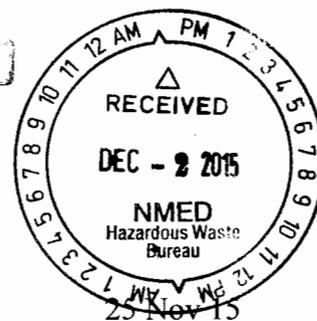




DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE NEW MEXICO



DeAnna Rothhaupt
Chief, Holloman AFB Environmental
49 CES/CEIE
550 Tabosa Avenue
Holloman AFB NM 88330-8458

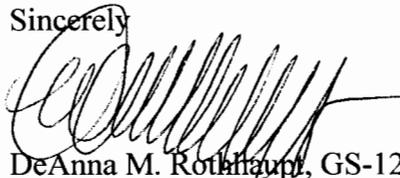
New Mexico Environment Department
Hazardous Waste Bureau
Attn: Mr. John Kieling
2905 Rodeo Park Drive East, Building 1
Santa Fe NM 87505

Dear Mr. Kieling

Concerning the permitted Open Detonation Unit, Holloman AFB, this certifies that the operating record required by 40 CFR 264.73(b)(9) includes a program to reduce the volume and toxicity of hazardous waste. This letter and attachments serve to satisfy the year-end requirement according to Section II.D, Waste Minimization of the Resource Conservation and Recovery Act Hazardous Waste Facility Operating Permit, EPA ID No. NM6572124422.

Attached is the Fiscal Year 2015 Holloman AFB Waste Minimization Program for the period of 1 Oct 14 through 30 Sep 15. This waste minimization program includes the Holloman AFB Environmental Guidance Memorandum and a matrix of waste streams produced by Holloman AFB operations.

If you have any questions, please contact me at (575) 572-3931.

Sincerely

DeAnna M. Rothhaupt, GS-12, DAF

Attachment:
FY 2015 Holloman AFB Waste Minimization Program



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

MEMORANDUM FOR NMED Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

19 Nov 15

FROM: 49 CES/CEIE (Environmental)

SUBJECT: Installation Management Environmental Policy Statement

1. The 49th Installation Management Flight is dedicated to protecting the environment through the conservation of our natural resources. This policy letter requires the support of all stakeholders in order for its success. This statement establishes the direction of the 49th Wing to accomplish environmental protection.
2. While accomplishing the mission, we perform tasks that could potentially affect the environment. Complying with guidance makes 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 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 waste 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 AFB 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 their part to make that happen.
6. If you have any questions, please contact Ms. DeAnna Rothhaupt, Chief of Environmental, at 575-572-3931.

Fiscal Year 2015 Holloman AFB Waste Minimization Program

Waste Minimization Plan Objective

Any written policy or statement that outlines the goals, objectives and 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 waste.

Any source reduction and recycling measures implemented in the last 5 years for the near future.

Holloman AFB FY 15 Actions

A written Installation Management Environmental Guidance memorandum that includes the entire base signed by the Chief of Environmental. A copy is attached.

Employee training or incentive programs include participation in Annual Air Force Environmental Training; annual Internal Environmental Compliance assessment; ongoing Pollution Prevention Opportunity assessments and Annual Hazardous Waste Management training.

Source reduction measures include Aqueous parts washers; introduction of environmentally friendly cleaning compounds to replace solvent used in paint gun cleaners and recovery of silver for waste generated by aircraft maintenance operations.

Planned source reduction and recycling measures include use of premoistened solvent wipes to reduce cleaning where solvent use is required to Technical Order requirements for aircraft.

Waste Minimization Plan Objective

An itemized list of dollar amounts of capital expenditures and operating costs devoted to source reduction and recycling of hazardous waste

Factors that have prevented implementation of source reduction and recycling.

Sources of information on source reduction and recycling received at the facility (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 the 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.

Holloman AFB FY 15 Actions

Recycling Hazardous Waste through Safety Kleen.

Recycling markets for Hazardous Waste are dependent on types of waste, quantity and distance to nearest recycling facility.

Course attendance, online searches and networking with others at the Air Force Environmental Training or meetings, other Air Force bases, commercial entities through association with the NM Recycling Coalition and EPA.

Investigation of waste minimization: Opportunity assessments are continued to evaluate waste minimization opportunities.

Waste Minimization Plan Objective

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

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

Demonstration of the applicability or 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.

Holloman AFB FY 15 Actions

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

The requirement to use processes which produce a particular hazardous waste are driven by our mission.

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. Routine operations at HAFB do not produce radioactive contaminated Lead.

Not Applicable. Routine operations at HAFB do not produce radioactive contaminated Lead.

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

Waste Minimization Plan Objective

- A program designed to prevent commingling of radioactive waste.

Holloman AFB FY 15 Actions

Not Applicable. Routine operations at HAFB do produce radioactive waste.

Holloman AFB 2015 Hazardous Waste Matrix

Bldg	Shop/Organization	Waste Stream	State	EPA Waste Codes	Lbs Generated
15	MDG Pharmacy	Warfarin, Nicotine	Liquid	P001,	0
15	MDG Pharmacy	Medication Flammable Liquid	Liquid	D001	0
15	MDG Lab	Used Wright Stain	Liquid	D001	0
20	Dental Clinic	Excess Amalgam	Solid	D009, D011	0
22	Veterinarian Clinic	Used Wright Stain	Liquid	D001	0
22	Veterinarian Clinic	Formalin	Liquid	U122	0
54	CES Power Pro	Rags with grease & gasoline	Solid	D001, D006, D018	0
58	CES Utilities	Rags & Debris	Solid	D018, F003, F005	327
61	HVAC Shop	Burnt Freon Medium	Gas	D003	50
149	90-Day Facility	Mercury Containing Equipment, thermometers	Solid	D009	0
149	90-Day Facility	PCB & Ballast	Solid	PCB Waste	1801
149	90-Day Facility	Lithium Polymer Batteries	Solid	D003	2963
149	90-Day Facility	Unused Gasoline	Liquid	D001, D018	152
149	90-Day Facility	Aircraft Lead Acid Batteries	Solid	D002	0
149	90-Day Facility	Deactivated Thermal Batteries	Solid	D007	0
193	Vehicle Maintenance	Gasoline Fuel Filters	Solid	D001, D018	0
195	Allied Trades	Paints and solvents	Liquid	D001, F005	50
195	Allied Trades	Rags & debris contaminated with paint, solvent	Solid	F003, F005	267
195	Allied Trades	Liquid Waste (SK Solvent)	Liquid	D001, D039	0
198	Allied Trades	Waste Gasoline and Diesel Mixture	Liquid	D001, D018	340
280	M1 ESC Shop	Rags, absorbent, debris	Solid	D006	0
280	M1 Machine Shop	Rags, absorbent and debris	Solid	D006	0
280	M1 Hydraulics Shop	Rags, absorbent, and debris	Solid	D006	208
281	M1 Sheet Metal	Rags, absorbent, debris, metal shavings	Solid	D006, F005	0
282	M1 Corrosion Control	Rags, Paint Filters and debris	Solid	D006, D007, F002, F005	1518
282	M1 Corrosion Control	Waste paint related material	Liquid	D001, D007, F003, F005	393
282	M1 Corrosion Control	Used blasting media	Solid	D006, D007	719
282N	M1 Wheel and Tire	Jet Wash Water	Liquid	D006	0
283	Aero Club	Rags, absorbent, debris	Solid	D008	0
284	M1 Egress	Rags & Debris with SFL	Solid	D006	0
286	GAF Aircraft Repair	SK Parts Washer Fluid	Liquid	D006	0
286	GAF Aircraft Repair	Rags, absorbent, debris w MEK	Solid	F005	0
286	GAF Aircraft Repair	Used SVB-175 Universal Cleaner	Liquid	D006, D008	1838
286	GAF Aircraft Repair	Used Parts Washer Fluid	Liquid	D001, D006, D008	2506
286	GAF Aircraft Repair	SK Parts Washer rags	Solid	D006	105
294	GAF Paint Booth	Mixed used paint	Liquid	D001, D035	79
294	GAF Paint Booth	Rags and Debris w Solvent	Solid	D007, F002, F005	172
295	GAF Engine Shop	Rags & Debris w Acetone	Solid	F003	0
300	M1 Propulsion	Fluid carbon remover	Liquid	D018, D019	67
300	M1 Propulsion	Rags and Debris with Acetone	Solid	F003	0

Holloman AFB 2015 Hazardous Waste Matrix

300	M1 Propulsion	Vapor blast Media	Liquid	D006, D007	2142
300	M1 Propulsion	Paint Chips from Ventilation (One Time)	Solid	D005, D006, D007, D008, D011	0
301	6 AMU Predators	Rags and Debris with Solvent	Solid	D018, F005	250
301	6 AMU Predators	Parts Washer Fluid	Liquid	D006, D008	0
304	49 AGE	Fuel Filters from AGE Equipment	Solid	D018	0
304	49 AGE	Rags and Debris	Solid	D006	0
304	49 AGE	Used O2 Sensors	Solid	D002, D008	0
309	M1 AGE	Used O2 Sensors	Solid	D002, D008	0
314	GAF AGE	Rags, fuel filters and Debris w Solvent	Solid	F003, F005	0
314	GAF AGE	Waste Paints, Lub's Aerosols (Hazmart Does as of Oct 15)	Liquid	D001, D007, D035, D039	18
315	M1 Fuel	Used O2 Sensors	Solid	D002, D008	0
315	M1 Fuel	Rags and Debris	Solid	D006, F005	0
564	AFREP	Rags and Debris form Soldering Ops	Solid	D008	0
576	49 OSS AFE	Rags, Coveralls and Debris w Solvent	Solid	F003, F005	0
578	T-38 Support	Rags & Debris	Solid	D006, F005	1382
702	POL	Contaminated Fuel (Jet A/Mogas)	Liquid	D001, D008, D018	0
702	POL	Spill Cleanup Material	Solid	D008, D018	728
702	POL	Fuel Filters & Absorbent Material	Solid	D008, D018	406
806	HAZMART	Paints Related Material (Drum 1)	Liquid	D001, D035	1444
806	HAZMART	Sealants and Adhesives (Drum 3)	Liquid	D001, D007, D023, D035	164
806	HAZMART	Isocyanate Polyurethane (Drum 2)	Liquid	D001, D005, D006, D007, D010, D035	182
806	HAZMART	Grease and Lubricants (Drum 4)	Liquid	D004, D008, D010, D011, D018	186
806	HAZMART	Puncture Aerosol Fluids (Drum 7)	Liquid	D001, D005, D035, D039	0
806	HAZMART	Broken Fluorescent Lamps	Solid	D009	299
818	54 AGE	Used Oxygen Sensors	Solid	D002, D008	0
818	54 AGE	Rags and Debris	Solid	D006	1058
818	54 AGE	Fuel Filters	Solid	D018	0
830	F16 Sheet Metal	Rags & Debris, paint pens & adhesive	Solid	F005	132
839	PMEL	Mercury from purging equipment	Liquid	D002, D009	0
842	TRAX OPTICS SHOP	Blast Media	Solid	D006	0
842	TRAX OPTICS SHOP	Rags & Debris w Solvent	Solid	F003	235
844	TRAX Motor Pool	Rags, Fuel Filters & Debris	Solid	F005, F003	539
856	TRAX Paint Shop	Paint Filter from booth	Solid	D007	0
856	TRAX Paint Shop	Rags & Debris w Solvent	Solid	D035, F003, F005	0
856	Paint Shop	Paints and solvents mixture	Liquid	D001, F003, F005	0
868N	54 Fuels	Rags & Debris w Jet & Oil	Solid	F003, F005	829
868N	54 Fuels	Used O2 Sensor	Liquid	D002, D008	0
868S	54 Support (HO109B)	Rags & Debris	Solid	F001, F003, F005	974
877A	54 Armament & Phase	Rags, Debris w Solvent & adhesive	Solid	D006, D008	884
877WT	54 Wheel & Tire	Aqueous Parts washer waste solid	Solid	D006	0
877WT	54 Wheel & Tire	Parts Washer fluid from magic dust Liquid	Liquid	D006	2000
893	54 Support (HO109)	Rags, adhesive & Debris	Solid	D006, D008, F005	147

Holloman AFB 2015 Hazardous Waste Matrix

898A	49 Maintenance Sq.	Paint Related Material	Liquid	D001, D035, F005	0
898A	49 Maintenance Sq.	Paint Filters, rags and debris	Solid	D007	702
898B	49 Maintenance Sq.	Paint Related Material	Liquid	D001, D035, F005	0
898B	49 Maintenance Sq.	Paint Filters, rags and debris	Solid	D007	254
898C	49 Maintenance Sq.	Paint Related Material	Liquid	D001, D035, F005	0
898C	49 Maintenance Sq.	Paint Filters, rags and debris	Solid	D007	1063
901PP	Bear Base Power Pro	Used Antifreeze	Liquid	D008	490
901PP	Bear Base Power Pro	Rags & Debris	Solid	D006	660
901VM	Bear Base Vehicle Maint.	Rags & Debris	Solid	D039	205
901VM	Bear Base Vehicle Maint.	Gasoline Fuel Filters	Solid	D001, D018	0
903	Bear Base Corrosion	Rags, Filters and debris w Solvent	Solid	F005	507
903	Bear Base Corrosion	Waste Paint Related Material	Liquid	D001, D035	508
905	Bear Base Corrosion	Blast Media (IAP 2)	Solid	D007	0
927	Bear Base Metal Tech	Used Cutting Coolant	Liquid	F002, F003, F005	181
1079	Army Air	Rags w Grease	Solid	D006	441
1079	Army Air	Used Grease	Liquid	D006	67
1080	QA Drones	Rags, Absorbent, Debris	Solid	D006	1317
1080B	586 Flight Test SQ	RAGS AND DEBRIS w Solvent	Solid	F003, F005	0
1178A	Test Track Corrosion	Rags & Debris	Solid	D006, F003, F005	132
1178A	Test Track Corrosion	Waste Paint & Solvents	Liquid	D001, D007, D008, F003, F005	0
1178B	Test Track Welding	Waste Garnet from New Machine (D007)	Solid	D007	69,542
1178B	Test Track Welding	Waste Garnet from Old Machine (D006)	Solid	D006	0
1181	Test Track	Rags & Debris w Solvent	Solid	F003	126
1223	GAF Munitions	Rags and Debris	Solid	D006	0
1226	49 Munitions	Brake Line Flushing	Liquid	D001	34
9997	Spills	Absorbents	Solid	D001, D018	0
806	Miscellaneous	Expired Shelf Life	Liquid	D001, D002, D004, D005, D006, D007, D008, D009, D018, F005, U154	2095
9999	Miscellaneous	Waste AVGAS	Liquid	D001, D008, D018	414
893	One Time Waste	Lithium Laptop Batteries	Solid	D003	16
				TOTAL (1 OCT 14 – 30 SEP 15)	106,308