Environmental Management Practices



Activity: Bulk Storage and Handling ~ Dry

EMP No.

Description:

Prevent emissions of dusts and entrainment of sediments in runoff from dry bulk storage and handling activities.

O-3



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Targeted Activities:

Dry bulk storage Dry bulk handling

	Potential Pollutants:
Development EMPs: ■ Cover storage and handling facilities where practicable and neces-	Dust Sediment Metals Hydrocarbons Salts
 sary Install dust suppression mechanisms Minimize free fall of materials by installing telescoping arm loaders and conveyers Utilize water sprays where practical Use vacuum collectors Use slurry transport where feasible Contain piles with perimeter walls Minimize pile heights Remove materials from the bottom of piles to minimize dust resuspension 	Target Environmental Media: Surface Water Air Soil US Regulatory Requirements & Guidance:
 Use pneumatic or continuous screw conveyors, where possible Cover conveyors Provide adequate space for maintenance of equipment Provide separate space for vehicle cleaning and maintenance Runoff from cleaning area to sanitary sewer or industrial treatment facility Install filtering mechanisms in storm drain system to minimize transport of solids to storm water Consider installing drainage swales, filter berms, drainage inlet protectors such as fabric or gravel, sediment traps, or sediment basins Install self-contained truck and railcar wash facilities 	40 CFR 50 -99 Clean Air Act Regula- tions 40 CFR 117.3 Determination of

Environmental Management Practices



EMP No. O-3

Operational EMPs:

- Ensure all equipment is in proper working order
- Ensure transport vehicles are covered whenever possible
- Ensure vehicle cleaning occurs away from storm drains.
 - Connect to sanitary sewer or industrial treatment facility if possible.
- Minimize idling of vehicles during transport activities
- Inspect vehicles regularly to minimize spills or leaks
- Conduct regular inspection and maintenance program on equipment and vehicles.
- Clean up spills immediately
- Retrofit storm drain system to include filtering mechanisms
 - Consider installing drainage swabs, filter berms, drainage inlet protection, sediment traps, or sediment basins
- Ensure hatches are covered when material handling is not being conducted
- Conduct routine sweeping of docks and handling areas
- Encourage ships to sweep decks and other areas where dust may be suspended
- Avoid loading/unloading during windy conditions, if possible
- Conduct routine sweeping of truck/rail storage areas and roadway surfaces

Considerations:

- Provide training on handling and transport
- Develop routine inspection and maintenance program and keep records of activities.
- Costs may be very high for installation and maintenance of covered handling areas or dust suppression facilities