

**JCAA/JG-PP LFS Project
Testing Status as of May 10, 2005**

Test	Testing Site & POC	Overall Pct. Completion	Anticipated Testing Completion Date	Comment
Vibration	Boeing Phantom Works (Tom Woodrow)	100%	Complete	- All "manufactured" and "rework" test vehicles have been tested - All test vehicles were inspected for broken signal wires. None were found. - All test vehicles were inspected for broken leads. Most QFP failures appear to be due to broken leads. Analysis/Report Status: Report Submitted
Thermal Shock	Boeing Phantom Works (Tom Woodrow)	100%	Complete	Thermal Shock Testing has been completed Analysis/Report Status: Report Submitted
Thermal Cycling: -20°C to 80°C	Boeing Phantom Works (Tom Woodrow)	35%	Nov. 2005	Testing began on September 28, 2004 - About 3700 thermal cycles have been completed. Failures are being generated. - It is expected that another 63000 thermal cycles will be required to obtain sufficient failures This test is expected to run through calendar year 2005. Testing needs to be done to failure otherwise data is worthless for those that want to do modeling
Thermal Cycling: -55°C to +125°C	Rockwell Collins (Dave Hillman)	75%	Jun. 2005	Testing started the week of September 13 th 2004 The testing has completed 3000 cycles 5000 cycles should be completed in July 05
Combined Environments	Raytheon (Jeff Bradford)	95%	Complete	- 550 cycles have been completed for the manufactured test vehicles. - 550 cycles have been completed for the rework test vehicles. - The data results are under analysis. Analysis/Report Status: Report is being Drafted
Combined Environments Failure Analysis	Raytheon (Jeff Bradford)	0%	----	Funding is currently being secured for the failure analysis of solder joints that expired during the Combined Environments Testing
Mechanical Shock	ACI (Lee Whiteman)	85%	Complete	Testing began the week of March 14, 2005 Testing has been completed Analysis/Report Status: In-progress
Salt Fog	ACI (Lee Whiteman)	100%	Complete	Testing completed The final report was submitted by ACI, comments are currently being addressed
Humidity	ACI (Lee Whiteman)	100%	Complete	Testing completed The final report was submitted by ACI, comments are currently being addressed
Surface Insulation Resistance	Boeing, Anaheim (John Kerr)	100%	Complete	Completed
Electrochemical Migration Resistance	Boeing, Anaheim (John Kerr)	100%	Complete	Completed

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Combined Environments CSP/Hybrid	Raytheon (Jeff Bradford)	25%	June 2005	Testing started on April 18, 2005 151 cycles were completed as of May 2, 2005