



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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APPROVAL FOR REMEDIAL USE

Pursuant to Title 5, 310 CMR 15.00

Name and Address of Applicant:

Jet, Inc.
750 Alpha Dr.
Cleveland, OH 44143

Trade name of technology: **Jet Inc. 1500 Series BAT Media Wastewater Treatment Plants.**
Models: **J-500, J-750, J-1000, J-1250 and J-1500** (hereinafter called the "System"). Schematic Drawings illustrating each System, a design and installation manual, an owner's manual, an operation and maintenance manual, and an inspection checklist are part of this Approval.

Transmittal Number: X241114
Date of Issuance: January 30, 2012
Revision date: March 31, 2014

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental, Protection hereby issues this Approval for Remedial Use to: Jet, Inc., 750 Alpha Dr., Cleveland, OH 44143 (hereinafter "the Company"), approving the System described herein for Remedial Use in the Commonwealth of Massachusetts. The sale, design, installation, and use of the System are conditioned on compliance by the Company, the Designer, the Installer, the Service Contractor, and the System Owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Approval constitutes a violation of 310 CMR 15.000.

David Ferris, Director
Wastewater Management Program
Bureau of Resource Protection

March 31, 2014

Date

Technology Description

The System is a Secondary Treatment Unit (STU) that provides an aerobic treatment process. The System consists of a primary settling zone, aerobic treatment and a secondary clarifying zone to treat wastewater. Solids settle and scum collects in the primary chamber. The aerobic zone contains a fixed media, consisting of rigid plastic honeycomb material that encourages the growth of aerobic bacteria which consume the organic matter in the incoming wastewater. Aerobic conditions are maintained by an aspirator, which draws in, disperses and mixes fine air bubbles throughout the aerobic zone. Clear effluent is produced in the final clarifying zone where the solids are settled and returned to the aeration zone.

Conditions of Approval

The term "System" refers to the STU in combination with the other components of an on-site treatment and disposal system that may be required to serve a facility in accordance with 310 CMR 15.000.

The term "Approval" refers to the technology-specific Special Conditions, the conditions applicable to all STU's with Remedial Use Approval, the General Conditions of 310 CMR 15.287, and any Attachments.

For Secondary Treatment Units that have been issued Remedial Use Approval for the upgrade or replacement of an existing failed or nonconforming system., the Department authorizes reductions in the effective leaching area (310 CMR 15.242), the depth to groundwater (310 CMR 15.212), and/or the depth of naturally occurring pervious material (310 CMR 15.240(1)) subject to the conditions that apply to all Secondary Treatment Units Approved for Remedial Use and subject to the Special Conditions applicable to the Technology.

Special Conditions

1. The System is Secondary Treatment Unit Approved for Remedial Use. In addition to the Special Conditions contained in this Approval, the System shall comply with all the "Standard Conditions for Secondary Treatment Units Approved for Remedial Use", except where stated otherwise in these Special Conditions.
2. The System is approved for facilities where the local approving authority finds that:
 - a) there is no increase in the actual or proposed design flow;
 - b) the System is for the upgrade of a failed, failing or nonconforming system; and
 - c) a conventional system with a reserve area, designed in accordance with the standards of 310 CMR 15.100 through 15.255, cannot feasibly be built on-site.
3. The System is approved for residential facilities only.

4. The System Models J-500 and J-750 shall be installed in series between the building sewer and the soil absorption system and are exempt from the requirements for a standard Title 5 septic tank designed in accordance with 310 CMR 15.223 and 15.224.

The record drawings, on file with the local approving authority, shall clearly indicate an area for a septic tank meeting the requirements of Title 5 and the drawings shall indicate that the area is for the sole purpose of installing a Title 5 septic tank in the future, if necessary. The System Owner shall not construct any permanent buildings or structures or disturb the site in any manner that would prevent the installation of a Title 5 septic tank in the future.

5. System Models J-1000, J-1250 and J-1500 shall be installed between a standard Title 5 septic tank, designed in accordance with 310 CMR 15.223 and 15.224, and the soil absorption system.