



## Meeting Minutes, AMS-02 Project Tag-up May 8, 2006

### **Attendees:**

Trent Martin (NASA/JSC), Mike Fohey (ESCG), Chris Tutt (ESCG), Leland Hill (ESCG), Craig Clark (ESCG), John Sanford (NASA/JSC), Bill Hungerford (MIT), John Heilig (ESCG), Paul Nemeth (ESCG), Tim Urban (ESCG), Art Nelson (ESCG)  
Via telecon: Mike Capell (MIT), Jim Nugent (SAIC), Christian Vettore (CGS), Johannes Van Es (NLR)

### **AGENDA:**

#### **Open Paper Management Tool**

04-051: Complete and Sign the AMS PIA – No change.

05-022: Cryosystem Component Testing – Magnet Systems Integration task to be discussed in Boston next week. Date rolled to 6/15/06.

05-042: Helium Venting Hazard Analysis – No change.

05-044: Burst Disk Vent Valves – Zero-thrust venting issue; still awaiting response from SCL.

05-048: LSS Vacuum Gages – CLOSED – Test of gauges in magnetic field was performed on 4/7/06; passed.

05-049: Supercritical Startup – Pressure-head issue was resolved; but now investigating if pressure sufficient for the isolation valve.

05-054: Leak Before Burst Analysis – Discussions with Manha and Ecord indicate they are amenable to Safety Factor release; however, they will require final design for tube sizing prior to any commitment.

05-069: Thermal Tubing Support Beam – Magnet Systems Integration task to be discussed in Boston next week. Date rolled to 6/15/06.

05-075: Using magnet at ESTEC – Still no response. Final design of stand has not been completed; but AMS is to be in horizontal configuration for thermal-vac test.

05-080: Pilot Valve Vacuum Vessel Installation – Magnet Systems Integration task to be discussed in Boston next week. Date rolled to 6/15/06.

05-096: Removal of Nominal Landing Requirements: Structural Verification Plan (SVP) will need to be updated to consider fatigue requirements.



05-097: G10 TTCS Brackets: CLOSED - G10 is not acceptable for any structural fasteners. G10 can be used with non-structural fasteners; but requires two independent means of containment not including preload. Non-structural defined as loss of fastener will release particle of less than 0.25 lbs.

05-098: Transportation Safety – CLOSED - Issues identified and actionees assigned. Remaining work is standard forward work.

AMS\_02-PDS-CDR-06: Thermal Optical Properties for the PDS – PDS Contract expected to be in place by June. Date rolled to 7/1/06.

AMS\_02-PDS-CDR-08: Capacitance requirement for PDS – PDS Contract expected to be in place by June. Date rolled to 7/1/06.

AMS\_02-PDS-CDR-09-2: Thermal Optical Properties for the PDS – PDS Contract expected to be in place by June. Date rolled to 7/1/06.

AMS\_02-Thermal\_CDR-15: Inconsistent NAS1351 Bolt Yield Strengths – CGS Thermal contract issue. Date rolled to 7/2/2006.

AMS\_02-Thermal\_CDR-17: Insert Test and its applicability to different size of insert - – CGS Thermal contract issue. Date rolled to 7/2/2006.

AMS\_02-TTCS\_PDR-03: Evaporator tail need a redesign – Meeting scheduled for 5/9; date rolled to 9/1/2006.

AMS\_02-TTCS\_PDR-05: Incorrect Figure Title – Date rolled to 10/1, one-month after TTCS\_PDR-03.

AMS\_02-TTCS\_PDR-06: Installation deformation release - Meeting scheduled for 5/9; date rolled to 9/1/2006.

AMS\_02-TTCS\_PDR-07: Visual Inspection of the weld and fracture analysis – P. Nemeth to pulse D. Rybicki.

AMS\_02-TTCS\_PDR-08: Leak Integrity Test still TBD – Procedure received from Johannes on 4/10/06. Procedure was sufficient to satisfy mission success requirement, but not safety requirements. Need to establish workmanship verifications, etc.

AMS\_02-TTCS\_PDR-09: TTCS Tube Routing – Date rolled to 9/1/2006.

AMS\_02-TTCS\_PDR-10: Negative Safety Margin – Johannes to pulse Corrado.

AMS\_02-TTCS\_PDR-11: Bolt and Insert Analysis – Nothing new.

AMS\_02-TTCS\_PDR-12: Finite Element Analysis approach and fastener analysis – Nothing new.



AMS\_02-TTCS\_PDR-20: Modes Missing – Nothing new.

**No Tag-up on Monday, April 17th, April 24, or May 1st. Next Tag-up is Monday, May 8th.**