

January 31, 2011

Mr. Frank A. Roberts
Associate VP, Facilities, Operations and Management
Dartmouth College
6111 McKenzie Hall
Hanover, NH 03755-3552

**Re: Minor Permit Amendment
Dartmouth College
6111 McKenzie Hall, Hanover, New Hampshire
Facility Identification #3300900020, Application #10-0195**

Dear Mr. Roberts:

The New Hampshire Department of Environmental Services, Air Resources Division (DES), has reviewed your request, received electronically on October 29, 2010 and physically on November 5, 2010, to amend Temporary Permit, TP-B-0545. Dartmouth College submitted the application to amend the permit to change the #2 fuel oil for use in Boiler #2 from the permitted sulfur content of 0.05 percent by weight to 0.40 percent by weight.

Since Dartmouth College is currently permitted to burn #6 fuel oil in Boiler #2 at 0.50 percent by weight, DES, in consultation with EPA, Region I, concurs that allowing the sulfur content of the #2 fuel oil to be increased from 0.05 percent by weight to 0.40 percent by weight would not constitute a modification under the Prevention of Significant Deterioration (PSD) and Non-Attainment New Source Review (NSR) programs. The emissions from burning #2 fuel oil were not the basis of the PSD and NSR avoidance limits established in TP-B-0545 because #6 fuel oil was the fuel that resulted in the higher potential to emit emission levels and #2 fuel oil would replace any #6 fuel oil burned in Boiler #2. Therefore, the maximum design capacity and fuel types listed in *Table 1 – Emission Unit Identification* for Boiler #2 (EU02) has been changed from #2 fuel oil at a sulfur content of 0.05 percent by weight to #2 fuel oil at a sulfur content of 0.40 percent by weight.

In addition, the requirement in TP-B-0545, Table 4, Item 1 which required compliance stack testing for NOx from Boiler #2 was corrected to include #6 fuel oil. The existing permit required testing for NOx when Boiler #2 was burning #2 fuel oil only. Dartmouth College conducted initial stack testing on Boiler #2 on both #6 and #2 fuel oil and will be required to do subsequent testing on both fuels as well.

DES has amended the permit in accordance with New Hampshire Code of Administrative Rules Env-A 612.03, *Minor Permit Amendments: Temporary Permits and State Permits to Operate*, to reflect the changes. DES will also consider the application portion of the documents submitted on October 29, 2010 as supplemental information to application #FY05-0028 filed on August 25, 2004 for the renewal of the Title V Operating Permit for Dartmouth College. Therefore, continued operation of the facility is covered under the application shield provisions of Env-A 609.08, *Application Shield*. Then amended permit is enclosed. Please note that the expiration date of the permit has not changed.

If you have any questions regarding the air permit, please contact Catherine Beahm of the Permitting & Environmental Health Bureau at (603) 271-2822 or via email at catherine.beahm@des.nh.gov.

Sincerely,



Robert R. Scott
Director
Air Resources Division

rrs/cab
By certified mail #7002 3150 0004 7245 2774

Enclosure: Amended Temporary Permit, TP-B-0545

cc: Donald Dahl, EPA Region I
Ian Miller, AECOM Environment
Town of Hanover