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DOCDATE: 06/15/78
DATE RCVD: 06/20/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:
RESPONSE TO AMEND 40 OF TMI-1 FACILITY OPERATING LIC NO DPR-50 PARAGRAPH 2.C.(3),, FORWARDING INFO RE RADIAL AND TOTAL PEAKING FACTORS FOR AN EIGHTH CORE, FROM THE 100% FULL PWR CORE PWR DISTRIBUTION TEST PERFORMED 05/31/78 WITH 25 08 EFPD ON TMI-1 CYCLE

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LTR 1 ENCL 1

PLANT NAME: THREE MILE ISLAND - UNIT 1

REVIEWER INITIAL: XJM
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50-331 IOWA ELECTRIC & POWER COMPANY DUANE ARNOLD
50 03/22/78 ACCESSION NBR: 78093-0172 TASK NBR:
331 DOCUMENT TYPE: OTHERS FICHE NBR :
C DOCUMENT SIZE: 3P NOTARIZED: NO
DOCKET DATE: LPDR: YES
REPORT NBR:
RECP: RECP AFFILIA
ORG: LEAR G ORG AFFILIAT

SUBJECT: NOTICE OF GRANTING AN EXEMPTION FROM
50, ¤CONTAINMENT DESIGN BASIS¤, APPE

50 03/22/78 ACCESSION NBR: 78096-0205 TASK NBR:
331 DOCUMENT TYPE: AMENDMENT FICHE NBR :
C DOCUMENT SIZE: 2P+2P+11P NOTARIZED: N
DOCKET DATE: LPDR: YE
REPORT NBR:
RECP: ARNOLD D RECP AFFILIA
ORG: LEAR G ORG AFFILIAT

SUBJECT: AMEND. NO. 41 TO LIC. NO. DPR-49 TO
OPERATING REPT...W/ATT SAFETY EVALUA

50 03/22/78 ACCESSION NBR: 78097-0212 TASK NBR:
331 DOCUMENT TYPE: LETTER FICHE NBR :
C DOCUMENT SIZE: 1P NOTARIZED: N
DOCKET DATE: LPDR: YE
REPORT NBR:
RECP: KEPPLER J G RECP AFFILI
ORG: HAMMOND E L ORG AFFILIA

SUBJECT: NOTIFICATION OF THE LOSS OF AN ENVI

POOR ORIGINAL

METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603 TELEPHONE 215 – 929-3601

June 15, 1978
GQL 1072

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)
Operating License No. DPR-50
Docket No. 50-289
Radial and Total Power Peaking Measurements at 25.05 EFPD

In response to Amendment 40 of the TMI-1 Facility Operating License No. DPR-50, paragraph 2.c.(3), the 100% Full Power Core Power Distribution Test was performed on May 31, 1978 with 25.05 EFPD on TMI-1 Cycle 4. The two enclosed pages show the radial and total peaking factors for an eighth core.

The largest radial peak was measured to be 8.91% higher than the Babcock and Wilcox prediction. This is within the limit that was used by Babcock and Wilcox for the Cycle 4 analysis.

The largest total peak was measured to be 6.93% higher than the Babcock and Wilcox prediction. This is within the limit that was used by Babcock and Wilcox for the Cycle 4 analysis.

Thus, the test shows that all of the peaking factors are within the limits specified in paragraph 2.c.(3) of the TMI-1 Facility Operating License No. DPR-50 for the full power rating of the facility.

Sincerely,

J. G. Herbein
Vice President-Generation

JGH:WSS:cjg

Enclosures: (1) Eighth Core Map showing radial peaking factors
(2) Eighth Core Map showing total peaking factors

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RADIAL PE KING FACTORS

	8/H	9/G	10/F	11/E	12/D	13/C	14/B	15/A
H/8	0.918 0.935	1.075 1.056	1.219 1.192	1.005 0.889	1.229 1.184	0.860 0.940	0.845 0.798	0.736 0.807
K/9		1.224 1.207	1.105 1.050	1.188 1.123	1.040 1.072	1.216 1.162	0.876 0.861	0.778 0.814
L/10			1.347 1.227	1.109 1.039	1.129 1.090	0.908 0.940	1.121 1.201	0.664 0.708
M/11				0.945 0.989	1.233 1.144	0.959 0.952	0.913 1.010	
N/12					1.072 0.953	1.096 1.130	0.650 0.722	
O/13						0.520 0.570		

LEGEND

X.XXX	Measured Value
X.XX	Calculated Value

Maximum Measured Value 1.347

Maximum Calculated Value 1.227

Maximum Error (%): 8.91

$\frac{1.347 - 1.227}{1.347} \times 100 = 8.91\%$

	% wd.
Gp. 1-4	100
Gp. 5	100
Gp. 6	100
Gp. 7	93
Gp. 8	29

Power Level 100 %FP

Effective Full Power Days 25.05 EFPD

TOTAL PEAKING FACTORS

	8/H	9/G	10/F	11/E	12/D	13/C	14/B	15/A
H/8	1.059 1.117	1.215 1.217	1.390 1.383	1.146 1.136	1.434 1.385	1.039 1.202	0.985 1.027	0.893 1.035
K/9		1.415 1.401	1.332 1.233	1.385 1.312	1.229 1.233	1.517 1.385	1.059 1.060	0.920 1.030
L/10			1.615 1.503	1.356 1.266	1.502 1.464	1.046 1.100	1.353 1.461	0.798 0.881
M/11				1.117 1.201	1.463 1.408	1.112 1.127	1.073 1.220	
N/12					1.288 1.243	1.277 1.358	0.776 0.876	
O/13						0.595 0.686		

LEGEND

X.XXX	Measured Value
X.XX	Calculated Value

Maximum Measured Value 1.615

Maximum Calculated Value 1.503

Maximum Error (%): 6.93

$\frac{1.615 - 1.503}{1.615} \times 100 = 6.93\%$

	% wd.
Gp. 1-4	100
Gp. 5	100
Gp. 6	100
Gp. 7	93
Gp. 8	29

Power Level 100 %FP

Effective Full Power Days 25.05 EFPD