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Safety

**CONTROLLING NONDOMESTIC WASTE
DISCHARGE INTO SANITARY SEWERS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: 92 CES/CEOIB
(WS-12 Joseph A. Duricic)
Supersedes FAFBI91-002, 10 April 1993

Certified by: 92 CES/CC
(Lt. Col Salman M. Nodjomian)
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Distribution: F

Purpose: This regulation sets forth uniform requirements for the direct and indirect discharge of non-domestic waste into the sanitary sewer collection system serving Fairchild Air Force Base (FAFB). This applies to all organizations on FAFB to include associate units.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

This instruction has been revised to further specify areas and levels of responsibility, types of pretreatment equipment used and locations of equipment.

1. Objective:

1.1. To prevent the introduction of industrial wastewater into the sanitary sewage collection system that would interfere with the operation of the system (i.e. impairs the flow or creates a hazardous environment), and/or exceed the discharge limitations imposed by the City of Spokane Pretreatment Ordinance #C-30677 (See [Attachment 2](#)).

2. Responsibilities:

2.1. Environmental Protection Committee Chairman:

2.1.1. Ensure pollutant concentrations in the wastewater leaving the base do not exceed established discharge limitations.

2.1.2. Ensure all organizations on the base are aware of the restrictions regarding the use of the wastewater system.

2.2. Organizational Commanders:

2.2.1. Identify all sources of nondomestic wastewater discharge within their organization facilities (92 CES/CEV assistance is available, if requested).

2.2.2. Reduce the discharge of nondomestic waste by modifying the operational process, where feasible (92 CES/CEV assistance is available, if requested).

2.2.3. Provide protection against accidental discharge of nondomestic waste into the sanitary sewer system.

2.2.4. Ensure maintenance surfaces and floors are kept clean without washing any spilled material into floor drains.

2.2.5. Immediately notify 92 CES/CEOE. Please contact using the following emergency numbers 247-2302/2303. (of any accidental discharge into the sanitary sewer system.) If unable to contact 92 CES/CEOE call the FAFB Fire Department.

2.3. 92 CES/CEO will:

2.3.1. Install, repair, clean and inspect sewer mains, laterals and lift stations to ensure the efficient flow of wastewater to the FAFB point of discharge.

2.3.2. Operate and maintain pretreatment equipment to assure compliance with discharge requirements.

2.3.3. Identify and eliminate inflow/infiltration of stormwater and/or groundwater through either the initiation of immediate corrective action or development of a project.

2.3.4. Inspect facilities to ensure compliance with this regulation.

2.3.5. Maintain records of sewer main/lateral cleaning, repair and replacement, as well as submitting changes for as-built to be updated when necessary.

2.4. 92 CES/CEV will:

2.4.1. Maintain a pretreatment plan as required by City of Spokane Pretreatment Ordinance #C-30677.

2.4.2. Provide a liaison to communicate with City of Spokane wastewater treatment personnel regarding wastewater discharge issues.

2.4.3. Review and interpret analysis data for wastewater quality.

2.4.4. Maintain an inventory on point source discharges within the base boundaries.

2.4.5. Provide training, as required or requested, on wastewater collection/treatment system requirements.

2.4.6. Report accidental spills of hazardous materials to appropriate authorities according to the FAFB HAZMAT Plan.

2.4.7. Identify federal, state and local regulations/policies applicable to sanitary sewer collection system discharge requirements.

2.5. 92 ADS/SGGB will:

2.5.1. Sample point and non-point wastewater source discharge as required and/or as requested. Submit samples to laboratory for analysis. 92 CES/CEV will interpret results upon completion.

2.5.2. Provide guidance on occupational safety and health requirements regarding sanitary sewer collection system operation and maintenance.

3. Pretreatment Equipment:

3.1. Oil/water separators are used on FAFB to remove fuels, oils and grease from wastewater streams originating in aircraft, vehicle and equipment maintenance facilities and wash racks. A list of separator locations is attached ([Attachment 3](#)).

3.1.1. Contractor will inspect separators on a monthly basis to remove any floating product contained therein. Any recovered product must be recycled.

3.1.2. Separators shall be cleaned at a minimum of once every two years with most being cleaned annually. The wastewater shall be sampled on an annual basis for compliance with the City of Spokane wastewater discharge parameters.

3.2. Grease traps are installed at food service establishments to prevent excessive discharge of grease and oil into the wastewater collection and treatment system. A list of grease trap locations is attached ([Attachment 4](#)).

3.2.1. Contractor will empty and inspect grease traps on a quarterly frequency. For those establishments generating large amounts of grease, the frequency of cleaning shall be increased, as necessary.

3.2.2. Contractor will inspect the recycle wash rack at Transportation on a monthly basis. Inspection shall include backwashing of multi-media filters, cleaning of cartridge filters, removal of oil/grease from clarifier and cleaning/maintenance of equipment, as necessary. The discharge shall be sampled on an annual basis to assure compliance with City of Spokane wastewater discharge requirements.

3.2.3. Grit chambers are installed to separate sand, gravel, cinders, food and particles from entering the wastewater collection system while maintaining the organic material in the flow for downstream treatment. A list of grit chamber locations is attached ([Attachment 5](#)).

3.2.4. Grit chambers installed on wash racks shall be pumped out on an as-needed basis.

3.2.5. Manholes and collection lines shall be cleaned and videotaped whenever infrastructure damage is suspected or blockage is occurring.

4. Training and Record Keeping

4.1. Personnel responsible for sewage collection system maintenance shall be properly trained in health and safety issues to include confined space entry and atmosphere testing and monitoring.

4.2. Personnel training shall be documented and maintained on AF Form 55, **Employee Safety and Health Record**.

4.3. 92 CES/CEO shall be responsible for maintaining records of sewer main/lateral cleaning, repair and replacement, as well as submitting changes for as-builts to be updated when necessary.

5. Forms Adopted. AF Form 55, **Employee Safety and Health Record.**

ANTHONY M. MAUER, Colonel, USAF
Commander, 92d Air Refueling Wing

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

City of Spokane Pretreatment Ordinance #C-30677

Fairchild AFB Hazmat Plan

Abbreviations and Acronyms

FAFB—Fairchild Air Force Base

Terms

Non-Domestic Wastewater—A category of wastewater containing water carried wastes other than traditionally derived from human or household customer sources.

Addresses

92 CES/CEV

100 W. Ent St

FAFB WA 99011

92 CES/CEO

100 W. Ent St

FAFB WA 99011

92 AMDS/SGGB

700 Hospital Loop

FAFB WA 99011

Attachment 2**CITY OF SPOKANE DISCHARGE LIMITS**

Corrosivity	pH must not be less than 5.0 or greater than 11.0
Ignitability	Flashpoint > 60 deg. C (140 deg. F)
Reactivity	Not a dangerous waste (WAC 173-303)

Total Metals:**Specific Pollutants****Maximum Concentrations**

Arsenic (As)	0.94 mg/l
Cadmium (Cd)	0.11 mg/l
Copper (Cu)	1.4 mg/l
Chromium (Cr)	5.0 mg/l
Lead (Pb)	0.32 mg/l
Mercury (Hg)	0.2 mg/l
Nickel (Ni)	3.98 mg/l
Silver (Ag)	0.43 mg/l
Zinc (Zn)	7.47 mg/l
BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) a sum total of four results	0.5 mg/l

Other:

Fats, Oils, and Grease (F.O.G)	100 mg/l
Cyanide (CN)	0.49 mg/l

Attachment 3**OIL/WATER SEPARATORS**

Facility	Capacity
100 West Boston	700 gal.
1402 West Wainwright Dr.	500 gal.
102 Taxiway J Road	800 gal.
307 Taxiway J Road	800 gal.
401 South Taxiway I Road	6,000 gal.
1201 West Richmond	800 gal.
501 South Desert Road	2,000 gal.
830 West Artillery Road	700 gal.
650 West Delaware Avenue	500 gal.
700 West California Avenue	11,000 gal.
399 South Doolittle Avenue	250 gal.
405 South Doolittle Avenue	800 gal.
400 South Gate 35 Road	800 gal.
201/211/301/311 Arnold Avenue	100 gal.
201/211/301/311 Arnold Avenue	4,500 gal.
103 South Foulis Avenue	4,500 gal.
400 West Arnold Street	500 gal.
500 West Arnold Street	700 gal.
220 West Castle Street	1,000 gal.
230 West Castle Street	500 gal.
100 West Ent Street	700 gal.

Attachment 4**GREASE TRAPS**

Facility	Capacity
105 Spaatz Street	500 gal.
100 West Bong Street	2,000 gal.
201 East Fairchild HWY	500 gal.
Camp Fairchild 1310 West El Paso	100 gal.

Attachment 5

GRIT CHAMBERS

Facility	Capacity
103 South Foulois Avenue	20 cu ft
101 South Foulois Avenue	25.5 cu ft
151 North Doolittle Avenue	165 cu ft.