WORKING GROUP 2 REPORT

Beijing, China
25 May 2007

Convenor: Bill Raynor, USA
FALL MEETING REPORT
(significant issues for plenary)

- Paris, France, 26 – 28 October, 2004
- Continued development of WG2 Plan
  - New investigation into Liquid Rocket Tests
- PNWI under investigation for possible other SDO (SC13/CCSDS)
  - Space Avionics Connectors
    (WG2 and WG1 initiatives were not successful in this area)
- PNWI needing attention
  - Test Centre Certification (also Test Centre Quality in WG5?)
## The Big Picture for WG2

### Interfaces, Integration and Test

#### Projecting Standards Structure

<table>
<thead>
<tr>
<th>Stage</th>
<th>Payload</th>
<th>Spacecraft Bus</th>
<th>Launch Vehicle</th>
<th>Range</th>
<th>Ground Segment</th>
<th>Operations Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Pre-launch I&amp;T</td>
<td>ISO 14303, 17401, 15863, CD19933, WD26869, CD 17566 CD 24917</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2) LV/Range Ops</td>
<td></td>
<td>ISO 15864</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Launch Event</td>
<td></td>
<td></td>
<td>ISO CD15862</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) Separation</td>
<td>✓</td>
<td>✓</td>
<td>ISO CD15862</td>
<td>✓</td>
<td>ISO CD15862</td>
<td></td>
</tr>
<tr>
<td>(5) Orbit Insertion</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(6) Initialization</td>
<td>CCSDS/ SC13, CD 17566, WD 10784</td>
<td></td>
<td>CCSDS/ SC13</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(7) Commissioning</td>
<td>CCSDS/ SC13, CD 17566, WD 10784</td>
<td></td>
<td>CCSDS/ SC13</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>CCSDS/ SC13</td>
<td></td>
<td>CCSDS/ SC13</td>
<td></td>
<td>ISO 17399</td>
<td></td>
</tr>
</tbody>
</table>
PARTICIPATION

- Members – total experts: 21
  - France — 1
  - Germany – 1
  - Italy -- 1
  - Canada -- 1
  - Japan — 3
  - Russia — 4
  - UK — 1
  - US — 2
  - Brasil – 1
  - China -- 6
DECISIONS

(projects moving to next stages, new projects proposed, etc.)

- PNWIs resulting in Form 4 submittal –
  - Liquid rocket engines - The measured parameters at firing bench and flight test
  - Subsystems/units to spacecraft interface control document 14N484 (vote results pending)

- NWI to WD
  - Early Operations Parts 1 – 3: Spacecraft Initialization and Commissioning -- 10784

- WD to CD
  - Small Auxiliary Spacecraft- Launch Vehicle - ICD 26869

- CD to DIS
  - General Test Documentation – 17566 (voting open)

- DIS to Publication
  - Format for spacecraft launch environmental test report – 19933 (Proof in June)
PROPOSED RESOLUTIONS FOR PLENARY

- None
PROBLEMS
(information to the plenary)

- CD15862: critical situation. The CD/V period ends on 18 July 2007. The deadline for DIS registration is 20 July 2007. A specific request must be made to the Technical Management board to avoid the project to be cancelled. A draft of the appropriate form was prepared for the SC14 secretary and reviewed with the project leader. Form to be submitted to TMB this week for project continuation.

- CD24917: critical situation. The CD/C period ends on 20 June 2007. The deadline for DIS registration is 20 July 2007. A specific request must be made to the Technical Management board to avoid the project to be cancelled. A draft of the appropriate form was prepared for the SC14 secretary and reviewed with the project leader. Form to be submitted to TMB this week for project continuation.
PROPOSED SOLUTIONS

- SC14 Secretariat submit forms for continuation to TMB
- SC14 follow up with continuation resolutions if necessary
NEXT MEETING

- BSI, London
  - 16 - 18 October, 2007
Whereas CD 24917 is an important contribution in the area of space standards SC14 resolves that CD 24917: Space Systems – General Test Requirements for Launch Vehicles to be continued and not cancelled because the project both technically and important; and furthermore is fully supported by WG2. Additionally WG2 has completed the required TMB form for action (HG/TMBVF012 2007) to revise the due dates for CD 24917 for submission by SC14 to the TMB.

Whereas CD 15862 is an important contribution in the area of space standards SC14 resolves that CD 15862 : Space Systems – Launch Vehicle – Spacecraft Flight Environment Requirements for Telemetry Data Processing to be continued and not cancelled because the project both technically and important; and furthermore is fully supported by WG2. Additionally WG2 has completed the required TMB form for action (HG/TMB VF012 2007) to revise the due dates for CD 15862 for submission by SC14 to the TMB.