

# Metal Finishing Workshop

## Breakout Meeting: Structural (Load Bearing) Components



Environmental Security  
Technology Certification  
Program



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# Remaining Needs

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- LCC on alternatives
- Develop maintenance protocol for alternates
- Consensus on test methods (HE, fatigue, etc.)
  - Round robin test series (Steve Gaydos)

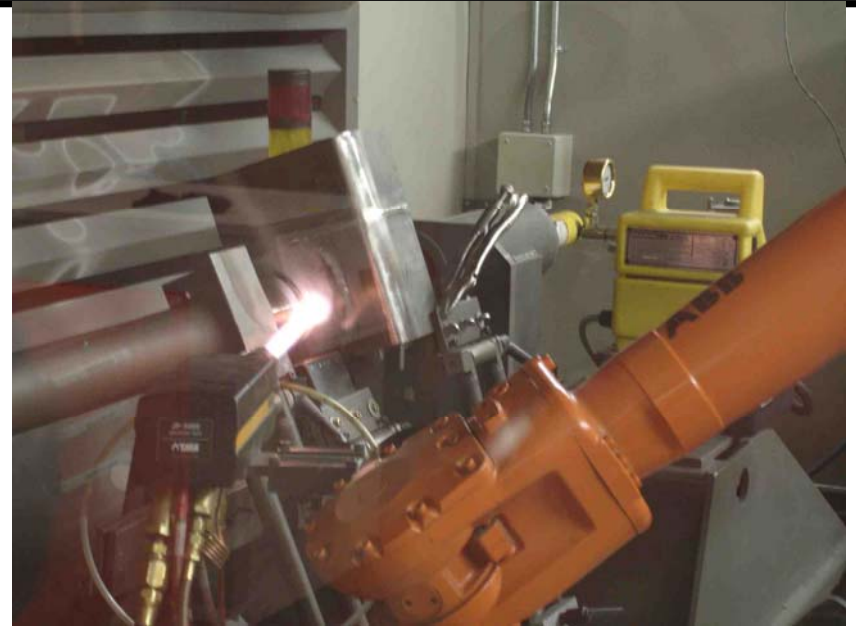
# Drivers and Barriers

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- Positive incentive to introduce environmental improvements
- Workers resistance to process changes (fear-of-displacement)
- Production requirements take precedence over environmental benefits
- PEL is main driver of Cr<sup>+6</sup> replacement

# Adoption of Alternatives

- HVOF
- IVD
- Sputtering
- New Acq. vs. MRO



# Requirements

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- Holding alternatives to a higher standard than existing coating/technology
- Consensus on Test Methods (HE, fatigue, etc.)
- Development of non-chromated primer usable without conversion coating
- Development of pre-treatment non chromated wash primer usable without conversion coating

# Current Usage of Cd, Cr, Ni, Cr<sup>+6</sup> Based Processes

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- DoD and Industry still using Cd, Cr, Ni, Cr<sup>+6</sup> Based Processes
- DoD currently actively converting processes where practical
- Used on Army ground vehicles
- Landing Gear Leading Industry in conversion

# USAF Depot Team Building



# DoD HVOF Challenge

