Headquarters U.S. Air Force

Integrity - Service - Excellence

Effective Environmental Management Systems



U.S. AIR FORCE

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2



Provide environmental professionals with the latest situational awareness on the Air Force Environmental Management Systems (EMS) determination of Effectiveness



AF Environmental Stewardship

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Env Compliance Goal: Ensure compliance with all federal, state, and local Env laws

- Operationalize an Effective Environmental Management System (ISO 14001, Exec Order 13693, DoDI 4715.17, AFPD 90-8, AFI 32-7001,
 - HAF ESOH Council: Comply with Env law, reduce risk, continuously improve)





161 Installations, 44 Range Complexes



598K acres of forest 266K acres of wetlands



246 Waste Water Permits 207 Storm water Permits



> 200 Miles of Coastline



9M Acres of Land: Forests, prairies, deserts, wetlands, coastal habitats



180 Water Systems Serving ~1M Personnel



329 Federally-Recognized Tribes



124 Threatened/Endangered Species on 54 installations



240 Clean Air Operating Permits

Natural & Built Infrastructure Provides Capacity for Mission Capability

How We Support



Manage/Track Air Sources/Permits SPCC/CSCP Plans



Haz Materials Mgmt., QRP, HazWaste Mgmt



Compliant Wastewater Storm Water Pollution Prvn



Centralized Mgmt of Environmental Support



Enterprise IT for Compliance Reporting & Tracking



EMS Framework



Partnerships with Federal, State, NGOs, & Universities



Consultation with Tribes, Alaska Native/Hawaiian Groups



Conservation Planning (INRMPS/ICRMPS

Protecting Human Health & the Environment while Sustaining Mission 5



- It is the responsibility of all Airmen to support the overall AF Mission
- This is currently being achieved in our environmental framework by ensuring:
 - Comply: Comply with all environmental legal obligations
 - Reduce Risk: Ensure availability of workforce, natural, and manmade resources by effectively managing environmental risks
 - Continually Improve: Instill a culture of continual environmental improvement
- Executive Order Driven: EO 13423 All DOD "Appropriate Facilities" implement conforming EMS by Dec 09



EMS OVERVIEW





- EO 13423 All DOD "Appropriate Facilities" implement fully conforming EMS by Dec 09
 - AF has 86 "appropriate facilities", i.e., major installations
 - Air National Guard uses an overarching EMS (applies to multiple installations)



E.O. 13834, Efficient Federal Operations

 It is the policy of the United States that agencies shall meet such statutory requirements in a manner that increases efficiency, optimizes performance, eliminates unnecessary use of resources, and protects the environment. In implementing this policy, each agency shall prioritize actions that reduce waste, cut costs, enhance the resilience of Federal infrastructure and operations, and enable more effective accomplishment of its mission.



E.O. 13834, Efficient Federal Operations (Cont)

- Council on Environmental Quality, Office of Federal Sustainability Implementing Instructions, April 2019
 - Continue effective management strategies, such as Environmental Management Systems (EMS), that facilitate implementation and progress toward E.O. goals (Page 9).
 - Resilience generally can be defined as the ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions.



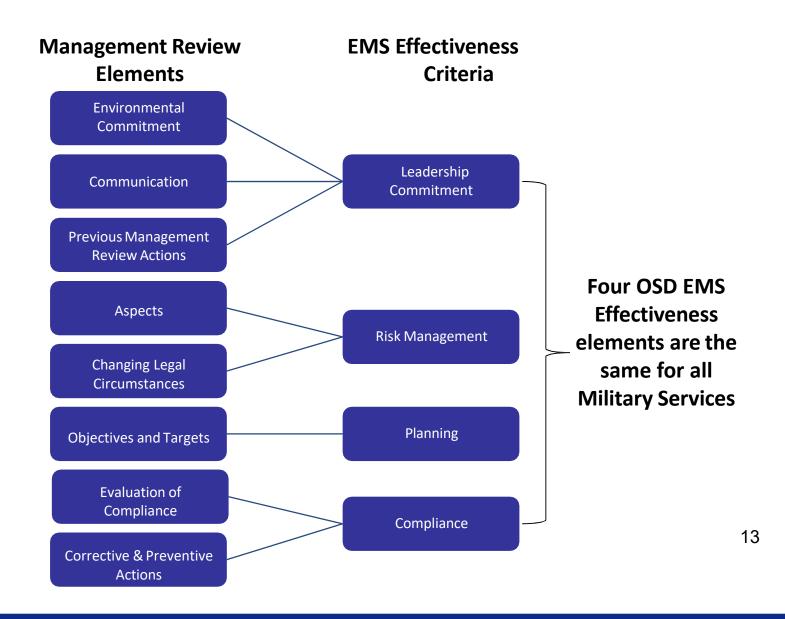
- Leadership: Emphasis on leadership involvement with the entire management system to prevent delegation of responsibility to a solitary management representative (EFFECTIVENESS)
- Environmental performance: Emphasis with regard to continual improvement, from improving the management system to <u>improving environmental performance</u> (EFFECTIVENESS)
- Protecting the Environment: <u>Commit organizations to</u> proactively protect the environment, consistent with the context of the organization (EFFECTIVENESS)



Air Force Definition of an Effective EMS

- DoD Guidance for Executive Order 13693, issued 30 MAR 16, requires federal facilities to continue to implement and maintain formal EMSs where "proven effective"
- An Effective Air Force EMS:
 - Has completed a management review at least annually
 - Meets the effectiveness criteria of leadership commitment, risk management, planning, and compliance

Management Review Element Mapping to Effectiveness Criteria



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Management Review Element Mapping to Effectiveness Criteria

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Previous Management Revie	w Actions				
Corrective and Preventive Ad	tion Statu	15			
Evaluation of Compliance					
External Communications					
Environmental Action Plan S	tatus				
Changing Legal Circumstance	es				
Aspect Inventory Review and	I Approva	I			
Environmental Policy / Com	nitment S	tatement			_



5

Installation Level Effectiveness Criteria

- A senior leadership EMS Management Review has been completed within the past 12 months
- The Management Review determined the EMS is effective in the following:
 - Leadership Commitment: Leadership is engaged to ensure: environmental commitment is current and communicated; communication with external and internal interested parties is ongoing; and management review actions are resolved.
 - Risk Management: EMS is focused on risk identification and management to ensure: environmental aspects are identified; and the organization adjusts and adapts to changing legal and other requirements.
 - Planning: Actions are planned and controls are sustained to ensure: objectives, targets, and required resources are established and implemented; and Environmental Management Plans and Permits are current.
 - Compliance: EMS achieves compliance and ensures: non-compliance findings from internal or external sources are tracked; regulatory notices of violation are resolved; and corrective and preventative actions are on schedule to be completed.
- If YES, EMS is Effective
- If NO, EMS is Not Effective



6

Installation Level Effectiveness

<u>Criteria</u>

Overall Facility/Organization-Level Rating	Effective
Most Recent Review	Previous Review
12/15/2016	12/10/2015
Element	Rating
Leadership Commitment: Leadership is engaged to ensure: environmental commitment is current and communicated; communication with external and internal interested parties is ongoing; and management review actions are resolved.	Yes
Risk Management: EMS is focused on risk identification and management to ensure: environmental aspects are identified; and the organization adjusts and adapts to changing legal and other requirements.	Yes
Planning: Actions are planned and controls are sustained to ensure: objectives, targets, and required resources are established and implemented; and Environmental Management Plans and Permits are current.	Yes
Compliance: EMS achieves compliance and ensures: non- compliance findings from internal or external sources are tracked; regulatory notices of violation are resolved; and corrective and preventative actions are on schedule to be completed.	Yes



Effectiveness Criteria

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Status Icon	Items to Review	Good	Caution	Action/Attention Needed
Environmental Policy/ Commitment Statement	 ESOHC meeting minutes documenting annual review of Environmental Policy/ Commitment Statement Signed Wing CC Environmental Policy/ Commitment Statement See AFI 32-7001, Section 3.3.2 	ESOHC has completed an annual review/approval of the Environmental Policy/ Commitment Statement AND Environmental Policy/ Commitment Statement is posted to eDASH AND Environmental Policy/ Commitment Statement is available to the public AND Environmental Policy/ Commitment Statement is effectively implemented and understood by affected installation personnel and stakeholders as verified through the Air Force Inspection System (AFIS)	ESOHC has completed an annual review/approval of the Environmental Policy/ Commitment Statement BUT Environmental Policy/ Commitment Statement is NOT posted to eDASH OR Environmental Policy/ Commitment Statement is NOT available to the public OR Environmental Policy/ Commitment Statement is NOT effectively implemented and understood by affected installation personnel and stakeholders as verified through the AFIS	ESOHC has NOT completed an annual review/approval of the Environmental Policy/ Commitment Statement

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User Guide



- AF Policy requires installations to complete one Management Review each year
- Management Review criteria has changed
 - We are moving beyond EMS conformance
 - We are now measuring both whether our EMSs conform to policy requirements and whether effective in doing so





- Allow Installations the ability to select Management Review FY
 - Installation selects Management Review FY
- Require ESOHC approval within the Management Review 'Annual' review period
 - Allows flexibility for delayed/cancelled ESOHC meetings during Annual review
 - ESOHC meetings must occur during Annual review (within the FY selected by the Installation)



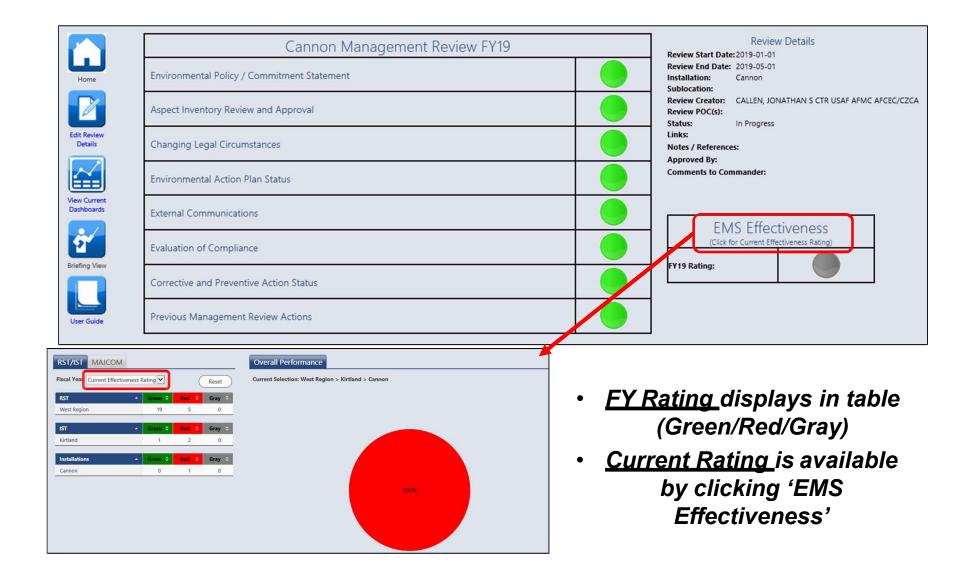


- Link to Current Effectiveness rating from Management Review Tool
 - Current Approach: Display current rating in the Management Review Tool's EMS Effectiveness Table
 - New Approach: Link to EMS Effectiveness Dashboard from the Management Review Tool for users to view Current Effectiveness Rating in authoritative data source



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Management Review Tool EMS Effectiveness Table





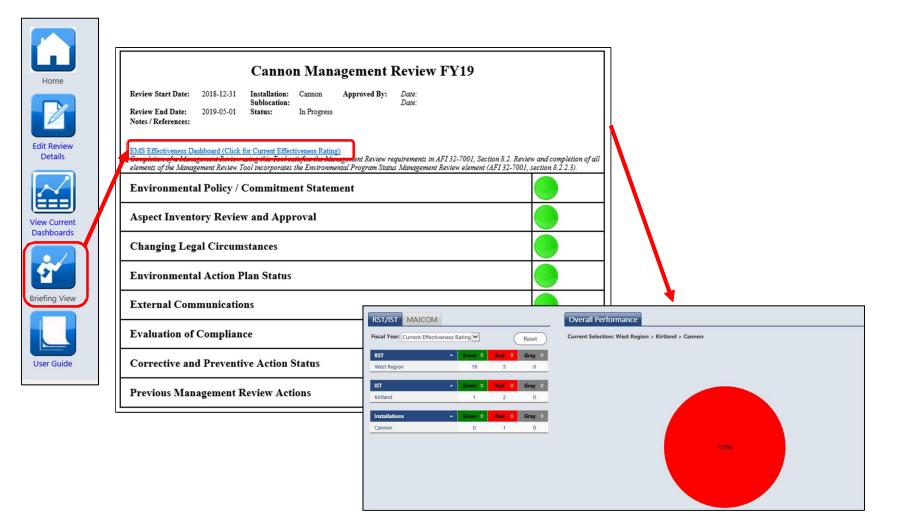
Management Review Tool

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611th Management Review	FY17 Review Details Review Start Date: 2016-10-01
Environmental Policy / Commitment Statement	Review End Date: 2017-10-01 Installation: 611th Sublocation:
Aspect Inventory Review and Approval	Review Creator: LEEPER, KARLENE B GS-12 USAF PACAF 611 CES/CEIEC Review POC(s): LEEPER, KARLENE B GS-12 USAF PACAF 611 CES/CEIEC; Status: In Progress
Changing Legal Circumstances	Links: Notes / References: Approved By:
Environmental Action Plan Status	Comments to Commander:
External Communications	EMS Effectiveness
Evaluation of Compliance	Current Rating:
Corrective and Preventive Action Status	FY17 Rating:
Previous Management Review Actions	
	Current EMS Effectiveness Rating
	The current EMS Effectiveness rating represents the rating of the most recently completed management review. This rating is used for leadership briefing and reporting and displays on all relevant eDASH Dashboards
	Green:
	 A Management Review was completed (e.g., all management review elements were graded, AN Management Review includes an ESOHC approval date), AND No elements were graded RED
	Red:



Management Review Tool Briefing View





EMS Effectiveness Dashboard

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EMS Effectiveness Dashboard

This dashboard displays Installation Environmental Management System (EMS) Effectiveness as determined by annually-required EMS Management Reviews. Click on a button/tab to see

RST/IST MAJCOM				Overall Performance
iscal Year: Current Effectiveness	Rating 💙	(Reset	Current Selection: All Installations
RST 🔶	Green \$	Red \$	Gray 🗘	
East Region	11	5	0	
Europe Division	4	8	0	
Midwest Region	6	11	0	
Pacific Division	4	5	0	
West Region	13	11	0	
19 <u></u>				
IST 🔶	Green ≎	Red 🗘	Gray 🗘	
Barksdale	3	1	0	48.3
Edwards	2	1	0	51.7%
Eglin	2	1	0	
Hill	2	2	0	
Japan/Korea	3	3	0	
JBCHS	3	0	0	
JBER	1	2	0	
JBLE	1	2	0	



FY Effectiveness Rating

EMS Effectiveness Dashboard

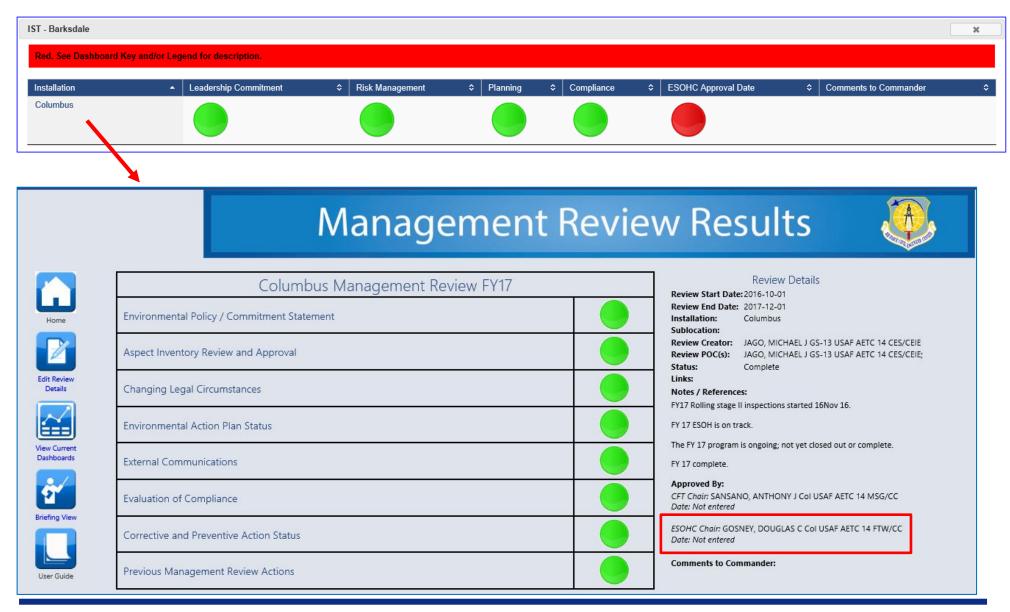
This dashboard displays Installation Environmental Management System (EMS) Effectiveness as determined by annually-required EMS Management Reviews. Click on a button/tab to see the associa

		12	- 12
Fiscal Year: FY17	~	(Reset
RST *	Green 🗘	Red 0	Gray 🗘
East Region	11	5	0
Europe Division	4	8	0
Midwest Region	4	13	0
Pacific Division	4	5	0
West Region	12	12	0
IST 🔺	Green 🗘	Red 0	Gray 0
Barksdale	2	2	0
Edwards	2	1	0
Eglin	2	1	0
Hill	1	3	0
Japan/Korea	3	3	0
JBCHS	3	0	0
JBER	1	2	0



Current Effectiveness Rating

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Current EMS Effectiveness

Non-Effective EMS Challenges

Leadership Commitment

• Failure to conduct annual ESOHC management review

Risk Management

- Permit requirements not being performed
- Out of date Regulatory Plans
- Planning
 - Failure to establish Objectives and Targets
- Compliance
 - Not conducting required self-assessments
 - Enforcement Actions



Benefits of Effectively implementing EMS

- Improvements in overall environmental performance and compliance
- Provide a framework for using pollution prevention practices to meet EMS objectives
- Increased efficiency and potential cost savings when managing environmental obligations
- Promote predictability and consistency in managing environmental obligations
- More effective targeting of scarce environmental management resources
- Enhance public posture with outside stakeholders
- Ensure support for DOD Sustainability

Environmental Compliance, Risk Reduction, Continuous Improvement





- Air Force environmental program priorities continue to be:
 - comply with the legal obligations
 - reduce risk
 - continuously improve
- Responsible Environmental Management provides assured access to land, air and water to accomplish the Air Force mission that has inherent environmental risk
- Continue to meet environmental challenges to sustain the mission
- Build relationships and leverage Fed/State partners to achieve compliance & regulatory goals







EMS Effectiveness

QUESTIONS