



EPA Science Inventory

ENVIRONMENTAL TECHNOLOGY VERIFICATION REPORT, BAGHOUSE FILTRATION PRODUCTS, BHA GROUP, INC., QP131 FILTER SAMPLE

Contact

National Risk Management Research Laboratory

Citation:

ETS. ENVIRONMENTAL TECHNOLOGY VERIFICATION REPORT, BAGHOUSE FILTRATION PRODUCTS, BHA GROUP, INC., QP131 FILTER SAMPLE. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-01/118, 2001.

Description:

Baghouse filtration products (BFPs) were evaluated by the Air Pollution Control Technology (APCT) Verification Center. The performance factor verified was the mean outlet particle concentration for the filter fabric as a function of the size of those particles equal to and smaller than 2.5 micrometers in aerodynamic diameter (PM_{2.5}). The APCT Verification Center developed a generic verification protocol for testing baghouse filtration products that is based on a modified VDI Method 3926. The protocol was developed by Research Triangle Institute and ETS, Inc. (ETS), reviewed by a panel of technical experts, and approved by the U.S. Environmental Protection Agency (EPA). The protocol addresses several issues that VDI Method 3926 does not cover, including periodic testing, acquisition of BFP samples for testing, and product definition. A test/quality assurance plan and a standard operating procedure were prepared to address the test procedure and quality assurance and quality control requirements for obtaining verification data of sufficient quantity and quality to satisfy the data quality objectives.

ETS performed tests on BHA Group's filter sample QP131 during January 30 - February 2, 2001. Mean outlet particle concentrations for total mass and PM_{2.5} were determined. In addition, the following verification parameters were measured and reported: initial residual pressure drop, residual pressure drop increase, average residual pressure drop, average filtration cycle time, and mass gain of the filter sample.

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OFFICE OF RESEARCH AND DEVELOPMENT
NATIONAL RISK MANAGEMENT RESEARCH LABORATORY
AIR POLLUTION PREVENTION AND CONTROL DIVISION
AIR POLLUTION TECHNOLOGY BRANCH

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