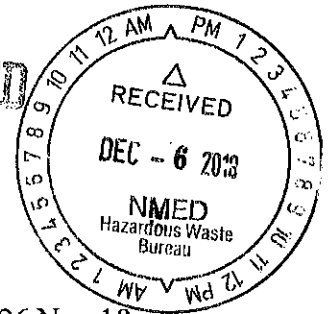




DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH WING (AETC)
HOLLOMAN AIR FORCE BASE NEW MEXICO

ENTERED



26 Nov 18

David G. Griffin
Environmental Chief
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 2018 Holloman AFB Waste Minimization Program for the period of 1 Oct 17 through 30 Sep 18. 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,

DAVID G. GRIFFIN, GS-12, DAFC



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



06 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

Fiscal Year 2018 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.

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

Holloman AFB FY 18 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 Hazardous Waste 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.

Recycling Hazardous Waste solvent through Safety Kleen.

Waste Minimization Plan Objective

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 18 Actions

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.

Hazardous material process authorization and hazardous materials management processes. Each process involving use of hazardous materials and generation of waste streams is evaluated and authorized. Process authorization is performed through Enterprise Environmental Safety Occupational Health-Management Information System. The HW Program Manager, Hazardous Materials Management Program Team, and the generating activity make a final determination whether or not the results of the process authorization effort are sufficient to reduce waste toxicity and volume.

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 18 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.

Holloman AFB FY18 Hazardous Waste Matrix

Bldg	Shop Name	Waste Stream	State	EPA Waste Codes
23L	CLINIC LAB	USED STAINING	Liquid	D001
55	CE ASSET MGMT	DIESEL FUEL SPILL	Semi-Solid	D001
55	CE ASSET MGMT	DIESEL FUEL SPILL W/ABSORBENTS	Semi-Solid	D001
195	ALLIED TRADES	PAINT RELATED WASTE	Liquid	D001, F005
195	ALLIED TRADES	RAGS & DEBRIS W SOLV	Solid	F005
198	GENERAL PURPOSE VEHICLES	WASTE GASOLINE, DIESEL	Liquid	D001, D018
227 - BX	AAFES BX	EXPIRED CIGARETTES	Other	P075
280	HYDRAULIC SHOP (M1)	RAGS AND DEBRIS	Solid	D006
281	STRUCTURES (M1)	RAGS ADHES & DEBRIS	Solid	D007, D008, F005
282	PAINT SHOP (M1)	USED BLASTING MEDIA	Solid	D006, D007
282	PAINT SHOP (M1)	PAINT RELATED LIQUID	Liquid	D001, D007, D035, F003, F005
282	PAINT SHOP (M1)	PAINT RELATED LIQUID	Liquid	D001, D007, D035, F003, F005
282	PAINT SHOP (M1)	RAGS, FILTERS, DEBRIS	Solid	D001, D035, F001, F005
282N	TIRE SHOP (M1)	TIRE PARTS WASHER	Liquid	D006
283	AERO CLUB	RAGS, ABSORB, DEBRIS	Solid	D006, D008
286	Weapons (GAF)	ETHANOL MIX	Liquid	D001, D035
286	Weapons (GAF)	SK RAGS & DEBRIS	Solid	D006
286	Weapons (GAF)	PW SVB-175	Liquid	D006, D008
286	Weapons (GAF)	WASTE LIXTON	Liquid	D006
288	CES UTILITIES	FUEL FILTERS	Semi-Solid	D001, D018
294	PAINT SHOP (GAF)	FILTERS, RAGS, SOL	Solid	D005, D007, D010, F005
294	PAINT SHOP (GAF)	ABSORBENTS W FUEL	Semi-Solid	D001
297	AECOM- AGE 8TH AMU	RAGS, ABSORBENT, ADHESIVES & DEBRIS	Solid	D006, D007, D035

Bldg	Shop Name	Waste Stream	State	EPA Waste Codes
300	PROPULSION (M1)	VAPOR BLAST MEDIA	Liquid	D007
300	PROPULSION (M1)	WASTE PAINT CHIPS	Solid	D005, D006, D008
300	PROPULSION (M1)	FLUID CARBON REMOVER	Liquid	D006, D009, D010
301	8TH AMU/AECOM	OILY FUEL RAGS	Solid	D006, D007
304	49 AGE SHOP	RAGS,FUEL FIL & DEBR	Solid	D006
304	AECOM- AGE 8TH AMU	RAGS,FILTERS, DEBRIS	Semi-Solid	D006
309	AGE SHOP (M1)	OILY RAGS & DEBRIS	Solid	D006
315	FUEL SHOP (M1)	RAGS & ABSORBENTS	Solid	D006, F005
565	MQ1	PARTS WASHER SOLUTIO	Liquid	D006, D008
578	T-38 COSO (M1)	RAGS & DEBRIS W MEK	Solid	D006, F005
700	POL (LRS)	TANK WATER BOTTOMS	Liquid	D001, D008, D018
702	REFUELING MAINTENANCE	FUEL FILTERS & PADS	Solid	D008, D018
702	REFUELING MAINTENANCE	SPILL CLEANUP RAGS	Solid	D008, D018
787	COMMISSARY	SULFODENE	Liquid	D001
806	HAZMART	ADHESIVE W MANGANESE	Liquid	D001, D007, D023, D035
806	HAZMART	205 FAST HARDENER	Liquid	D002
806	HAZMART	SULFURIC ACID (10-50	Liquid	D002
806	HAZMART	OXYGEN SENSOR	Solid	D002, D008
806	HAZMART	DOT CORROSIVE	Liquid	D002
806	HAZMART	AEROGLAZE 9700 B	Liquid	D001, D002
806	HAZMART	H2O TEST KIT M272	Solid	D004, D009, P098
806	HAZMART	CARBARYL	Solid	U279
806	HAZMART	WASTE ALODINE LIQUID	Liquid	D002, D007
806	HAZMART	A1177B1/B2 PART B	Liquid	D002
806	HAZMART	EXPIRED 2010 ADHESIVE	Liquid	D003
806	HAZMART	EXPIRED CHEMSEARCH 999	Liquid	D002
806	HAZMART	CHEMSEARCH 777	Liquid	D002
806	HAZMART	EXPIRED WASH PRIMER REDUCER	Liquid	D001, D002
806	HAZMART	DUR-A-PLEX-TTP-1757B	Liquid	D001
806	HAZMART	BIOGUARD POWERFLOC	Liquid	D002
806	HAZMART	DS 108 EXPIRED	Liquid	D001

Bldg	Shop Name	Waste Stream	State	EPA Waste Codes
806	HAZMART	HYDROCHLORIC ACID	Liquid	D002
806	HAZMART	206 SLOW HARDENER	Liquid	D002
806	HAZMART	G135 Part B, C & OR G335 Part B	Liquid	D002
806	HAZMART	ISOCYANATE POLYURETH	Liquid	D001, D005, D006, D007, D010, D035
806	HAZMART	SEALANTS & ADHESIVE	Liquid	D001, D005, D007, D008, D018, D023, D035
806	HAZMART	PUNCTURED AEROSOL	Liquid	D001, D005, D035, D039
806	HAZMART	PAINT, SOLVENTS	Liquid	D001, D035
806	HAZMART	EXPIRED PAINT	Liquid	D001, D007, D035
806	HAZMART	EXPIRED PAINT CONT 4	Liquid	D001, D007
818	54 FW AGE SHOP	RAGS,FUEL FILTERS	Solid	D006, D018
824	54 FG AVIONICS SHOP	RAGS & DEBRIS	Solid	D008, F005
830	F16 SHEET METAL SHOP	RAGS & DEBRIS W MEK	Solid	F005
839	PMEL	SMALL MERCURY SPILL	Semi-Solid	D009
856	54 FG EGRESS SHOP	RAGS, ADHESIVES	Solid	D035
856	PAINT SHOP (TRAX)	PAINT FILTERS FROM B	Solid	D007
868CD	CANN DOCK	SATURATED PADS W FUEL	Semi-Solid	D001
868N	54 FW FUEL SHOP	HYDRAZINE NEUTRALIZED	Liquid	U133
868N	54 FW FUEL SHOP	RAGS, ADHESIVE	Solid	D006, F005
B2	54 FUELS 868N2 BAY 2	ABSORBENT, RAGS, ADHESIVE	Solid	D006, F005
868S	314 SUPPORT	DIRTY CLOTH RAGS	Solid	D006
872	FUELS LAB	TANK WATER BOTTOM	Liquid	D001, D008, D018
877A	54 FW ARMAMENT SHOP	BEAD BLAST	Solid	D006, D007
877A	54 FW ARMAMENT SHOP	COVERALL WASH WATER	Liquid	D006
877A	54 FW ARMAMENT SHOP	RAGS, DEBRIS & COVERALLS	Solid	D006, D008
877A	54 FW ARMAMENT SHOP	RAGS & DEBRIS	Solid	D006, D008
877P	54 MXS PHASE SHOP	RAGS, COVERALLS & DEBRIS	Semi-Solid	D006, F005
877WT	54 FW & AECOM W & T	BURRITO, RAGS, COVERALLS	Solid	D006
877WT	54 FW & AECOM W & T	PARTS WASHER FLUID	Liquid	D006

Bldg	Shop Name	Waste Stream	State	EPA Waste Codes
898	RPA STRUCTURES	WASTE PAINT RELATED	Liquid	D001, D035, F005
898	RPA STRUCTURES	PAINT FILTERS, RAGS	Solid	D007, D011, F005
898	RPA STRUCTURES	PAINT FILTERS, RAGS	Solid	D007, D011, F005
898	RPA STRUCTURES	PAINT FILTERS, RAGS	Solid	F005
898N	NDI LAB	NDI SILVER RECOVERY	Liquid	D010, D011
898N	NDI LAB	EMULSIFIER	Liquid	D006, D009, D010
898N	NDI LAB	ABSORBENT AND DEBRIS	Solid	D011
901PP	POWER PRO (Bare Base)	RAGS & DEBRIS	Semi-Solid	D001
901VM	Vehicle Man (Bare Base)	FUEL FILTERS, RAGS & DEBRIS	Solid	D039, F001
903	CORROSION (Bare Base)	RAGS, FILTERS, DEBRIS	Solid	F005
903	Corrosion (Bare Base)	PAINTS, SOLVENTS	Liquid	D001, D035, F003, F005
905	CORROSION (BB)	BEAD BLAST, FILTERS	Solid	D007
918	POWER PRO 918	ABSORBENTS, RAGS W FUEL	Solid	D001
936	Refueling Maintenance	FUEL FILTERS, RAGS & DEBRIS	Solid	D039, F002
1058	QA BLDG 1058	USED ANTIFREEZE	Liquid	D006
1058	QA BLDG 1058	ABSORBENTS, W FUEL FILTERS	Solid	D006
1079	ARMY AIR	RAGS, SOLID ADHESIVE	Solid	D006
1080	FULL SCALE DRONES	RAGS W FUEL	Solid	D001, D006, D018
1178	CORRIOSION HSTT	RAGS & DEBRIS W SOLVENT	Solid	F005
1181	TEST TRACK (TRAX)	RAGS & DEBRIS W SOLVENT	Solid	D006
1223	AMMO GAF	RAGS & DEBRIS	Solid	D006
1252	MUNITIONS PGM	WASTE SOLID FILM LUB	Liquid	D001, F005
1278	COMBAT ARMS RANGE	PARTS WASHER FLUID	Liquid	D008