Space Link Services Area

Resolution SLS-R-2012-06-001


5 June 2012    v1.0

SLS-R-2012-06-001 (401.0-26GHz)

Gian Paolo Calzolari
SLS Area Director

Gilles Moury
SLS Deputy Area Director
The Space Link services Area,
CONSIDERING that the RF & Modulation WG

- has investigated the needs for 26 GHz modulations and discussed the status of the most relevant recommendations contained in the 401.0 Blue Book

- produced a revised version of recommendation 2.3.2 representing the consensus of the WG on “Use of suppressed carrier modulations for medium rate telemetry space-to-Earth links”

SLS-R-2012-06-001 (401.0-26GHz)
SLS R-2012-06-001 (401.0-26GHz)

SLS Resolutions to CESG

✧ produced a revised version of recommendation 2.4.12A representing the consensus of the WG on “Maximum permissible phase and amplitude imbalances for suppressed carrier (BPSK/(O)QPSK/GMSK) RF Modulators for space-to-Earth links, Category A”

✧ produced a new recommendation 2.4.XXA representing the consensus of the WG on “Modulation methods for high symbol rate transmissions, Space Research 25.5-27.0 GHz Band, space-to-Earth, Category A”

✧ reached consensus in retiring recommendation 3.3.3A on “Preferred Modulation formats for suppressed carrier systems, Category A”
SLS Resolutions to CESG

- **RESOLVES** to request CESG/CMC to approve for CCSDS 401.0-B “Radio Frequency and Modulation Systems—Part 1: Earth Stations and Spacecraft” the submission to Agency Review of:
  - Pink Sheets for Recommendation 2.3.2
  - Pink Sheets for Recommendation 2.4.12A
  - Red Sheets for Recommendation 2.4.XXA
  - Pink Sheets for Recommendation 3.3.3A (suppress)

- **RECOMMENDS** that the CESG approve this resolution, and finally
- **REQUESTS** that a CESG poll be conducted to accomplish this.

SLS-R-2012-06-001 (401.0-26GHz)