

25 Years of TEAM Guide Assessments: What Now?

Peter M. Heinricher
Social Scientist
Construction Engineering Research Laboratory

October 2019 – Federal Environmental Symposium







ERDC-CERL

ESOH Compliance Quad

Problem Statement

How can Federal facilities avoid the ramifications of noncompliance (environmental and/or safety)?

- fines (\$), response costs
- operational / training impacts
- damage to natural resources / human capital
- detrimental public relations

Annual Timeline and Execution

 Federal Agency implementation of annual, consistent, empirical audit/inspection programs using a standardized set of tools which:

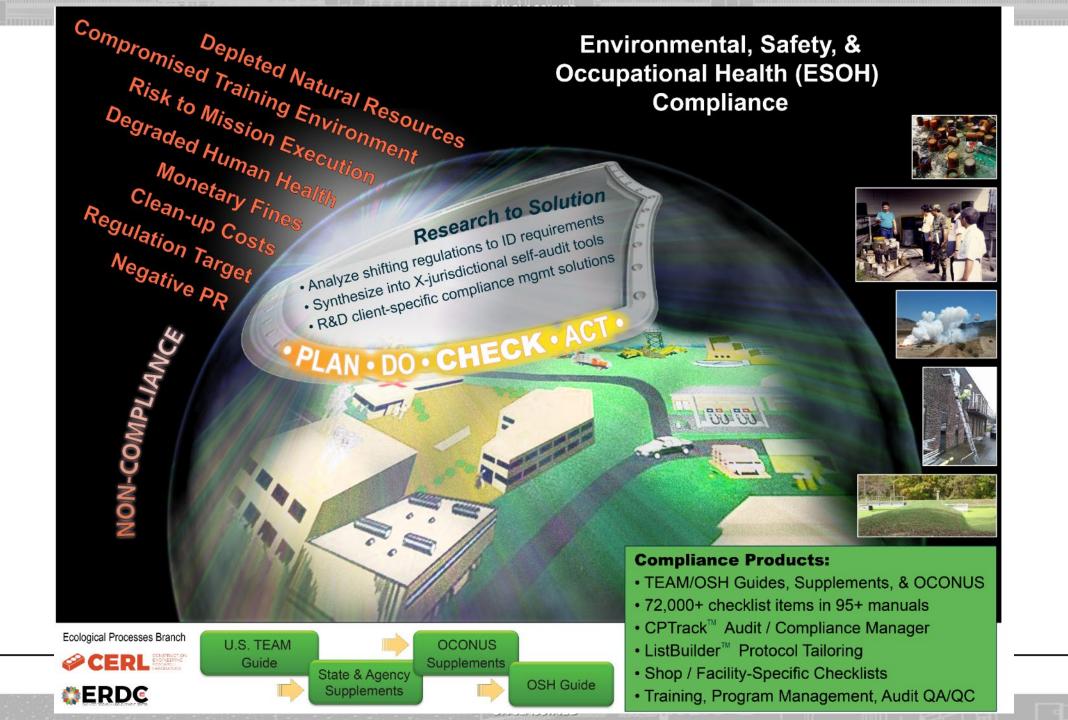
Impacts

- Educate field-level personnel on regulatory requirements
- Facilitate analysis and comparison of data for trends, root cause, and policy gaps
- Reduces monetary, mission, and personnel risks

New Technology

- A single standardized organizational schema correlating Federal, State, and Agency regulatory requirements
- RMF-compliant application reflecting the Plan–Do-Check-Act Model for compliance evaluations
- Applications to more narrowly identify pertinent regulatory requirements based on activity type

Product	Schedule	Additional Information
U.S. TEAM Guide	Updated Quarterly	Dec, Mar, Jun, Sep
State Supplements	Updated Annually	≈ 5/month
OCONUS Supplements	Variable	
Agency Supplements	Updated Quarterly	Dec, Mar, Jun, Sep
OSHGuide	Updated Quarterly	Dec, Mar, Jun, Sep
CPTrack	Updated Monthly	New functions/regs
Training/Audits	As Requested	





































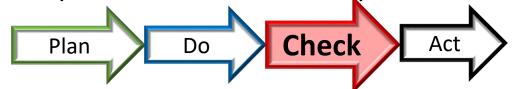




ESOH Compliance

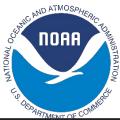
Enhancing Compliance and Stewardship Across the Federal Government























What we used to find Surprising storage



US Army Corps of Engineers • Engineer Research and Development Center

What we used to find Unorthodox disposal



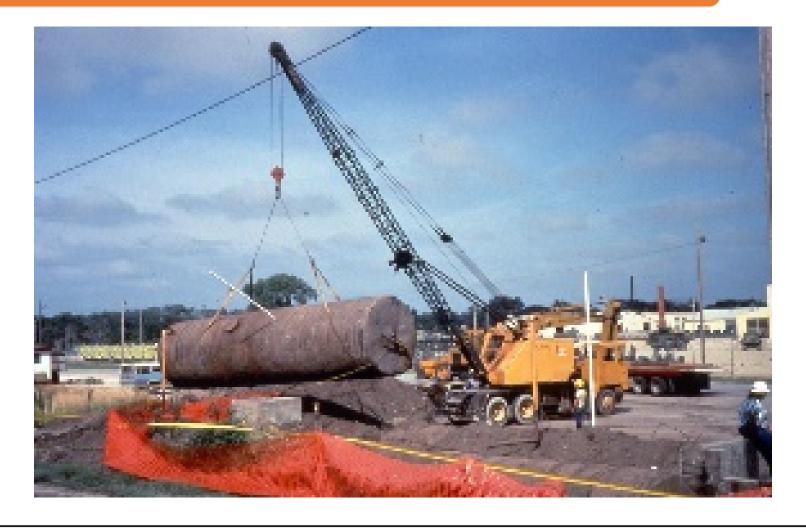
What's happened since . . . Risky facilities closed



US Army Corps of Engineers • Engineer Research and Development Center

UNCLASSIFIED

What's happened since . . . Tanks yanked



What's happened since . . . Waste piles cleaned up



US Army Corps of Engineers • Engineer Research and Development Center

What we find now . .



Common Findings: Housekeeping

Labeling

- Fuel Pumps
- Hazardous Materials Containers
- Hazardous Waste/Used Oil/Universal Waste
- Pesticide Application Equipment & Storage
- PCB Equipment & Storage

Paperwork Updates

- Inventories (Air Emissions, HM, HW, Tanks, Pesticides, Asbestos, PCBs, etc)
- Safety Data Sheets
- Personnel assignments
- Spill Plans

Daily Operational Practices

- Storage (HazMat/Waste, Pesticides, POL, etc)
- Personnel training, certification, licensing
- Inspections (storage areas, USTs)
- Improper disposal (open dumps, tires, hazmat containers, drains)

COMMON BUT NOT HOUSEKEEPING

- Permits
- Programs: HazComm, HWMP, Pesticide
 Application, Natural Resource, Pretreatment, UIC
- Facilities and equipment
 - Water/wastewater systems
 - Air pollution control equipment

Common Findings

Common Noncompliance Issues	TEAM Supplement Checklist Item Number		
Hazardous Material			
Unlabeled or improperly labeled hazardous materials	HM.1.3.US		
Safety Data Sheets (SDS) not available for hazardous materials onsite	HM.1.2.US		
Spills in excess of a Reportable Quantity	HM.20.2.US		
Cabinets storing flammable liquids are not flam cabinets	HM.35.4.US		
Hazardous materials inside flam cabinets are not closed	HM.35.5.US		
Hazardous Waste			
Wastes not characterized (orphan drum)	HW.10.1.US.		
Universal waste storage not labeled properly	HW.280.2.US		
VSQG exceeds quantity limitations	HW.15.1.US		
VSQG labels containers incorrectly	HW.15.1.US		
SQG exceeds time/quantity limitations	HW.20.1.US		
SQG labels containers incorrectly	HW.20.1.US		
SQG satellite accumulation areas managed incorrectly	HW.35.1.US		
SQG 180-day accumulation area does not have containment/alarm communication/ spill control equipment/fire equipment	HW.40.2.US		
LQG exceeds time/quantity limitations	HW.55.1.US		
LQG labels containers incorrectly	HW.55.1.US		
LQG satellite accumulation areas managed incorrectly	HW.75.1.US		
LQG 90-day accumulation area does not have	HW.80.4.US		
containment/alarm/communication/ spill control equipment/fire equipment			

Where To Now?

• Assumption #1: We would like to save money, time, effort

 Assumption #2: We would like to maintain an acceptable level of compliance/noncompliance

Option 1

- Declare Victory
 - We've fixed the big problems, and will accept the risk for the small problems: If caught, pay the fines, take the PR hit (if any)
- Drawbacks?
 - Seems to be against spirit of EMS, Executive Orders
 - Small problems grow into big ones
 - Lose track: (1) People only do what you check on;
 (2) You can only manage what you can measure

Option 2

- Status Quo: Keep on doing what you're doing now
 - Maintain commitment to compliance at current level of effort
 - Accept there will be minor noncompliance; that's why we audit
- Drawbacks?
 - Not taking advantage of history
 - Not showing commitment to improvement / cost savings
 - Leaving organization open to NOVs

Option 3

- Diffuse Compliance Efforts Beyond Assessments / Environmental Office
 - Involve those being assessed in the process
 - Educate targeted facility personnel
 - Build compliance efforts into daily operations

Involve the Assessed in Assessments

- Provide audit checklists to facility personnel to conduct internals
 - Trade offs: The more direct regulatory information you deliver, the more expertise it takes to use it
- Provide common findings for self-check
 - Don't try to teach regulations / compliance techniques
 - Forewarn, forearm

Educate Targeted Personnel

"People need to be **reminded** more often than they need to be instructed" – Samuel Johnson

- We already provide reminders about: Solid waste recycling; cold degreaser usage; discharges to storm drains; sharps containers;
- We could be doing it for:
 - Flam cabinets, POL, used oil/rags
 - SAPs, Universal Waste containers
 - Sink drains

etc





Build Compliance into Daily Operations

- Make Programs Living Documents
 - Distributed Spill Plans
 - Shop-Specific HazMat / SAP Inventories
 - Inspection Checklists for USTs, Storage Areas
- Broad Categories of Benefits
 - Keeps information visible, active, updated
 - Does thinking for people: subconscious habit forming
 - Makes it easier to assess compliance

What Is Your Agency Doing To . . .?

- Foster internal assessments?
- Involve non-Env. Office staff?
- Externalize 'lessons learned'?
- Provide 'living' programs?

Send All Your Great Ideas To:

Peter M. Heinricher peter.m.heinricher@usace.army.mil