

**Robins Air Force Base**

# **Robins AFB**

# ***Environmental***

# ***Management System***

# **Awareness**



*This training supplements the required ADLS Environmental Management System – General Awareness Training (ZZ133070) as required by AFI 32-7001, Environmental Management – Section 4.3: Competence, Training, and Awareness*

***“The Installation of Excellence . . . The Best Place to Live, Learn, Work and Play”***



# The Mission



Robins Air Force Base

C-5



F-15



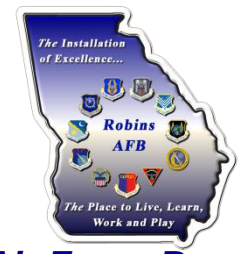
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# Air Force Requirements



**Robins Air Force Base**

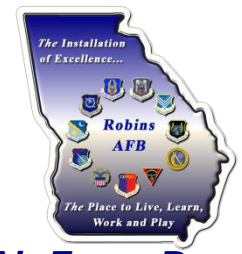
- **Environmental Management falls under Civil Engineering publications and generally follows the 32-series (see examples below)**

Document Number	Document Title
AFPD 90-8	Environmental, Safety, & Occupational Health Management and Risk Management
AFPD 32-70	Environmental Considerations in Air Force Programs and Activities
AFMAN 32-7002	Environmental Compliance and Pollution Prevention (Air Quality, HazMat, HazWaste, Solid Waste, Toxics)
AFMAN 32-7003	Environmental Conservation (Cultural and Natural Resources)
AFI 32-1067	Water and Fuel Systems (Water, Wastewater, Storm Water, Liquid Fuels, Natural Gas)
AFI 32-7001	Environmental Management
AFI 32-7044	Storage Tank Environmental Compliance
32 CFR Part 989	Environmental Impact Analysis Process (NEPA/EIAP)

*AFPD – Air Force Policy Directive; AFMAN – Air Force Manual; AFI – Air Force Instruction; CFR – Code of Federal Regulations*



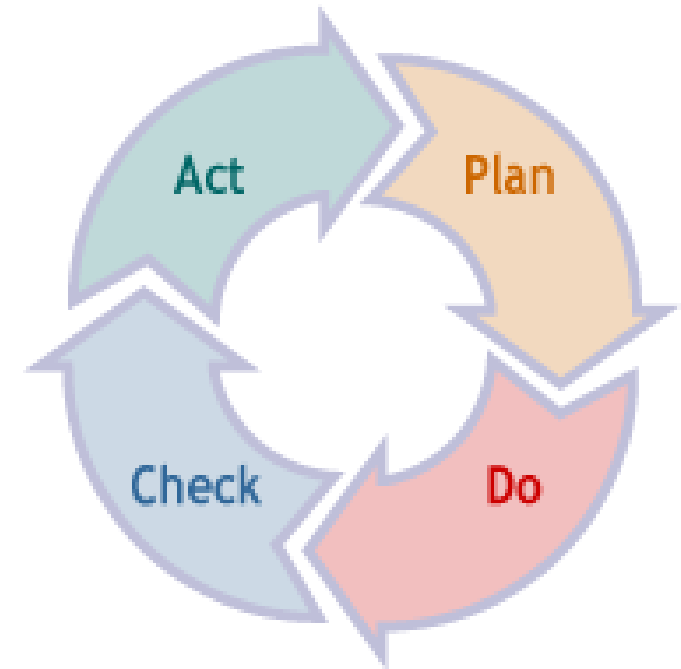
# What is an EMS?



Robins Air Force Base

## ➤ Environmental Management System (EMS)

- Plan
  - ID programs/processes with **highest risk/cost**
- Do
  - ID/provide **training**
  - Operation controls
- Check
  - **Inspect**
  - Verify compliance
- Act
  - Management **Review**

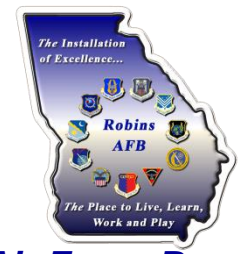


**KEY = Continual Improvement**



# **Robins AFB**

## **Environmental Attributes**

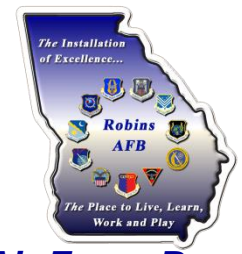


**Robins Air Force Base**

- **6,935 acres**
- **1,920 air sources; Title V (Major Source)**
- **15 million gal fuel stored in tanks**
- **19 active restoration sites (1 NPL/CERCLA; 18 RCRA)**
- **18,850 tons/yr solid waste – 55% recycled**
- **900,000-1,200,000 HazMat items tracked**
- **1,500 tons/yr (~3.7K containers) regulated/HazWaste processed**
- **19 Rare plant species of the State of GA; 2,250 wetland acres**
- **20 Historic NR eligible buildings; 1 eligible resource**
- **16 NR-eligible archaeology sites; 13 affiliated Tribes**
- **3 NPDES permits**
- **Support drinking water and 4 wastewater treatment plants**



# Robins AFB EMS Programs



Robins Air Force Base

## Robins AFB Environmental Programs with Risks and Costs

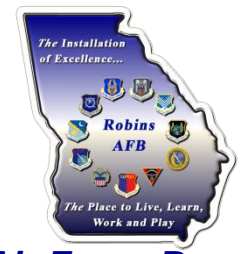
- **\*Water Quality – Wastewater**
- **\*Hazardous Materials**
- Natural Resources
- Water Quality – Drinking Water
- Air Quality
- Water Quality – Storm Water
- Fuels/POLs/Tanks – Aboveground Storage Tanks
- Fuels/POLs/Tanks – Underground Storage Tanks
- Hazardous Waste
- Integrated Solid Waste
- Cultural Resources
- Fuels/POLs/Tanks – Oil/Water Separators
- Toxic Substances
- Environmental Impact Analysis Process
- Integrated Solid Waste – Recycling

*\* Robins AFB Aspect with highest potential to impact*



# **Robins AFB**

## **FACTS**



*Robins Air Force Base*

- **Subject to inspections by Federal, State, and AF**
- **Subject to US, GA, Houston County, AF, and DoD environmental and reporting requirements**
  - **19 Environmental Management Plans**
  - **10 Environmental Permits** issued by US EPA, US FWS, and GA EPD
  - **AFIs, AFMANs, AFPDs, CFRs, Rules for State of GA**
- **Robins AFB is surrounded on 3-sides by water**
- **Largest Industrial Complex in Ga – Large quantity generator of HazWaste**



# Environmental Management Enhancing Mission Success



Robins Air Force Base



**National Environmental Policy Act (NEPA)**  
**Prior to ANY New Process or Action the Installation Must:**

- Consider All Environmental Impacts
- Consideration of Cumulative Environmental Effects
- Prevent or Mitigate Environmental Harm Where Possible
- Officially Document Consideration
- Public Notifications or Hearings When Needed



## Air Quality



- Permitting
- Approve Filter System & Coating Process
- Approve, Monitor, & Report Usage of VOCs & HAPs

## New Paint/Depaint Process



## HazMat



- Chemical Labeling
- Chemical Tracking
- Manage Chemical Approval Process



## Solid Waste/ P2/Recycling



- Identify Recycling Opportunities
- Solid Waste Management

## HazWaste



- Establish Waste Streams
- Provide Waste Containers & Labels
- Pickup Full Containers in Field
- Process Haz Waste for Disposal

## EMS



- Environmental Inspections
- Tracking Env. Findings
- Help Units Close Findings
- Identify Env. Improvement Areas

## Natural Resources

- Control Wildlife Hazards in Facility
  - ❖ Birds
  - ❖ Bats
  - ❖ Snakes
  - ❖ Insects



## Water Quality

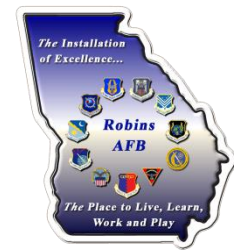
- Wastewater Permit Management
- Pre-treatment/Source Approval Mgmt
- Monitor & Report Discharges
- Water Efficiency/Conservation/Reuse







# Environmental Management Enhancing Mission Success



Robins Air Force Base



## National Environmental Policy Act (NEPA)

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### Solid & Toxic Waste

- Construction Waste Management
- Asbestos & Lead Paint Remediation



### HazWaste

- Establish Wastestreams
- Provide Waste Containers & Labels
- Process Haz Waste for Disposal



### Spills

- Manage Spill Sites
- Official Spill Notification & Reporting
- Contractor/Unit Cleanup Oversight



### Cultural Resources

- National Historic Preservation
- Archeological Impacts & Tribal Notifications



### Facility Construction/Repair



### Natural Resources

- Prevent/Minimize Impact to:
  - ❖ Rare Species/Ecosystems
  - ❖ Wetlands
- Control Wildlife Hazards
- Reduce BASH Risks
- Promote Sustainable Landscaping



### HazMat/Air Quality

- Approve Chemicals
- Permit Emission Sources (boilers/generators)
- Track/Report Chemical Usage

### Geographic Info System (GIS)

- Facility Condition Assessment
- Geospatially Collect Facility Info
- Map New Utilities
- Application & GIS Viewer Management



### Water Quality

- Erosion Control Permit Management
- Post-construction Storm Water Mgmt
- Approval to Modify Drinking Water and Wastewater Infrastructure





# Spill Reporting



Robins Air Force Base

## Spills, Discharges, Releases

- Hazardous Waste
- Water/Sewage/Industrial Wastewater
- Oil
- Fuel

**Contact Immediately**

**Report Immediately:**

- For any spill, discharge, or releases that:
  - is greater than 2 feet in diameter;
  - reaches a storm drain; and/or
  - reaches waters of the state

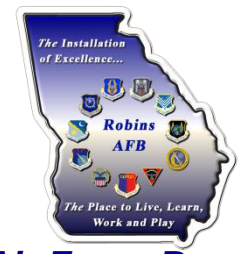
**Nothing other than clean water can enter a storm drain**

**Call  
911**



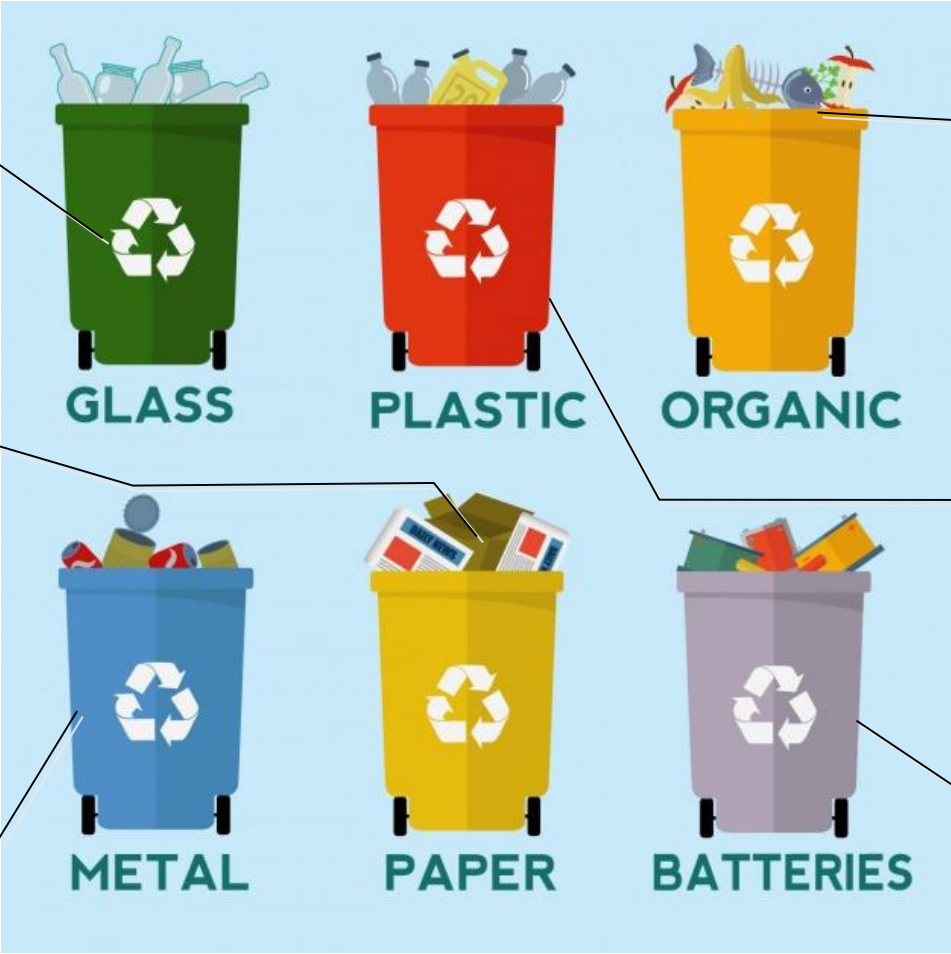


# Recycling



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Building 987  
Brown/Green/  
Clear Glass



Not Available

Building 987  
White & Mixed  
Paper/  
Cardboard

Happy Hour  
202 N Davis Dr.  
Warner Robins  
Off-site Only

Building 987  
Steel & Aluminum  
Cans

Building 1555  
Scrap Metals/  
Copper Wire

Building 359

\*Lithium Ion  
\*Nickel-Cadmium  
(NiCad)

RECYCLED: Lead Acid

\*Considered Universal Waste

**Toner Cartridges can be taken to Building 987**



# Which batteries can go in the trash?



Robins Air Force Base

- **Alkaline batteries can be disposed in trash**
- **Lead acid batteries are recycled**
- **Other batteries (e.g., NiCad, Silver Oxide) are managed as Universal Waste [if include precious metal(s)\*, also managed as part of Precious Metal Recovery Program (PMRP)]**



Precious metals include: gold, silver, platinum, palladium, rhodium, iridium, osmium and ruthenium



# Light Bulbs



Robins Air Force Base

## DON'T TRASH FLUORESCENT LIGHT BULBS!

Take them to a Universal Waste Collection Center or Recycle Compact Fluorescent Lamps at a participating retail store.

Your Local Universal Waste Collection Center is:

Fluorescent light bulbs contain mercury and cannot be disposed of in the trash.

Hg

This symbol on a bulb or package means that bulb contains mercury. For safe disposal options, call 1-800-452-1942.

## Fluorescent bulbs contain Mercury!

Fluorescent bulbs are considered Universal Waste and managed under the Hazardous Waste program; Bulbs should be properly containerized\* and brought to Building 359

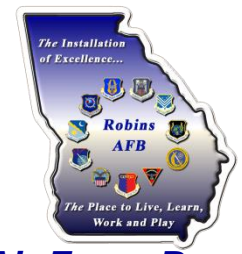
Lamps that use mercury:

- Common fluorescent lamps
- Metal halide lamps
- High pressure sodium lamps used for floodlights
- Streetlights

\*Containers available at Building 359



# **Robins AFB Workforce**



**Robins Air Force Base**

**Contracting**

**Painters**

**Sheet Metal/  
Corrosion  
Control**

**Facility  
Managers**

**Security  
Forces**

**Plumbers**

**Fire Fighters**

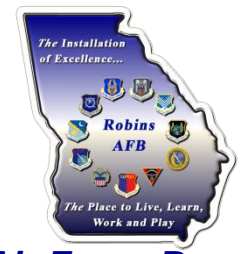
**Safety and  
Health**

**Leadership**

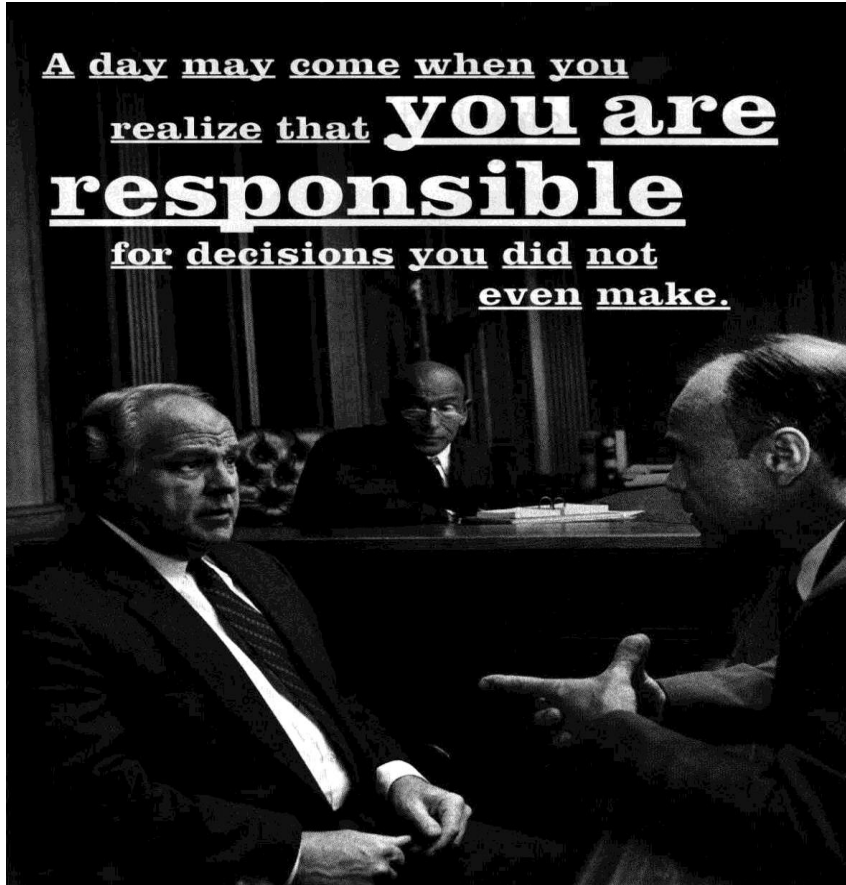
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# Liability Risks



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## ➤ Penalties

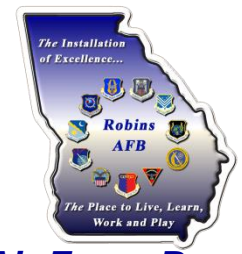
- Criminal (Jail): Willful violation of the Law
- Civil (Fines)

## ➤ Organizational

- Administrative Fines
- **\$37,500/Violation/Day**
- Funding Allocation
- Injunction on Mission



# Take-a-way!



Robins Air Force Base

- **Comply** with Permits & AF requirements
  - Permits are Laws!
- **Report** Spills & Violations
- **Communicate** with Base Environmental
- Implement EMS in the Planning Phase
  - **Plan, Do, Check, Act**
- **Reduce** Environmental Liability
- Continue Efforts to **Promote** a **Positive** Image
  - Local Community (155K people); RAFB (25K people)





# Environmental Policy Statement



Robins Air Force Base



## Robins AFB Environmental Commitment



All Robins AFB employees are committed to environmental excellence, the stewardship of community resources, and sustainability of basewide operations by implementing the following:

**S**et objectives: We will fulfill or exceed our environmental objectives to improve operational readiness.

**O**bey requirements: We will comply with environmental regulations and requirements while minimizing liabilities.

**A**chieve improvements: We will continually improve our programs, processes, and systems.

**R**educe pollution: We will reduce or eliminate the use of hazardous materials and pollutants, purchase environmentally preferable products and services, while encouraging recycling.



BRIAN R. MOORE, Colonel, USAF  
Commander

18 Feb 20

Date





**Robins Air Force Base**

# ***Questions?***