



An Illinova Company

O-601917  
December 31, 1998  
BJM98021

008:ER  
Illinois Power Company  
P.O. Box 511  
Decatur, IL 62525-0511

Mr. Stephen F. Nightingale, P.E.  
Acting Manager, Industrial Unit  
Illinois Environmental Protection Agency  
Permit Section, Division of Water Pollution Control  
Bureau of Water  
P.O. Box 19276  
Springfield, IL 62794-9276

Dear Mr. Nightingale:

Illinois Power Company - Clinton Power Station  
NPDES Permit No. IL0036919  
1998 Summer Temperature Monitoring Data In Salt Creek Below Dam

Provision (b) of Illinois Pollution Control Board Order 92-142 requires Illinois Power Company (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 and Special Condition 8 of Clinton Power Station's NPDES permit, IP monitored temperatures in Salt Creek at a depth of approximately 0.5 m, approximately 100 feet downstream of 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.

Please note that for the month of August, data is listed only through the 11<sup>th</sup>. Two self-contained temperature monitors are placed downstream of the spillway. [These self-contained monitors collect, log, and store the data.] One of the temperature monitors failed to collect data past August 11<sup>th</sup> and the backup monitor failed to store data for any of the three months. These same temperature monitors were used in the past and had worked reliably until this past summer. Since these monitors are older and now unreliable, Illinois Power plans to replace them prior to the temperature monitoring requirement period in 1999.

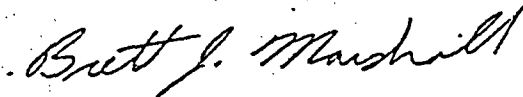
Clinton Power Station has not operated since September 1996 and therefore, the temperature of the water in Clinton Lake and below the spillway would be reflective of the ambient temperature.

Daily instantaneous temperatures in Salt Creek during the month of June ranged from 67.1°F to 80.1°F and averaged 72.5°F. During July, daily instantaneous temperatures ranged from 78.2°F to 84.7°F and averaged 81.3°F. Daily temperatures in August ranged from 78.0°F to 82.5°F and averaged 79.4°F.

Please feel free to call Natalie Locke at 217/424-7087 or me at 217/424-6833 if you have any questions regarding the enclosed data.

Sincerely,

Illinois Power Company

A handwritten signature in cursive script that reads "Brett J. Marshall".

Brett J. Marshall  
Group Leader - Water

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

June, 1998

| Date       | Minimum Daily Temperature (°F) | Average Daily Temperature (°F) | Maximum Daily Temperature (°F) |
|------------|--------------------------------|--------------------------------|--------------------------------|
| 06/01/1998 | 70.9                           | 71.8                           | 73.1                           |
| 06/02/1998 | 71.0                           | 71.8                           | 72.4                           |
| 06/03/1998 | 71.0                           | 71.4                           | 71.9                           |
| 06/04/1998 | 70.4                           | 70.7                           | 70.9                           |
| 06/05/1998 | 69.0                           | 69.7                           | 70.3                           |
| 06/06/1998 | 68.8                           | 69.1                           | 70.0                           |
| 06/07/1998 | 68.3                           | 68.6                           | 69.0                           |
| 06/08/1998 | 67.7                           | 68.3                           | 68.9                           |
| 06/09/1998 | 67.1                           | 67.5                           | 68.0                           |
| 06/10/1998 | 67.7                           | 69.2                           | 71.2                           |
| 06/11/1998 | 67.6                           | 69.2                           | 71.5                           |
| 06/12/1998 | 67.6                           | 68.7                           | 70.7                           |
| 06/13/1998 | 68.9                           | 70.6                           | 71.9                           |
| 06/14/1998 | 70.6                           | 71.1                           | 71.6                           |
| 06/15/1998 | 70.5                           | 71.4                           | 72.9                           |
| 06/16/1998 | 70.5                           | 70.8                           | 71.4                           |
| 06/17/1998 | 70.8                           | 71.3                           | 71.8                           |
| 06/18/1998 | 71.6                           | 72.2                           | 72.7                           |
| 06/19/1998 | 71.1                           | 71.7                           | 72.5                           |
| 06/20/1998 | 72.5                           | 73.1                           | 74.0                           |
| 06/21/1998 | 73.7                           | 74.8                           | 76.9                           |
| 06/22/1998 | 74.7                           | 75.4                           | 76.1                           |
| 06/23/1998 | 74.8                           | 75.6                           | 76.6                           |
| 06/24/1998 | 74.5                           | 75.6                           | 76.7                           |
| 06/25/1998 | 73.4                           | 75.1                           | 77.0                           |
| 06/26/1998 | 74.8                           | 76.1                           | 78.4                           |
| 06/27/1998 | 76.6                           | 77.7                           | 79.8                           |
| 06/28/1998 | 78.4                           | 79.5                           | 80.0                           |
| 06/29/1998 | 77.2                           | 79.4                           | 80.1                           |
| 06/30/1998 | 77.8                           | 78.6                           | 79.4                           |
|            |                                |                                |                                |
| Minimum    | 67.1                           | 67.5                           | 68.0                           |
| Average    | 71.6                           | 72.5                           | 73.6                           |
| Maximum    | 78.4                           | 79.5                           | 80.1                           |

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

July, 1998

| Date       | Minimum Daily Temperature (°F) | Average Daily Temperature (°F) | Maximum Daily Temperature (°F) |
|------------|--------------------------------|--------------------------------|--------------------------------|
| 07/01/1998 | 78.2                           | 79.0                           | 79.8                           |
| 07/02/1998 | 79.1                           | 80.4                           | 82.3                           |
| 07/03/1998 | 80.1                           | 80.5                           | 81.5                           |
| 07/04/1998 | 79.5                           | 80.6                           | 82.0                           |
| 07/05/1998 | 79.8                           | 80.5                           | 81.5                           |
| 07/06/1998 | 80.0                           | 80.5                           | 81.3                           |
| 07/07/1998 | 80.0                           | 80.5                           | 80.7                           |
| 07/08/1998 | 80.0                           | 81.1                           | 83.0                           |
| 07/09/1998 | 80.6                           | 81.1                           | 82.2                           |
| 07/10/1998 | 80.2                           | 81.4                           | 82.6                           |
| 07/11/1998 | 80.9                           | 81.7                           | 82.8                           |
| 07/12/1998 | 80.3                           | 81.6                           | 83.2                           |
| 07/13/1998 | 80.8                           | 82.2                           | 84.3                           |
| 07/14/1998 | 82.0                           | 82.6                           | 83.6                           |
| 07/15/1998 | 81.2                           | 81.6                           | 82.0                           |
| 07/16/1998 | 80.6                           | 82.0                           | 83.5                           |
| 07/17/1998 | 80.7                           | 81.4                           | 82.3                           |
| 07/18/1998 | 80.5                           | 81.3                           | 82.6                           |
| 07/19/1998 | 79.8                           | 81.2                           | 82.0                           |
| 07/20/1998 | 81.6                           | 82.3                           | 83.2                           |
| 07/21/1998 | 80.7                           | 81.7                           | 83.2                           |
| 07/22/1998 | 81.2                           | 81.8                           | 82.4                           |
| 07/23/1998 | 81.1                           | 82.2                           | 83.7                           |
| 07/24/1998 | 81.0                           | 82.0                           | 83.6                           |
| 07/25/1998 | 80.6                           | 82.3                           | 84.7                           |
| 07/26/1998 | 80.6                           | 81.5                           | 82.6                           |
| 07/27/1998 | 79.9                           | 81.0                           | 82.6                           |
| 07/28/1998 | 79.8                           | 80.2                           | 80.7                           |
| 07/29/1998 | 79.8                           | 81.9                           | 84.5                           |
| 07/30/1998 | 80.6                           | 81.6                           | 82.9                           |
| 07/31/1998 | 79.4                           | 80.7                           | 82.1                           |
|            |                                |                                |                                |
| Minimum    | 78.2                           | 79.0                           | 79.8                           |
| Average    | 80.3                           | 81.3                           | 82.6                           |
| Maximum    | 82.0                           | 82.6                           | 84.7                           |

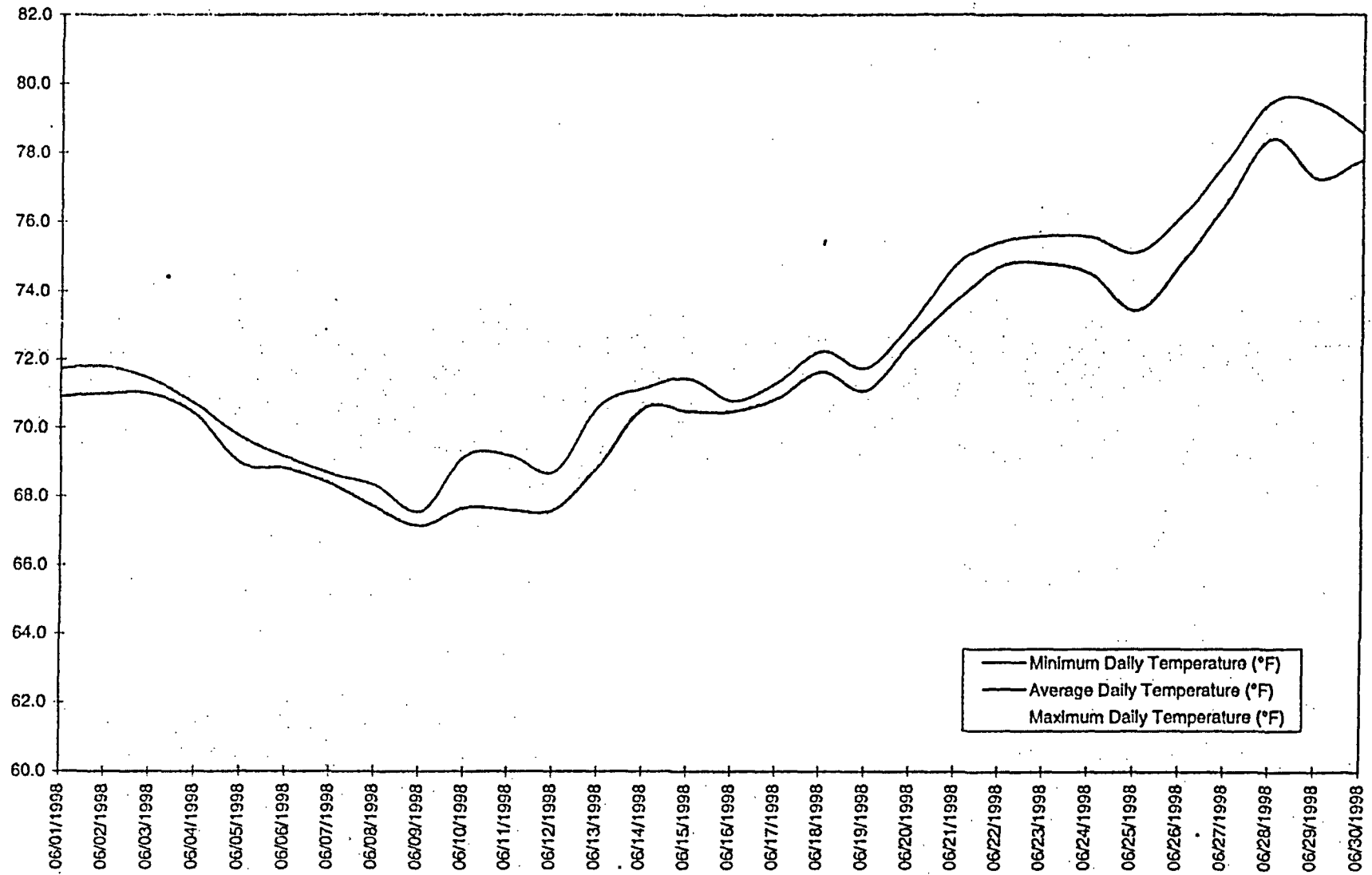
Minimum, Average, and Maximum Daily Temperatures In Salt Creek Below Clinton Lake Dam  
(Site 1.5)

August, 1998

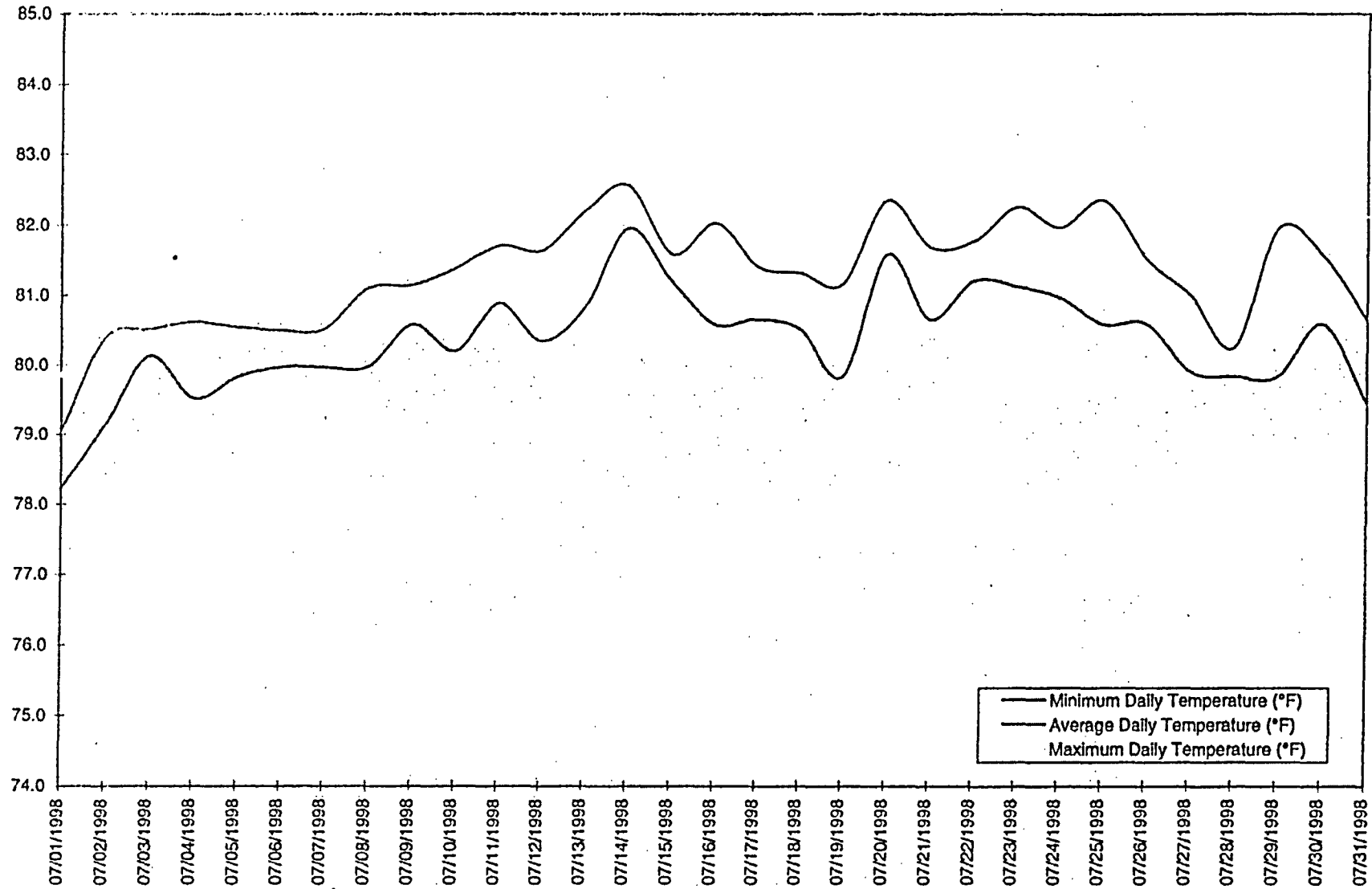
| Date       | Minimum Daily Temperature (°F) | Average Daily Temperature (°F) | Maximum Daily Temperature (°F) |
|------------|--------------------------------|--------------------------------|--------------------------------|
| 08/01/1998 | 79.1                           | 80.1                           | 81.3                           |
| 08/02/1998 | 79.1                           | 80.0                           | 81.2                           |
| 08/03/1998 | 79.3                           | 79.7                           | 80.2                           |
| 08/04/1998 | 79.0                           | 79.5                           | 80.3                           |
| 08/05/1998 | 78.8                           | 79.1                           | 79.5                           |
| 08/06/1998 | 78.5                           | 78.8                           | 79.3                           |
| 08/07/1998 | 78.4                           | 78.5                           | 78.8                           |
| 08/08/1998 | 78.2                           | 78.3                           | 78.6                           |
| 08/09/1998 | 78.0                           | 79.6                           | 82.5                           |
| 08/10/1998 | 78.5                           | 79.6                           | 80.9                           |
| 08/11/1998 | 78.8                           | 79.9                           | 81.7                           |
| 08/12/1998 | *                              | *                              | *                              |
| 08/13/1998 | *                              | *                              | *                              |
| 08/14/1998 | *                              | *                              | *                              |
| 08/15/1998 | *                              | *                              | *                              |
| 08/16/1998 | *                              | *                              | *                              |
| 08/17/1998 | *                              | *                              | *                              |
| 08/18/1998 | *                              | *                              | *                              |
| 08/19/1998 | *                              | *                              | *                              |
| 08/20/1998 | *                              | *                              | *                              |
| 08/21/1998 | *                              | *                              | *                              |
| 08/22/1998 | *                              | *                              | *                              |
| 08/23/1998 | *                              | *                              | *                              |
| 08/24/1998 | *                              | *                              | *                              |
| 08/25/1998 | *                              | *                              | *                              |
| 08/26/1998 | *                              | *                              | *                              |
| 08/27/1998 | *                              | *                              | *                              |
| 08/28/1998 | *                              | *                              | *                              |
| 08/29/1998 | *                              | *                              | *                              |
| 08/30/1998 | *                              | *                              | *                              |
| 08/31/1998 | *                              | *                              | *                              |
|            |                                |                                |                                |
| Minimum    | 78.0                           | 78.3                           | 78.6                           |
| Average    | 78.7                           | 79.4                           | 80.4                           |
| Maximum    | 79.3                           | 80.1                           | 82.5                           |

\* Temperature monitor failed to record after the 11<sup>th</sup>.

Minimum, Average, and Maximum Daily Temperatures  
In Salt Creek Below Clinton Lake Dam (Site 1.5)  
June 1998



Minimum, Average, and Maximum Daily Temperatures  
In Salt Creek Below Clinton Lake Dam (Site 1.5)  
July 1998



Minimum, Average, and Daily Temperatures  
In Salt Creek Below Clinton Lake Dam (Site 1.5)  
August 1998

