPUT FORM

DESCRIPTION

Consists of info. re torsional critical  
speed analysis on Decay Heat Pump Shafts..

ENCLOSURE

(1-P)

1492 229

PLANT NAME: Three Mile Island Unit No. 1  
RJL 1/11/78

SAFETY

FOR ACTION/INFORMATION

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METROPOLITAN EDISON COMPANY

POST OFFICE BOX 542 READING, PENNSYLVANIA 19602

TELEPHONE 215 - 929-3601

January 5, 1978  
GQL 0009

Director of Nuclear Reactor Regulation  
Attn: R. W. Reid, Chief  
Operating Reactors Branch No. 4  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555



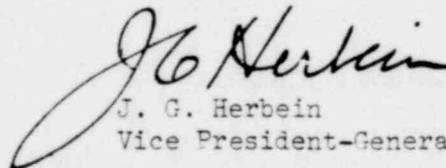
Dear Sir:

Three Mile Island Nuclear Station Unit 1 (TMI-1)  
Docket No. 50-289  
Operating License No. DPR-50  
Decay Heat Pump Shafts

Metropolitan Edison Company letter GQL 1477, October 27, 1977, stated that a torsional vibration analysis would be performed to provide further assurance that torsional critical speeds are not a problem with respect to imposing significant torsional loads on the shafts.

Worthington Corporation has performed a torsional critical speed analysis, which we received on December 8, 1977. As a result of their analysis, Worthington Corporation has stated that since the torsional critical speed is approximately three times the rotative speed, torsional excitation is not a problem with these pumps. Met-Ed has reviewed the detailed analysis and concurs with Worthington that torsional excitation is not a problem.

Sincerely,

  
J. G. Herbein  
Vice President-Generation

JGH:RJS:tas

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