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1. Describe the type and size of your military installation.

The Army National Guard has facilities at 54 locations throughout Illinois. 31 facilities perform maintenance on vehicles and three of these facilities perform helicopter maintenance. The maintenance facilities are similar to auto repair shops. The armory locations are buildings with offices, training classrooms and unit supply rooms (for unit equipment). Typically no vehicle maintenance is performed at armories.

2. Environmental goals for ILARNG and the progress made towards achieving them to date to date.

1) Establish filter systems on hot parts washers. The small and large hot parts washers have all been retrofitted with the ultrafiltration system. The medium hot parts washers are scheduled to be completed in 2002.

2) Reduce waste from small arms weapons cleaning and consolidate the waste at the firing range. The Weapons Cleaning Facility at the Marseilles Training Site is 75% completed.

3) Establish a system to reuse the cleaning fluid in the SMART Washer parts cleaner system (a combination of degreaser solution and microbes). We completed this by changing our management methods for the SMART Washers. We developed protocols based on the research completed by the Waste Management and Research Center to address the maintenance and system controls necessary for the Smart Washers to work optimally and never have to dispose of the fluid.

4) Establish a web based virtual pharmacy for excess hazardous materials in the Illinois Army National Guard. We have developed a pharmacy at Camp Lincoln for excess hazardous materials, which is managed by the USPFO Hazardous Materials Handler. Excess usable materials are collected from any ILARNG site and stored at Camp Lincoln. The Hazardous Materials Handler keeps an ongoing list of materials in the pharmacy and puts out an email list of availability to unit supply sergeants and shops on a monthly basis. The next step is to establish a web page where maintenance shops and units can post a list of excess materials located at their site. This will allow units and shops to coordinate directly for the transfer of the material and avoid disposing of the items.

5) Reduce paint waste at the Camp Lincoln facility by 50%. We are working with the Surface Maintenance Office to establish the paint distillation unit and system that is currently in use at the North Riverside Combined Support Maintenance Shop.

6) Reduce solid waste at our locations where recycling services are available. Each facility is being encouraged to establish a recycling program using local recycling facilities until the I-Cycle program becomes available in their area.

7) Reduce the waste generated by the Helicopter fuel path cleaner. We have not been able to find a way to reduce the waste generated by this process.


Dispose of off-specification gasoline and aviation fuel with vendors who use it in fuel blending or energy recovery facilities.

Set up ultrafiltration membrane filters to clean solutions from small and large hot parts washers so the solution can be re-used in the process. This reduced the waste stream to just small amounts of oils and grease collected from the filter
process which is planned to be added to the shop’s used oil collection. It also eliminated wastewater discharge to the sanitary districts.

At about 50% of our maintenance facilities, aerosol cans are evacuated into an aerosol can evacuator attached to a small drum. The can contents are collected for disposal and the can is recycled. This eliminates discarding empty cans from the solid waste trash and partially full cans from the hazardous waste disposal. The aerosol is filtered through a carbon filter.

Vehicle batteries are exchanged one for one for new batteries through a vendor.

Vehicle tires are exchanged one for one for new tires through vendors.

White paper, office waste (colored paper, magazines, newspaper, etc.) and cardboard is recycled at Camp Lincoln, Effingham, and several facilities located in the Chicago area through the State of Illinois’ I-Cycle program. Peoria’s solid waste company has a system already in place for the recycling of paper.

At the maintenance facilities, all types of metal are recycled through local recycling vendors and the Defense Reutilization and Marketing Office (DRMO).

At about 25% of our armory facilities, microbes are added the kitchen grease traps to clean them. This eliminates a special waste disposal and the time it takes to physically clean the trap once a month.

At our North Riverside Combined Support Maintenance Shop we distill the paint gun cleaning solvent for re-use on site. This has reduced our paint waste from this facility by approximately 75%.

A non-hazardous PD680 alternative solvent is being used in solvent tanks set up with a filtration system at 100% of the maintenance facilities. The filtration system will extend the life of the alternative solvent to a minimum of 1 year and a maximum of four years between disposals.

Recycling fluorescent, mercury and sodium vapor lights, PCB containing ballasts and lithium, magnesium, lead acid and ni-cad batteries.

A recycling vendor was found to recycle carpeting which was taken up and removed during a remodeling project completed in The Adjutant General’s building at Camp Lincoln.

4. Environmental improvements, cost-savings or other benefits associated with implementing P2 projects to date.

29 of 31 maintenance facilities maintained a Conditionally Exempt Small Quantity Generator status.

The use of aqueous parts cleaners and alternative solvent has improved the health environment of the maintenance shop employees.

5. Efforts to involve members of the local community in your environmental programs (e.g., convened public meeting to identify issues and solicit feedback, distributed facility information using newsletters or media, conducted an installation tour, formed a citizen advisory committee).

None

6. Efforts to foster exchange of P2 information and technology transfer. (e.g., provided technical assistance to other facilities, organized tours of innovative installation projects, worked with suppliers and gave a presentation at a technical meeting).

We are still working with the Waste Management Research Center on the completion of the Weapons Cleaning Facility at Marseilles Training Site and the completion of the retrofit of the medium hot parts washer with the ultrafiltration systems. The Weapons Cleaning Facility is a unique and first of its kind approach for the cleaning of multiple military weapons at one time. This could be used by other military and civilian law enforcement agencies in the future.

Waste Management Research Center also used the information from our SMART Washer study to provide the manufacture with ideas to improve the system.
The ILARNG started an information exchange on environmental issues with the Polish Military that includes pollution prevention techniques.