



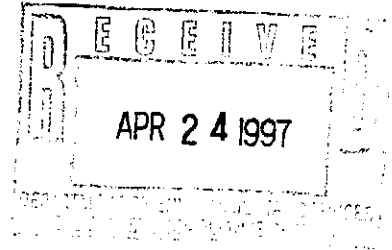
State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095

603-271-3503

FAX 603-271-2867

TDD Access: Relay NH 1-800-735-2964



April 22, 1997

Allan G. Palmer, Senior Engineer  
Public Service Company of New Hampshire (PSNH)  
1000 Elm Street, P.O. Box 330  
Manchester, New Hampshire 03105-0330

**Subject: Application for Certificate For Direct Reuse  
WMD Log # 199500225/Received May 11, 1995**

Dear Mr. Palmer:

The New Hampshire Department of Environmental Services, Waste Management Division (DES), has reviewed the subject application and all supporting supplementary information. Approval to use coal ash to produce controlled low strength materials (CLSM) is hereby granted, by issuance of the enclosed Certificate For Direct Re-use No. DES-SW-CR-97-001 (Certificate). The Certificate authorizes PSNH, Merrimack Station, located on River Road, Bow, New Hampshire and PSNH Schiller Station, located on Gosling Road, Portsmouth, New Hampshire to use the 70,000 tons of coal ash produced annually by the two facilities to produce CLSM, versus having to dispose of the fly ash as a solid waste.

If you have any questions or concerns regarding this letter, please contact Robert Tardif at (603) 271-2934.

Sincerely,

Michael E. Guilfoyle, P.E., Acting Section Supervisor  
Waste Management Engineering Bureau  
Waste Management Division

cc: Michael Sills, P.E., Ph.D., Chief Engineer, WMD  
PA&DRS files  
SWCS

AIR RESOURCES DIV.  
64 No. Main Street  
P.O. Box 2033  
Concord, N.H. 03302-2033  
Tel. 603-271-1370  
FAX 603-271-1381

WASTE MANAGEMENT DIV.  
6 Hazen Drive  
Concord, N.H. 03301  
Tel. 603-271-2900  
FAX 603-271-2456

WATER RESOURCES DIV.  
64 No. Main Street  
P.O. Box 2008  
Concord, N.H. 03302-2008  
Tel. 603-271-3406  
FAX 603-271-7894

WATER SUPPLY & POLLUTION CONTROL DIV.  
P.O. Box 95  
Concord, N.H. 03302-0095  
Tel. 603-271-3503  
FAX 603-271-2181



## CERTIFICATE FOR DIRECT REUSE

as authorized by the  
New Hampshire Department of Environmental Services, Waste Management Division (Department)  
pursuant to RSA 149-M and part Env-Wm 318 of the New Hampshire Solid Waste Rules (Rules)

### I. CERTIFICATE/WASTE IDENTIFICATION:

**Certificate No.:** DES-SW-CR-97-001

**Certificate Holder (Generator) Name/Address:** Public Service of New Hampshire, 1000 Elm Street,  
P.O. Box 330, Manchester, New Hampshire 03105

**Waste Type:** Coal Ash

**Waste Generation Site:** Public Service Company of New Hampshire, Merrimack Station, 97 River Road,  
Bow, NH /Schiller Station, Gosling Road, Portsmouth, NH

**Generation Rate:** 20,000 tons per year (Merrimack Station), 50,000 tons per year (Schiller Station)

### II. FILE REFERENCE/RECORD OF APPLICATION:

**Date(s) Received:** May 11, 1995

**WMD Log #(s):** 199500225

### III. AUTHORIZATION: Pursuant to Env-Wm 318, this certificate authorizes the GENERATOR (as identified in Section I above) to manage the WASTE TYPE (as identified in Section I above) as a marketable material, rather than as a waste, as specified in the attached Terms and Conditions

### IV. EFFECTIVE DATE: From date of signature below.

### V. AUTHORIZING SIGNATURE: This certificate shall be void if the process used to generate the waste changes or if subsequent analysis of the waste, for whatever reason, shows that it does not meet the requirements of Env-Wm 318.03(b) of the Rules. This certificate shall not apply if the waste is re-used for any purpose or in any manner not specified in Section III above or if any information cited by Section I or II above is false or erroneous.

**BY EXERCISING ANY RIGHTS UNDER THIS AUTHORIZATION, THE GENERATOR HAS AGREED TO ALL TERMS AND CONDITIONS OF THIS CERTIFICATE.** Failure to comply with the terms and conditions could result in civil or criminal penalties, suspension, or revocation of the certificate. No liability is incurred by the State of New Hampshire by reason of any approval of this certificate, nor does this certificate provide any endorsement by the Department for use of the waste derived product. Approval by the Department is based on information supplied by the applicant. No warranty/guarantee is intended or implied by reason of any advice given by the Department or its staff.

This certificate shall not eliminate the need to obtain all requisite federal, state or local permits, licenses or approvals, or to comply with all other applicable federal, state, district and local permits, ordinances, laws, approvals or conditions for the operation of the facility.

Philip J. O'Brien, Ph.D., Director  
Waste Management Division

April 22, 1997

Date

Permit No.: DES-SW-CR-97-001  
Permittee: Public Service of New Hampshire  
Facility Name: Merrimack Station/ Schiller Station  
Facility Location: 97 River Road Bow, NH/Gosling Road, Portsmouth, NH  
Date: April 22, 1997  
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## **TERMS AND CONDITIONS**

1. Coal ash generated at Merrimack and/or Schiller Stations may be reused to produce Controlled Low Strength Material (CLSM, a.k.a flowable fill) under the terms of this certificate.
2. Only coal ash generated at Merrimack and/or Schiller Stations shall be reused under the terms of this certificate.
3. The CLSM must be manufactured in accordance with the report from the American Concrete Institute titled, Controlled Low Strength Materials (CLSM) (ACI 229R-94, ACI, 1994)
4. CLSM manufactured using coal ash generated at Merrimack and Schiller Stations under the terms and conditions of this certificate and used in New Hampshire must be utilized in accordance with the guidance contained in the report entitled "The Effect of Freeze-Thaw and Frost Heave on Flowable Fill" by David Gress, P.E., Ph.D. (ref. WMD Log # 199700033)
5. The generator shall accordingly disclose to all users of this waste-derived product the nature and content of the product and its proper usage under the terms of this certificate.