



DEPARTMENT OF THE AIR FORCE
MISSISSIPPI AIR NATIONAL GUARD
HEADQUARTERS, 186TH AIR REFUELING WING (AMC)
MERIDIAN MISSISSIPPI

1 July 2014

1st Lt John P. Garrett
Environmental Manager
186 ARW/EM
6225 M Street
Meridian, MS 39307-7112

Mr. Khairy Abu-Salah
MS Department of Environmental Quality
Environmental Permits Division
515 East Amite Street
Jackson, MS 39201

Dear Mr. Abu-Salah,

Enclosed is the 2013 Annual Waste Minimization Certified Report for the 186th Air Refueling Wing at Key Field in Meridian, MS. The report includes a summary of the wastes disposed of during calendar year 2013 and a comparison with wastes disposed in 2012. The baseline year is 2003.

If your office requires additional information concerning this report or other environmental issues at the 186th Air Refueling Wing, I may be contacted at (601) 484-9809.

Sincerely,

A handwritten signature in black ink, appearing to read "John P. Garrett", is written over a horizontal line.

JOHN P. GARRETT, 1st Lt, MS ANG
Environmental Manager

Attachment:
2013 Annual Waste Minimization Certified Report

2013 Annual Waste Minimization Certified Report

186th Air Refueling Wing, MS ANG
 EPA ID No. MS5572825904
 Lauderdale County, Mississippi

Types and Quantities of Waste Generated:

	Baseline Year (2003)	2012	2013
1. Solid Municipal Waste	141 tons	290 tons	253 tons
2. Hazardous Waste			
A. Solvent Wastes			
Safety-Kleen Solvent / Sludge (Hazardous)	3,586 lbs	0 lbs	0 lbs
Other Solvents (Weapons and Aqueous)	1,401 lbs	40 lbs	3 lbs
B. Hydraulic Fluid/Petroleum Wastes	1,953 lbs	1,091 lbs	381 lbs
C. Absorbent Pads w/Hydraulic Fluid	744 lbs	0 lbs	157 lbs
D. Paint Wastes			
Waste Paint	448 lbs	0 lbs	462 lbs
Blast Media (includes filters)	350 lbs	0 lbs	0 lbs
Paint Filters (includes paper and other residue)	123 lbs	153 lbs	75 lbs
E. Other Wastes			
Adhesives	37 lbs	0 lbs	0 lbs
Waste Recycled Antifreeze Filters	0 lbs	0 lbs	10 lbs
Waste Aircraft Battery Water	0 lbs	139 lbs	85 lbs
Electrical Transformer Oil	0 lbs	0 lbs	1,042 lbs
F. Expired/Waste Materials			
X-Ray Fixer	0 lbs	0 lbs	85 lbs
Photographic Developer	0 lbs	0 lbs	17 lbs
	Total	8,642 lbs	1,383 lbs
			2317 lbs
3. Universal Waste			
Lithium Batteries	191 lbs	201 lbs	167 lbs
NiCad Batteries	191 lbs	0 lbs	0 lbs
NiMH Batteries	0 lbs	0 lbs	266 lbs
Lead Acid Batteries	168 lbs	0 lbs	0 lbs
Alkaline Batteries	0 lbs	0 lbs	0 lbs
Pesticides	0 lbs	0 lbs	0 lbs
Fluorescent Lamps / Bulbs	137 lbs	152 lbs	503 lbs
	Total	687 lbs	986 lbs
			936 lbs
4. Air Emissions – Actual Stationary			
A. Particulates (PM-10 and PM 2.5)	0.74 tons	0.20 tons	0.20 tons
B. Sulfur Dioxide	0.39 tons	0.08 tons	0.05 tons
C. Nitrogen Oxides	7.06 tons	1.70 tons	1.20 tons
D. Carbon Monoxide	3.00 tons	0.60 tons	0.50 tons
E. VOC's	2.10 tons	1.20 tons	1.10 tons
F. HAP's	0.39 tons	0.20 tons	0.10 tons
	Total	13.68 tons	3.98 tons
			3.15 tons

Summary Explaining Waste Generation, Goals, and Impediments:

Note: Percentage increase/decrease based on 2012 amounts.

1. SOLID MUNICIPAL WASTE. (13% decrease) This is an estimate of the wastes placed in dumpsters and removed by the solid waste contractor. It also includes 1,202 lbs of non-hazardous waste processed through DRMO or other contractors for disposal. This does not include recyclable items or construction debris. Items recycled or reused during 2013 includes: 36 tons of construction material; 22,296 lbs of scrap metal; 13,118 lbs of copper; 598 lbs of lead acid batteries; and 160 lbs of Ni-Cad Batteries. The base continues to recycle engine coolants for extended use. The base also estimates that 69 tons of construction debris was disposed of in local landfills.

2. HAZARDOUS WASTE. (63% increase)

A. Solvent Wastes. Safety-Kleen PD 680 type II solvent is used in most parts washers. The base has also begun replacing certain solvent-based parts washers with aqueous based washers. Safety-Kleen will continue to remove and distill the solvent from all machines regardless of the waste classification. Solvent wastes have been almost eliminated. There was only 3 lbs of solvent waste generated in 2013.

B. Hydraulic Fluid/Petroleum Wastes. There was a decrease of 710 lbs (65%) in the amount of hydraulic fluid/petroleum wastes generated during 2013. The quantity of this waste stream is directly related to the amount and type of maintenance performed during the year.

C. Absorbent Pads c/w Hydraulic Fluid. There was an increase of 157 lbs in the amount of absorbent pads generated in 2013. No absorbent pads were disposed of in 2012. The quantity of absorbent pads is dependent on the amount and type of maintenance performed during the year.

D. Paint. Total paint wastes increased 384 lbs (250%) from 2012. This waste stream is dependent on both the amount of painting conducted in the paint booth as well as the amount of bead blast used throughout the year.

E. Other Wastes. These are nonrecurring waste streams. This category increased 998 lbs (718%) from 2012. This increase is a direct result of a large one-time disposal of electrical transformer oil.

F. Expired Waste Materials. This includes materials that are no longer needed and those in which the shelf-life has expired. This waste stream increased from zero waste to 102 lbs in 2013. This waste stream will fluctuate year-to-year.

3. UNIVERSAL WASTE. (165% increase) Universal wastes increased 583 lbs from 2012. This waste stream is dependent on service intervals (battery and light bulb replacement) for critical equipment items.

4. AIR EMISSIONS. There was a 21% (0.83 ton) decrease in air emissions from 2012. This is due to mission changes and decreased flying operations.

In the 2004 report, the base requested that the baseline year be changed from 1991 to 2003 to allow better tracking of progress in reducing hazardous waste generation. Referencing the 2003 baseline, the base has increased Solid Municipal Wastes by 79%, decreased Hazardous Wastes by 73%, increased Universal Wastes by 36%, and decreased Air Emissions by 77%.