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Civil Engineering

WASTEWATER DISCHARGE INSTRUCTION



COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFD 32-70, Environmental Quality. This instruction establishes base policy and assigns responsibility for wastewater system oversight and operation. The instruction applies to domestic wastewater treatment facilities including but not limited to collection systems, lift stations, septic tanks, primary, secondary, and tertiary wastewater treatment processes; non-domestic waste pretreatment and treatment facilities including but not limited to stormwater, industrial waste streams, oil/water separators, grease traps, and leachate control facilities; and wastewater discharges to collection systems and injection wells. Emphasis will be placed on controlling non-domestic wastewater.

1. PURPOSE: An effective base program for controlling wastewater collection, treatment, and disposal requires the full support and cooperation of activities that generate wastewater. This instruction:

- 1.1. Outlines interaction with various base environmental plans.
- 1.2. Outlines a scoping process for identifying and characterizing waste from point sources on base and implementing a waste minimization, control, and treatment program to reduce and prevent pollution.
- 1.3. Prescribes collection, segregation, and disposal procedures for special waste and treatment or pretreatment of domestic and non-domestic waste.
- 1.4. Outlines procedures for monitoring, testing, and reporting to regulatory agencies.
- 1.5. Designates offices of primary responsibility for various tasks.

2. TERMS AND DEFINITIONS:

- 2.1. Terms and definitions used in this instruction are consistent with those defined in 40 CFR 122 through 136, 40 CFR 401 through 471, 40 CFR 501 and applicable state and local regulations.

2.2. Some commonly used abbreviations and acronyms are listed below.

BMP	Best Management Practice
CFR	Code of Federal Regulations
DNREC	Delaware Department of Natural Resources And Environmental Control
ECAMP	Environmental Compliance Assessment and Management Program
EPA	U.S. Environmental Protection Agency
EPC	Environmental Protection Committee
IWS	Industrial Waste System
NPDES	National Pollutant Discharge Elimination System
POTW	Publicly Owned Treatment Works

3. SCOPE:

3.1. This instruction is consistent with and augments the following base plans:

3.1.1. Oil and Hazardous Substance Spill Prevention and Response Plan, DAFB OPlan 32-7

3.1.2. Hazardous Waste and Used Petroleum Management Plan, DAFB OPlan 32-3

3.2. This instruction is consistent with and augments the following Civil Engineering Operational plans:

3.2.1. Oil/Water Separator Management Plan

3.2.2. Stormwater Pollution Prevention Plan

4. POLICY: Base policy is as follows:

4.1. Comply with Federal, interstate, state, and local requirements pertaining to permitting, managing, treating, and discharging of wastewater. The above requirements take precedence if they conflict with this instruction. Assure timely submission of monitoring reports and reply to correspondence

from regulatory agencies to avoid regulatory noncompliance and to maintain good working relations with the regulatory community.

4.2. Ensure and implement BMPs for collection of wastewater and operation of wastewater treatment systems. Eliminate unpermitted discharges and cross-connections between wastewater and stormwater collection systems.

4.3. Consider the long-term risk to the human and natural environment when making wastewater management decisions to include environmental impact analysis and life cycle management costs.

4.4. Minimize the treatment of wastewater, using wastewater characterization to determine the level of treatment needed for each waste generation point.

4.5. Develop consistent base-wide approaches to wastewater management which apply to all base and tenant organizations.

4.6. Enforce wastewater discharge policies through use of source monitoring, shop surveys, and administrative action to prevent treatment system interruptions and discharge violations.

4.7. Use prudent inspection, operation, and preventive maintenance practices to maximize treatment effectiveness, minimize costs and eliminate noncompliance of discharge limitations.

4.8. Certification of wastewater treatment facility system operators is normally required by state regulations if the on-site sewage disposal system scores fifteen (15) points or more. DAFB is exempt from licensing requirements per the above regulation because it is an on-site sewage disposal system scoring less than fifteen (15) points.

4.9. Utilize waste minimization source reduction techniques and wastewater pretreatment at or near the waste generation point to the extent needed to protect collection, treatment, and disposal facilities and processes from damage, upset, excessive cost, or discharge violations. Where feasible, source waste reduction through material substitution, process change and/or administrative change shall be preferred over pretreatment.

4.10. Utilize BMPs and accepted engineering approaches at the waste generation point to eliminate pollutant slug-loading at the wastewater treatment plant.

4.11. Utilize POTW services for regional or municipal wastewater treatment where practical and to the advantage of the government.

5. ORGANIZATIONAL RESPONSIBILITIES:

5.1. 436 AW/CC

5.1.1. Acts as EPC chairperson or appoints acting chairperson.

5.1.2. Provides direction through EPC to develop and maintain plans and regulations with specific guidelines for base environmental concerns.

5.2. 436 SPTG/CE

5.2.1. Thru 436 SPTG/CEV

5.2.1.1. Establishes and publishes technical policy.

5.2.1.2. Provides guidance to base organizations for collection, treatment, storage, and disposal of non-domestic waste.

- 5.2.1.3. Ensures wastewater facilities are in compliance with regulatory requirements.
- 5.2.1.4. Reviews operating records, inspection reports, special studies, and Notices of Violation; determines corrective action needed and prepares projects for corrective action.
- 5.2.1.5. Maintains and updates the Oil/Water Separator Management Plan.
- 5.2.1.6. Prepares all permit applications and associated correspondence when required.
- 5.2.1.7. Maintains required records for IWS operation and inspection to include monitoring results.
- 5.2.1.8. Uses BMPs and sound engineering principles to eliminate cross-connections, minimize slug loading of treatment facilities and ensure efficient operation and maintenance of treatment systems.
- 5.2.1.9. Coordinates negotiations for regional treatment connection and pretreatment requirements.
- 5.2.1.10. Coordinates with 436 AMDS/SGPB in performing monthly sampling.
- 5.2.1.11. Submits all required sampling reports to appropriate agencies.
- 5.2.1.12. Develops and maintains all Memorandum of Understandings related to Oil/Water Separators.
- 5.2.2. Thru 436 SPTG/CEO
 - 5.2.2.1. Assures that appropriate priorities are assigned to all work orders to correct operating deficiencies.
 - 5.2.2.2. Provides in-house personnel to conduct routine inspections, maintenance and minor repairs to the sanitary sewer system.
- 5.2.3. Thru 436 SPTG/CEC
 - 5.2.3.1. Prepares all documents required to procure contract operations and provide contract oversight related to sanitary sewer maintenance projects.
- 5.3. 436 AMDS/CC thru AMDS/SGPB
 - 5.3.1. Coordinates with CEV and collects all required environmental permit monitoring samples.
 - 5.3.2. Reviews waste streams during shop surveys and evaluates content for potential noncompliance.
 - 5.3.3. Upon request from an organization that generates non-domestic wastewater, performs shop survey and analysis of constituents entering the sanitary sewer.
- 5.4. Generating Activity
 - 5.4.1. Complies with established environmental policy and practices.
 - 5.4.2. Contacts 436 SPTG/CEV for guidance in disposing of all non-domestic waste generated.
 - 5.4.3. Controls discharge or disposal of all non-domestic waste generated. This includes assuring all floor cleaning detergents have been diluted to the proper ratio before being applied.

5.4.4. Generating Activities which discharge to an Oil/Water Separator must sign and maintain a Memorandum of Understanding with 436 SPTG/CE. The Memorandum of Understanding shall contain guidelines and restrictions as to what can be discharged to the sanitary sewer system via the Oil/Water Separator.

5.4.5. Generating Activities which do not discharge via an Oil/Water Separator must notify 436 SPTG/CEV what will be discharged via the sanitary sewer.

5.4.6. Notify 436 SPTG/CEV and 436 AMDS/SGPB of any spills or discharges of any waste stream not permitted to enter the sanitary sewer.

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