Working Group Outbrief

Test Like You Fly Philosophy
Applied to Ground Segment Testing

Session 10A
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Session Goals

1) What aspects of the TLYF process apply to Ground Segment testing?
2) Commonality of Ground Segment development with Space Segment command & control test equipment development
Presenters/Panelists

- Julie White, Aerospace, Moderator
- Trudy Bergen, Aerospace, Co-Chair
- Ben Jai, JPL
- Robin O’Brien, JPL
- Walter Mitnick, APL
- Richard Todd, Octant Technology
- Alice Shaw, LM IS&GS
- Sam Majumdar, Aerospace
- Odette Khedr, NGMS
Key Points

- **TLYF applies to people and processes, not just hardware & software**
- **Test like you operate (communication, RF, etc.)**
- **Engineering models, simulators and test beds are key enablers to accomplishing TLYF**
  - Need to do adequate validation of these tools
  - Essential for fault & contingency testing
- **TLYF is a culture, not just a test approach**
Conclusions

- *Most TLYF principles apply to ground segment testing*
- *Using ground control hardware and especially software & databases for bench testing and space vehicle I&T is both feasible and economical*
- *Further questions emerged in the session – they will be pursued via the TLYF COP*