

512

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
SOUTHCENTRAL REGION
AIR QUALITY CONTROL PROGRAM

PLAN APPROVAL

APPROVAL NO. 06-1036 Source & Expandable Polystyrene
Owner/Operator: W. R. Grace & Co. - Conn. Air Foam Product Mfg.
Address: P. O. Box 295 Cleaning
Reading, PA 19603 Device
Attention: Mr. Thomas A. Hessen
Technical Director Location Formpac Division
 Muhlenberg Township
 Berks County

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and with Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department on 12/12/88 approved plans for the modification of the above indicated air contamination source(s).

This PLAN APPROVAL expires May 31, 1995.

The plan approved is subject to the following conditions:

- (1) The sources are to be modified in accordance with the plans submitted with the application (as approved herein).

(SEE THE ATTACHED ADDITIONAL CONDITIONS)

Notify the person noted below when the installation is completed so that the source(s) can be inspected for issuance of an OPERATING PERMIT.

NOTE:

Roger A. Fitterling
Air Quality Control Program
1005 Cross Roads Boulevard
Reading, PA 19605
(610) 916-0100

RE
Ozone sources

EPA, REGION III

Leif Ericson
LEIF ERICSON
Air Quality Program Manager

cc Permits
Southcentral Regional Office
Lancaster District Office
Reading District Office

Plan Approval
Approval No. 06-1036
W. R. Grace & Co. - Conn.

Sources:

- a) Two (2) Pentane Storage Tanks
- b) Five (5) Existing Extruders
- c) No. 6 Extruder
- d) Polystyrene Foam Storage Area
- e) Fifteen (15) Existing Thermoformers
- f) Polystyrene Fluff Grinders
- g) Polystyrene Fluff Conveying System
- h) Polystyrene Fluff Silos
- i) Final Product Storage Area
- j) Polystyrene Scrap Reclaim Process
- k) Gasoline Storage Tank (280 gal.)
- l) Two (2) Diesel Fuel Storage Tanks (280 & 300 gal.)
- m) Cold Degreaser

Plan Approval
Approval No. 06-1036
W. R. Grace & Co. - Conn.

Conditions (continued):

- (3) This Plan Approval is issued for the purpose of defining the Department's VOC Reasonably Available Control Technology (RACT) determination for the sources of the company's Formpac Division.
- (4) This Plan Approval establishes VOC RACT for the two (2) pentane storage tanks and offloading system as vapor balance.
- (5) This Plan Approval established VOC RACT for the facility as current operations for the sources approved under Plan Approval No. 06-315-001 and all existing sources with the following addition: During the manufacturing of meat trays (5.0 to 6.9 wt. basis) foams by all existing extruders, the company shall reduce the pentane blowing agent by 5% of the current level. This reduction can be achieved with carbon dioxide addition.
- (6) The maximum pentane blowing agent shall not exceed the following limits:
 - a) Extruder 270 (No. 06-315-001):
 - 1) Foam 7.9 and lower (wt. basis) - 4.259% by weight
 - 2) Foam 8.0 and greater (wt. basis) - 3.655% by weight
 - b) Existing Extruders: Meat tray foams
(5.0 to 6.9 wt. basis) - 4.760% by weightAll percentages are based on a 24 hour average.
- (7) The Volatile Organic Compound (VOC) emissions are limited as follows:
 - a) No. 270 extruder
 - 1) 5 #/hr (24 hour average)
 - 2) 110 #/day (7 day running average)
 - 3) 18 T/yr (12 month running average)
 - b) Pentane storage and unloading operation:
3.5 #/hr, 85 #/day & 0.13 T/yr.

Plan Approval
Approval No. 06-1036
W. R. Grace & Co. - Conn.
Page 2

(8) The company shall maintain records of the following:

- a) For the pentane storage tanks
 - 1. Total pentane stored in the storage tank (annual throughput)
- b) For extruder #6
 - 1. Total pentane used
 - 2. Total amount of EPS foam produced
 - 3. Total CO₂ used
- c) For meat tray (5.0 to 6.9 wt basis) production
 - 1. Total pentane used
 - 2. Total amount of EPS foam produced
 - 3. Total CO₂ used
 - 4. Extruder number(s) where produced

All quantities shall be measured in pounds.

- (9) Records required under this Plan Approval shall be kept for a period of five (5) years and shall be made available to the Department upon its request.
- (10) This Plan Approval authorizes temporary operation of the source(s) covered by this Plan Approval provided the following conditions are met:
 - (a) The Department must receive written notice from the Owner/Operator of the completion of construction and the Operator's intent to commence operation at least five (5) working days prior to the completion of construction. The notice shall state when construction will be completed and when the Operator expects to commence operation.
 - (b) Operation is authorized only to facilitate the start up and shake-down of sources and air cleaning devices, to permit operations pending the issuance of an Operating Permit or to permit the evaluation of the source(s) for compliance with all applicable regulations and requirements.

Plan Approval
Approval No. 06-1036
W. R. Grace & Co. - Conn.
~~Page 3~~

- (c) This condition authorizes temporary operation of the source(s) for a period of one hundred eighty (180) days from the date of commencement of operation, provided the Department receives notice from the Owner/Operator pursuant to Subpart (a), above.
 - (d) The Owner/Operator may request an extension if compliance with all applicable regulations and Plan Approval requirements has not been established. The extension request shall be submitted in writing at least fifteen (15) days prior to the end of this period of temporary operation and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established.
 - (e) The notice submitted by the Owner/Operator pursuant to Subpart (a), above, prior to the expiration of this Plan Approval, shall modify the Plan Approval expiration date. The new Plan Approval expiration date shall be one hundred eighty (180) days from the date of the written notice.
- (11) The implementation of the VOC RACT Plan as established in this Plan Approval shall be as expeditious as possible but no later than May 31, 1995.
- (12) The company shall notify the Department and the U.S. EPA at least ten (10) days in advance of discontinuing the use of a fluorinated blowing agent. The company shall then submit to the Department and the U.S. EPA within 45 days a new RACT analysis for the reclaim extruders.

