



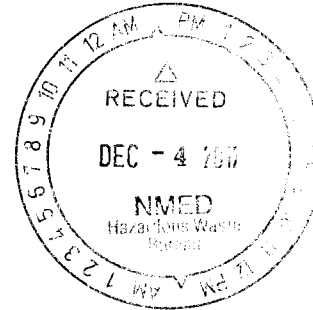
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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE NEW MEXICO



30 Nov 17

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



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

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 2017 Holloman AFB Waste Minimization Program for the period of 1 Oct 16 through 30 Sep 17. 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

Fiscal Year 2017 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 17 Actions

A written Installation Management Environmental Scope and Commitment Statement that includes the entire base signed by the Installation Commander. A copy is attached.

Employee training or incentive programs include participation in Annual Air Force Hazardous Waste Management training and annual Internal Compliance assessments.

Procurement and use of minimal quantities. When materials with environmental risk must be used, minimal quantities are procured to minimize surplus quantities and shelf life exceedances.

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.

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 17 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 17 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



03 SEP 2017

MEMORANDUM FOR ALL HOLLOMAN AFB PERSONNEL

FROM: 49 WG/CC

SUBJECT: Holloman Air Force Base 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 Environmental Cross-Functional Team (CFT) 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 base personnel will identify environmental aspects of its mission, and will, with the expertise provided by the Environmental CFT and environmental program managers, develop economically feasible and environmentally sound objectives and targets to address those aspects. 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 13693, *Planning for Federal Sustainability in the Next Decade*.

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 Mr. Adam Kusmak at 572-3931 or adam.kusmak@us.af.mil.



HOUSTON R. CANTWELL
Colonel, USAF
Commander

Holloman AFB 2017 Hazardous Waste Matrix

Bldg	Shop Name	Waste Stream	State	EPA Waste Codes	Lbs generated
20	DENTAL CLINIC	WASTE AMALGAM	Other	D002, D009, D011	25
23	CLINIC LAB	USED STAINING	Liquid	D001	24
23	PHARMACY	WARFARIN, NICOTINE	Liquid	P001, P075, P188	5
33	AAFES SHOPPETTE	E-CIGARETTES/LIQUID	Liquid	P075	5
58	UTILITY&WATER WASTE	FUEL FILTERS	Semi-Solid	D001, D018	873
58	UTILITY&WATER WASTE	SATURATED RAGS	Liquid	D001	42
61	HVAC	BURNT FREON (SM)	Gaseous	D003	132
149	90 DAY	PCB CONT. BALLAST	Solid	SARA	815
195	ALLIED TRADES	PAINT RELATED WASTE	Liquid	D001, F005	55
195	ALLIED TRADES	RAGS & DEBRIS W SOLV	Solid	F005	169
280	ECS SHOP (M1)	RAGS AND DEBRIS	Solid	D006	65
280	HYDRAULIC (M1)	RAGS AND DEBRIS	Solid	D006	151
281	STRUCTURES (M1)	RAGS ADHES & DEBRIS	Solid	D007, D008, F005	229
282	PAINT SHOP (M1)	PAINT BOOTH FLOOR WATER	Liquid	D007	340
282	PAINT SHOP (M1)	PAINT RELATED LIQUID	Liquid	D001, D007, D035, F003, F005	695
282	PAINT SHOP (M1)	RAGS, FILTERS, DEBRIS	Solid	D001, D035, F001, F005	338
282	PAINT SHOP (M1)	RAGS, PAINT FILTERS	Solid	D006, D007, F002, F005	864
282	PAINT SHOP (M1)	USED BLASTING MEDIA	Solid	D006, D007	1,855
284	EGRESS (M1)	RAGS & DEBRIS	Solid	D006	25
286	WEAPONS (GAF)	PW SVB-175	Liquid	D006, D008	437
286	WEAPONS (GAF)	SK RAGS & DEBRIS	Solid	D006	60
286	WEAPONS (GAF)	WASTE LIXTON	Liquid	D006	1,874
294	PAINT SHOP (GAF)	ABSORBENTS W FUEL	Semi-Solid	D001	79
294	PAINT SHOP (GAF)	FILTERS, RAGS, SOL	Solid	D005, D007, D010, F005	62
300	PROPULSION (M1)	FLUID CARBON REMOVER	Liquid	D006, D009, D010	83
300	PROPULSION (M1)	VAPOR BLAST MEDIA	Liquid	D006, D007	400

301	AECOM	ABSORBENT PADS	Semi-Solid	D006, D007, D035	44
304	49 AGE SHOP	RAGS,FUEL FIL & DEBRIS	Solid	D006, D018	345
304	49 AGE SHOP	USED ANTIFREEZE	Liquid	D008, D010	479
309	AGE SHOP (M1)	OILY RAGS & DEBRIS	Solid	D006	596
315	FUEL SHOP (M1)	RAGS & ABSORBENTS	Solid	D006, F005	104
565	849 AMXS 6AMU PREDITORS	PARTS WASHER SOLUTION	Liquid	D006, D008	177
565	849 AMXS 6AMU PREDITORS	RAGS & DEBRIS W/SOLVENTS	Solid	D018	185
578	T-38 COSO (M1)	RAGS & DEBRIS W MEK	Solid	D006, F005	1,902
700	POL (LRS)	TANK WATER BOTTOMS	Liquid	D001, D008, D018	1,762
806	HAZMART	02Y040A CAT/BASE	Liquid	D001, D002, D007, D018	477
806	HAZMART	AEROGLAZE 9700 B	Liquid	D001, D002	241
806	HAZMART	BROKEN LEAD ACID	Liquid	D002, D008	82
806	HAZMART	BROKEN MERCURY LAMPS	Solid	D009	95
806	HAZMART	CERAM KOTE PART B	Liquid	D002	20
806	HAZMART	COLD PACKS	Solid	D001	11
806	HAZMART	DOT CORROSIVE	Liquid	D002	60
806	HAZMART	DRY WASTE PAINT	Solid	D001	168
806	HAZMART	EA9394 PT B OR A & B	Liquid	D002	10
806	HAZMART	EXP MANGANESE OXIDE	Liquid	D001, D007	13
806	HAZMART	EXPIRED BOW 785 RMA FLUX	Liquid	D001	8
806	HAZMART	EXPIRED CREAM HARDENER	Paste	D001	18
806	HAZMART	EXPIRED PAINT	Liquid	D001	332
806	HAZMART	EXPIRED PAINT	Liquid	D001, D005, D008	110
806	HAZMART	EXPIRED PAINT	Liquid	D001, D007	959
806	HAZMART	EXPIRED PAINT	Liquid	D001, D007, D035	628
806	HAZMART	EXPIRED PAINT CONT 4	Liquid	D001, D007	313
806	HAZMART	EXPIRED PAINT RELATED	Liquid	D001, D007	314
806	HAZMART	EXPIRED PAINTS	Liquid	D001, D035	277
806	HAZMART	EXPIRED RAGE GOLD	Liquid	D001	41
806	HAZMART	GREAT STUFF	Other	D001, D003	26

806	HAZMART	HYDRO-FOAM CONCENTRATION	Liquid	D002	10
806	HAZMART	ISOCYANATE POLYURETH	Liquid	D001, D005, D006, D007, D010, D035	1,539
806	HAZMART	LN-901 ADHESIVE	Paste	D001, D018	18
806	HAZMART	MANGANESE JARS	Liquid	D001, D007, D008	12
806	HAZMART	MRE HEATING ELEMENT	Solid	D003	24
806	HAZMART	NEOPRENE ADHESIVE	Liquid	D001	9
806	HAZMART	OXYGEN SENSOR	Liquid	D002, D008	8
806	HAZMART	PAINT, SOLVENTS	Liquid	D001, D035	2,608
806	HAZMART	PERMABOND TA 4246	Other	D001, D002	17
806	HAZMART	PUNCTURED AEROSOL	Liquid	D001, D005, D035, D039	463
806	HAZMART	SCALE REMOVER	Liquid	D002	10
806	HAZMART	TA4246 & INITIATOR 46	Liquid	D001, D002	18
806	HAZMART	UNUSED ALCOHOL	Liquid	D001	292
806	HAZMART	WASTE ALODINE LIQUID	Liquid	D002, D007	34
806	HAZMART	ZEP-A-LUME	Liquid	D002	23
818	54 FW AGE SHOP	RAGS, FUEL FILTERS	Solid	D006, D018	2,736
830	F16 SHEET METAL SHOP	RAGS & DEBRIS W MEK	Solid	F005	854
839	PMEL	SMALL MERCURY SPILL	Liquid	D009	4
842	OPTICS SHOP (TRAX)	RAGS, DEBRIS W/SOLVE	Solid	F003	103
844	MOTOR POOL (TRAX)	RG12-0086B	Solid	F003, F005	199
844	MOTOR POOL (TRAX)	USED ANTIFREEZE	Liquid	D010	382
856	PAINT SHOP (TRAX)	PAINTS & SOLVENTS	Liquid	D001, F003, F005	87
856	PAINT SHOP (TRAX)	RAGS, DEBRIS W PAINT	Solid	D035, F005	132
868	54 FW FUEL SHOP	HYDRAZINE NEUTRALIZED	Liquid	U133	190
868	54 FW FUEL SHOP	PR 1826 PART C	Liquid	D001, D035	32
868	54 FW FUEL SHOP	RAGS & DEBRIS W JP8	Solid	F005	1,498
868	54 FW FUEL SHOP	RAGS, ADHESIVE	Solid	D006, F005	1,522
877	54 FW AND AECOM WHEEL AND TIRE	BURRITO, OILY RAGS	Solid	D006	725
877	54 FW AND AECOM WHEEL AND TIRE	PARTS WASHER FLUID	Liquid	D006	2,841

877	54 FW ARMAMENT SHOP	COVERALL WASH WATER	Liquid	D006	345
877	54 FW ARMAMENT SHOP	RAGS AND DEBRIS	Solid	D006, D008	118
877	54 FW ARMAMENT SHOP	RAGS, DEBRIS & COVERALLS	Solid	D006, D008	128
877	54 FW ARMAMENT SHOP	RAGS/DEBRIS/COVER	Solid	D006, D008	679
877	54 MXS PHASE SHOP	RAGS & DEBRIS	Solid	D006, F005	587
877	54 MXS PHASE SHOP	RAGS, COVERALLS & DEBRIS	Solid	D006, F005	1,047
877	CANN DOCK	SATURATED PADS W FUEL	Semi-Solid	D001	16
893	AMU/ 54 SORTIE GENERATION	RAGS, ADHESIVE & DEBR	Solid	D006, D008, F005	56
898	RPA STRUCTURES	PAINT FILTERS, PAPER	Solid	D007	90
898	RPA STRUCTURES	PAINT FILTERS, RAGS	Solid	D005, D007, D011, F005	552
898	RPA STRUCTURES	PAINT FILTERS, RAGS	Solid	D007, D011, F005	1,060
898	RPA STRUCTURES	PAINT RELATE MATERIAL	Liquid	D001, D035, F005	360
898	RPA STRUCTURES	WASTE PAINT RELATED	Liquid	D001, D035, F005	410
901	POWER PRO/ELECTRIC (BARE BASE)	RAGS & DEBRIS	Semi-Solid	D001	1,012
901	VEHICLE MAINTENANCE (BARE BASE)	RAGS & DEBRIS	Solid	D039, F001	273
903	CORROSION (BARE BASE)	PAINTS, SOLVENTS	Liquid	D001, D035, F003, F005	464
903	CORROSION (BARE BASE)	RAGS, FILTERS, DEBRI	Solid	F005	2,082
905	CORROSION CONTROL (BB)	BEAD BLASR, FILTERS	Solid	D007	1,043
936	REFUELING MAINTENANCE	FUEL FILTERS, RAGS & DEBRIS	Solid	D039, F001	120
1079	ARMY AIR	RAGS, SOLID ADHESIVE	Solid	D006	537
1079	ARMY AIR	USED GREASE	Semi-Solid	D006	131
1080	FULL SCALE DRONES	RAGS, ABSORBENT, DEB	Solid	D006	733
1173	MACHINE SHOP	USED METAL CUTTING FL	Liquid		4,580
1252	MUNITIONS PGM	WASTE SOLID FILM LUB	Liquid	D001	35
1263	SFNSNH/NGA	MERCURY CLEANING	Solid	D009	24

1178A	CORROSION CONTROL HSTT	RAGS & DEBRIS W SOLV	Solid	F005	112
227	AAFES BX	EXPIRED CIGARETTES	Other	P075	17
282N	TIRE SHOP (M1)	JET WASH WATER	Liquid	D006	3,363
282N	TIRE SHOP (M1)	RAGS & DEBRIS	Solid	D006	8
898N	NDI LAB	ABSORBENT AND DEBRIS	Solid	D011	25
898N	NDI LAB	NDI SILVER RECOVERY	Liquid	D010, D011	609
Total (1 Oct 16-30 Sep 17)					56,505