



Air National Guard: Excess Material Optimization

Presentation by:
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Project Outline

Air National Guard: 110th Airlift Wing

Change in mission objectives and operation

- Previously operated and maintained military aircraft
- Shift in base operation, infrastructure, and equipment

Excess materials to be transferred

- Focus on re-use and recycling of materials
- Efforts a continuation of the qualified recycling program



Project Objectives

- Identify and catalogue all materials
- Identify and pursue outlets for material
 - Re-use
 - Recycle
- Track progress and re-evaluate efforts

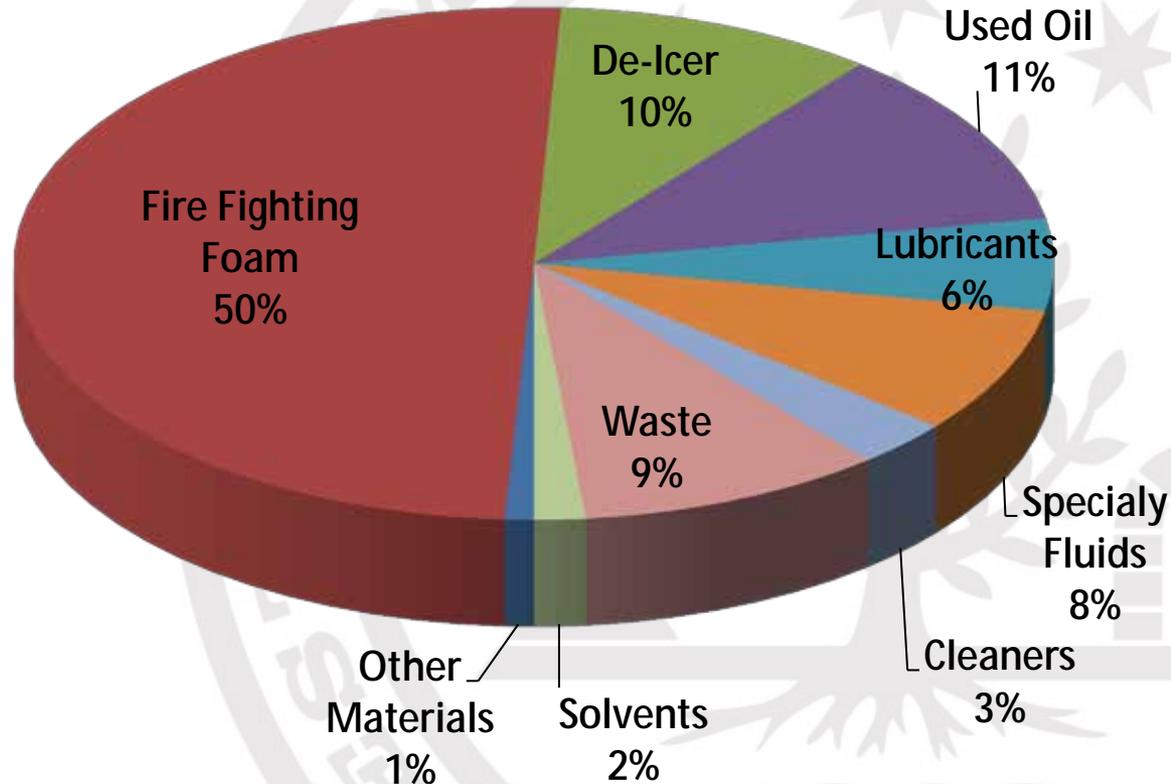
Project Metrics

Total material diverted off base

- Weight/volume
- Material outcome
 - Re-use
 - Recycle
 - Waste to Heat
 - Landfill
- Cost savings

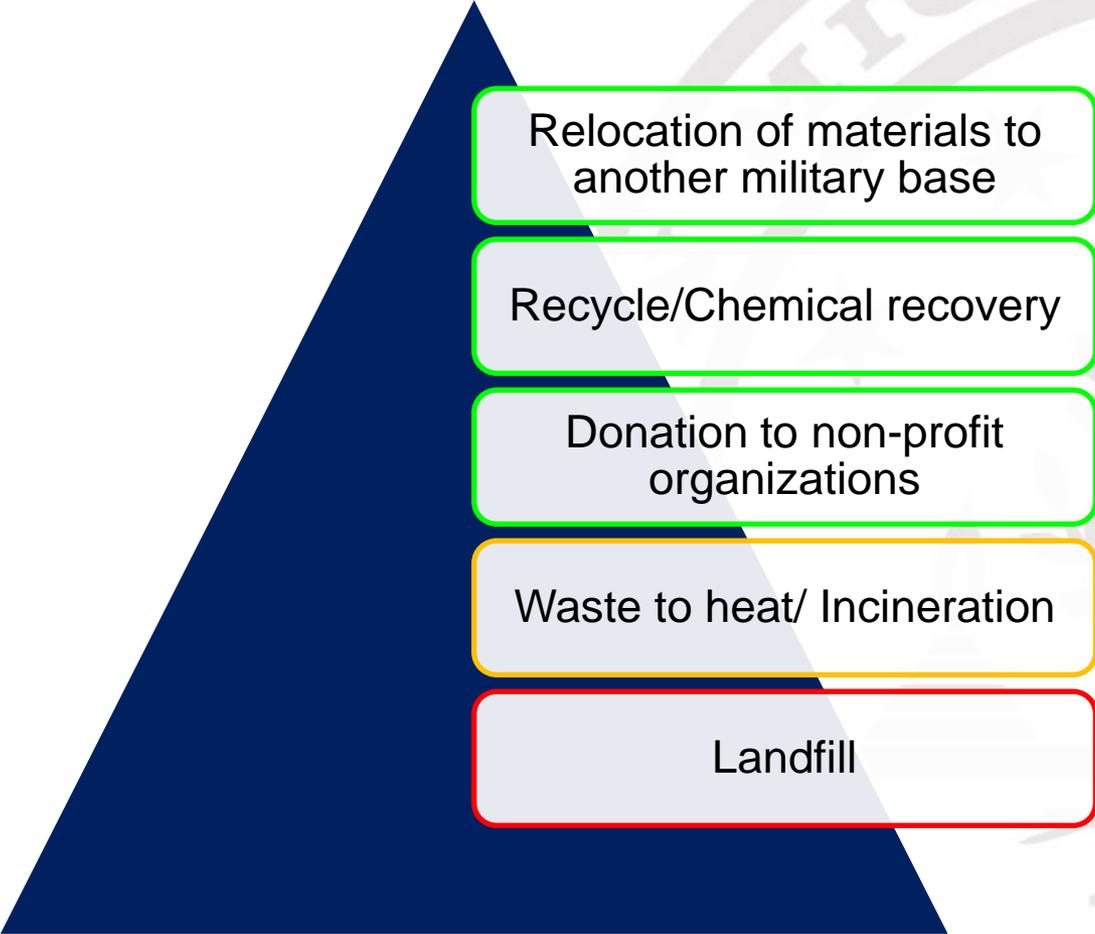
Material Statistics

- Total weight of 18.7 tons
- Variable shelf life conditions



Excess Material Summary	
Total Weight (tons)	18.69
Total Volume (gal)	4,841
Total Number of Items	189

Material Outlet Options



Relocation of materials to
another military base

Recycle/Chemical recovery

Donation to non-profit
organizations

Waste to heat/ Incineration

Landfill

Relocation Within Military

- Relatively small costs
 - Transportation
 - Handling
- Saves on material cost
- Material characteristics
 - Within shelf life or extendable
 - Quantity and value

Identified material:

- Fire fighting foam
 - Two receiving bases
 - 11,869 lbs
 - \$30,000+ value

Potential Material

- Cleaners
- Specialty chemicals

Recycling

Glycol- Main component in antifreeze products

- Main component in Aircraft De-icer Fluid
- Several companies that recycle glycol products
- Once recovered
 - Re-used
 - Transformed into other products

De-icer fluid to be recycled

- 3,672 lbs
- No cost to Air National Guard



Donation of Materials

Several non-profit organizations identified

- Educational institutions
 - Instructional/classroom use
 - Supplies
 - Various types of materials, lubricants, cleaners, etc.
- Local fire departments
 - Fire fighting foam
- Government agencies
 - Supplies
 - Specialty chemicals

Waste to Heat



Several waste to heat processes

- Cement kilns
- Incineration
- Alternative fuel boilers

Potential material

- Solvents
- Oils



Summary of Diverted Material

Future Opportunities

- Additional transfer of material within the military
- Donation of remaining fire foam to local fire departments
- Donation of various materials to local educational institutions

Diverted Material Summary			
Item	Amount (lbs)	Outlet	Percent of Total
Fire Fighting Foam	11,869	Transfer to military base	32%
De-icer	3,652	Recycle-EQ	10%
Specialty Chemicals	240	Donation	0.7%
Used Oil	4,150	Contracted Disposal	11%
Total	19,911		54%



Questions?

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