

Warner Robins Air Logistics Center

Investigation of Strategic Material Recovery Options



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Background/Context



Warner Robins Air Logistics Center

- Strategic Material Recovery/Reuse Program (SMRRP)
 - Pilot program established at OC-ALC
 - Prompted by shortages of specialty metals used in aircraft engines
 - Primarily titanium (Ti) and rhenium (Re)
 - Partnership between OC-ALC and original engine manufacturers
 - Condemned jet engine components are disassembled
 - Parts are melted down to original alloy materials
 - Alloy is reconfigured into new jet engine components
 - Benefits include:
 - Improved supply of material
 - Reduced manufacturing lead times
 - Reduced dependence on foreign sources of material
 - Price discounts on future component purchases
 - Acquisition cost savings estimated at >\$2 million annually
 - Goal: Expand program across the Air Force to the other Centers (WR-ALC; OO-ALC)



Problem Statement



Warner Robins Air Logistics Center

- Identify material availability issues
 - Actual and anticipated material shortages
 - Strategic materials
 - Nonstrategic materials
- Can our metals waste stream eliminate or lessen your material shortfalls?
- Are there sufficient supply and financial paybacks to warrant an ALC-Industry agreement?



Proposed Solution



Warner Robins Air Logistics Center

- Identify your material availability issues
 - Alloys, products, quantities
- Provide list of shortfall materials and supply requirements
- Propose use of Air Force metal waste that will improve your material availability and provide a benefit to the Air Force (e.g. - reduced manufacturing lead times; price discounts to Air Force on future component purchases)