



OPERATIONS - VEHICLES & EQUIPMENT WITH CHEMICALS

ENVIRONMENTAL GUIDELINES



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PURPOSE

The purpose of this guideline is to provide guidance on DEN's expectations for storage of vehicles and equipment containing chemicals to mitigate and prevent environmental impacts such as spills, protect stormwater, and ensure safety. This document supports DEN's Industrial Stormwater Management Plan, Individual Industrial Stormwater Permit, and the City and County of Denver's MS4 permit. The stormwater permits require that best management practices are installed, implemented, and maintained to reduce pollutants in stormwater discharges. They also require that potential pollutant sources are identified that may impact stormwater quality. Each operator and tenant conducting chemical storage activities is responsible for understanding the applicable regulations and managing their activities accordingly; this Environmental Guideline is meant as guidance only and does not supersede any regulations.

ACTIVITY DESCRIPTION

The following guideline outlines the general operating requirements involved in storing vehicles and equipment containing chemicals, such as deicing fluids and fuels. Environmental and safety hazards must be considered when storing vehicles and equipment containing chemicals on concourse ramps, airline hangars, cargo ramps, ground support maintenance facilities, and car rental facilities. Such activities include the storage of vehicles that hold deicing fluid totes, fueling trucks, mobile vans for ground support equipment maintenance, and small trailers for mobile oil changes. All airline operations, express and delivery service operations, food catering service operations, GSE operations, and car rental operations must be compliant with federal, state, and local environmental laws, regulations, and permits, and adherence to DEN rules and regulations. Environmental requirements and best management practices for ramp operations are in Rule and Reg 40: Conduct of Commercial Operators using the Airport. Additional environmental requirements for business partners are in Rule and Reg 180, which reviews DEN's EMS. Requirements for ground service equipment and automotive/powered equipment, ramp cleanliness, snow removal, and fire extinguisher maintenance and placement are in Part 170: Operation and Control of Air Cargo. Requirements for storage and transport of fueling vehicles is outlined in Rule and Reg Part 150.

EXPECTATIONS

Best Practices:



- Employee training programs shall inform personnel at all levels of responsibility involved in industrial activities that may impact Stormwater runoff. Training shall address topics such as spill response, good housekeeping, and material management practices. Contractors or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.
- All applicable personnel should complete general environmental awareness training, either in the new employee orientation training, or from their appropriate company representative. Training should cover the following items:
 - All applicable SDSs
 - Waste management practices
 - Spill response for chemicals handled in this activity
 - Perform routine preventative maintenance on equipment to reduce the probability of leaks.
 - Maintain adequate supplies of spill response equipment and materials in accessible locations where spills are likely to occur.
 - Dispose of materials used for clean-up of spills or leaks in accordance with all regulations and requirements.
 - Store all vehicles and equipment containing chemicals in designated areas.
 - Check all ground service equipment and all vehicles for hydraulic oil leaks before use and leaking pressurized gases.
 - Turn off diesel or gasoline powered equipment if uncertain of expected idle time.
 - Ensure storage of equipment, vehicles, and chemicals is properly organized and tidy.
 - If a spill occurs, call DEN Communications Center immediately at 303-342-4200.

Shall not:

- Disposal of any chemicals contained in vehicles or equipment, or that may have leaked or spilled onto surfaces within a storage area, into any sort of drain is prohibited. This includes wash water that may have been generated during any cleaning of the storage area. These liquids must be collected and disposed of appropriately. Prohibited discharges include, but are not limited to, the following:
 - Any oils and greases
 - Pesticides, insecticides, and herbicides
 - Solvents and fuels
 - Deicing fluids
- Disposal of any solid chemicals or residues contained in vehicles or equipment, or that may have leaked or spilled onto surfaces in the storage area, must be disposed of off-site unless alternate disposal practices are approved by DEN ES.
- Do not allow equipment to leak onto outdoor pavements. Such leaks should be contained in drip pans or onto absorbent materials and disposed of appropriately.
- Do not block or restrict entryways and paths to the ramps, buildings, or aircraft
- Do not park vehicles and equipment in non-designated areas such as passenger loading bridges, traffic lanes, emergency exit doors, fire hydrants, or within aircraft wing lines.
- Do not park/operate vehicles containing chemicals near combustion sources
- Do not store incompatible chemicals with each other



- Do not store vehicles and equipment in such a way that it can potentially fall on and injure personnel, pose the risk of spills, and damage other ramp equipment or aircraft, and block the egress of emergency vehicles and personnel

REFERENCES

Contacts

- DEN Communications Center (for spill reporting): 303-342-4200
- DEN Environmental Services (Main Line): 303-342-2730; DENEnvironmental@flydenver.com

Additional Resources

- CDPS MS4 Permit (Permit No. COS000001, Part I.B.1.a.2)
- DEN Rules and Regulation 180
- DEN Industrial Stormwater Management Plan
- 40 CFR 110.3 Discharge of Oil
- 40 CFR 261-282 Federal RCRA Regulations
- 40 CFR 401 Effluent Limitation Guidelines
- 6 CCR 1007-3, Part 261 State RCRA Regulations