

January 20, 1993

MEMORANDUM

GMP # 15

TO: District Directors
Environmental Health Managers
Environmental Health Project Managers

FROM: David Effert, Technical Services Chief
Division of Onsite Sewage and Water Services

SUBJECT: Product Review
Aerob-A-Jet Model 100 Sewage Aeration System
Project Number 100692A

I have reviewed the product literature and National Sanitation Foundation Final Report on the Aerob-A-Jet Model 100 Sewage Aeration System.

The Aerob-A-Jet model 100 is a fine bubble aeration device which is designed for installation in a conventional septic tank. It does not replace the tank; rather, it is an additional mechanical unit designed to increase the biological conversion of the organic matter in the wastewater by solubilizing the solids thus making them available as a food source.

The September, 1992 National Sanitation Foundation report on the unit entitled Final Report Performance Evaluation of the Sewage Aeration Systems Aerob-A-Jet Model 100 Fine Bubble Air Diffuser states that the 1992 NSF evaluation "...does not constitute Certification or Listing by NSF against Standard 40 or Criteria C-9." Rather, the NSF evaluation reports on the performance of the Aerob-A-Jet Model 100 Sewage Aeration System without concluding that any specific performance standards have been met. While Table 1 of the report shows that the unit reduced the concentration of BOD, suspended solids, and volatile suspended solids vs. the influent municipal wastewater, the testing was not designed to show compliance of the unit with a performance standard.

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Section 4.15 of the Sewage Handling and Disposal Regulations addresses the use of aerobic biological systems. This section states that "These systems shall meet the applicable criteria in Section 26.05 of the Sewerage Regulations or criteria developed by a testing laboratory/agency approved by the bureau. I have asked the Office of Water Programs to determine if the Aerob-A-Jet Model 100 is in compliance with the Sewerage Regulations, and they will be responding in a separate memorandum. The product, based on NSF review, is in compliance with the intent of the Sewage Handling and Disposal Regulations and it can be installed in septic tanks which otherwise comply with the Sewage Handling and Disposal Regulations. Approval of this product for use in septic tanks does not imply that it improves the performance of the septic tank or soil absorption field, and use of this product shall not result in the reduction of the required soil absorption field area.

Unless the Aerob-A-Jet Model 100 is modified, or additional post-treatment is provided, the unit would not be suitable for classification as an experimental system under Section 2.25.A of the Alternative Discharging Sewage Treatment Regulations for Single Family Dwellings.

DDE/

pc: DOSWS Staff
Cal Sawyer, P.E.
Craig Jones
Terrell R. Hoage, Ph.D.

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Sewage - Onsite - Discharge - Product Approval