



Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

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Secretary

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Commissioner

April 26, 2012

Chris October, P.E.
Browning Ferris Industries, Inc.
1080 airport Road
Fall River, Massachusetts 02720

RE: **ADMINISTRATIVE AMENDMENT to PLAN APPROVAL**
310 CMR 7.02(13)
Transmittal Number: X250582
Application Number: SE-12-008
Source Number: 120-0220

AT: Browning Ferris Industries, Inc.
Halifax Landfill
27 Laurel Street
Halifax, Massachusetts 02338

Dear Mr. October:

The Department of Environmental Protection (Department or MassDEP), Bureau of Waste Prevention (BWP), has completed its review of Browning Ferris Industries, Inc. (BFI) LPA/CPA Administrative Amendment application (SE-12-008) dated February 29, 2012 and revisions dated March 28, 2012 concerning landfill gas (LFG) combustion equipment at the BFI Halifax Landfill.

The application (SE-12-008) advised MassDEP of the following:

- BFI has decommissioned the enclosed flare that burned LFG under the October 12, 2001 Conditional Approval (4I01016);
- BFI has taken ownership and control of the open flare previously owned and operated by Gas Recovery Systems, LLC under the November 22, 2011 Plan Approval (4P10018); and
- The two LFG fired reciprocating engine/electric generator sets previously owned and operated by Gas Recovery Systems, LLC under the November 22, 2011 Plan Approval (4P10018) were shutdown on approximately June 30, 2010 and have been decommissioned since that time.

MassDEP pursuant to 310 CMR 7.02(13) Administrative Amendment to Plan Approval is issuing this Plan Approval for the open flare in the name of BFI and acknowledging the decommissioning of the enclosed flare at 27 Laurel Street, Halifax, Massachusetts.

The application was submitted in accordance with 310 CMR 7.00 Air Pollution Control Regulations adopted by the Department pursuant to the authority granted by Massachusetts General Laws, Chapter 111, Section 142A-J, Chapter 21C, Sections 4 and 6, and Chapter 21E, Section 6. The Department's review has been limited to air pollution regulation compliance and does not relieve you of the obligation to comply with all other permitting requirements.

The application was prepared by Heather Little, Senior Project Manager, Sanborn, Head and Associates, Inc. and submitted over the certification of Chris October, Area Environmental Engineer, BFI/Republic dated February 29, 2012.

The Department is of the opinion that the application as submitted is in conformance with current air pollution control engineering practices and 310 CMR 7.00 Air Pollution Control regulations. The Department hereby grants the Administrative Amendment to Plan Approval for the Open Flare subject to the following provisos:

A. OPERATION LIMITS:

1. Operate the flare at all times when the collected LFG is routed to the Unit.
2. The maximum heat input of LFG shall not exceed 7,890 MMBtu per month.
3. The maximum heat input of LFG shall not exceed 92,900 MMBtu in any consecutive twelve month period.
4. The hydrogen sulfide (H₂S) level of the LFG burned shall not exceed 200 ppm_v.

B. PRODUCTION LIMITS: (none)

C. EMISSION LIMITS:

1. The flare shall reduce NMOC emissions by 98 percent by weight.
2. Sound impacts shall not exceed 10 dB(A) above background and shall not cause a pure tone condition as defined in the Department's DAQC Policy No. 90-001.

3. The flare shall not exceed the following emission limits:

POLLUTANT	EMISSION LIMITS		
	lb/MMBtu	ton/month	ton/year
Nitrogen oxides (NO _x)	0.068	0.27	3.16
Carbon monoxide (CO)	0.37	1.46	17.19
Volatile organic compounds (VOC)	0.065	0.26	3.02
Particulates Matter (PM)	0.025	0.10	1.16
Particulate matter up to 10 microns in size (PM10)	0.025	0.10	1.16
Particulate matter up to 2.5 microns in size (PM2.5)	0.025	0.10	1.16
Sulfur dioxide (SO ₂)	0.066	0.26	3.07
Hydrogen chloride (HCl)	0.006	0.02	0.29

Note: -ton/year means tons per consecutive 12-month period.
 - PM10 and PM2.5 includes filterable and condensable.

4. The flare shall be operated with no visible emissions exception for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. 40 CFR 60 Appendix A Method 22 shall be used to determine compliance with the visible emission limit.

D. MONITORING AND RECORD KEEPING:

1. A LFG flow recorder shall be maintained so that a record of the volume of LFG fired by the flare will be available by date and time period. In consideration that the site is unmanned, a minimum record of one data point per week is acceptable. The record shall be maintained on-site or at the BFI, Fall River, Massachusetts office. If records are maintained off-site, the record(s) shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.
2. Records of the volume of LFG (scf) fired by the flare for each month and for each twelve month rolling period shall be maintained on-site or at the BFI, Fall River, Massachusetts office. If records are maintained off-site, the records shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.
3. Records of the heat input of LFG (Btu) fired by the flare, for each month and for each twelve month rolling period shall be maintained on-site or at the BFI, Fall River, Massachusetts office. If records are maintained off-site, the records shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request. These heat input records may be generated by gas chromatograph and/or field measurements taken once per week.
4. NO_x, CO, VOC, PM, PM10, PM2.5, SO₂ and HCl monthly and twelve month rolling period emission rate records for the flare shall be maintained on-site or at the BFI, Fall

River, Massachusetts office. If records are maintained off-site, the records shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.

5. A copy of the Standard Operating and Maintenance Procedures (SOMP) for the flare shall be maintained on-site or at the BFI, Fall River, Massachusetts office. If the SOMP are maintained off-site, the SOMP shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.
6. An operation log, or other record keeping system, shall be maintained on-site, or at the BFI, Fall River, Massachusetts office, at a level of detail sufficient to document that Section A - Operation Limits, and Section C - Emission Limits contained herein are not exceeded. If records are maintained off-site, the records shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.
7. All operating and monitoring records, including emission test reports, shall be maintained for the life of the facility; the five most recent years of records shall be maintained on-site or at the BFI, Fall River, Massachusetts office. If records are maintained off-site, the records shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request.

E. TESTING:

1. Compliance emission testing, if requested by the Department, shall be conducted in accordance with the test methods and procedures contained in 40 CFR Part 60 Appendix A or by other methods approved by the Department.

F. NOTIFICATIONS AND REPORTING:

1. All notifications and reporting required by this Plan Approval shall be made to the attention of:

Department of Environmental Protection
Bureau of Waste Prevention
20 Riverside Drive
Lakeville, Massachusetts 02347
ATTN: Compliance and Enforcement Section

Telephone: (508) 946-2817
Fax: (508) 947-6557

2. All revisions to the Standard Operating and Maintenance Procedures shall be submitted to the Department within seven (7) days from their initial use.

G. SPECIAL CONDITIONS:

1. Flare construction and design shall be consistent with Attachment No. 1, Equipment and Design Schedule.
2. This Plan Approval (SE-12-008) supersedes the October 12, 2001 (4I01016) Conditional Approval.

H. GENERAL CONDITIONS:

1. If any nuisance condition(s) should be generated by the operation of this facility, immediate appropriate steps shall be taken to abate the nuisance condition(s).
2. If asbestos remediation/removal should be required as a result of the approved construction, reconstruction, or alteration of this facility, removal/remediation of asbestos shall be done in accordance with Regulation 310 CMR 7.15 in its entirety and 310 CMR 4.00.
3. Department personnel shall be provided immediate access to the plant site, buildings, and all pertinent records for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.
4. This Plan Approval does not negate the responsibility to comply with other applicable Federal, State, or local regulations now or in the future.
5. This Plan Approval may be suspended, modified, or revoked by the Department if, at any time, the Department determines that any condition or part of this Plan Approval is being violated.
6. The Department's Compliance/Enforcement Chief for the Bureau of Waste Prevention at this office must be notified by telephone, or fax within 24 hours, and with written notification within 10 days, after the occurrence of any upsets or malfunctions to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the air and/or a condition of air pollution.
7. A record keeping system shall be established and maintained on-site or at the GRS Lockport, New York office. If data is maintained off-site, the data shall be provided to the Department within one (1) business day (Monday through Friday) from the date of the Department request. All records shall be maintained up-to-date such that the year-to-

date information is readily available for Department examination. Record keeping shall, at a minimum, include:

- a record of routine maintenance activities performed on emission unit control and monitoring equipment including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed; and
- a record of all malfunctions on emissions unit control and monitoring equipment shall include, at a minimum: the date and time the malfunctions occurred; a description of the malfunctions and the corrective actions taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the emission unit returned to compliance.

All records shall be kept for a minimum of five (5) years and shall be made available to Department personnel upon request.

8. Any proposed increase in emissions above the limits contained in this Plan Approval must first be approved in writing by the Department pursuant to the Department's Air Pollution Control Regulations. In addition, any increase may subject the facility to additional regulatory requirements.
9. The facility shall be constructed and operated in strict accordance with the application approved herein. Should there be any differences between these General Conditions or the aforementioned application, and this Plan Approval letter, this Plan Approval letter shall govern.
10. The emissions from the facility approved herein shall be reported on subsequent source Registrations as required by 310 CMR 7.12.
11. The ability of the facility to maintain emission rates at or below the levels stated in this approval letter shall be demonstrated to the Department in the future if deemed necessary.

The Department acknowledges that GRS has made a determination that the facility is not subject to 40 CFR Part 60, Subpart WWW - "Standards of Performance for Municipal Solid Waste Landfills" and 40 CFR 63, Subpart AAAA - "National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills" and all requirements there under. The Department has not accepted delegation of enforcement authority from EPA - New England, Region 1 for these Subparts. Therefore, EPA - New England, Region 1 is responsible for the enforcement and determination of applicability of these Subparts. Questions concerning this matter should be directed to the EPA - New England, Region 1.

The Department has determined that the filing of an Environmental Notification Form (ENF) with the Secretary of Environmental Affairs, for air quality control purposes, was not required prior to this action by the Department. Notwithstanding this determination, the Massachusetts Environmental Policy Act (MEPA) and Regulation 301 CMR 11.00, Section 11.04, provide

certain "Fail-Safe Provisions" which allow the Secretary to require the filing of an ENF and/or an Environmental Impact Report at a later time.

This Plan Approval is an action of the Department, you have a limited right to appeal. Please refer to the "APPEAL" information contained in Attachment No. 2 Appeal of Approval.

Enclosed is a stamped approved copy of the application submittal.

Should you have any questions regarding this Plan Approval, please contact the undersigned at (508) 946-2779.

Very truly yours,

*This final document copy is being provided to you electronically by the
Department of Environmental Protection. A signed copy of this document
is on file at the DEP office listed on the letterhead.*

John K. Winkler, Chief
Permit Section
Bureau of Waste Prevention

Enclosure

ecc: Board of Health, Halifax, MA
Suparna Chakladar, V.P., FORTISTAR Methane Group, Lockport, NY
Yi Tian, MassDEP, BWP, Boston, MA
Laurel Carlson, MassDEP, BWP, Lakeville, MA
Mark Dakers, MassDEP, BWP, Lakeville, MA
Laura Black, MassDEP, BWP, Lakeville, MA

Attachment No. 1

Browning Ferris Industries, Inc. – Halifax Landfill
EQUIPMENT AND DESIGN SCHEDULE

Open Flare

Manufacturer	LFG Specialties
Model No.	PCFT422I4
Max. Heat Input	10.6 MMBtu/hr
Pilot Fuel	Propane
Stack Material	carbon steel
Stack Height	22 feet above ground
Stack Exit Diameter	0.5 feet
Stack Top	Anti-Raptor Perching Device

Attachment No. 2

APPEAL OF APPROVAL

This Approval is an action of the Department. If you are aggrieved by this action, you may request an adjudicatory hearing. A request for a hearing must be made in writing and postmarked within twenty-one (21) days of the date you received this plan approval.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the plan approval is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, Massachusetts 02211

The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below.

The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

The Department may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.