



Duquesne Light

Nuclear Group
P.O. Box 4
Shippingport, PA 15077-0004

Telephone (412) 393-6000

March 24, 1994
NPD3VPO: 0198

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

NPDES Monthly Report, EPA Permit No. PA0025615

SUBJECT: Beaver Valley Power Station, Unit No. 1 and No. 2
BV-1 Docket No. 50-334, License No. DPR-66
BV-2 Docket No. 50-412, License No. NPF-73

Dear Sir:

Enclosed is a copy of the NPDES Monthly Report as submitted to the Pennsylvania Department of Environmental Resources.

Sincerely,

T. P. Noonan
Division Vice President
Nuclear Operations

DNH/trs

cc: J. D. Sieber
D. A. Orndorf
S. L. Pernick
N. R. Tonet
Central Fi'e

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The Nuclear Professionals

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Duquesne Light

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March 24, 1994
NPD3VPO: 0200

United States Environmental Protection Agency
Region III, Pennsylvania (3WM53)
Water Permits Branch
Water Management Division
841 Chestnut Street
Philadelphia, PA 19107

NPDES Monthly Report, EPA Permit No. PA0025615

Dear Sir:

This letter forwards a copy of our NPDES Monthly Report as submitted to the Pennsylvania Department of Environmental Resources, Bureau of Water Quality Management.

Sincerely,

T. P. Noonan
Division Vice President
Nuclear Operations

DNH/trs

Attachment

cc: J. D. Sieber
D. A. Orndorf
S. L. Pernick
N. R. Tonet
Central File



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Department of Environmental Resources
Bureau of Water Quality Management
400 Waterfront Drive
Pittsburgh, PA 15222

NPDES Monthly Report, EPA Permit Number PA0025615

Gentlemen:

NPDES Monthly Report for Duquesne Light Company, Beaver Valley Power Station for February 1994 is submitted for your consideration.

Please be advised that required techniques, even if performed properly, do not measure actual conditions with 100 percent accuracy 100 percent of the time, and therefore, some reported values in the attached DMRs may not represent actual conditions with absolute accuracy.

Sincerely,

T. P. Noonan
Division Vice President
Nuclear Operations

DNH/trs

Enclosure

cc: J. D. Sieber
D. A. Orndorf
S. L. Pernick
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Central File



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United States Environmental Protection Agency
Region III, Pennsylvania (3WM53)
Water Permits Branch
Water Management Division
841 Chestnut Street
Philadelphia, PA 19107

EPA Permit No. PA0025615 Reportable Occurrence

Dear Sir:

As required by the EPA Permit No. PA0025615, the following information is provided in regard to reportable occurrences at Beaver Valley Power Station.

EPA Discharge 213, Unit 2 Cooling Tower Pump House Sump, exceeded the daily maximum specification for total suspended solids (TSS) of 100 mg/l in February 1994. The February 17 and 24 samples were 143.5 mg/l and 141.3 mg/l producing a monthly average of 142.4 mg/l which also exceeded the monthly average specification of 30.0 mg/l.

The pump house sumps receive water from the cooling tower pump stuffing box leakage drains which is primarily from the circulating water system. The circulating water is recirculated river water having a total suspended solids concentration approximately equal to the river water. TSS has been higher than normal in the river water due to the periodic flooding which has occurred since the middle of January. This relationship was demonstrated on February 25 with a river water sample TSS of 161.3 mg/l and the Unit 2 circulating water TSS of 186.2 mg/l.

As the river water settles down and becomes less turbid, a decrease in TSS will occur in the circulating water which drains to the sump and will result in a discharge which is within the specification. Additionally, we are evaluating other options which could reduce the total suspended solids discharged and maintain compliance. Plant maintenance and operations have been working to insure that the stuffing box leakage is minimized. The cooling tower pumps were all repacked in the Fall of 1993 and are working properly. The estimated average flow for 213 with leakage collected from all four cooling tower pumps is about 1 gallon/minute.

Since the quality of discharge #213 is directly affected by river water quality and the TSS of the discharge is equal to or less than the river, then no environmental impact or harm is expected to result from this discharge.

Any impact is also limited by the small volume of discharge 213 and its dilution of over 30:1 which occurs as 213 is combined with outfalls 113 and 313 prior to final discharge of 013.

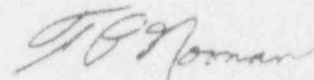
Discharge 313, Unit 2 oil and water separator #21 exceeded the daily maximum pH specification of 9.0 on February 22 when the sample pH was 9.5 at 09:05 AM.

The major source of water contributing to discharge 313 is the pump seal leakoff from secondary system pumps. Secondary system water is characterized by very high purity water maintained to a pH of 9.0 to 9.6 with a small amount of ammonia. Since only about 4 ppm of ammonia is necessary to produce this required level of pH in demineralized water, then the discharge pH of 9.5 on February 22 represents very little alkalinity. The water discharged from this outfall would be immediately buffered to a more neutral pH as the discharge combined with discharges 113 and 213 prior to final discharge at 013.

Efforts were taken following this sample to reduce the portion of water entering oil and water separator 21 from secondary systems. A resample taken at 6:21 PM on the same day was an acceptable 8.07. No further occurrences have happened to date.

If you have any questions concerning this report, please do not hesitate to contact David A. Orndorf.

Sincerely,



T. P. Noonan
Division Vice President
Nuclear Operations

DNH/ke

Attachment

cc: J. D. Sieber
D. A. Orndorf
S. L. Pernick
N. R. Tonet
Central File (2) - Keywords: NPDES Reportable Occurrence