

SPACECRAFT AVIONICS

Aerospace

Project
Management



Quality
Assurance



BOARD- AND BOX-LEVEL PRODUCTION TESTING FOR A MICROSATELLITE

APPROACH

- Provide on-site test engineers for electrical test activities in development and production
- Interface with electrical test leads and team leaders to identify scope and tasks
- Support and interface with subject matter experts on issue resolution topics, including test script/procedure issues and product issues

RESULTS

- Ensured initial test procedures were ready for production prior to anticipated production ramp-up
- Maintained production schedule and successfully cleared a backlog of tasks during peak production
- Completed multiple electrical test department design tasks, including designing the test equipment verification process, creating test harness designs, implementing new test script requirements, performing test script update dry runs, tracking and logging infrastructure, and troubleshooting test design issues

KEY TOOLS & TECHNOLOGIES

- COSMOS telemetry packet interface
- Ruby test scripting
- Electrical ground support equipment: power supplies, loads, thermistor, computer package
- Ground support equipment: test harnesses, electrical communication interface assemblies
- ARAS product and drawing management
- Pride: Procedure management
- TIPQA: NCMR processing
- Tera Term: Terminal Emulator program
- Cirris: Cable and harness testing platform

ALTEN TECHNOLOGY