



# Do you generate used hydraulic fluid?

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

- **Meeting environmental compliance regulations** -- Reduce hazardous waste disposal. Applicable regulatory areas includes RCRA.
- **Improving workers' safety and health** --No change to current operations
- **Increasing productivity** -- Reduce disposal and procurement of hydraulic fluid.
- **Saving money** -- Decrease disposal costs and minimize the amount of hydraulic fluids purchased.



Hydraulic fluid purifier equipment

*The hydraulic fluid purifier is a small, portable, electrically powered ground support system designed to maintain fluid performance specifications. The system removes particulates, water, air and chlorinated solvent contaminants using 3-micron absolute filters, water adsorption filters, air dessicant filters, and a low vacuum. The hydraulic fluid purifier does not alter the physical or chemical properties of the reconditioned fluid. The unit is mobile and can decontaminate 50 gallons of hydraulic fluid per hour. This equipment is available through the Navy Pollution Prevention Equipment Program.*

## How can you achieve these improvements?

Implement Hydraulic Fluid Purifier Equipment.

## How does this equipment work?

This technology reconditions hydraulic fluid by removing contaminants to levels permissible for aircraft and support equipment.

## How will this equipment save you money?

The hydraulic fluid purifier reduces hydraulic fluid procurement and disposal costs. The typical cost to implement is \$8,000. The cost savings is highly variable depending on the amount recycled.

How can this technology eliminate or reduce pollution?

When implemented, this technology can eliminate the use of harmful solvents. Implementation will result in the following pollution reductions:

- Large Reduction of Waste Hydraulic Fluid
- Large Reduction in Purchased Hydraulic Fluid

Which shops can benefit most from this technology?

This technology can be used in operations that require changing of contaminated hydraulic fluid. Typical shops include:

- Aircraft Maintenance and Repair
- Ground Support Equipment (GSE) Maintenance

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 Technical Library Handbook Datasheet number 6\_II\_6 ( [Web: http://p2library.nfesc.navy.mil/P2\\_Opportunity\\_Handbook/6\\_II\\_6.html/](http://p2library.nfesc.navy.mil/P2_Opportunity_Handbook/6_II_6.html/)) and the PPEP Equipment Book.

### 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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