

IC1. AIRPLANE MAINTENANCE AND REPAIR

Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner¹. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

The BMPs outlined in this fact sheet target the following pollutants:

Targeted Constituents	
Sediment	x
Nutrients	x
Floatable Materials	
Metals	x
Bacteria	
Oil & Grease	x
Organics & Toxicants	x
Pesticides	
Oxygen Demanding	x

MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Utilize dry cleanup methods (i.e. sweeping), try to avoid washing down work areas.
- Use drip pans and/or containers where needed.
- Dispose of all waste products properly and recycle whenever possible.
- Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down storm drains.
- Clean storm drain inlet(s) on a regular schedule and after large storms.
- Store idle equipment under cover.
- Keep equipment clean and free of excessive oil and grease.

Stencil storm drains

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- Provide on-going employee training in pollution prevention.

Provided below are specific procedures associated with each of the minimum BMPs along with procedures for additional BMPs that should be considered if this activity takes place at a facility located near a sensitive waterbody. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

1. Only conduct maintenance or repair work in designated areas.

- Conduct maintenance and repair work in a designated area with spill containment.
- Construct a berm or intercept trench at doorways to prevent stormwater runoff as well as the runoff of uncontaminated stormwater from adjacent areas.

¹ EPA " Preliminary Data Summary of Urban Stormwater Best Management Practices"

- 2. Utilize dry cleanup methods (i.e. sweeping), try to avoid washing down work areas.**
 - If work areas are washed and if discharge to the sanitary sewer is allowed treat water with an appropriate treatment device (e.g. clarifier) before discharging. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
 - If discharge to the sanitary sewer is not permitted, pump water to a tank and dispose of properly.
- 3. Use drip pans and/or containers where needed.** Keep a drip pan or container under the airplane when unclipping hoses, unscrewing filters, or conducting other maintenance and repair work that may result in fluids dripping or splattering onto the shop floor or ground.
- 4. Inspect airplanes for leaks.**
 - Inspect incoming airplanes for leaks.
 - Inspect airplanes for leaks during regular maintenance; keep records.
- 5. Dispose of all waste products properly and recycle whenever possible.**
 - Promptly transfer waste materials to the proper waste or recycling drums.
 - Store waste and/or recycling drums in designated areas with spill containment.
 - Separate hazardous and non-hazardous wastes, do not mix used oil and solvents and keep chlorinated solvents separate from non-chlorinated solvents.
 - Recycle greases, used oils, oil filters, antifreeze, cleaning solutions, batteries, and hydraulic and transmission fluids whenever possible.
- 6. Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down storm drains.**
- 7. Clean storm drain inlet(s) on a regular schedule and after large storms.**
- 8. Store idle equipment under cover.**
- 9. Keep equipment clean and free of excessive oil and grease.**
- 10. Completely drain oil filters before recycling/disposal.**
- 11. Use non-toxic chemicals for maintenance when possible.**
- 12. Minimize the use of solvents.**

Training

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
 - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
 - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
 - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 4. Use a training log or similar method to document training.**

Stencil storm drains

Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets. Stencils should read “No Dumping Drains to Ocean”.

References

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