

AIRCRAFT OEM

## Commercial Aviation

Project  
Management



Mechanical  
Engineering



Quality  
Assurance



## DETERMINE CAUSE OF CENTER WING BOX PAINT PEELING ISSUES DURING FAY SEAL APPLICATION

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### APPROACH

- Gather information and perform root cause analysis to determine the cause of paint peeling issues during fay seal application when using a foam roller
- Conduct site visits and interviews
- Perform material testing and analysis
- Lead drilling operation analysis
- Perform tape test procedure evaluation
- Conduct comparative analysis of painting sources
- Lead integrator differences investigation
- Develop and implement solutions
- Monitor quality control
- Maintain documentation and reporting

### RESULTS

- Provided conformity evidence of the paint process
- Performed an abusive drill test and could not replicate the paint peel
- Provided all paint work orders for every shipment

### KEY TOOLS & TECHNOLOGIES

- Data collection tools: surveys, questionnaires, interviews
- Material testing equipment: adhesion testers, spectrometers, chemical analyzers
- Analytical tools: fishbone diagram, 5 whys, Pareto analysis
- Statistical process control (SPC)
- Non-destructive testing (NDT) equipment: ultrasonic testing, radiography, NDT techniques
- Knowledge sharing and training platforms: learning management systems

**ALTEN TECHNOLOGY**