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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards data re: heat loads for spray pond analysis, per 840410 request for addl info. Data reflects total heat rate to ponds as well as heat rate w/o solar or radiation loads.

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Pennsylvania Power & Light Company

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

JUL 23 1984

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO REQUEST FOR ADDITIONAL
INFORMATION ON SPRAY POND

ER 100450 FILE 841-8
PLA-2255

Docket Nos. 50-387
50-388

Reference: Letter, PLA-2107, B. D. Kenyon to A. Schwencer, dated
April 10, 1984.

Dear Mr. Schwencer:

In response to your staff's request for additional information regarding the
referenced letter, please find attached the heat loads for the spray pond
analysis. These values reflect:

1. The total heat rate to the pond as well as the heat rate without
solar or radiation loads.
2. Heat loads for a LOCA in one unit and safe shutdown of the other
unit.

This data is for the Minimum Heat Transfer case only. Since the peak pond
temperature occurs in the first 2 to 3 days, only the first 4 days of the
transient are provided.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

Attachment

cc: R. L. Perch - USNRC
R. O. Gonzales - USNRC

Mr. T. M. Gerusky, Director
Bureau of Radiation Protection Resources
Commonwealth of Pennsylvania
P.O. Box 2063
Harrisburg, PA 17120

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PDR AD0CK 05000387
P PDR

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TABLE 1

TIME	TOTAL HEAT RATE TO THE POND BTU/HR	HEAT RATE WITHOUT SOLAR HEAT LOADS AND RADIATION LOADS BTU/HR
0 days 0 hours	0	0
0 days 11 min	2.3035 + 08	2.1436 + 08
0 days 15 min	2.3924 + 08	2.2325 + 08
0 days 20 min	2.4890 + 08	2.3291 + 08
0 days 30 min	2.6139 + 08	2.4540 + 08
0 days 40 min	2.6861 + 08	2.5262 + 08
0 days 50 min	2.7688 + 08	2.6089 + 08
0 days 1 hours 0 min	2.8552 + 08	2.6953 + 08
0 days 1 hours 30 min	3.0758 + 08	2.9159 + 08
0 days 3 hours	4.3872 + 08	4.2273 + 08
0 days 6 hours	2.8625 + 08	2.7026 + 08
0 days 9 hours	2.4316 + 08	2.2717 + 08
0 days 12 hours	2.2011 + 08	2.0412 + 08
0 days 15 hours	2.1042 + 08	1.9443 + 08
0 days 18 hours	2.0688 + 08	1.9089 + 08
0 days 21 hours	1.8479 + 08	1.6880 + 08
1 days 0 hours	1.8046 + 08	1.6447 + 08
1 days 3 hours	1.6713 + 08	1.5343 + 08
1 days 6 hours	1.6638 + 08	1.5268 + 08
1 days 9 hours	1.6581 + 08	1.5211 + 08
1 days 12 hours	1.6549 + 08	1.5179 + 08
1 days 15 hours	1.5154 + 08	1.3784 + 08
1 days 18 hours	1.4882 + 08	1.3512 + 08
1 days 21 hours	1.4781 + 08	1.3411 + 08
2 days 0 hours	1.4752 + 08	1.3382 + 08

AP010.0-B2 REV. 1

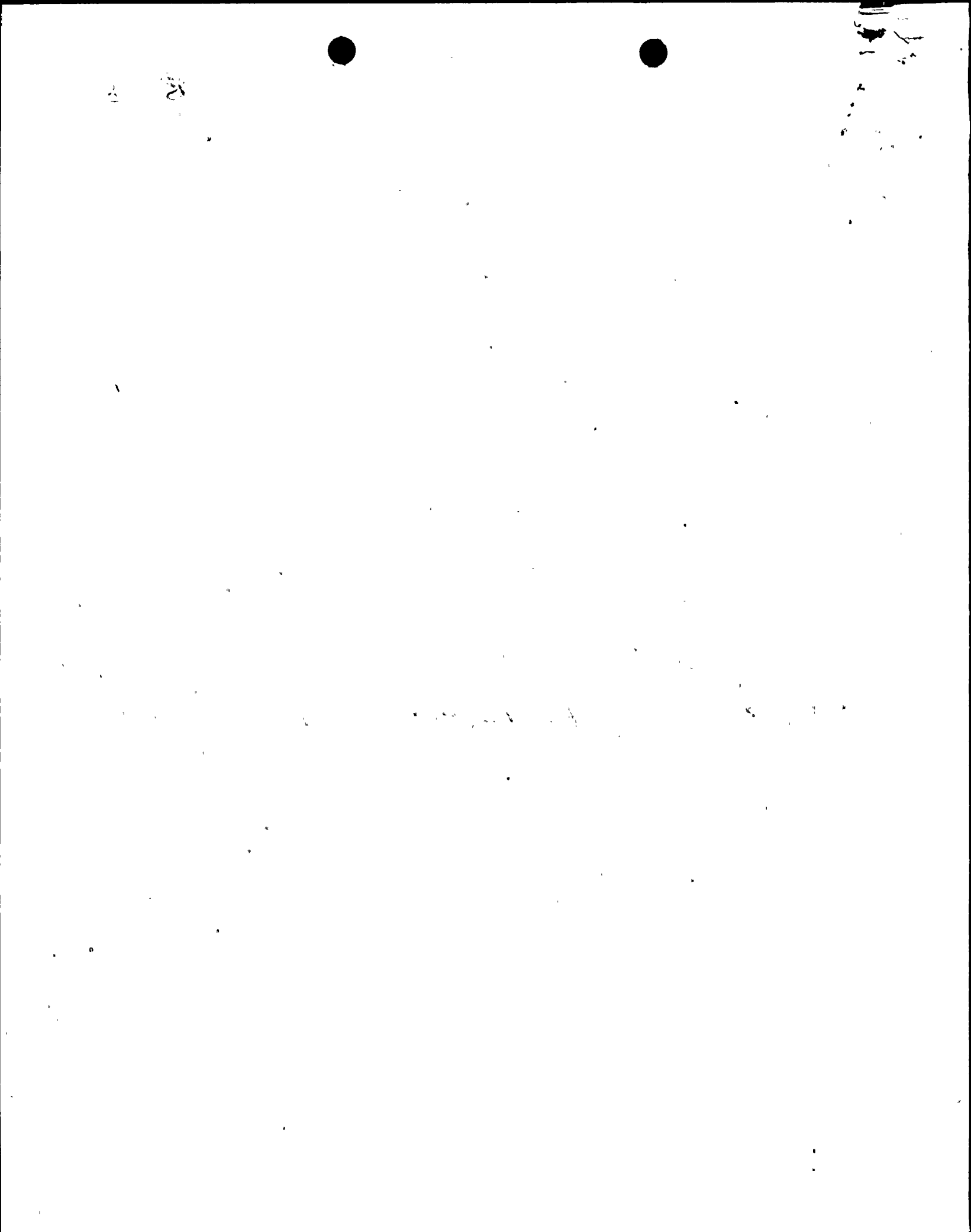


TABLE I (CONTINUATION)

TIME	TOTAL HEAT RATE TO THE POND BTU/HR	HEAT RATE WITHOUT SOLAR HEAT LOADS AND RADIATION LOADS BTU/HR
2 days 3 hours	1.4995 +08	1.3374 +08
2 days 6 hours	1.4977 +08	1.3356 +08
2 days 9 hours	1.4936 +08	1.3315 +08
2 days 12 hours	1.4916 +08	1.3295 +08
2 days 15 hours	1.4063 +08	1.2442 +08
2 days 18 hours	1.3890 +08	1.2269 +08
2 days 21 hours	1.3855 +08	1.2234 +08
3 days 0 hours	1.3876 +08	1.2255 +08
3 days 3 hours	1.3722 +08	1.2272 +08
3 days 6 hours	1.3706 +08	1.2256 +08
3 days 9 hours	1.3672 +08	1.2222 +08
3 days 12 hours	1.3647 +08	1.2197 +08
3 days 15 hours	1.3144 +08	1.1694 +08
3 days 18 hours	1.3043 +08	1.1593 +08
3 days 21 hours	1.3015 +08	1.1565 +08
4 days 0 hours	1.3013 +08	1.1563 +08

AP010.G-B2 REV. 1

