TECHNICAL SUPPORT DOCUMENT
For
DRAFT/PROPOSED AIR EMISSION PERMIT NO. 16300002-004

This Technical Support Document (TSD) is intended for all parties interested in the draft/proposed permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the draft/proposed permit.

1. General Information

1.1 Applicant and Stationary Source Location:

Table 1. Applicant and Source Address

Applicant/Address	Stationary Source/Address (SIC Code: **3229**)
3M Company 3M Center, Building 244-05-W-03 St. Paul, MN 55144	3M Cottage Grove Specialty Additives 10746 Innovation Road Cottage Grove Washington County
Contact: Tina Mumm Phone: 651-737-3606	

1.2 Facility Description

The 3M Cottage Grove Specialty Additives facility manufactures specialty glass products. The operations cover by this permit (buildings 74, 101 and 110) together with the operations covered the permits for 3M Cottage Grove – Abrasive Systems Division (Building 112) and 3M Cottage Grove – Building 19 & 111, constitute a single source under Prevention of Significant Degradation (PSD) regulations.

1.3 Description of the Activities Allowed by this Permit Action

This permit action is a major amendment to replace the baghouse CE 005 that controls emissions from the Glass Bubble Maker #21 (EU 005) with a new baghouse CE 035. 3M submitted the major amendment to revise the Title I limit associated with the baghouse.

This permit action also incorporates an older major amendment submitted on August 20, 2009. This major amendment requests changes to permit language based on changes to control device and stack vent arrangements. EUs 007, 008, and 009 were previously controlled by a baghouse, CE 006, which vented outside the building through SV006. In late 2009, EU 009 was removed. CE 006 was replaced with a new baghouse, CE 007 that vents internally and now controls EUs 008 and 009. 3M requests that EU 008 and EU 009 be classified as conditionally insignificant activities under Minn. R. 7008.4110, and the removal of the permit conditions previously associated with CE 006 and EU 007-009.

Additional Changes made to permit:

- Removal of the citations "Title I Condition: Limit to comply with 40 CFR Part 51, Appendix S." There is no longer a TSP standard and EPA officially "deleted" the nonattainment designation for