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L60-94(12-28)-LP
8F.120

Illinois Power Company
500 South 27th Street
P.O. Box 511
Decatur, IL 62525-1805

December 28, 1994

Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Mr. Stephen F. Nightingale, P.E.
Acting Manager, Industrial Unit
Permit Section
Division of Water Pollution Control
Bureau of Water

Mr. Nightingale:

**Re: Clinton Power Station;
1994 Summer Temperature Monitoring Data in Salt Creek
Below Clinton Lake Dam**

Provision (b) of Illinois Pollution Control Board Order 92-142 requires IP to continuously monitor temperatures in Salt Creek immediately below the Clinton Lake dam during the months of June, July, and August. In accordance with this requirement, IP monitored temperatures in Salt Creek at a depth of approximately 0.5 m approximately 100 feet below the dam spillway during June, July, and August of this year. The temperature data collected during this monitoring period is summarized on the enclosed tables and depicted on the enclosed charts.

Daily instantaneous temperatures in Salt Creek during the month of June ranged from 70.3°F to 89.5°F and averaged 78.1°F. During July, daily instantaneous temperatures ranged from 77.7°F to 83.3°F and averaged 80.1°F. Daily temperatures during August ranged from 75.7°F to 80.9°F and averaged 77.3°F.

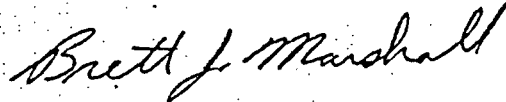
The greatest instantaneous temperature observed during the monitoring period was 89.5°F and this temperature occurred on both June 18 and June 19. The greatest average daily temperature observed during the monitoring period was 87.2°F and this average daily temperature occurred on June 19.

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Please feel free to call me (217-424-6833) or Tom Davis (217-424-7322) if you have questions regarding the enclosed data you would like to discuss.

Sincerely,

ILLINOIS POWER COMPANY



Brett J. Marshall
Group Leader - Water
Environmental Affairs Department -A-17

NIGTGLE2.TLD:dmc

cc: W. S. Iliff/S. F. Buck - V-920
P. A. Mergen/W. Scott Klein/S. G. Massie - T-31C
R. L. Christman - T-33
T. L. Davis/CPS NPDES Notebook File - A-17

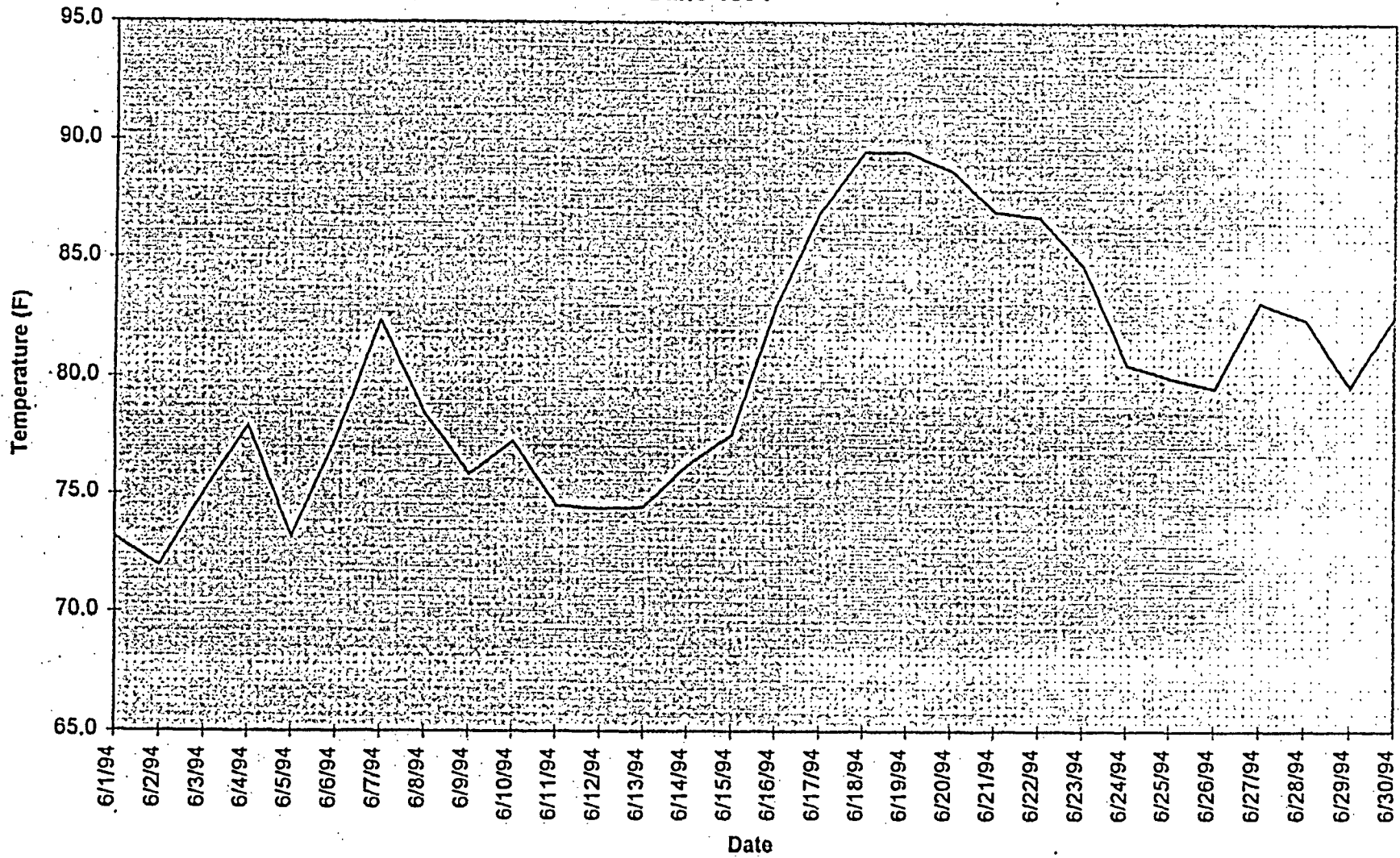
Minimum, Average, and Maximum Daily Temperatures in Salt Creek
below
Clinton Lake Dam (Site 1.5)

June 1994

Date	Minimum Daily Temperature (F)	Average Daily Temperature (F)	Maximum Daily Temperature (F)
6/1/94	72.1	72.7	73.1
6/2/94	70.5	71.4	71.9
6/3/94	70.3	72.1	75.1
6/4/94	70.8	73.6	77.9
6/5/94	71.2	72.3	73.1
6/6/94	71.9	74.3	77.3
6/7/94	74.5	77.5	82.3
6/8/94	74.3	76.3	78.4
6/9/94	73.5	74.6	75.8
6/10/94	73.5	75.1	77.2
6/11/94	72.1	73.5	74.5
6/12/94	72.1	72.9	74.4
6/13/94	72.9	73.5	74.4
6/14/94	74.1	75.1	76.2
6/15/94	75.8	76.4	77.5
6/16/94	77.6	79.9	82.9
6/17/94	81.1	84.0	87.0
6/18/94	84.5	86.9	89.5
6/19/94	85.7	87.2	89.5
6/20/94	85.0	86.5	88.7
6/21/94	83.7	85.2	87.0
6/22/94	83.5	84.8	86.7
6/23/94	80.4	82.1	84.6
6/24/94	78.8	79.6	80.5
6/25/94	78.3	79.0	80.0
6/26/94	78.5	78.9	79.5
6/27/94	78.1	80.2	83.1
6/28/94	77.5	80.5	82.4
6/29/94	76.7	77.9	79.6
6/30/94	76.2	79.4	82.5
Minimum	70.3	71.4	71.9
Average	76.5	78.1	80.1
Maximum	85.7	87.2	89.5

Maximum Daily Temperatures in Salt Creek at Site 1.5

June 1994



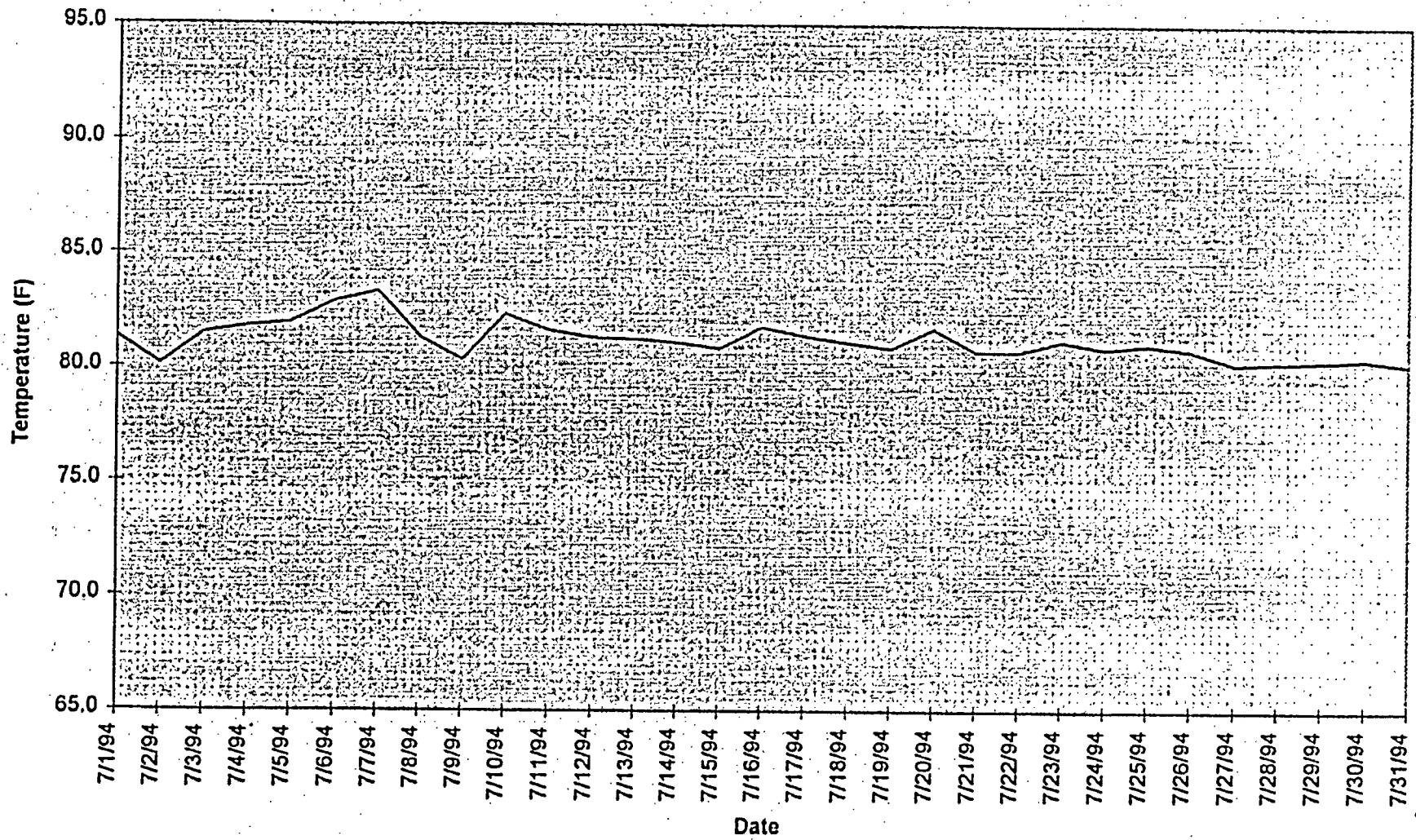
Minimum, Average, and Maximum Daily Temperatures in Salt Creek
below
Clinton Lake Dam (Site 1.5)

July 1994

Date	Minimum Daily Temperature (F)	Average Daily Temperature (F)	Maximum Daily Temperature (F)
7/1/94	78.8	79.9	81.3
7/2/94	78.3	79.2	80.1
7/3/94	78.2	79.8	81.5
7/4/94	79.7	80.5	81.8
7/5/94	79.0	80.1	82.0
7/6/94	79.3	81.2	82.9
7/7/94	80.9	82.3	83.3
7/8/94	78.3	80.1	81.3
7/9/94	77.7	78.9	80.4
7/10/94	77.7	79.7	82.3
7/11/94	78.6	79.9	81.6
7/12/94	78.8	79.8	81.3
7/13/94	78.6	79.9	81.3
7/14/94	79.0	80.4	81.1
7/15/94	78.7	79.6	80.9
7/16/94	79.5	80.7	81.8
7/17/94	79.8	80.8	81.4
7/18/94	79.7	80.4	81.1
7/19/94	79.8	80.3	80.9
7/20/94	79.8	80.7	81.7
7/21/94	79.5	80.0	80.7
7/22/94	79.7	80.1	80.7
7/23/94	79.6	80.2	81.2
7/24/94	79.8	80.2	80.9
7/25/94	79.7	80.3	81.0
7/26/94	79.7	80.1	80.8
7/27/94	79.5	79.7	80.2
7/28/94	78.8	79.4	80.3
7/29/94	78.9	79.5	80.4
7/30/94	78.9	79.6	80.4
7/31/94	78.8	79.5	80.2
Minimum	77.7	78.9	80.1
Average	79.1	80.1	81.2
Maximum	80.9	82.3	83.3

Maximum Daily Temperatures in Salt Creek at Site 1.5

July 1994



Minimum, Average, and Maximum Daily Temperatures in Salt Creek
below
Clinton Lake Dam (Site 1.5)

August 1994

Date	Minimum Daily Temperature (F)	Average Daily Temperature (F)	Maximum Daily Temperature (F)
8/1/94	79.1	79.6	80.3
8/2/94	79.1	79.7	80.6
8/3/94	79.5	80.1	80.9
8/4/94	78.3	79.3	79.6
8/5/94	77.6	78.2	79.1
8/6/94	77.1	77.7	78.2
8/7/94	76.9	77.5	78.2
8/8/94	77.3	77.8	78.7
8/9/94	76.3	77.2	78.1
8/10/94	76.8	77.1	77.4
8/11/94	76.4	76.8	77.1
8/12/94	76.2	76.6	77.2
8/13/94	76.2	76.7	77.5
8/14/94	76.2	76.7	77.5
8/15/94	75.7	76.2	76.8
8/16/94	75.7	76.5	77.5
8/17/94	76.2	77.0	77.9
8/18/94	76.3	76.8	77.5
8/19/94	76.2	76.7	77.4
8/20/94	76.4	77.0	77.6
8/21/94	76.2	76.8	77.4
8/22/94	76.2	77.0	77.9
8/23/94	76.5	77.2	78.1
8/24/94	76.4	77.0	77.5
8/25/94	76.3	77.3	78.2
8/26/94	77.2	77.5	78.0
8/27/94	77.2	77.8	78.7
8/28/94	76.9	77.4	77.8
8/29/94	76.1	76.8	77.5
8/30/94	76.4	76.8	77.0
8/31/94	76.0	76.7	76.9
Minimum	75.7	76.2	76.8
Average	76.7	77.3	78.0
Maximum	79.5	80.1	80.9

Maximum Daily Temperatures in Salt Creek at Site 1.5

August 1994

