



**DEPARTMENT OF THE AIR FORCE**  
HEADQUARTERS 49TH FIGHTER WING (ACC)  
HOLLOMAN AIR FORCE BASE, NEW MEXICO



MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau  
Attn: Mr. James Bearzi  
2905 Rodeo Park Drive, East Bldg 1  
Santa Fe NM 87505-6303

FROM: 49 CES/CEV  
550 Tabosa Ave  
Holloman AFB NM 88330

SUBJECT: Fiscal Year 2007 Holloman AFB Waste Minimization Plan

1. As facility owner of the permitted Treatment, Storage, and Disposal Facility, Holloman AFB certifies, as required in 40 CFR 264.73(b)(9), that a program to reduce the volume and toxicity of hazardous waste is in place. This letter and attachments serve to satisfy the year-end requirement according to Section II.D., Waste Minimization of the Resource Conservation and Recover Act Hazardous Waste Facility Operating Permit, EPA ID No. NM6572124422.
2. Attached is the Fiscal Year 2007 Holloman AFB Waste Minimization Program for the period of 1 Oct 06 through 30 Sep 07. This waste minimization program includes the 49th Wing Environmental Policy Statement and a matrix of waste streams produced by Holloman AFB operations.
3. If you have any questions, please contact Mr. Benito Avalos at (575) 572-3931.

DEBORAH J. HARTELL  
Chief, Environmental Flight

Attachment:  
Fiscal Year 2007 Holloman AFB Waste Minimization Program

## **Fiscal Year 2007 Holloman AFB Waste Minimization Program**

### **Waste Minimization Plan Objective**

Any written policy or statement that outlines the goals, objectives, and/or methods for source reduction and recycling of hazardous waste at the facility.

Any employee training or incentive program designed to identify and implement source reduction and recycling opportunities for all hazardous/mixed waste.

Any source reduction and/or recycling measures implemented in the last five years or planned for the near future.

### **Holloman AFB Fiscal Year 2007 Actions**

A written Wing Environmental Policy Statement that includes the entire base signed by the Holloman AFB 49th Fighter Wing Commander. Copy attached.

Employee Training or incentive programs include participation in:

- Annual Air Force Environmental Training Symposium
- Quarterly Air Force Internal Environmental Compliance Assessment Management Program
- Ongoing Pollution Prevention Opportunity Assessments

Source reduction measures include:

- Aqueous parts washers
- Free issue program enabling use of left over chemicals instead of disposal;
- Donation of free issue and expired shelf life chemicals to non profit organizations;
- Environmental Management Information System which requires materials to be authorized before procurement and tracks the amount of material purchased. This enables an in-depth review of the procurement practices of shops; and
- Introduction of special paint spray guns that will reduce the amount of paint and solvent use for small painting operations.
- Recycling of used antifreeze.

Planned source reduction/recycling measures include:

- Use of premoistened solvent wipes to reduce solvent use for cleaning where solvent use is required to meet Technical Order requirements for air craft maintenance.

## Waste Minimization Plan Objective

An itemized list of dollar amounts of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste.

Factors that have prevented implementation of source reduction and/or recycling.  
Sources of information on source reduction and/or recycling received at the facility (e.g. local government, trade associations, suppliers, etc.)

An investigation of additional waste minimization efforts that could be implemented at the facility. This investigation shall analyze the potential for reducing the quantity and toxicity of each waste stream through production process change, production reformulation, recycling, and all other appropriate means. The analysis shall include an assessment of the technical feasibility, cost, and potential waste reduction for each option.

A flow chart or matrix detailing all hazardous wastes it produces, by quantity and type, including mixed waste, and by building/area and program if consistent with security considerations.

Demonstration of the need to use those processes which produce a particular hazardous waste due to a lack of alternative processes, available technology, or available alternative processes that would produce less volume of toxic waste.

Demonstration of the applicability or

## Holloman AFB Fiscal Year 2007 Actions

Through the end of FY2007, 35,122 lbs of hazardous waste were recycled through SafetyKleen at an operating cost of over \$48,000.00.

The dollar amount for Silver Recovery is not available. The dollar amount for lead scrap metal (tire weights, scrap foil from the hospital, shielded cables) sent off for recycling is not available.

Remoteness of the base. Inadequate sources for recycling.

Course attendance, online searches, and networking with others at the Air Force Environmental Training Symposium, Environmental Technology Symposium and Workshop, other Air Force Bases, commercial entities through association with the New Mexico Recycling Coalition and Environmental Protection Agency.

Investigation of waste minimization:

- Opportunity Assessments are continued to evaluate waste minimization opportunities
- Review of X-ray operations to determine the feasibility of converting to digital imaging to eliminate use of photograph developer and fixer solution that produce a silver containing hazardous waste

Matrix attached. Routine operations at Holloman AFB do not produce mixed waste streams.

The requirements to use processes which produce a particular hazardous waste are driven by our mission (Air Defense of the USA) including operations and maintenance of complex aircraft.

**Waste Minimization Plan Objective**  
inapplicability of the following waste  
minimization techniques:

- A program that inventories the amount of contaminated lead that exists at the facility
- A program that substitutes steel for lead whenever possible
- A program for coating lead with a strippable coating to prevent its entire contamination, if it is impossible to substitute steel for lead
- A program or bench scale method to decontaminate the contaminated lead
- Use of non-hazardous liquid scintillation cocktail solution
- A program designed to prevent commingling of radioactive waste

**Holloman AFB Fiscal Year 2007 Actions**

Not Applicable – Operations at HAFB do not produce radioactive contaminated lead

Not Applicable – Routine operations at HAFB do not produce radioactive contaminated lead

Not Applicable – Operations at HAFB do not produce radioactive contaminated lead

Not Applicable – Operations at HAFB do not produce radioactive contaminated lead

Not Applicable – Scintillation cocktail solution is not used at HAFB.

Not Applicable – Routine operations at HAFB does not produce radioactive waste



## DEPARTMENT OF THE AIR FORCE

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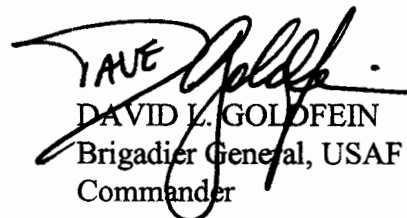
MAR 28 2007

### MEMORANDUM FOR DISTRIBUTION A & B

FROM: 49 FW/CC

SUBJECT: Wing Environmental Policy Statement

1. The 49th Fighter Wing is dedicated to protecting the environment through the conservation of our natural resources. This policy requires the support of all stakeholders in order to succeed. This statement establishes the direction of the 49th Fighter Wing in its efforts to accomplish the huge task of environmental protection.
2. In the process of accomplishing everyday duties, people perform tasks that could potentially affect the environment. Our duty is to provide guidance and leadership to make environmental protection attainable. We must spread the word on programs and policies, and make sure everyone in the organization knows how and why we put so much effort into this area.
3. Our goals are simple and direct, and establish clear priorities. We will comply with all laws and regulations and clean up areas where we, or our predecessors, have failed to comply. Commanders must take responsibility for the areas under their supervision and understand the requirements and standards of compliance.
4. As an organization, we must also go several steps beyond compliance. We can improve the way we comply by improving our comprehensive pollution prevention program. This means minimizing the use and disposal of hazardous chemicals, implementing waste reduction opportunities, and recycling solid wastes when possible. We must examine our processes and look for areas where improvements can be made. I challenge every unit in the wing to help reduce our environmental footprint.
5. Holloman Air Force Base is a recognized leader in protecting the environment. We have accomplished a great deal in the past and now must look to the future. Preventing pollution from the beginning eliminates environmental non-compliance. Everyone must do his or her part to make that happen.

  
DAVID L. GOLDFEIN  
Brigadier General, USAF  
Commander

**HAFB Waste Streams**  
**1 October 2005 - 30 September 2006**

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Medical Logistics	12	Expired Shelf Life	liquid	D001, D002	88
90-Day Facility	149	Lithium Batteries	solid	D001, D003	241
90-Day Facility	149	Magnesium batteries.	solid	D007, D005	0
90-Day Facility	149	Mercury thermometers, mercury bulbs, rags, absorbent, debris	solid	D009	1266
90-Day Facility	149	Mercury Batteris	solid	D009	36
90-Day Facility	149	Ni-Cad Batteries (wet filled)	solid	D006	0
Allied Trades	195	Rags contaminated w/ solvent, reducers, paints	solid	F005	0
Vehicle Maintenance	198	Gasoline fuel filters and absorbents	solid	D018	0
Machine Shop	280	Rags, absorbent and debris	solid	D006	0
Machine Shop	280	Expired Shelf Life	liquid	D001, D018	16
Structural Repair/Sheet Metal	281	Rags, absorbent, debris, metal shavings	solid	D007, F005	81
Wheel and Tire	282	Jet Wash Water	liquid	D006	2770
Corrosion Control	282	Paint Booth Filters	solid	D007	360
Corrosion Control	282	Rags and debris contaminated with MEK	solid	F002, F005	835
Corrosion Control	282	Used blasting media	solid	D006, D007	1413
Corrosion Control	282	Waste paint related material	liquid	D001, D006, D007, F003, F005	907
Aircraft Repair	286	Parts Washer Fluid	liquid	D006, D007	2404
Aircraft Repair	286	Rags, absorbent, paper, debris	solid	D006, F003, F005	70
Aircraft Repair	286	Used Solvent Naphtha	liquid	D001, D006	1562
Aircraft Repair	286	Used SVB-175 Universal Cleaner	liquid	D006, D008	1268
Aircraft Maint./Paint Booth	294	Rags/Debris	solid	D007, F005	114
Aircraft Maint./Paint Booth	294	Mixed used paint	liquid	D007, F002, F005	467
NDI	297	Used Fixer Solution	liquid	D011	0
Propulsion	300	Fluid carbon remover.	liquid	D006	0
Propulsion	300	Ultrasonic water solution from parts washer	liquid	D006	0
Propulsion	300	Vapor blast Media and debris	liquid	D007	232
Propulsion	300	Water from Small Blue Parts Washer	liquid	D006, D007	1799
AGE Support	309	Jet Wash Water	liquid	D006	1722
AGE Support	309	JP-8 & Gasoline Filters	solid	D018	171
Ground Equipment Shop	314	Rags, absorbents and debris	solid	F005, D006	688
Fuel Shop	315	Rags, absorbent, debris	solid	D006, F005	161
Hydraulics Shop	500	Rags, Absorbents, Debris	solid	D006	0
T-38 Support	578	Rags & Debris	solid	D006	1505
Fuels	701	Expired Shelf Life	liquid	D001, D002, D003	0
Hazmart	806	Dried paints, silicones, adhesives, sealants	solid	D007, D005, D011, D035	174

**HAFB Waste Streams**  
**1 October 2005 - 30 September 2006**

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Hazmart	806	Expired Shelf Life	liquid	D001, D002, D005, D007, D008, D011, D035	2691
Hazmart	806	Expired Shelf Life	solid	D005, D007, D035	2
Hazmart	806	Paints, solvents, silicones, adhesives, sealants	liquid	D001, D005, D007, D010, D035, D039	4273
Sensor Photo	823	Expired Shelf Life	liquid	D001, D018	0
Paint Barn	830	Paint booth filters, rags, and painting debris	solid	D007, F002, F005	4456
Paint Barn	830	Paint Related Material	liquid	D001, D007, D035, F005	1265
Paint Barn	830	Used plastic blast media and/or blaster filters	solid	D006, D007	4721
Paint Barn	830	Used tubing with hardened epoxy primer coating	solid	D007	0
Optics	842	Rags w/solvent and debris	solid	F001	351
Motor Pool	844	Rags, Fuel Filters, Debris	solid	F002, F003	573
Motor Pool	844	Rags, Fuel Filters, Debris	solid	D018, D040, F002, F003	0
Paint Shop	856	Rags, debris w/ paint and solvent	solid	F003, F005, D035	90
Wheel/Tire	866	Bead Blast Filters	solid	D007	307
Wheel/Tire	866	Jet Wash Water	liquid	D010	0
Wheel/Tire	866	Rags, PPE, absorbent, paint dust, debris, sealants	solid	D006	570
Fuel System Repair	868	Rags, absorbent, sealant, debris	solid	F003, F005	384
9th AMU Support	868	Rags, coveralls, absorbents and debris	solid	D006, D027	4081
	877	Rags, paper, debris	solid	D008	23
Armament	883	Rags, absorbent, debris, sanding disks, PPE, cover	solid	D006	0
Armament	883	Wastewater from APW	liquid	D006	0
8th AMU Support	894	Rags, absorbent, debris	solid	F001	0
MARS	898	Expired Shelf Life	liquid	D001	0
MARS	898	Rags/Debris	solid	D006	480
Corrosion Control	903	Bead Blast Filters	solid	D006	0
Corrosion Control	903	Paint dust and blast media	solid	D006	0
Corrosion Control	903	Rags, paint booth filters, paint booth paper, debris	solid	F005	2473
Corrosion Control	903	Waste paint related material	liquid	D001, F005	1445
Welding Shop	1178	Blast Media	solid	D006	84
Paint Shop	1178	Rags	solid	F003, F005	0

**HAFB Waste Streams**  
**1 October 2005 - 30 September 2006**

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Paint Shop	1178	Waste Paint & Solvents	liquid	D001, D006, D007, D008, F003, F005	1459
Paint Shop	1178	Abrasive blast media w/ filters	solid	D006	84
Newtec	1181	Rags, debris with solvent	solid	F001	118
Equipment Maintenance	1226	Spent Brake & Clutch Cleaning Solution	liquid	D001	164
RAMS	5005	Waste Paint	liquid	D001, D010, F003, F005	0
RAMS	5005	1:Rags, absorbent, debris	solid	F003, F005	116
RAMS Maintenance	5018	Waste paint	liquid	D001, D008, D010, D018, D039, F003, F005	0
Vehicle Maintenance	7000	Waste paint	liquid	D001, D007, D008, D010, F003, F005	0
Spill Cleanup Materials	9997	Absorbent Material with Unleaded Fuel	solid	D001, D018	75
Spill Cleanup Materials	9997	JP-8 with Absorbent Material	solid	D001	42
	9997	Lead acid batteries and debris	solid	D004, D008	151
Miscellaneous	9999	Expired Shelf Life	liquid	D001, D035	0
Miscellaneous	9999	Expired Shelf Life	solid	D007	0
Miscellaneous	9999	Lead Acid Batteries	solid	D002, D008	0
Miscellaneous	9999	Potassium Hydroxide Reagent	liquid	D002	341
				<b>Total for 1 October 2006 through 30 September 2007</b>	<b>51,169</b>