

NPDES Compliance Inspection Manual

Appendix S



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Appendix S – Industrial Source Control BMP Questions

Industrial Source Control BMP Questions

FUELING

1. Has spill and overfill prevention equipment been installed?
2. Are vehicle fuel tanks often "topped off"?
3. Have steps been taken to protect fueling areas from rain?
4. Is runoff to the fueling area minimized?
5. Are oil/water separators or oil and grease traps installed in storm drains in the fueling area?
6. Is the fueling area cleaned by hosing or washing?
7. Do you control petroleum spills?
8. Are employees aware of ways to reduce contamination of storm water at fueling stations?
9. Where does the water drain from the fueling area?
10. Do any of the drains connect to wells?

SUMMARY OF FUELING STATION BMPs
<ul style="list-style-type: none">• Consider installing spill and overflow protection.• Discourage topping off of fuel tanks.• Reduce exposure of the fuel area to storm water.• Use dry cleanup methods for the fuel area.• Use proper petroleum spill control.• Encourage employee participation.

MAINTAINING VEHICLES AND EQUIPMENT

1. Is maintenance which involves cleaning of vehicle and/or equipment parts (including engine, transmission, brake or other miscellaneous parts) performed on-site?
2. Does the cleaning involve the use of solvents or surfactants?
3. Has the facility looked into using nontoxic or less toxic cleaners or solvents?
4. Are work areas and spills washed or hosed down with water?
5. Are spills or materials washed or poured down the drain?
6. Are oil filters completely drained before recycling or disposal?
7. Are incoming vehicles and equipment checked for leaking oil and fluids?
8. Are wrecked vehicles or damaged equipment stored onsite?
9. Does the facility recycle any of the automotive fluids or parts?
10. Can the facility reduce the number of different solvents used?
11. Are wastes separated?
12. Does the facility use recycled products?

SUMMARY OF VEHICLE MAINTENANCE AND REPAIR BMPs

- Check for leaking oil and fluids.
- Use nontoxic or low-toxicity materials.
- Drain oil filters before disposal or recycling.
- Do not pour liquid waste down drains.
- Recycle engine fluids and batteries.
- Segregate and label wastes.
- Buy recycled products.

PAINTING VEHICLES AND EQUIPMENT

1. Are vehicles or other equipment painted on-site?
2. In preparation for painting, is old paint removed physically (sanding, sand blasting, etc.) or chemically (solvent paint stripper)?
3. Before applying new paint, are surfaces chemically prepared (coating, etching, cleaning etc.)?
4. Is care taken to prevent paint wastes from contaminating storm water runoff?
5. Are wastes from sanding contained?
6. Are parts inspected before painting?
7. Is the facility using painting equipment that creates little waste?
8. Are employees trained to use spray equipment correctly?
9. Does the facility recycle paint, paint thinner, or solvents?
10. Are wastes separated?
11. Can the facility reduce the number of solvents used?
12. Does the facility use recycled products?

SUMMARY OF PAINTING OPERATION BMPs

- Inspect parts prior to painting.
- Contain sanding wastes.
- Prevent paint waste from contacting storm water.
- Use proper interim storage of waste paint, solvents, etc.
- Evaluate efficiency of equipment.
- Recycle paint, paint thinner, and solvents.
- Segregate wastes.
- Buy recycled products.

WASHING VEHICLES AND EQUIPMENT

1. Has the facility considered using phosphate-free biodegradable detergents?
2. Are vehicles, equipment, or parts washed over the open ground?

SUMMARY OF VEHICLE AND EQUIPMENT WASHING BMPs
<ul style="list-style-type: none">• Consider use of phosphate-free detergent.• Use designated cleaning areas.• Consider recycling wash water.

LOADING AND UNLOADING MATERIALS

1. Are tank trucks and material delivery vehicles located where spills or leaks can be contained?
2. Is loading/unloading equipment checked regularly for leaks?
3. Are loading/unloading docks or areas covered to prevent exposure to rainfall?
4. Are loading/unloading areas designed to prevent storm water runoff?
5. Is piping system routinely checked for leaks?
6. Are there alarms to alert staff of potential problems such as high levels in receiving tanks or pressure irregularities in transmission lines?
7. Where appropriate (especially where transmission lines are long or buried), is the piping system outfitted with flow meters to ensure that the amount unloaded equals the amount received?

SUMMARY OF LOADING/UNLOADING OPERATIONS BMPs
<ul style="list-style-type: none">• Contain leaks during transfer.• Check equipment regularly for leaks.• Limit exposure of material to rainfall.• Prevent storm water runoff.

LIQUID STORAGE IN ABOVE-GROUND TANKS

1. Do storage tanks contain liquid hazardous materials, hazardous wastes, or oil?
2. Are operators trained in correct operating procedures and safety activities?
3. Does the facility have safeguards against accidental discharge?
4. Are tank systems inspected, and is tank integrity tested regularly?
5. Are tanks bermed or surrounded by a secondary containment system?

SUMMARY OF BMPs FOR LIQUID STORAGE IN ABOVE-GROUND TANKS
<ul style="list-style-type: none">• Comply with applicable State and Federal laws.• Properly train employees.• Install safeguards against accidental release.• Routinely inspect tanks and equipment.• Consider installing secondary containment.

INDUSTRIAL WASTE MANAGEMENT AND OUTSIDE MANUFACTURING

1. Has the facility looked for ways to reduce waste at the facility?
2. Has the facility considered waste reduction BMPs?
3. Are industrial waste management and outside manufacturing areas checked often for spills and leaks?
4. Are industrial waste management areas or manufacturing activities covered, enclosed, or bermed?
5. Are vehicles used to transport wastes to the land disposal or treatment site equipped with anti-spill equipment?
6. Does the facility use loading systems that minimize spills and fugitive losses such as dust or mists?
7. Are sediments or wastes prevented from being tracked offsite?
8. Is storm water runoff minimized from the land disposal site?

SUMMARY OF INDUSTRIAL WASTE MANAGEMENT AND OUTSIDE MANUFACTURING BMPs
<ul style="list-style-type: none">• Conduct a waste reduction assessment.• Institute industrial waste source reduction and recycling BMPs.• Prevent runoff and runoff from contacting the waste management area.• Minimize runoff from land application sites.

OUTSIDE STORAGE OF RAW MATERIALS, BY-PRODUCTS, OR FINISHED PRODUCTS

1. Are materials protected from rainfall, runoff, and runoff?

SUMMARY OF BMPs FOR OUTSIDE STORAGE OF RAW MATERIALS, BY-PRODUCTS, OR FINISHED PRODUCTS
<ul style="list-style-type: none">• Cover or enclose materials.

SALT STORAGE

1. Are salt piles protected from rain?
2. Is storm water runoff prevented from contacting storage piles and loading and unloading areas?

SUMMARY OF SALT STORAGE FACILITIES BMPs
<ul style="list-style-type: none">• Put salt under a roof.• Use temporary covers.• Enclose or berm transfer areas.