

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality
West Central Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Addendum to July 1, 2005 Statement of Legal and Factual Basis

MeadWestvaco Corporation – Specialty Chemical Division
Covington, Virginia
Permit No. VA-20329

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. Pursuant to 40 CFR Part 70 and 9 VAC 5 Chapter 80, MeadWestvaco Corporation - Specialty Chemical Division has applied for a minor permit amendment to the Title V Operating Permit for its Covington facility. The Department has reviewed the application and has prepared a minor amendment for the Title V Operating Permit.

Engineer/Permit Contact: _____ Date:

Air Permit Manager: _____ Date:

FACILITY INFORMATION:

Permittee

MeadWestvaco Virginia Corporation -Specialty Chemical Division
P.O. Box 140
Covington, VA 24426

Facility

MeadWestvaco Virginia Corporation – Specialty Chemical Division
Washington Street
Covington, VA 24426 (Alleghany County)

AFS ID No.: 51-580-0011

SOURCE DESCRIPTION

SIC Code: 2819 – Industrial Inorganic Chemicals, Not elsewhere classified

This manufacturing plant produces activated carbon and activated carbon products. The plant has four operating units: Woodbase Carbon Plant, Extruder Plant, Catalyst Plant, and Pilot Plant. Each unit is described in the Statement of Basis. MeadWestvaco claims exclusion of the pilot plant from this permit under the general exclusion for research and development facilities located at manufacturing sites. This facility is located within the boundaries of the MeadWestvaco Pulp and Paper facility. The carbon facility produces a product substantially different from the pulp and paper facility and has different SIC and NAICS codes. As such, the source is considered a separate facility from the pulp and paper plant for purposes of Title V and PSD permitting.

The carbon plant is a Title V major source of particulate matter, volatile organic compounds, nitrogen oxides, carbon monoxide, and Hazardous Air Pollutants. This source is located in an attainment area for all pollutants. The facility currently has a Title V permit dated July 1, 2005, and each of the operating units listed above have an underlying New Source Review Permits, which include: Woodbase Carbon Plant, NSR issued on November 19, 2004, amended on March 9, 2005, October 8, 2008 and February 5, 2009; Extruder Plant, NSR issued on July 25, 2003, amended on March 7, 2005 and October 13, 2008; Catalyst Plant, NSR issued on June 2, 2004 and amended on March 8, 2005; and, the Pilot Plant (Spherical Carbon Process), issued on September 3, 2004. Lastly, MeadWestvaco – Specialty Chemicals Division is subject to the requirements of 40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing Industry.

SUMMARY OF PERMIT CHANGES

MeadWestvaco – Specialty Chemical Division submitted an application for a Title V amendment on April 10, 2008. The facility is subject to requirements of 40 CFR Part 63, Subpart FFFF – National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing

(MON). As such, the permit application submitted addresses provisions of the MON for incorporation into the existing Title V permit. In addition, MeadWestvaco requested changes to the permit conditions that relate to the clay storage or inorganic binder source (EU-97). The facility states that EU 97 emissions are routed through a 4 cartridge dust collector (PCD-3) and then the exhaust gas goes to a 24 cartridge dust collector PCD 2. The purpose of the first dust collector is to prevent mixing of clay powder in the exhaust from the clay storage tank with carbon dust that is captured and recycled from the Extruder Batch Dust Collector (PCD 2). The facility states that dust collector PCD 3 is utilized for ingredient separation and is not used for pollution control. Further information was requested from the facility to document the flow of this process and equipment associated with the process. The information requested was received on June 13, 2008.

On May 20, 2008 DEQ received a Form 7 to address a rotary kiln replacement at the Woodbase Carbon plant. EU-70 which is rated at 37.5 MMBtu/hour and over 90 years old, is being replaced with a new custom-built rotary kiln rated at 28.6 MMBtu/hour. The facility stated that the new unit throughput and fuel would not be changed as a result of the replacement and that the new unit would be installed in the same footprint as the existing unit. The replacement of the rotary kiln was determined exempt from preconstruction new source review permitting requirements of 9 VAC 5, Chapter 80 and this change was incorporated into the previously issued Chapter 80, Article 6 permit by minor amendment signed October 8, 2008.

On August 11 and 29, 2008 DEQ received comments from MeadWestvaco pertaining to the draft Title V permit submitted. Both submittals included revisions to the language proposed. All of the changes requested and described above have been identified as a minor permit modification as defined in 9 VAC 5-80-210.

The Insignificant Emissions Units listed in section VII of the Title V permit will remain unchanged. Equipment outlined in the table is not impacted by the MON requirements as identified in the facilities Notification of Compliance submitted on October 7, 2008 as well as discussions with the facility. Typical equipment located at the facility not impacted by the MON includes, vessels which store solids, vessels which contain organic liquid that contain HAP only as impurities, pressure vessel (>204.9 kPA) without emissions to atmosphere, process tanks and surge control vessels.

The changes requested to incorporate the provisions of the MON affect primarily the Woodbase Carbon Plant and the Extruder Plant with some changes also reflected in the Facility Wide section of the Title V permit. The changes pertaining to the inorganic binder or clay storage (EU 97) impact the Extruder plant only. The changes requested impact two underlying NSR permits. The Woodbase Carbon Plant NSR issued on November 19, 2004, amended on March 9, 2005 and October 8, 2008 as well as concurrently with this permit to reflect the changes requested. The Extruder Plant NSR issued on July 25, 2003, amended on March 7, 2005 was amended on October 13, 2008 to reflect the changes requested.

TITLE V PROGRAM APPLICABILITY BASIS:

There is no change in the Title V applicability since the Title V permit was issued on July 1, 2005. MeadWestvaco – Specialty Chemical remains a Title V major source for particulate matter, volatile

organic compounds, nitrogen oxides, carbon monoxide, and HAPs.

LEGAL AND FACTUAL BASIS FOR PERMIT CONDITIONS:

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the Commonwealth of Virginia Federal Operating Permit Regulations for the purposes of Title V of the Federal Clean Air Act (9 VAC 5 Chapter 80 Article 1), and underlying applicable requirements in other state and federal rules. Applicable requirement means all of the following as they apply to emission units in a Title V source:

- a. Any standard or other requirement provided for in the State Implementation Plan or the Federal Implementation Plan, including any source-specific provisions such as consent agreements or orders.
- b. Any term or condition of any preconstruction permit issued pursuant to 9 VAC 5-80-1100, Article 8 (9 VAC 5-80-1605 et seq.) of this part or 9 VAC 5-80-30 or of any operating permit issued pursuant to 9 VAC 5 Chapter 80 Article 5, except for terms or conditions derived from applicable state requirements or from any requirement of these regulations not included in the definition of applicable requirement.
- c. Any standard or other requirement prescribed under these regulations, particularly the provisions of 9 VAC 5 Chapter 40 (9 VAC 5-40-10 et seq.), 9 VAC 5 Chapter 50 (9 VAC 5-50-10 et seq.) or 9 VAC 5 Chapter 60 (9 VAC 5-60-10 et seq.), adopted pursuant to requirements of the federal Clean Air Act or under §111, 112 or 129 of the federal Clean Air Act.
- d. Any requirement concerning accident prevention under § 112(r)(7) of the federal Clean Air Act.
- e. Any compliance monitoring requirements established pursuant to either § 504(b) or §114(a)(3) of the federal Clean Air Act or these regulations.
- f. Any standard or other requirement for consumer and commercial products under §183(e) of the federal Clean Air Act.
- g. Any standard or other requirement for tank vessels under §183(f) of the federal Clean Air Act.
- h. Any standard or other requirement in 40 CFR Part 55 to control air pollution from outer continental shelf sources.
- i. Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the federal Clean Air Act, unless the administrator has determined that such requirements need not be contained in a permit issued under this article.

- j. With regard to temporary sources subject to 9 VAC 5-80-130, (i) any ambient air quality standard, except applicable state requirements, and (ii) requirements regarding increments or visibility as provided in Article 8 (9 VAC 5-80-1605 et seq.) of this part.
- k. Any standard or other requirement of the acid deposition control program under Title IV of the Clean Air Act or the regulations promulgated thereunder.
- l. Any standard or other requirement governing solid waste incineration under §129 of the Clean Air Act.

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 9 VAC 5 Chapter 80 Article 1 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the state but is not federally-enforceable is identified in the Title V permit as such.

REQUEST FOR VARIANCES OR ALTERNATIVES:

None

PUBLIC HEARING AND COMMENT PERIOD:

In accordance with the provisions of 9 VAC 5-80-210 D, minor permit amendments are processed without providing notice to the public or affected states. The draft amendment was sent to the EPA for a 45 day review period which began September 3, 2008 and ended October 17, 2008.