

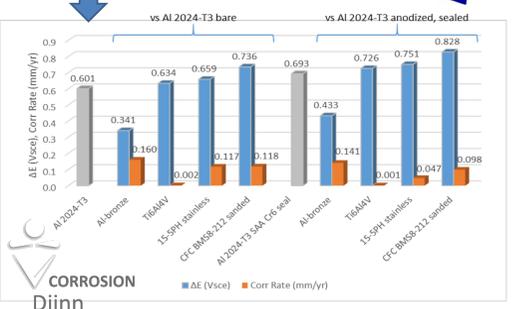
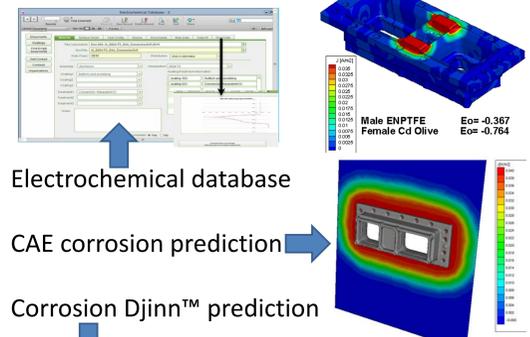
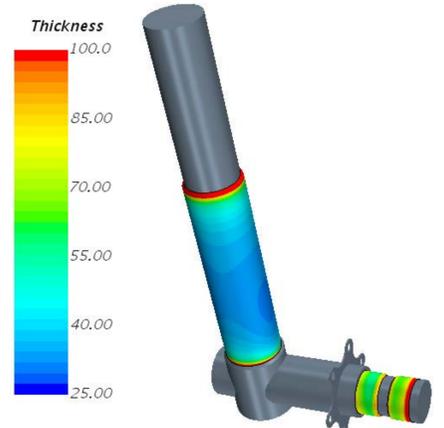
Electrochemical Analysis (Solutions)

Electrochemical Analysis (Coatings)

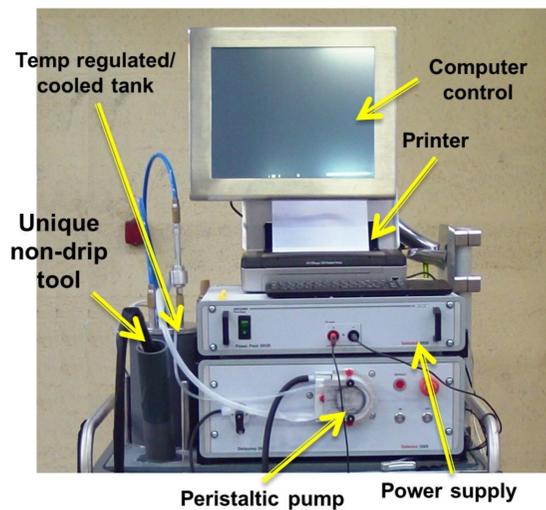
Process Optimization (Electrochemistry + CFD)

Electrochemical Database

Galvanic Corrosion Prediction, Modeling, Simulation



Equipment Improvement, SETI



Computer-controlled non-drip Dalistick brush plating/anodizing. Original design of Dalistick plating head took >1 year to perfect. With Plating Simulation + CFD we should be able to design new tools in days or even hours. The project will produce a toolset to allow depots to design new plating tools without needing CAE.

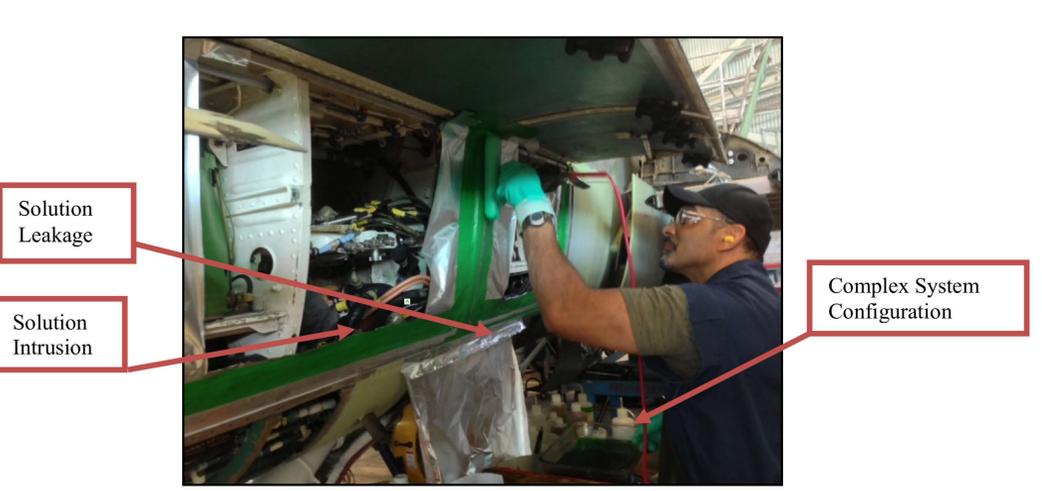
Process Optimization, Performance Tests

Validation, qualification
Design of Experiment testing for stripping, touch-up, recoating.



- Existing: Cd, Ni flash
- Improve: SnZn
- New: SAA, ZnNi, Ni build

Depot Hardware Demo and Integration



Transfer to FRCSE. Depot personnel to test and demo on components and aircraft

- Americanize manuals, user screens, measurement units. Create Standard Operating Procedures (docs and control programs), update Structural Repair Manual. Training, Tech Transition
- FRCSE ZnNi program
- USAF Dalistick dem/val
- Hill AFB ZnNi production
- Norfolk Dalistick ZnNi on generators