



Recommendation SFCG 32-3

**PROTECTION CRITERIA FOR GSO SPACE RESEARCH
SATELLITES IN THE 7190-7235 MHz BAND**

The SFCG,

CONSIDERING

- a) that the currently applicable protection criteria for interference into GSO SRS satellite uplinks in the 7190-7235 MHz band are contained in Recommendation ITU-R SA.609;
- b) that interference from typical Lagrange and lunar mission uplinks as well as other near Earth space missions into GSO SRS satellite receivers may exceed these protection criteria by a large amount;
- c) that interference from out-of-band emissions by SRS deep-space earth stations operating in the adjacent 7145-7190 MHz band into GSO SRS satellite receivers may exceed these protection criteria;
- d) that for GSO SRS missions a minimum margin of 3 dB in the Signal to Noise ratio may be necessary for the protection of the Earth to space links,

RECOGNIZING

that the GSO SRS satellite uplinks typically have large link margins, and so could withstand significantly larger levels of interference than allowed by SA.609;

RECOMMENDS

- 1) that GSO SRS system uplinks in the 7190-7235 MHz band do not claim protection from lunar, Lagrange and other near Earth mission uplinks in this band;
- 2) that GSO SRS missions operating in the 7190-7235 MHz band do not claim protection from out-of-band emissions originating from uplinks by SRS deep-space earth stations in the adjacent 7145-7190 MHz band.