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TO: Mr. R. W. Reid

FROM: Metropolitan Edison Company
Reading, Pa.
J. G. Herbein

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DESCRIPTION

ENCLOSURE

Consists of the December vibration testing data for DH-P-1A & DH-P-1B (Decay Heat Pump Shafts).....

(2-P)

(2-P)

PLANT NAME: Three Mile Island Unit No. 1
RJL 1/9/78

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METROPOLITAN EDISON COMPANY

SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

January 5, 1978
GQL 0007

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

In accordance with Metropolitan Edison Company letter of September 8, 1977, GQL 1234, Paragraph 1.A. Vibration Testing, attached please find the December vibration testing data for DH-P-1A and DH-P-1B.

DH-P-1A

Met-Ed Generation Engineering has reviewed the December 5, 1977, vibration testing data for DH-P-1A and has noted that the 18,000 cpm data for locations AH and BH exceeds the November 4, 1977, baseline by more than 50%. However, based on the IRD Vibration Severity Chart, the December 5 readings are indicative of a "good" running pump.

DH-P-1B

Met-Ed Generation Engineering has reviewed the December 6, 1977, vibration testing data for DH-P-1B and has noted that the 900 cpm data for locations AV and BH exceeds the November 3, 1977, baseline by more than 50%. However, based on the IRD Vibration Severity Chart, the December 6 readings are indicative of a "good" running pump.

It should be noted that changes in amplitude of 50% or more are insignificant, when compared to the extremely low baseline values, and that such changes can be expected.

1493 124

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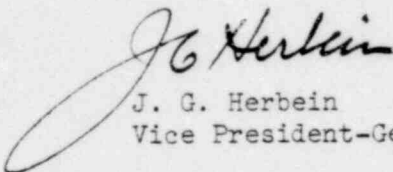
R. W. Reid, Chief

-2-

January 5, 1978
GQL 0007

Based on the above, Met-Ed Generation Engineering has concluded that since the vibration levels of DH-P-1A and DH-P-1B are so low, no corrective action is required.

Sincerely,

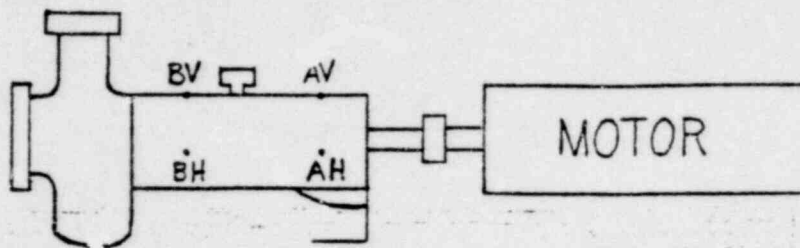


J. G. Herbein
Vice President-Generation

JGH:RJS:gs

Attachments

1493 125



DHP-1A

CPM		900	1800	3600	18,000
AV	DISPLACEMENT - MILS	0.14	0.12	0.07	0.027
BV		0.10	0.13	0.06	0.020
AH		0.15	0.25	0.12	0.025*
BH		0.20	0.13	0.10	0.025

12-05-77

DHP-1B

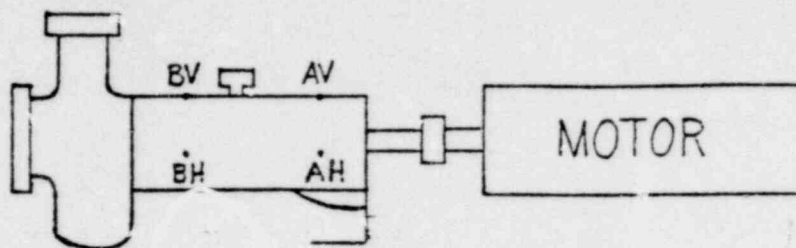
CPM		900	1800	3600	18,000
AV	DISPLACEMENT - MILS	0.26	0.19	0.12	0.039
BV		0.14	0.12	0.08	0.030
AH		0.4*	0.13	0.20	0.013
BH		0.5*	0.07	0.19	0.013

12-06-77

* Corrected based on velocity measurements

1493 126

● BASELINE DATA ●



DHP-1A

CPM		900	1800	3600	18,000
AV	DISPLACEMENT - MILS	0.22	0.16	0.19	0.023
BV		0.24	0.14	0.06	0.018
AH		0.20	0.32	0.21	0.013
BH		0.18	0.32	0.22	0.012

11-04-77

DHP-1B

CPM		900	1800	3600	18,000
AV	DISPLACEMENT - MILS	0.09	0.23	0.16	0.022
BV		0.08	0.16	0.12	0.017
AH		0.46	0.12	0.22 *	0.024
BH		0.08	0.22	0.12	0.011

11-03-77

* Corrected based on velocity measurements

1493 127