



DEVELOPING/MAINTAINING AN ENVIRONMENTAL PROGRAM IN A CONTINGENCY OPERATION

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Agenda

- Background
- Plan/Policies
- Tools
- Afghan Program Components

Background

- **Afghanistan Deployment**
 - Planning began in June 08
 - Significant Challenges
- **Policies**
 - Working off draft SOP
 - USFOR-A
 - CENTCOM Reg 200-2
- **Personnel = 1**
- **Waste**
 - Solid Waste
 - Wastewater
 - Medical Waste
 - Hazardous Waste
- **P2**
 - 80% of HW stream was used oil/antifreeze/batteries
 - No technology to reduce and reuse these waste streams



Plan

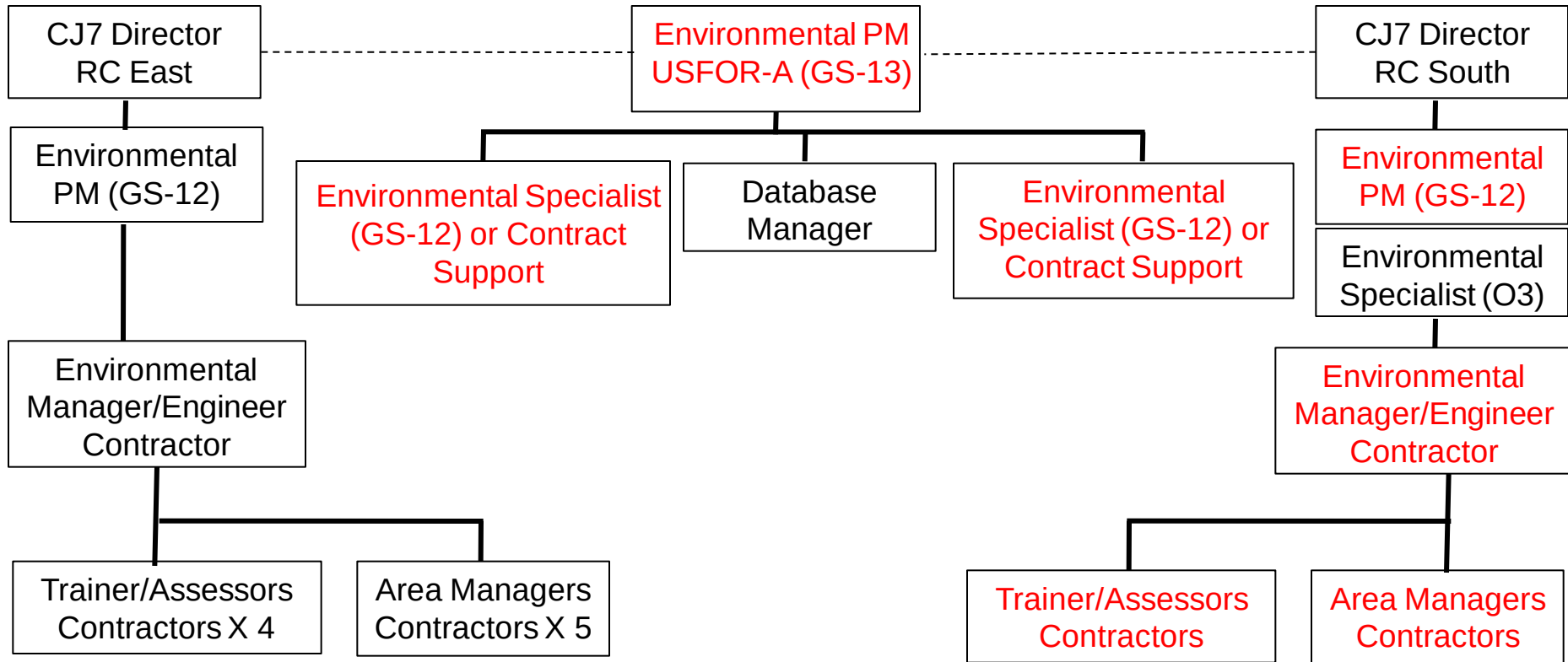
- **Assess what's there**
 - Staff
 - Equipment
 - Management Tools
- **Determine priorities/objectives**
 - Prioritize Bases
 - Staff
 - Policy/SOP
 - Solid Waste
 - Wastewater
 - P2 Initiatives
- **Develop controls/management tools**
 - Tracking
 - Database
 - Theater Provided Equipment Property Book

Afghanistan Program Components

- **Policy/SOP**
- **Staffing**
- **Controls/Management Tools**
- **TPE**
- **Solid Waste**
- **Hazardous Waste (to include Medical Waste)**
- **Wastewater**
- **Database**
- **Pollution Prevention**

Staffing

Sep 09



Current Staff



Additional Staff Recommended

Solid Waste

Sep 09

Accomplished:

- Power Surety TF looking at waste to energy add-ons for incinerators
- 1 SW incinerator operational 36 mobile, 30 small, 3 Munson; all funded
- 18 MILCON projects submitted/designed for larger FOBs

Considerations:

- Camp Configuration
- Camp Location
- Capacity (population)
- Fuel (delivery and use)
- Deployable, simple, and scalable



Hazardous/Medical Waste

Sep 09

Accomplished:

- DRMO manages contracts to move waste twice/ year through Pakistan to Europe
- Petroleum contaminate soil \$740 per 55 gallon drum
- 80% of the waste stream is used oil, lead-acid batteries, and antifreeze
- Med Incinerators sufficient at this time

Considerations:

- Land Farm (requires real estate)
- Recycling (requires market)
- Reuse (used oil as fuel)



Wastewater

Sep 09

Accomplished:

- Most sites have inadequate treatment systems
 - UXO/Mines limit usable land in AFG
 - Use local companies to truck sewage off site –fate of material unknown
- JARB Packets complete for 8 package plants

Considerations:

- Contract language
- Know where the waste will go and how it is treated
- Inspect sites
- Deployable, simple, scalable wastewater systems



Pollution Prevention

Sep 09

Accomplished:

- Oil Cat – 25 in theater
- Antifreeze Recyclers – 17 in theater
- Electric cars – 4 used for test

Considerations:

- Land farming for enduring camps or portable desorption units for thermal treatment; requires land/planning
 - Pollution prevention programs work well and save money
 - Antifreeze recycling, fuel/oil blending, battery recovery systems are simple solutions



Database

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Accomplished:

- Database has been completed and stored on the CJTF SIPR site; working with AKO-S to hang database there
- All reports regarding environmental issues, training records, and environmental contacts are submitted to the database manager
- Started tracking burn pit locations(open and closed)

Considerations:

- Simple system
- ISIP is a good idea, but needs to be faster
- Report “up” often to maintain data (back up)
- Conduct detailed turn over

Summary

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Accomplished:

- **Environmental SOPs/guidance documents/regulations**
- **Staffing needs met in RC East**
- **Training program; developed and transmitted to FORSCOM.**
- **69 solid waste incinerators funded and contract awarded**
- **14 medical waste incinerators; 5 operational; 9 need installed**
- **18 MILCON Projects for waste management complexes**
- **Pollution prevention continues to be pushed**
- **Electric Vehicle proof of concept approved**
- **Eight wastewater package plants**
- **Database complete**

Summary

Way Ahead:

- **Environmental staff needed for every deployment; need to determine what “right” looks like**
- **Implement training program; require environmental officers be identified/assigned at all camps and trained prior to deployment**
- **Look at the possibility of HAZMARTS to reduce the amount of hazardous wastes generated; look at other P2 processes and equipment**
- **Wastewater requirements need to be identified early with the mindset that expansion will occur; deployable, simple, and scalable systems**
- **Consider electric vehicles as normal practice for on-base use during all deployments**

Questions