**Mandatorily normative statement in chapter 3 (revised version):**

In any case, radiated volontary emissions (in allocated channels) and unvolontary emissions (from corresponding spurious) made by RF wireless transmitting devices of all types in the lunar or martian environment, which would  cause frequency overlaps with the lunar and martian communication orbit to surface bands of ~~(1)~~ 2483.5-2500 MHz [33], [40]~~; or (2)~~**~~a~~**~~3.5 MHz upper guard band between 2500 MHz and 2503.5 MHz; or (3)  as well as the 3.5 MHz lower guard band between 2480 MHz and 2483.5 MHz [33], [40],~~ shall not be permitted.

The related SFCG  lower guard band [33], [40] protecting this orbit to surface band shall not be overlaped. The Adopter should also **define an upper guard band to protect this orbit to surface band.**

**Nota Bene: CNES could accept the statement to be non normative with 3.5 MHz guard bands, if NASA and CSA write an E-mail to CNES saying that NASA and CSA will not overlap the 2480-2503.5 MHz lunar and martian SFCG band with lunar wireless free space links, and will not promote such overlaping by third operators. Then, we would be more confident the CCSDS 883 red book would not create an important threat for Radio Astronomy on the Shielded Zone of the Moon, if this normative statement is not mentioned.**

[40] *Frequency assignment guidelines for communications in the Mars region*. Space Frequency Coordination Group. Recommendation SFCG 22-1R3. Reference [40] will become SFCG 22-1R4 when this SFCG Recommendation is revised.

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**A requirement shall be added to section 3 to state that:**

"**use of any frequency band**" shall be verified liaising with RFM WG before selecting any of non-SFCG wireless frequency band with a NOTE remarking that **"This recommended standard does not provide normative guidance in the frequency values of the permited bands to be used  in addition to applicable SFCG bands by the space systems using the wireless terrestrial standards covered in this book"**

**Nota Bene (Revised version); thank you to have agreed the principle of this requirement just above**

**Nota Bene:** **“in addition to applicable SFCG bands”** makes (for CNES) possible the normative statement above related to **the 2483.5-2500 MHz band, which is the only SFCG band potentially overlapped by one of the numerous “non-SFCG compatible” wireless standards of the red book**, moreover by **severely threatening Radio Astronomy on the Shielded Zone of the Moon**. **Due to this specific uniqueness, in due to the mentioned threat, the said normative statement above in yellow related to the SFCG 2483.5-2500 MHz band is mandatory for CNES**.

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[Reject]:

The added requirement shall be reflected in the PICS Annex by a relevant "Frequency Usage Verification Procedure" to be added to the existing Network Connectivity Verification Procedure, Network Performance Verification Procedure, QoS Verification Procedure.

Rationale: The CCSDS Yellow Book is required for interoperability conformance verifications.  A "SLS-RFM or SFCG" Frequency Verification Procedure is out of scope for CCDSD-883-0-R-0; SOIS-WIR firmly believes this procedure is in purview of SLS-RFM.

* **the non inclusion of a “Frequency Usage Verification Procedure” in PICS is acceptable for CNES, in order to find a consensus. Each requirement in Section 3 would however have to be included in the PICS table in the Annex.**

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**Our proposal bellow already made 2 times before remains unanswered; what do you think about it please ?**

We propose to update the last NOTE of paragraph 3.1.1 as follows:

The frequency band choices for lunar **or martian** surface wireless transmissions could be impacted by ITU REC [38] and by the Radio Regulation [39] applicable in the Shielded Zone of the Moon (SZM).  **Adopters** must also ensure compatibility with ITU Radio Regulations,  and **Space Agencies** must ensure clearance for an SFCG Waiver when the chosen frequency band is not recommended in [33] **or in [40]**.

**Other very minor remarks :**

“The SOIS-WIR counter proposal is as follows:” 🡺 CNES is part of SOIS-WIR; the “counter proposal” is from **a part of** SOIS-WIR

“Per CESG instructions, no normative statements regarding spectrum bands, channels or guard bands are to be allowed” 🡺 CNES is part of CESG; this is therefore no instructions agreed by CESG.

**Major remark associated to the second very minor remark:**

Moreover, the **magenta Nota Bene** (and our previously given justifications) explain why the **yellow normative requirement** is possible and necessary; all is in place for a consensus.