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Civil Engineering



**RISK MANAGEMENT REQUIREMENTS
PERTAINING TO CHLORINE STORAGE**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction establishes base policy and identifies required actions to be taken regarding compliance with 40 CFR Part 68, Chemical Accident Release Prevention Procedures and 29 CFR Part 1910, Process Safety Standards, by establishing guidelines and responsibilities for various organizations on Dover AFB relating to the storage of chlorine.

SUMMARY OF REVISIONS

This publication needs to be reviewed in whole for changes.

1. Purpose. In response to Section 112 (r) of the CAA Amendments of 1990, the EPA promulgated 40 CFR Part 68, *Chemical Accident Release Prevention Procedures*, to address potential adverse off-site impacts of accidental releases of specific toxics and flammable chemicals. 40 CFR Part 268 requires that a risk management plan be developed for any of 77 toxic or 63 flammable chemicals if the chemicals are stored or used in a given process above the listed threshold quantities. Additionally, OSHA promulgated 29 CFR Part 1910, *Process Safety Standards*, to regulate many of the same toxic chemicals for on-site impacts to worker safety.

1.1. Dover AFB currently stores chlorine gas at Facilities 610 and 630 in 150-pound cylinders for use in water treatment. The chlorine threshold quantity listed in 40 CFR Part 268 is 2,500 pounds while the chlorine threshold quantity listed in 29 CFR 1910 is 1500 pounds.

1.2. This instruction has been written to ensure that neither threshold quantity for chlorine is exceeded by establishing an administrative constraint on the number of chlorine cylinders stored at Facilities 610 and 630.

2. Scope.

2.1. This instruction is required to establish an administrative constraint on the number of chlorine cylinders stored at the HAZMART and the Water Plant to ensure compliance with 40 CFR Part 68 and 29 CFR Part 1910.

2.2. This instruction shall be updated when either of these regulations is amended.

3. Policy.

3.1. Dover AFB policy is to comply with Federal, state, and local environmental regulations pertaining to chlorine storage. The above requirements take precedence if they conflict with this instruction.

3.2. Implement the actions set forth in section 5 to ensure compliance with 40 CFR Part 68 and 29 CFR Part 1910 regarding chlorine storage on Dover AFB.

4. Organizational Responsibilities for Implementation of this Instruction.

4.1. 436 AW/CC

4.1.1. Acts as EPC chairperson or appoints acting chairperson.

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

4.2. 436 SPTG/CE

4.2.1. Through 436 SPTG/CEV

4.2.1.1. Establishes and publishes technical policy regarding compliance with Federal, state, and local environmental regulations.

4.2.1.2. Shall enforce compliance with this instruction by ensuring that no more than nine (9) 150-pound cylinders of chlorine are stored at any one time by conducting random inspections of Facilities 610 and 630.

4.2.1.3. Shall ensure a sign is displayed clearly stating that any storage of more than nine (9) 150-pound cylinders of chlorine will be in violation of this instruction.

4.2.2. Through 436 SPTG/CEO

4.2.2.1. Ensure Water Plant personnel are aware of this instruction and prohibit the storage of more than nine (9) 150-pound cylinders of chlorine.

4.2.2.2. Ensure a sign is displayed within the chlorine storage area located on the south side of Building 610 clearly stating that the storage of more than nine (9) 150-pound cylinders of chlorine will be in violation of this instruction.

4.2.2.3. Ensure a sign is displayed within the chlorine storage area located on the south side of Building 630 clearly stating that the storage of more than nine (9) 150-pound cylinders of chlorine will be in violation of this instruction.

SCOTT E. WUESTHOFF, Colonel, USAF
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

Abbreviations and Acronyms

CAA—Clean Air Act

CFR—Code of Federal Regulations

EPA—Environmental Protection Agency

EPC—Environmental Protection Committee

HAZMART—Hazardous Materials Pharmacy

OSHA—Office for Safety and Health Administration