



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

 ENTERED

30 Nov 16

Adam M. Kusmak
Flight Chief, Installation Management
49 CES/CEIE
550 Tabosa Avenue
Holloman AFB NM 88330-8458

RECEIVED

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

NMED
Hazardous Waste Bureau

Dear Mr. Kieling,

This letter and attachments serve to satisfy the year-end requirement, Waste Minimization of the Resource Conservation and Recovery Act Hazardous Waste Facility Operating Permit, EPA ID No. NM6572124422.

Attached is the Fiscal Year 2016 Holloman AFB Waste Minimization Program for the period of 1 Oct 15 through 30 Sep 16. 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,

Adam M. Kusmak, Civ, DAF
Flight Chief, Installation Management

Attachment:
FY 2016 Holloman AFB Waste Minimization Program

Fiscal Year 2016 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 16 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 Hazardous Waste Management training; annual Internal Compliance assessment and ongoing Pollution Prevention Opportunity assessments.

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. Proper garnet waste characterization reduced Hazardous Waste disposal numbers approximately by 10K since July 2016.

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.

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

Holloman AFB FY 16 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.

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

Waste Minimization Plan Objective

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.
- A program designed to prevent commingling of radioactive waste.

Holloman AFB FY 16 Actions

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.

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



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

JUL 24 2015

MEMORANDUM FOR ALL HOLLOMAN AFB PERSONNEL

FROM: 49 WG/CC

SUBJECT: Holloman Air Force Base (HAFB) Environmental Scope and Commitment Statement

1. SCOPE: The HAFB environmental commitment encompasses all Air Force organizations and facilities within its boundaries, to include mission partner organizations and tenants. This policy also applies to contractors and vendors that provide products and perform services on the installation as their contracts are awarded, amended or modified to include clauses requiring Environmental Management System (EMS) conformance. It is the responsibility of the EMS Coordinator and EMS Cross Functional Team to help the 49th Wing Commander develop, implement and support an environmental policy, and the responsibility of all base members to follow the established commitments.

2. COMMITMENT STATEMENT: HAFB is committed to conducting its mission in an environmentally responsible manner to protect human health, natural resources and the environment. HAFB will comply with all environmental laws and local requirements applicable to the vast missions conducted on the installation. HAFB will continually seek new opportunities for pollution prevention, waste reduction and environmentally preferable alternatives. This commitment goes beyond compliance with the law and encompasses the integration of sound environmental practices into the daily decisions and activities of all base personnel. We will continue to pursue a course of continual process improvement and training to enhance our environmental performance. In support of our environmental commitment, we will:

a. Maintain a fully conforming EMS to meet Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*.

b. Appoint organizational Unit Environmental Coordinators to address environmental matters and training.

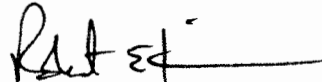
c. Continually improve environmental programs that sustain the mission by measuring progress, maintaining compliance, and protecting our natural resource assets. HAFB will implement actions to meet these goals and communicate results to applicable personnel.

d. Maintain an effective pollution prevention program by recycling materials, minimizing waste, disposing of hazardous wastes in an environmentally responsible manner and restoring contaminated sites.

e. Ensure the responsible use of energy throughout the installation through the adoption of practices and procedures to conserve energy, improve energy efficiency, and promote sustainability.

3. Conformity to this policy is the responsibility of all HAFB personnel, including mission partners and tenants, according to their roles and responsibilities to support mission capability.

4. If you have any questions concerning this matter, please contact DeAnna Rothhaupt at 575-572-3931 or deanna.rothhaupt@us.af.mil.

A handwritten signature in black ink, appearing to read 'R. E. Kiebler', with a horizontal line extending to the right.

ROBERT E. KIEBLER
Colonel, USAF
Commander

Holloman AFB 2016 Hazardous Waste Matrix

BLDG	SHOP	Waste Stream	State	EPA Waste Codes	Lbs Generated
15	MDG Pharmacy	Warfarin, Nicotine	Liquid	P001	0
15	CLINIC LAB	Used Wright Staining	Liquid	D001	23
15	Immunization Clinic	Influenza (Multi-Dose)	Liquid	D009	0
15	MDG Pharmacy	Medicine Liquid Flammable	Liquid	D001	0
20	Dental Clinic	Used AMALGAM	Solid	D009, D011	0
22	HAFB Vet Clinic	3-322-1 (#1 Fixative)/Wright Staining	Liquid	D001	15
58	CES Utilities	Saturated Rags, Absorbents & Debris	Solid	D018, F003, F005	87
61	CES HAVC	Burnt Freon Medium Cylinders	Gas	D003	0
149	HWAS	Deact Thermal Battery	Solid	D007	0
149	HWAS	Lithium Polymer Batteries	Solid	D003	0
149	HWAS	Unusable Gasoline	Liquid	D001, D008, D018	414
195	49 LRS VM	Rags & Debris W Paint Solvents	Solid	F003, F005	252
195	Allied Trade	Paint & Solvents (Liq)	Liquid	D001, F005	0
198	49 Trans	Waste Gasoline, Diesel Mixture	Liquid	D001, D018	0
280	M1 Machine	Rags, Absorbent & Debris	Solid	D006	0
280	M1 ECS	Rags and Debris	Solid	D006	0
280	M1 Hydraulic	Rags and Debris No Solvent Usage	Solid	D006	0
281	M1 Structures	Adhesives, Rags & debris	Solid	D006, F005	0
282	M1 CC	Blast Media	Solid	D006, D007	690
282	M1 CC	Paint Related Liquid (Lg Booth)	Liquid	D001, D007, D035, F003, F005	212
282	M1 CC	Paint Related Liquid (Sm booth)	Liquid	D001, D007, F003, F005	857
282	M1 CC	Rags, Paint Filters and Debris	Solid	D006, D007, F002, F005	1343
282N	M1 W & T	Jet Wash Water	Liquid	D006	0
283	Aero Club	Rags & Debris	Solid	D008	0
284	M1 Egress	Rags & Debris with SFL	Solid	D006	0
286	GAF Weapons	Parts Washer Lixton	Liquid	D006	2533

Holloman AFB 2016 Hazardous Waste Matrix

286	GAF Weapons	Rags & Absorbent w MEK, Solvents	Solid	D006, F005	0
286	GAF Weapons	SK Rags & Absorbent in shop	Solid	D006	135
286	GAF Weapons	Used SVB-175	Liquid	D006, D008	892
294	GAF CC	Mixed Used Paint	Liquid	D001, D035	0
294	GAF CC	Rags & Debris with Solvent	Solid	D005, D006, D007, D008, D011, F003	83
294	GAF Hanger	Spill Clean-up Material	Solid	D001	200
295	GAF POD Shop	Rags Soaked in JP8 Spill	Liquid	D001	159
295E	GAF Engine Shop	Parts Washer	Liquid	D006	0
297	NDI Lab	Used Emulsifier	Liquid	D006	507
297	NDI Lab	Silver Recovery Fluid	Liquid	D010, D011	0
300	M1 Engine	Vapor Blast (liquid)	Liquid	D006, D007	1271
300	M1 Engine	Fluid Carbon Remover	Liquid	D018, D019	41
300	M1 Engine	Rags & Debris w Acetone	Solid	F003	17
304	49 AGE	Rags, Fuel Filters & Debris	Solid	D006, D018	291
304	49 AGE	Used Antifreeze & Water	Liquid	D008, D010	0
304	49 AGE	Used Oxygen Sensor	Liquid	D002, D008	0
309	M1 AGE	Used Oxygen Sensor	Liquid	D002, D008	0
309	M1 AGE	Oily Rags & Debris w Fuel Filters	Solid	D006	62
314	GAF AGE	Rags & Debris W/Solvents	Solid	F005	0
315	M1 Fuels	Rags & Absorbent	Solid	D006, F005	183
315	M1 AGE	Used Oxygen Sensor	Liquid	D002, D008	0
565	6AMU Predators	Parts Washer Fluid	Liquid	D006, D008	0
565	6AMU Predators	Rags & Debris w Sol	Solid	D018	328
565	6AMU Predators	Contaminated Fuel (Jet A/Mogas)	Liquid	D001, D008, D018	491
576	OSS AFE	Rags, Coveralls & Debris W/Solvents	Solid	F003, F005	76
578	M1 T38 COSO	Rags & Debris	Solid	D006, F003, F005	1650
702	49 LRS POL	Contaminated Fuel (Jet A/Mogas)	Liquid	D001, D008, D018	416

Holloman AFB 2016 Hazardous Waste Matrix

702	49 LRS RFM	Spill Cleanup Material & Debris	Solid	D008, D018	105
702	49 LRS RFM	Fuel Filters & Pad from Fuel Trucks	Solid	D008, D018	0
700	49 LRS POL	Tank Water Bottom	Liquid	D001, D008, D018	0
800J	54 Jet Engine	Rags & Debris (Saturated)	Liquid	D018	0
806	HAZMART	Sealants & Adhesives (Drum 3)	Liquid	D001, D007, D023, D035	0
806	HAZMART	Paint Related Material (Drum 1)	Liquid	D001, D035	1165
806	HAZMART	Isocyanate Polyurethane (Drum 2)	Liquid	D001, D005, D007, D010, D035	171
806	HAZMART	Broken Fluorescent Lamps	Solid	D009	95
806	HAZMART	Punctured Aerosol Fluids (Drum 7)	Liquid	D001, D005, D0035, D039	382
806	HAZMART	Expired Shelf Life	Solid/ Liquid	D001, D002, D003, D007, D009, D011, U154, U220	2788
818	54 FG AGE	Used Oxygen Sensors	Solid	D002, D008	0
818	54 FG AGE	Rags, Fuel Filters & Debris	Solid	D006, D018	2168
818	54 FG AGE	Used Antifreeze	Liquid	D008, D010	0
830	F16 Sheet Metal	Rags, Debris, Paint Pens & Adhesive	Solid	F005	419
839	PMEL	Mercury purging from equipment	Liquid	D002, D009	16
842	TRAX	Blast Media	Solid	D006	0
844	TRAX	Used Antifreeze	Liquid	D010	0
844	TRAX	Rags, Filters & Debris	Solid	F003, F005	320
856	TRAX	Rags Debris w Solvent (Solid)	Solid	D035, F005	0
856	TRAX	Paint & Solvent Mixture (Liq)	Liquid	D001, F003, F005	0
856	TRAX	Paint Filters from Booth	Solid	D007	0
868N	54 FG Fuels	Used Oxygen Sensor	Liquid	D002, D008	0
868N	54 FG Fuels	Rags & Debris w JP8 & Oil	Solid	F003, F005	1850
868N	54 FG Fuels	PR 1826 part C ADH PRO	Liquid	D001	0
868S	54 FG Support	Rag, Debris & Adhesives w Solvent	Solid	F001, F003, F005	5498
877A	54 FG Armament	Bead Blast Machine	Solid	D006, D008	0
877A	54 FG Armament	Rags, Debris & Coveralls	Solid	D006, D008	657

Holloman AFB 2016 Hazardous Waste Matrix

877PH	54 FW Phase	Rags, Debris & Coveralls	Solid	D006	0
877WT	54 FG W & T	P. Washer From Magic Dust Liquid	Liquid	D006	5130
877WT	54 FG W & T	Oily Rags, Burrito and Debris	Solid	D006	370
893	54 FG Support	Rags, Adhesives & Debris	Solid	D006,D008, F005	155
898	49 Maint Squad	Paint Filters, Rags & Debris	Solid	D005, D007 D011, F005	2968
898	49 Maint Squad	Paint Filters, Rags & Debris	Solid	D005, D007 D011, F005	2152
898	49 Maint Squad	Paint Filters, Rags & Debris	Solid	D005, D007 D011, F005	2493
898	49 Maint Squad	Paint Related Material	Liquid	D001, D035, F005	388
898	49 Maint Squad	Paint Related Material	Liquid	D001, D035, F005	0
898	49 Maint Squad	Paint Related Material	Liquid	D001, D035, F005	0
901PP	Bear Base PP	Rags & Debris	Solid	D006	495
901VM	Bear Base Trans	Gasoline Fuel Filter	Solid	D001, D018	0
901VM	Bear Base Trans	Rags & Debris	Solid	D039	272
901VM	Bear Base Trans	Used Antifreeze	Liquid	D008	490
903	Bear Base CC	Waste Paint Related Material	Liquid	D001, D010, D035	456
903	Bear Base CC	Rags, Filters, Debris w Solvent	Solid	F005	571
905	Bear Base CC	Blast Media (Back Machine)	Solid	D007	0
1079	Army Air	Used Grease	Solid	D006	263
1079	Army Air	Rags W Grease & Adhesive	Solid	D006	568
1080	QA Drones	Rags, Absorbent, Debris	Solid	D006	621
1080B	586 Flight Test SQ	Rags and Debris	Solid	F005	0
1185	Test Squadron	Bead Blast Machine	Solid	D006	0
1178A	Test Squadron	Paint Related Liquid	Liquid	D001, D007, D008, F003, F005	441
1178A	Test Squadron	Rags & Debris w Solvent	Solid	D006, F003, F005	137
1178B	TS Welding	Bead Blast	Solid	D006	816
1178B	TS Welding	Waste Garnet (Large Machine)	Solid	D007	5955
1178B	TS Welding	Waste Garnet (Old Small)	Solid	D006	7650
1223	GAF Ammo	Rags & Debris w Solvents	Solid	D006	0

Holloman AFB 2016 Hazardous Waste Matrix

1226	Ammo	Brake Line Flushing	Liquid	D001	0
1252	Ammo PGM	Spent Solid Film Lub & Debris	Liquid	D001, D008, D018	12
195	Allied Trade	Thinner Waste (SK Solvent)	Liquid	D001, D035, F003, F005	36
Most	Shops	Safety-Kleen Solvent	Liquid	D006	9229
283	Aero Club	Safety-Kleen Solvent	Liquid	D008	96
877A	Armament	Safety-Kleen Solvent	Liquid	D005, D006, D008, D011	0
901VM	Bare Base VM	Safety-Kleen Solvent	Liquid	D039	0
Other	Army	Safety-Kleen Solvent	Liquid	D006	1152
				Total (1 Oct 15-30 Sep 16)	71,778