



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

OFFICE OF
AIR AND RADIATION

OCT 12 2012

Ms. Natalie Melomed
Avantechs Inc.
4450 Arapahoe Avenue, Suite 100
Boulder, CO 80303

Dear Ms. Melomed:

The U.S. Environmental Protection Agency (EPA) has reviewed your request to verify the Avantechs Inc. "VorBlade Wing" trailer end fairing for line-haul, heavy-duty truck trailers. This device is designed to improve the aerodynamic efficiency of trailers to improve the overall fuel economy of the combination tractor-trailer. Based upon your application, test data and supporting information, EPA hereby verifies the VorBlade Wing (with trailer VorBlade installations) system for the level described below.

Technology	Verification Category	Fuel Savings
VorBlade Wing (with trailer VorBlade installations) end fairing	Advanced Trailer End Fairing	5% or greater

The performance of this system is verified for use on 53 foot, "dry" box trailers traveling at highway speeds in the tested configuration and installation. EPA verification is contingent upon devices being installed and maintained as they were tested. Any variance from the tested installation or modifications to the design is not automatically considered verified and must be submitted to EPA for case-by-case approval.

EPA verifies aerodynamic trailer devices for use on EPA-designated SmartWay Trailers. EPA-verified aerodynamic device(s) that achieve a minimum of 5% total fuel savings – used with EPA-verified low rolling resistance tires – qualify a 53 foot "dry" box trailer for designation as a SmartWay Trailer. While fleets can expect EPA-verified aerodynamic devices and SmartWay Trailers to be among the most fuel efficient, the fuel savings in real-world applications may vary for each fleet.

This technology will be listed on the EPA's verified aerodynamic product website at: <http://www.epa.gov/smartway/technology/aerodynamics.htm>. This letter and the EPA's online verified product listing may serve as demonstration of your device's verification.

EPA has strict guidelines regarding the use of the SmartWay logo. SmartWay designation (and associated use of the SmartWay designation logo) is limited to manufacturers of heavy-duty tractors, box trailers, or passenger cars. Vehicle component technologies (e.g., trailer aerodynamic equipment) are not allowed to use the SmartWay logo for labeling purposes. If you have questions regarding these policies, please consult the graphics usage guidelines (found at <http://www.epa.gov/smartway/documents/partnership/logo-use/420b11014.pdf>) or contact Joann Jackson-Stephens at jackson-stephens.joann@epa.gov.

Finally, if you're not already a member, you may wish to join the SmartWay Community. This is designed for businesses that share our commitment to reducing emissions and fuel consumption in freight movement. If you want to learn more about the SmartWay Community, read more at <http://www.epa.gov/smartway/transport/become-partner/community.htm>. Patrice Thornton, at thornton.patrice@epa.gov, can assist you with questions you may have regarding joining the SmartWay Community.

If you have any questions regarding your verification or the program, please feel free to contact our aerodynamic technology lead, Sam Waltzer, at waltzer.sam@epa.gov. Thank you for your interest in EPA's vehicle technology verification program.

Sincerely,



Jim Blubaugh, Deputy Director
Transportation and Climate Division
Office of Transportation and Air Quality