

ARTICLE III

SAND/OIL INTERCEPTOR REGULATION

3.01 General

- a. Sand/Oil Interceptors shall be provided when, in the judgment of the District, they are necessary for the proper handling of sand, grit and/or petroleum-based liquid waste which may be harmful to, or cause obstruction of the publicly owned wastewater collection system, interfere with the operation of the publicly owned treatment works, or as otherwise required by a GOPP. The District will substantiate whether a Sand/Oil Interceptor is suitable for installation. On a general basis, Sand/Oil Interceptors will be required for all Affected Property as described in Section 1.01(a)(4) of Article I of this Part D.
- b. An adequate Sand/Oil Interceptor shall be installed, as specified herein, on the wastewater drainage system from any Affected Property as described in Part D, Article I, Section 1.01(a)(4). The adequacy of the Sand/Oil Interceptor shall be determined by compliance with the design, sizing, and other requirements of this regulation and/or the GOPP.
 - (1) All drains from shop areas, washing areas and/or potential spill areas shall be connected to a Sand/Oil Interceptor. Fixtures to be connected include, but are not limited to, floor drains, engine/parts cleaning sinks and wash areas located in areas where sand and petroleum-based liquid waste containing materials may exist.
 - (2) Toilets, urinals and similar fixtures shall not waste through a Sand/Oil Interceptor. Such fixtures shall be plumbed directly into the building sewer and waste system.
- c. A variance as to the requirement for a GOPP or Sand/Oil Interceptor on any non-residential structure may be granted after due consideration by the District for good cause shown including, without limitation, the particular hardship and unique circumstances of the customer which are not brought about as a result of the customer's acts or omissions. The granting of any variance shall be at the sole discretion of the District based upon the facts and circumstances of each request.

3.02 Definitions

- a. "Affected Property" has the meaning set forth in Section 1.01(a) of Article I of this Part D.
- b. "Sand/Oil Interceptor" shall be defined as a unit of at least 300 gallons capacity designed to retain sand/oil from one or more fixtures and which shall be located remote from the fixtures being served, typically outside the building being served. This is the preferred unit of choice by the District. The use of larger capacity Sand/Oil Interceptors is encouraged whenever possible in that larger interceptors work more

efficiently. In resolving any question of capacity of Sand/Oil Interceptors, any uncertainties shall be resolved in favor of the larger capacity interceptor.

3.03 Design and Sizing

- a. The design and sizing of a required Sand/Oil Interceptor shall be in accordance with the current edition of the Uniform Plumbing Code (UPC) as utilized by the local building permitting authority and these Regulations and shall be designed, sized, installed, maintained and operated so as to accomplish its intended purpose of intercepting the sand/oil from the customer's wastewater and preventing the discharge of such sand and oil to the District's wastewater treatment plant.
- b. The size, type and location of each Sand/Oil Interceptor shall be approved by the District, in accordance with this Regulation. Except where otherwise specifically permitted, no wastes other than those requiring separation shall be discharged into any Sand/Oil Interceptor. One set of plans, including complete mechanical and plumbing sections shall be submitted to the District for approval prior to construction. Such plans shall include the size, type and location of each interceptor. Such approval shall not exempt the user from compliance with any applicable code, ordinance, rule, regulation or order of any governmental authority. Such approval shall not be construed as or act as a guarantee or assurance that any discharge is or will be in compliance with any applicable code, ordinance, rule, regulation, or order or any governmental authority. Any subsequent alterations or additions to such facilities shall not be made without due notice to and prior approval of the District.
- c. Design
 - (1) All waste shall enter the Sand/Oil Interceptor through the inlet pipe only.
 - (2) Wastes in excess of 140 degrees Fahrenheit shall not be discharged into a Sand/Oil Interceptor and liquid discharged from a Sand/Oil Interceptor shall not exceed 70 degrees Fahrenheit.
 - (3) Sand/Oil Interceptors shall be so designed and located as to be readily accessible for cleaning and shall have a water seal of not less than six (6) inches.
 - (4) Sand/Oil Interceptors shall be constructed in accordance with the design specifications contained herein, shall be approved by the District and shall have a minimum of two (2) compartments with fittings designed for sand/oil retention. There shall be a minimum of two (2) manholes to provide access for cleaning and inspection of all fixtures and compartments of the interceptor, a minimum of one (1) per ten (10) feet of interceptor length. In the case of smaller, or circular interceptors, where it is not practical to install two manholes, a single manhole shall be located so as to permit entrance to the first compartment, and inspection of the second. All areas of the second compartment shall be accessible for cleaning. Manhole covers shall be gastight in construction having a minimum opening dimension of twenty (20) inches. In areas where traffic may exist, the interceptor shall be designed to have adequate reinforcement and cover, meeting HS-20 load specifications.

- (5) If an existing Sand/Oil Interceptor does not meet the design and sizing criteria as set forth, the interceptor shall be replaced with a properly designed and sized interceptor.
- (6) Upon change of ownership of any existing facility which would be required to have a Sand/Oil Interceptor under this Regulation, the applicant for sanitary sewer service shall demonstrate that a properly sized and functioning Sand/Oil Interceptor is installed.
- (7) Sand/Oil Interceptors shall be so designed that they will not become air bound if closed covers are used. The tank and the discharge line shall each be vented, and the vents shall not tie together less than 42 inches above the tank lid elevation.
- (8) An effluent sampling box shall be provided on the discharge of each Sand/Oil Interceptor where so required by the District.

d. Sizing Criteria

- (1) Sand/Oil Interceptors: When determining the minimum size of Sand/Oil Interceptor required, the following shall be considered:
 - a) The minimum acceptable volume shall be not less than three hundred (300) gallons.
 - b) The minimum acceptable liquid operating depth shall be not less than four (4) feet.
 - c) For facilities or portions thereof in which vehicle washing will not occur: Provide ten (10) gallons of interceptor capacity for each one hundred (100) square feet of building drainage area connected to the interceptor.
 - d) For facilities or portions thereof in which vehicle washing will occur:
 - i) For facilities without wash water recovery systems: Provide six hundred (600) gallons of interceptor capacity for each wash bay.
 - ii) For facilities with wash water recovery systems: Provide an interceptor capacity (liquid capacity in gallons) = wastewater flow rate (gallons per vehicle) X 48. The wastewater flow rate shall be as specified by the manufacturer of the wash water recovery system which will be installed.
 - e) An approximate volume may be determined by multiplying the total rate of flow in gallons per minute from each fixture required to be connected to the interceptor times a minimum retention time of not less than one hundred twenty (120) minutes, the resulting volume expressed in gallons.

3.04 Installation

- a. The installation of Sand/Oil Interceptors shall be in accordance with the current edition of the Uniform Plumbing Code (UPC) as utilized by the local building permitting authority and these Regulations, and shall be accomplished in a workmanlike manner in compliance with the design and sizing requirements hereunder.
- b. The installation of a Sand/Oil Interceptor shall be accomplished by a licensed plumber with documented experience in the installation of such devices.
- c. Each Sand/Oil Interceptor shall be readily accessible for inspection, servicing, and maintaining in proper working condition. The use of ladders or the removal of bulky equipment in order to inspect or service interceptors shall constitute a violation of accessibility. Where feasible, all interceptors shall be located outside of the facility served. Location of all interceptors shall be approved by the District, and shall be shown on the approved building plan.

3.05 Maintenance

- a. Sand/Oil Interceptors shall be maintained by regularly scheduled removal of the accumulated sand and oil so that they will properly operate as intended to intercept the sand and oil from the customer's waste water and prevent the discharge of sand and oil to the District's waste water treatment plant.
- b. Maintenance of Sand/Oil Interceptors shall be done only by a business/professional normally engaged in the servicing of such plumbing fixtures. An individual property owner will not be permitted to accomplish maintenance specified by this Regulation.
- c. Maintenance shall be performed in a workmanlike manner before the retention capacity of the interceptor is exceeded. Detailed and accurate records of maintenance shall be maintained on-site and shall be provided to and available to the District upon request. Such maintenance records shall be in the form as approved by the District Manager. The records shall include detailed information relating to the amount of sand and oil removed compared to the size of the Sand/Oil Interceptor and one copy of the completed form shall be provided by the customer and the maintenance business to the District immediately following completion of maintenance of any Sand/Oil Interceptor within the District.
- d. A copy of the invoice from the business/professional reporting the date the interceptor was cleaned, the amount of oil and/or sand removed and a recommendation of how frequently the interceptor should be cleaned must be sent to the District office after each cleaning. A copy of all Sand/Oil Interceptor cleaning invoices are to be on file at the business being served and available to the District upon request. Failure to comply with the above could result in fines, penalties, revocation of the GOPP or disconnection of service.
- e. As a minimum, any Sand/Oil Interceptor in service in the District shall be serviced at a maximum interval of 120 days.

- (1) A variance from this requirement may be obtained when the Affected Property owner can confirm that there is no normal use during any given 120 calendar day period. With written authorization from the Board, the maximum time variance between services is 365 calendar days.
 - (2) The District may inspect the interceptor and outlet and if it is deemed necessary by the District, more frequent servicing and maintenance will be required.
- f. Biological treatment shall not be a substitute for the servicing of Sand/Oil Interceptors at the frequency determined by the District. Emulsification of oil and/or grease with enzyme treatments only delays physical separation. Oil and/or grease may then separate down stream and cause clogging problems in the collection system. A Sand/Oil Interceptor using biological treatment requires continuous monitoring, maintenance, and inoculation of the bacterial cultures.
- g. The District may inspect the Sand/Oil Interceptor monthly to determine the load on the fixture and the effectiveness of maintenance activities. The District will inventory all Sand/Oil Interceptors in their service area and document the inspections of these interceptors.
- (1) These inspections may determine that more frequent maintenance than previously specified is required.
- h. Existing sources not connected to a Sand/Oil Interceptor which contribute sand, grit and/or petroleum-based liquid waste to the District's waste stream and collection system will be identified through the District's inspection program. Once these sources are identified, they will be required to install a Sand/Oil Interceptor and maintain it according to these guidelines. In the time before a Sand/Oil Interceptor can be installed the District will require these businesses to implement Best Management Practices (BMPs) to keep sand and oil out of the sanitary sewer system by:
- (1) Not dumping petroleum-based waste products into the waste collection system;
 - (2) Discontinuing use of wash facilities until such time a suitable system is in place to intercept sand, grit, and petroleum-based products;
 - (3) Sweeping floors and other service areas with hand brooms and dispose of all sweepings as solid waste to minimize the use of wash down water to the greatest extent practicable;
 - (4) Utilizing appropriate absorbent materials to contain and cleanup any spillage of petroleum-based products and disposing of all used absorbent materials as solid waste; and
 - (5) Other practices identified by the District and/or facility which will decrease the point source discharge of sand and oil.

3.06 Responsibility, Fines, and Compensation

- a. Property owners and lessees shall be jointly and severally responsible for cleaning Sand/Oil Interceptors, for maintaining the Sand/Oil Interceptor in an efficient operating condition at all times, and for otherwise complying with the provisions of the GOPP and these regulations.
- b. The District reserves the right to revoke the GOPP and/or levy fines against owners of Affected Property that do not conform to the District's Sand/Oil Interceptor regulations.
- c. Compensation shall be paid to any surrounding businesses and/or homeowners for damage resulting from any noncompliance of the District's regulations.
- d. Any extraordinary cost incurred by the District due to interference, damage or special processing necessary in the treatment and/or collection system shall be paid by the business. The direct cost of all labor, equipment and materials incurred in rectifying the interference or damage shall be billed directly to the business by the District.

3.07 Sewer Use Regulations

- a. This regulation forms a part of the Sewer Use Regulations of the District. Enforcement of this regulation is governed by the express terms hereof and the enforcement provisions of Part A, Article XII of the Sewer Use Regulations, which is incorporated by reference, including, without limitation, those provisions for administrative violations, violation of discharge limitations, enforcement procedures, penalties, field observations, and extra monitoring charges. Any violation of this regulation for Sand/Oil Interceptors shall be considered a discharge violation, major violation, under the enforcement provisions of Part A, Article XII of the Sewer Use Regulations. Compliance with this regulation, as well as the other provisions of the Sewer Use Regulations, shall be the joint and several obligation of the owner of the property served and any party in possession of the property using the waste water services of the District. Any monies due or penalties to the District under the provisions of the Sewer Use Regulations shall constitute a lien upon the property served.
- b. The District has the right to reject any waste which may be harmful to or cause obstruction of the publicly owned wastewater collection system or which may interfere with the operation of the publicly owned treatment works.

3.08 Application

This regulation applies to all existing and future uses within the scope of Section 3.01 of this Article III, Part D, above. Those Affected Properties currently conducting operations subject to these regulations shall be provided a grace period of one year from June 11, 2003 in which to come into full compliance with these regulations. The District has determined that the enactment of this regulation is in the best interest of the District and its customers and is necessary for the efficient and proper operation and protection of the District's operations and facilities and this regulation is necessary and in furtherance of the health, benefit, and welfare of the District's customers.

