Public Service of New Hampshire

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The Northeast Utilities System

September 24, 2010

Mr. Damien Houlihan, NPDES Industrial Team Leader
U.S. Environmental Protection Agency
Region 1 – New England
Office of Ecosystem Protection
5 Post Office Square, Mail Code OEP06-4
Boston, MA 02109-3912

Re: Public Service Company of New Hampshire
Schiller Station, Portsmouth, New Hampshire
National Pollutant Discharge Elimination System Permit No. NH0001473
Response to Information Request in support of NPDES Permit Reissuance

Dear Mr. Houlihan:

Public Service Company of New Hampshire (PSNH) is providing herein the first of three monthly reports which summarizes temperature data collected from the Schiller Station thermal plume study. This report covers the period from August 15 to September 14, 2010. The thermal discharge information is provided to support the renewal of NPDES Permit No. NH0001473 for Schiller Station in accordance with the Environmental Protection Agency's (EPA) May 4, 2010, Clean Water Act Section 308(a) Information Request, as clarified and amended by EPA's June 1 letter. The enclosed report dated September 20, 2010, was prepared for PSNH by Normandeau Associates, Inc (NAI).

In addition to the NAI report, three tables are attached to provide the unit specific information for the time frame as requested by EPA. The daily average discharge temperatures were not yet available for Unit 6, but the readings will be provided by September 30. A disc is also enclosed that contains all of the data collected by NAI.

Please contact me at (603) 634-2439 if you have any questions or need additional information.

Very truly yours,

Allan G. Palmer
Senior Engineer

UNIT 4

DATE	FLOW (MGD)	OUTPUT (MW-h)	MAXIMUM TEMP IN	AVERAGE TEMP OUT	MAXIMUM TEMP OUT
AUG 15	40.8	897.7	67.7	82.5	87.5
AUG 16	40.8	938.0	67.9	81.2	87.3
AUG 17	40.8	931.7	66.8	80.3	89.5
AUG 18	40.8	925.6	66.8	80.2	87.3
AUG 19	40.8	879.0	66.9	80.2	84.0
AUG 20	40.8	918.1	67.7	82.3	89.8
AUG 21	40.8	671.3	67.9	79.2	88.7
AUG 22	40.8	680.3	68.3	80.4	88.7
AUG 23	40.8	689.4	68.1	80.7	89.1
AUG 24	40.8	664.5	67.7	80.2	88.4
AUG 25	40.8	727.9	67.3	81.0	88.5
AUG 26	40.8	766.3	68.6	82.3	88.3
AUG 27	40.8	656.7	69.1	81.0	87.9
AUG 28	40.8	8.3	69.5	67.3	89.0
AUG 29	40.8	564.9	70.5	79.2	88.6
AUG 30	40.8	918.9	71.0	86.8	88.2
AUG 31	40.8	880.1	73.2	86.6	87.6
SEPT 1	40.8	866.6	75.0	87.4	91.6
SEPT 2	40.8	884.5	74.2	88.0	91.4
SEPT 3	40.8	892.9	75.9	87.3	92.1
SEPT 4	38.3	381.2	73.3	77.6	92.3
SEPT 5	40.8	0.0	70.8	66.7	73.1
SEPT 6	40.8	201.3	71.4	68.2	79.1
SEPT 7	36.6	0.0	72.7	62.8	67.8
SEPT 8	37.3	543.5	65.1	71.7	79.9
SEPT 9	40.8	484.9	63.7	69.0	78.8
SEPT 10	40.8	482.9	62.8	68.1	78.3
SEPT 11	40.8	294.8	61.8	65.0	75.6
SEPT 12	28.1	0.0	62.3	60.4	62.2
SEPT 13	35.7	503.8	62.7	70.7	78.3
SEPT 14	40.8	459.7	73.9	69.2	75.7

UNIT 5

DATE	FLOW (MGD)	OUTPUT (MW-h)	MAXIMUM TEMP IN	AVERAGE TEMP OUT	MAXIMUM TEMP OUT
AUG 15	41.8	1023.6	67.6	84.3	87.5
AUG 16	41.8	1019.5	67.4	82.6	87.3
AUG 17	41.8	1020.1	66.7	81.8	86.5
AUG 18	41.8	1021.5	66.5	82.0	86.6
AUG 19	41.8	1017.6	66.6	82.6	86.4
AUG 20	41.8	1016.3	67.3	84.0	87.0
AUG 21	41.8	1018.0	67.6	85.1	87.4
AUG 22	41.8	1017.7	68.0	86.1	88.1
AUG 23	41.8	1016.3	67.8	86.0	87.9
AUG 24	41.8	975.4	67.3	85.2	87.3
AUG 25	41.8	1017.6	67.4	85.9	87.5
AUG 26	41.8	1017.8	68.5	86.5	88.6
AUG 27	41.8	1016.9	69.0	87.1	89.3
AUG 28	41.8	1017.3	69.4	87.2	89.7
AUG 29	41.8	978.5	70.3	87.1	90.8
AUG 30	41.8	1014.3	70.9	88.1	91.2
AUG 31	41.8	997.1	73.4	88.4	92.3
SEPT 1	41.8	951.5	73.9	88.6	91.6
SEPT 2	41.8	965.1	74.6	89.2	92.2
SEPT 3	41.8	972.6	74.1	88.5	92.5
SEPT 4	41.8	976.5	74.5	88.2	92.7
SEPT 5	41.8	992.6	73.1	86.4	91.5
SEPT 6	41.8	1019.3	70.6	84.1	91.1
SEPT 7	41.8	1022.9	67.7	82.6	88.5
SEPT 8	41.8	1024.0	66.4	81.5	87.0
SEPT 9	41.8	1023.2	64.9	80.3	85.6
SEPT 10	41.8	1023.7	63.5	79.7	84.3
SEPT 11	41.8	1024.5	62.7	79.9	83.9
SEPT 12	41.8	1020.4	62.2	80.9	83.4
SEPT 13	41.8	1018.9	62.1	81.8	83.4
SEPT 14	41.8	1019.2	62.6	81.3	83.3

UNIT 6

DATE	FLOW (MGD)	OUTPUT (MW-h)	MAXIMUM TEMP IN	AVERAGE TEMP OUT	MAXIMUM TEMP OUT
AUG 15	41.8	917.7	67.1		86.9
AUG 16	41.8	938.8	67.2		86.3
AUG 17	41.8	938.4	66.4		85.9
AUG 18	41.8	934.4	66.3		85.8
AUG 19	41.8	878.6	66.3		85.8
AUG 20	41.8	909.0	66.9		86.5
AUG 21	41.8	669.8	67.3		80.7
AUG 22	41.8	743.7	67.5		82.2
AUG 23	41.8	717.5	67.2		83.8
AUG 24	41.8	617.1	67.4		80.7
AUG 25	41.8	676.3	66.8		80.4
AUG 26	41.8	737.5	68.2		85.7
AUG 27	41.8	674.1	68.8		82.6
AUG 28	41.8	664.8	69.0		83.0
AUG 29	41.8	822.1	69.9		90.1
AUG 30	41.8	923.6	70.5		90.4
AUG 31	41.8	898.1	73.5		91.6
SEPT 1	41.8	873.7	73.5		91.2
SEPT 2	41.8	890.0	74.1		90.9
SEPT 3	41.8	895.5	73.9		91.4
SEPT 4	41.8	688.5	74.0		90.6
SEPT 5	41.8	647.8	72.4		86.6
SEPT 6	41.8	655.3	69.9		83.0
SEPT 7	41.8	720.7	67.2		83.8
SEPT 8	41.8	758.3	65.9		82.3
SEPT 9	41.8	672.8	64.5		77.7
SEPT 10	41.8	677.4	63.2		76.9
SEPT 11	41.8	670.4	62.4		75.4
SEPT 12	41.8	666.6	61.9		75.3
SEPT 13	41.8	712.2	61.9		77.7
SEPT 14	41.8	688.7	62.1		76.4