



**Public Service  
of New Hampshire**

AR-054

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PSNH Energy Park  
780 North Commercial Street, Manchester, NH 03101

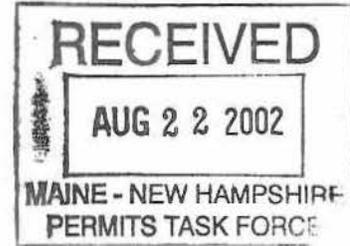
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August 16, 2002

The Northeast Utilities System

Fred Gay, NH NPDES Permit Coordinator  
U.S. Environmental Protection Agency  
Region 1  
Office of Ecosystem Protection  
New Hampshire State Program Unit (CPE)  
1 Congress Street, Suite 1100  
Boston, Massachusetts 02114-2023

John M. MacDonald  
Vice President - Operations



**Subject: Schiller Station NPDES Permit No. NH0001473  
Wastewater Treatment Plant Discharge (Outfalls 016 and 017)**

Dear Mr. Gay;

As you may recall, PSNH has investigated in great detail the feasibility of adding a diffuser to the wastewater treatment plant discharge pipe (Outfall 016/017) at Schiller Station, including cormix modeling and wetlands permitting. The goal of the research was to design a solution to allow the discharge to comply with stringent water quality-based copper limits that would likely be issued within the next permit cycle. PSNH has recently decided to abandon the diffuser concept and to employ the other option, repiping the discharge to the three cooling water systems (Outfalls 002, 003 and 004). This letter is to seek approval to install the new system this year.

A basic sketch is attached to show the proposed system. PSNH proposes to install a pumping station on the discharge side of the existing neutralizer and to reroute the 6-inch line to each of the three cooling water outfalls. The two pumps would be 0 to 100 gallon per minute capacity, one to serve only as backup. A new continuous flow monitoring system would be installed. The discharge can be directed to each of the three units to ensure that dilution is always available. The option provides the simplest and most effective solution, in terms of permitting, ease of installation, degree of dilution, and long term maintenance.

Our plan is to install the system as soon as approval is granted. Until the permit is reissued, PSNH would continue to monitor and report the discharge in the same manner as is presently done. Please call Allan Palmer, Senior Engineer, at 603-634-2439, to discuss this proposal further.

Very truly yours,

John M. MacDonald  
Vice President - Operations

Attachment

cc: Jeffrey G. Andrews - NHDES

# Schiller Station

Effluent from the  
Waste Treatment  
Plant 6" pipe

