



Navy Environmental Quality Fact Sheet



Do you use a water curtain paint booth?

Would you like to improve this process in the following areas?

- **Meeting environmental compliance regulations** -- Reduce hazardous waste disposal. Regulatory areas include RCRA.
- **Improving workers' safety and health** -- Reduce worker exposure to hazardous paints due to improved particulate removal efficiency.
- **Increasing productivity** -- Decrease operating costs due to elimination of water curtain chemical and electrical costs. Hazardous waste disposal costs dramatically reduced.
- **Saving money** -- Eliminate hazardous waste disposal and some maintenance and utility costs.



Dry filter paint booth

*Water curtain paint booths are still in use at many Navy installations. These paint booths remove paint particulates from exhaust air using water. The paint particles collect as a sludge in the water and must be removed and disposed as hazardous waste. A dry filter system replaces the water curtain with a system consisting of paper, fiberglass or cloth filters. These filters come in a wide range of configurations. The filters require periodic replacement when they become filled with paint. The use of dry filters results in a dramatic reduction in hazardous waste disposal. Used dry filters must be disposed as a hazardous waste. Wet to dry paint booth conversions have been completed successfully at a large number of Navy installations. **This equipment is available through the Navy Pollution Prevention Equipment Program.***

How can you achieve these improvements?

Install a Dry Filter Paint Booth.

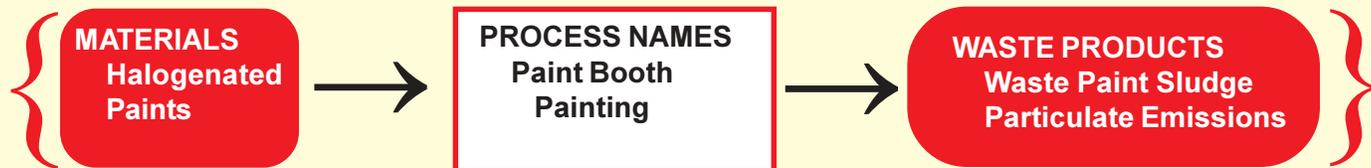
How does this equipment work?

Paint overspray is captured in a dry filter system instead of a water curtain.

How will this equipment save you money?

Typically the equipment will pay for itself in less than one year. Cost to implement is approximately \$2,000.

Typical Process Flow Diagram



How can this technology eliminate or reduce pollution?

This technology can eliminate the generation of waste paint sludge associated with a water curtain paint booth. Implementation will result in the following pollution reductions:

- Eliminates the Generation and Disposal of Water Curtain Paint Sludge
- Reduction in Paint Particulate Emissions Due to Increased Removal Efficiency
- Eliminates the Use of Water Curtain Chemical Additives

Which shops can benefit most from this technology?

This technology can be used in any processes that use water curtain paint booths. Typical shops include:

- Aircraft Painting
- Vehicle Painting
- Support Equipment Painting

Take action: How can you implement this technology?

- **Activity Shop & Work Center Personnel.** If you work at an activity, contact your Pollution Prevention Program Manager. The P2 Program Manager can provide more information and conduct a more detailed analysis, and may be able to provide this equipment at no cost to a Shop or Work Center.

- **Activity Pollution Prevention Manager.** Request funding and installation assistance for this technology through the Navy P2 Equipment Program. Depending on the application, the Environmental Requirements Cookbook may contain project submission information for annual budget submissions to your major claimant.

- **For Additional Technical Information.** More information about this technology can be found in the Joint Service P2 Opportunity Handbook Datasheet No. 4-01([Web: http://p2library.nfesc.navy.mil/P2_Opportunity_Handbook/4_1.html](http://p2library.nfesc.navy.mil/P2_Opportunity_Handbook/4_1.html)).

Achieving Environmental Compliance Through Pollution Prevention

Every day the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by implementing pollution prevention technologies and methods to reduce compliance requirements. This Fact Sheet is one in a series designed to encourage activities to implement pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

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