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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

NOV 24 2008

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

SUBJECT: Fiscal Year 2008 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 2008 Holloman AFB Waste Minimization Program for the period of 1 Oct 07 through 30 Sep 08. 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.

A handwritten signature in black ink that reads "Deborah J. Hartell".

DEBORAH J. HARTELL
Chief, Asset Management Flight

Attachment:
Fiscal Year 2008 Holloman AFB Waste Minimization Program

Fiscal Year 2008 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.

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

Holloman AFB Fiscal Year 2008 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
- Monthly Hazardous Waste Management Training

Source reduction measures include:

- Aqueous parts washers
- Introduction of special paint spray guns that 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.
- Recover silver from waste generating maintenance operations on the new F-22 aircraft.

Through the end of FY2008, 7,658 lbs of hazardous waste were recycled through SafetyKleen at an operating cost of over \$48,000.00.

Total amount of silver recovered was 314 pounds; The dollar amount is not available.

Waste Minimization Plan Objective

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 inapplicability of the following waste minimization techniques:

Holloman AFB Fiscal Year 2008 Actions

Recycling markets for hazardous waste is dependent on types of waste, quantity and distance to nearest recycling facility.

Change in Holloman's mission will drive the development of additional recycling opportunities.

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
- Coordination efforts are being conducted with other Air Force bases that have established a silver recovery program for the new F-22 plane.

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

- 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 2008 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



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HOLLOMAN AIR FORCE BASE, NEW MEXICO

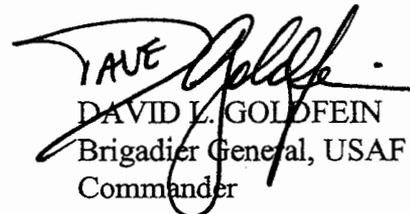
MAR 28 2007

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 2007 - 30 September 2008

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Medical Logistics	12	Expired Shelf Life	liquid	D001, D002	6
90-Day Facility	149	Lithium Batteries	solid	D001, D003	128
90-Day Facility	149	Magnesium batteries.	solid	D007, D005	0
90-Day Facility	149	Mercury thermometers, mercury bulbs, rags, absorbent, debris	solid	D009	1637
90-Day Facility	149	Mercury Batteris	solid	D009	0
90-Day Facility	149	Ni-Cad Batteries (wet filled)	solid	D006	264
Allied Trades	195	Rags contaminated w/ solvent, reducers, paints	solid	F005	132
Vehicle Maintenance	198	Gasoline fuel filters and absorbents	solid	D018	0
Auto Hobby Shop	231	Used Fuel Filters	solid	D008, D018	101
Machine Shop	280	Rags, absorbent and debris	solid	D006	0
Machine Shop	280	Expired Shelf Life	liquid	D001, D018	0
Machine Shop	280	Rags with solvents, swabs, gloves, brushes. debris	solid	F003, F005	46
Machine Shop	280	Rags, swabs, debris w/alodine residue	solid	D007	31
Structural Repair/Sheet Metal	281	Rags, absorbent, debris, metal shavings	solid	D007, F005	86
Wheel and Tire	282	Jet Wash Water	liquid	D006	0
Corrosion Control	282	Paint Booth Filters	solid	D007	378
Corrosion Control	282	Rags and debris contaminated with MEK	solid	F002, F005	807
Corrosion Control	282	Used blasting media	solid	D006, D007	943
Corrosion Control	282	Waste paint related material	liquid	D001, D006, D007, F003, F005	888
Aircraft Repair	286	Parts Washer Fluid	liquid	D006, D007	2844
Aircraft Repair	286	Rags, absorbent, paper, debris	solid	D006, F003, F005	0
Aircraft Repair	286	Used Solvent Naphtha	liquid	D001, D006	2405
Aircraft Repair	286	Used SVB-175 Universal Cleaner	liquid	D006, D008	807
Aircraft Maint./Paint Booth	294	Rags/Debris	solid	D007, F005	104
Aircraft Maint./Paint Booth	294	Mixed used paint	liquid	D007, F002, F005	0
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	0
Propulsion	300	Water from Small Blue Parts Washer	liquid	D006, D007	1785
AGE Support	309	Jet Wash Water	liquid	D006	1733
AGE Support	309	JP-8 & Gasoline Filters	solid	D018	0
Ground Equipment Shop	314	Rags, absorbents and debris	solid	F005, D006	396
Ground Equipment Shop	314	Used Isopropynol	liquid	D001	64
Ground Equipment Shop	314	Waste paints, lubricants	liquid	D007, D035, D039	73

HAFB Waste Streams
1 October 2007 - 30 September 2008

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Fuel Shop	315	Rags, absorbent, debris	solid	D006, F005	0
Hydraulics Shop	500	Rags, Absorbents, Debris	solid	D006	204
T-38 Support	578	Rags & Debris	solid	D006	1102
Fuels	701	Expired Shelf Life	liquid	D001, D002, D003	0
Hazmart	806	Dried paints, silicones, adhesives, sealants	solid	D007, D005, D011, D035	0
Hazmart	806	Expired Shelf Life	liquid	D001, D002, D005, D007, D008, D011, D035	1347
Hazmart	806	Expired Shelf Life	solid	D005, D007, D035	128
Hazmart	806	Paints, solvents, silicones, adhesives, sealants	liquid	D001, D005, D007, D010, D035, D039	2645
Hazmart	806	Part 1 & 2 polyurethane coating kits		D010, D035	1495
Hazmart	806	PR 1425 B-1/2 & PR 2050 B-1/4 (Part	solid	D007, D035	25
Sensor Photo	823	Expired Shelf Life	liquid	D001, D018	0
Paint Barn	830	Paint booth filters, rags, and painting debris	solid	D007, F002, F005	3706
Paint Barn	830	Paint Related Material	liquid	D001, D007, D035, F005	1248
Paint Barn	830	Used plastic blast media and/or blaster filters	solid	D006, D007	4901
Optics	842	Rags w/solvent and debris	solid	F001	155
Motor Pool	844	Rags, Fuel Filters, Debris	solid	F002, F003	567
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	141
Wheel/Tire	866	Bead Blast Filters	solid	D007	54
Wheel/Tire	866	Jet Wash Water	liquid	D010	0
Wheel/Tire	866	Rags, PPE, absorbent, paint dust, debris, sealants	solid	D006	281
Fuel System Repair	868	Rags, absorbent, sealant, debris	solid	F003, F005	221
9th AMU Support	868	Rags, coveralls, absorbents and debris	solid	D006, D027	1484
Egress	877	Rags, paper, debris	solid	D008	18
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
8th AMU Support	894	Rags, coveralls, absorbents and debris	solid	D006, D027	802
MARS	898	Expired Shelf Life	liquid	D001	0
MARS	898	Rags/Debris	solid	D006	152
	898	Rags and painting debris	solid	F003, F005	317

HAFB Waste Streams
1 October 2007 - 30 September 2008

Facility Name	Bldg	Waste Stream	Physical state	EPA WASTE Codes	Amount Disposed (lbs)
Corrosion Control	903	Bead Blast Filters	solid	D006	0
Corrosion Control	903	Paint dust and blast media	solid	D006, D008	1456
Corrosion Control	903	Rags, paint booth filters, paint booth paper, debris	solid	F005, D001, D004	1796
Corrosion Control	903	Waste paint related material	liquid	D001, F005	489
Welding Shop	1178	Blast Media	solid	D006	0
Paint Shop	1178	Rags	solid	F003,F005	195
Paint Shop	1178	Waste Paint & Solvents	liquid	D001, D006, D007, D008, F003, F005	0
Paint Shop	1178	Abrasive blast media w/ filters	solid	D006	0
Paint Shop	1178	Rags	solid	F003, F005	195
Newtec	1181	Rags, debris with solvent	solid	F001	105
Equipment Maintenance	1226	Spent Brake & Clutch Cleaning Solution	liquid	D001	0
RAMS	5005	Waste Paint	liquid	D001, D010, F003, F005	421
RAMS	5005	1:Rags, absorbent, debris	solid	F003, F005	0
RAMS Maintenance	5018	Waste paint	liquid	D001, D008, D010, D018, D039, F003, F005	73
Vehicle Maintenance	7000	Waste paint	liquid	D001, D007, D008, D010, F003, F005	566
Vehicle Maintenance	7000	Rags, absorbent, debris	solid	F003, F005	275
Spill Cleanup Materials	9997	JP-8 with Absorbent Material	solid	D001	456
Spill Cleanup Materials	9997	Lead acid batteries and debris	solid	D002, D004, D008	45
Miscellaneous	9999	Expired Shelf Life	liquid	D001, D002, D006	54
Miscellaneous	9999	Expired Shelf Life	solid	D001, D002, D006	0
Miscellaneous	9999	Expired Shelf Life	gas	D001	7
Miscellaneous	9999	Lead Acid Batteries	solid	D002, D008	0
Miscellaneous	9999	Used Rags	solid	D005, D006, D007	85
				Total for 1 October 2007 through 30 September 2008	42,869