



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

J. Andrews

AR-1605

RECEIVED

OCT 26 1992

DEPARTMENT OF ENVIRONMENTAL SERVICES

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

OCT 22 92

Mr. E. G. Legacy, Vice President
PSNH Merrimack Station
1000 Elm Street
P.O. Box 330
Manchester, NH 03105

Re: NPDES Permit No. NH0001465
Minor Modifications

Dear Mr. Legacy:

Mr. Alan Palmer of your staff and Mr. Jeffrey Andrews of the New Hampshire Department of Environmental Services have brought to our attention several administrative errors in your recently-issued NPDES permit.

These issues can be resolved expediently, since all of them are classified as minor permit modifications, 40 CFR 122.63.

A corrected copy of each modified page is attached for your convenience. The issues identified for correction are as follows:

1. Page 11 of 22. There should be a superscript "b" on the "Report" requirement, which refers to subparagraph "b". In this way the reporting requirements are not ambiguous. Currently there is no referenced superscript.
2. Page 12 of 22. The "River Water pH" reporting requirement can be deleted on this page, because it has been specified as a requirement on Page 8 of the permit; and, therefore, it is a redundant requirement.
3. Page 13 of 22. The "River Water pH" reporting requirement can be deleted on this page, because it has been specified as a requirement on Page 8 of the permit; and, therefore, it is a redundant requirement.



4. Page 13 of 22. Footnote "h" should be clarified as follows:
"The permittee shall report in the discharge monitoring reports which of the sumps was discharging at the time of the sample collection."
5. Page 14 of 22. Footnote "c" should be clarified as follows:
" Required only when an oil sheen is observed; otherwise report results of observation during rain events."
6. Page 21. of 22. The State Permit Condition, Part I.C.1.c. should read as follow: The permittee has determined that there is at least a three hour delay between discharges of treated wastewater from the wastewater treatment basins and the detection of the plume in the ash settling pond outfall. Therefore sampling conducted during chemical cleanings (Outfall 003B) must begin between three and four hours after the discharge from the wastewater treatment basins begin.
(Clarification of the three-hour residence time delay in sampling.)

These changes are effective immediately, unless we receive a written objection within thirty (30) days of your receipt of this letter.

We regret any inconvenience these errors may have caused. If you have any further questions, please contact Nicholas Prodany of my staff at 617-565-3587.

Sincerely,


David A. Fierra, Director
Water Management Division

attachments

cc: A.Palmer, PSNH
J.Andrews, NHDES
R.Harrington, EPA

PART I

Permit No. NH0001465
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 003B: Ash settling pond discharge during chemical cleaning.

a. Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Average Monthly</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (MGD)			Continuous	Continuous
Suspended Solids (mg/l)	30.0	19.1	Daily	Composite
Total Copper (mg/l)	1.0	0.077	Daily	Composite
Total Iron (mg/l)	15.0	1.0	Daily	Composite
Oil and Grease (mg/l)		20.0	Daily ^a	Grab
pH (range, in s.u.)		Report ^b	Continuous	Continuous

- b. Report the maximum and minimum values for the month.
- c. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- d. Chemical cleaning operations shall occur no more than 30 days during each year. The permittee shall notify the Director or designee at least 72 hours in advance of such operations and furnish an estimate of the length of time over which the operation shall occur and the chemicals to be used. Sampling shall begin at least 3 hours after the discharge from the wastewater treatment basins begins (see Parts I.C.1.c. and I.C.1.d.).
- e. The analytical results for each chemical cleaning operation shall be reported on a separate discharge monitoring report form.
- f. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Point of discharge prior to dilution with the circulating cooling water (at the weir).
- g. Required only when an oil sheen is observed; otherwise one grab sample per cleaning event.

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

7. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 004 (NB): MK-1 Screen Wash-water; MK-2 Screen Wash-water; MK-1 Screenhouse Floor Sump water; MK-2 Screenhouse Floor Sump water; MK-2 Screenhouse Roof Drain; and Fire Protection Overflow effluent subject to the following conditions:

a. Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Average Monthly</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (GPD)	---	Report	Annual	Estimate-total Grab ^{c,b}
Oil & Grease ^b (mg/l)	---	Report Range	Annual ^d	Grab ^{c,b}
pH ^{b,f} (range, in s.u.)	6.5 - 8.0		Annual	Grab ^{c,b}

NB Designated as Outfall(s) XXX and YYY in Form 2C of Application (5 separate pipes).

- b. Required for State Certification.
- c. Report range of results of grab samples of each of the 5 pipes.
- d. Annual sample only required if oil sheen is observed; otherwise report results of daily observation.
- e. All live fish, shellfish and other organisms collected or trapped on the intake screens should be returned to their habitat, sufficiently distant from the intake structures to prevent re-impingement. All solid materials except for naturally occurring materials such as leaves, branches, grass, and so forth will be removed from the screens shall have land disposal (see Part I.A.c.).
- f. The pH shall not be less than 6.5 standard units (s.u.) nor greater than 8.0 s.u., or as naturally occurs in the receiving water (see Part I.C.1.a.).
- g. There shall be no discharge of floating solids, oil sheen or visible foam in other than trace amounts.
- h. Samples taken in compliance with the monitoring requirements specified above shall be taken at some representative point prior to discharge to the receiving water.

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

8. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 005(NB): MK-1 Maintenance Sump discharge and MK-2 Maintenance Sump discharge subject to the following conditions:

- a. Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Average Monthly</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (GPD)	---	Report	Once/Annual- Outage	Estimate Total
Oil & Grease ^b (mg/l)		Report Range	Once/Annual ^d - Outage	Grab ^{c,b}
pH ^{b,e} (range, in s.u.)	6.5 - 8.0		Once/Annual- Outage	Grab ^{c,b}

NB Designated as Outfall(s) XXX in Form 2C of Application (4 separate pipes).

- b. Required for State Certification.
- c. Report range of results of grab samples of each pipe for which a discharge occurs.
- d. Sampling during the annual outage is only required if an oil sheen is observed; otherwise report the results of daily observation.
- e. The pH shall not be less than 6.5 standard units (s.u.) nor greater than 8.0 s.u., or as naturally occurs in the receiving water (see Part I.C.1.a.).
- f. There shall be no discharge of floating solids, oil sheen or visible foam in other than trace amounts.
- g. Samples taken in compliance with the monitoring requirements specified above shall be taken at some representative point prior to discharge to the receiving water.
- h^b. The permittee shall report in the discharge monitoring report which of the sumps was discharging at the time of the sample collection.

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

9. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 006(NB): Stormwater from the Southeast Yard Drain.
- a. Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Average Monthly</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow (GPD)	---	Report ^b	Annual	Estimate
Oil and Grease (mg/L)	---	Report	Annual ^c	Grab
TSS (mg/L)	---	Report	Annual	Grab
pH (range, in s.u.)		Report Range	Annual	4 Grabs

NB Designated as Outfall(s) XXX in Form 2C of Application.

- b. Report actual flow based on annual precipitation data or estimated flow derived from a 10 year, 24 hour rainfall event.
- c. Required only when an oil sheen is observed; otherwise report results of observation during rain events.
- d. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- e. Samples taken in compliance with the monitoring requirements specified above shall be taken at some representative point prior to discharge to the receiving water.

- receiving water or 2) that the naturally occurring source water pH is unaltered by the permittee's operations. The scope of any demonstration project must receive prior approval from the Division. In no case shall the above procedure result in pH limits less restrictive than any applicable federal effluent limitation guidelines.
- b. Within 30 days of the effective date of the permit, the permittee shall provide representative sampling locations for both Outfalls 001 and 002, upstream of any mixing with the cooling canal.
 - c. The permittee has determined that there is at least a three hour delay between discharges of treated wastewater from the wastewater treatment basins and the detection of the plume in the ash settling pond outfall. Therefore sampling conducted during chemical cleanings (Outfall 003B) must begin between three and four hours after the discharge from the wastewater treatment basins begin.
 - d. Weekend chemical cleaning discharges are prohibited unless provisions are made to allow for the collection by the NHDES of 24 hour composite samples during normal weekday working hours.
 - e. Coal pile runoff discharges to the ash settling basin are prohibited unless treated first in the wastewater treatment facility.
 - f. The permittee is authorized to discharge treated wastewater from the intake dredge de-watering lagoon via two 24 inch pipes. In addition to the conditions described in NH Wetlands Board Permit No. 88-1328 issued on April 30, 1991, or any subsequent revisions, the permittee shall insure that the discharges do not increase the naturally occurring turbidity of the Merrimack River by more than 10 nephelometric turbidity units.
2. This NPDES Discharge Permit is issued by the U.S. Environmental Protection Agency (EPA) under Federal and State law. Upon final issuance by the federal EPA, the Water Supply and Pollution Control Division may adopt this permit, including all terms and conditions, as a state discharge permit pursuant to RSA 485-A:13.