



## Meeting Minutes, AMS-02 Project Tag-up April 10, 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)  
Via telecon: Mike Capell (MIT), Jim Nugent (SAIC), Bob Miley (USA), Marco Molina (CGS), Johannes Van Es (NLR)

### AGENDA:

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

04-051: Complete and Sign the AMS PIA – PIA was presented at PMIT and approved. It is now in NASA Configuration Management awaiting signatures scheduled within the next few weeks. Actionee changed to OZ/Joseph Esquivel.

04-120: Flight Safety Data Package – CLOSED - CR's were submitted to collaboration for review on 4/7/06.

05-022: Cryosystem Component Testing – On-hold pending resolution of the Magnet Systems Integration contract.

05-023: STA Gate Valve – CLOSED - This item is included in the STA contract with SCL.

05-024: Flight Unit Gate Valve – CLOSED - This item is included in the STA contract with SCL.

05-042: Helium Venting Hazard Analysis – Due date changed to 5/1/06.

05-043 Helium Venting Hazard Analysis – Due date changed to 6/1/06 to allow time after completion of 05-042.

05-044: Burst Disk Vent Valves – No update.

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 was measured to be less than 1 mbar – analysis is in work to determine if this is sufficient. Bearing life issue was resolved no concerns.

05-054: Leak Before Burst Analysis – Final proposal received from Bala, a meeting with B. Manha and G. Ecord is being scheduled to close.



05-060: ID Tolerances – CLOSED - Johannes submitted data to G. Ungar including tolerance information, tube thickness to be increased to cover all conditions.

05-067: TTCS Tube Relative Displacements – CLOSED – Reference e-mail from B. Sommer dated March 24.

05-068: Tracker Radiator Integration Jig – Due date changed to 8/1/06 to accommodate work load and need date.

05-069: Thermal Tubing Support Beam – On-hold pending resolution of the Magnet Systems Integration contract.

05-075: Using magnet at ESTEC – Response received on alloy of all items with exception of baseplate. No issue with other areas.

05-080: Pilot Valve Vacuum Vessel Installation – On-hold pending resolution of the Magnet Systems Integration contract.

05-096: Removal of Nominal Landing Requirements: **Chris Tutt to develop follow-up actions and define actionees.**

05-097: G10 TTCS Brackets: G10 is not acceptable for any structural fasteners. Discussions with NASA Materials are underway to determine if okay for non-structural usage. Non-structural defined as loss of fastener will release particle of less than 0.25 lbs.

05-098: Transportation Safety – A meeting is scheduled on 4/12/06 to identify concerns and establish actionees.

AMS\_02-PDS-CDR-06: Thermal Optical Properties for the PDS – On-hold pending resolution of ETH/CGS contract.

AMS\_02-PDS-CDR-08: Capacitance requirement for PDS – On-hold pending resolution of ETH/CGS contract.

AMS\_02-PDS-CDR-09-2: Thermal Optical Properties for the PDS – On-hold pending resolution of ETH/CGS contract.

AMS\_02-Thermal\_CDR-15: Inconsistent NAS1351 Bolt Yield Strengths – Due date changed to 4/30. CAST issue.

AMS\_02-Thermal\_CDR-17: Insert Test and its applicability to different size of insert – Due date changed to 4/30. CAST issue.

AMS\_02-Thermal\_CDR-57: TRDGB Heaters – CLOSED – Thermostats were added to the baseplate showing acceptable analytically.



AMS\_02-TTCS\_PDR-03: Evaporator tail need a redesign – Johannes is working to schedule a meeting at NIKHEF prior to April TIM with Bart and Antonio. New schedule to be established at the April TIM.

AMS\_02-TTCS\_PDR-05: Incorrect Figure Title – To be completed one-month after TTCS\_PDR-03.

AMS\_02-TTCS\_PDR-06: Installation deformation release – Johannes is working to schedule a meeting at NIKHEF prior to April TIM with Bart and Antonio. New schedule to be established at the April TIM.

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 – This is high priority work for Antonio and will be completed as soon as workload permits.

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

AMS\_02-TTCS\_PDR-11: Bolt and Insert Analysis – Johannes to pulse Xinmei Qi.

AMS\_02-TTCS\_PDR-12: Finite Element Analysis approach and fastener analysis - Johannes to pulse Xinmei Qi.

AMS\_02-TTCS\_PDR-19: TTCrate Location – CLOSED – Document received and reviewed.

AMS\_02-TTCS\_PDR-20: Modes Missing - Johannes to pulse Xinmei Qi.

AMS\_02-TTCS\_PDR-25: TTCS Heater Controls – CLOSED – The safety issues have been addressed. Detailed design in work; but intent has been met.

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