

06/21/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-289

REG: REID R W
NRC

ORG: HERBEIN J G
METROPOL EDISON

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

DOCTYPE: LETTER NOTARIZED: NO

COPIES RECEIVED

SUBJECT:

LTR 1 ENCL 1

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 25.03 EFPO ON TMI-1 CYCLE

PLANT NAME: THREE MILE ISLAND - UNIT 1

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: *m*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

GENERAL DISTRIBUTION FOR AFTER ISSUANCE OF OPERATING LICENSE.
(DISTRIBUTION CODE A001)

FOR ACTION: BR CHIEF ORB#4 BC**W/7 ENCL

INTERNAL:

REG FILE**W/ENCL

1-3 E**W/2 ENCL

HANAUER**W/ENCL

AD FOR SYS & PROJ**W/ENCL

REACTOR SAFETY BR**W/ENCL

EEB**W/ENCL

J. MCCOUGH**W/ENCL

NRC PDR**W/ENCL

OELD**LTR ONLY

CORE PERFORMANCE BR**W/ENCL

ENGINEERING BR**W/ENCL

PLANT SYSTEMS BR**W/ENCL

EFFLUENT TREAT SYS**W/ENCL

EXTERNAL:

LPDR'S

HARRISBURG, PA**W/ENCL

TIC**W/ENCL

NSIC**W/ENCL

ACRS CAT B**W/16 ENCL

POOR ORIGINAL

1489 349

DISTRIBUTION: LTR 40 ENCL 39
SIZE: 1P+2P

CONTROL NBR: 781720167

***** THE END *****

7910240 838

P

NRC-3031305-010

UNITED STATES NUCLEAR REGULATORY COMMISSION
DDC MONTHLY ACCESSION LIST

04/01/78 - 04/30/78

FILE LEVELS

DOC. DATE

50-331 IOWA ELECTRIC & POWER COMPANY

50

03/22/78

331

C

DUANE ARNOLD

ACCESSION NBR: 78093-0172

DOCUMENT TYPE: OTHERS

DOCUMENT SIZE: 3P

DOCKET DATE:

REPORT NBR:

RECP:

ORG: LEAR G

TASK NBR:

FICHE NBR :

NOTARIZED: NO

LPDR: YES

RECP AFFILIAT

ORG AFFILIAT

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

50

03/22/78

331

C

ACCESSION NBR: 78096-0205

DOCUMENT TYPE: AMENDMENT

DOCUMENT SIZE: 2P+2P+11P

DOCKET DATE:

REPORT NBR:

RECP: ARNOLD D

ORG: LEAR G

TASK NBR:

FICHE NBR :

NOTARIZED: N

LPDR: YE

RECP AFFILIA

ORG AFFILIAT

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

50

03/22/78

331

C

ACCESSION NBR: 78097-0212

DOCUMENT TYPE: LETTER

DOCUMENT SIZE: 1P

DOCKET DATE:

REPORT NBR:

RECP: KEPPLER J G

ORG: HAMMOND E L

TASK NBR:

FICHE NBR :

NOTARIZED: Y

LPDR: YE

RECP AFFILIA

ORG AFFILIA

SUBJECT: NOTIFICATION OF THE LOSS OF AN ENVIR

POOR ORIGINAL

1489 350



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

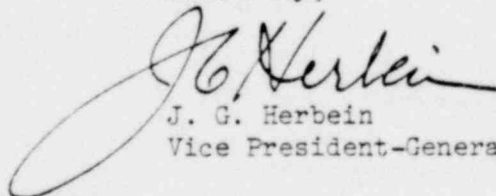
In response to Amendment 40 of the TMI-1 Facility Operating License No. DPR-50, paragraph 2.c.(3), the 100% Full Power Core Power Distribution Test was performed on May 31, 1978 with 25.05 EFPD on TMI-1 Cycle 4. The two enclosed pages show the radial and total peaking factors for an eighth core.

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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781720167

App
5/11

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

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

Power Level 100 %FP

Effective Full Power Days 25.05 EFPD

% wd.

Gp. 1-4	<u>100</u>
Gp. 5	<u>100</u>
Gp. 6	<u>100</u>
Gp. 7	<u>93</u>
Gp. 8	<u>29</u>

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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

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

Power Level 100 %FP

Effective Full Power Days 25.05 EFPD

% wd.

Gp. 1-4	<u>100</u>
Gp. 5	<u>100</u>
Gp. 6	<u>100</u>
Gp. 7	<u>93</u>
Gp. 8	<u>29</u>

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