## Comments on ECC Deliverable "Draft revision of ERC Decision (99)06 - annexes 1 and 2"

## 1 Sources

Administration/Company/Entity: CRAF Name of contributor: Waleed Madkour

## 2 General Comments

[Please provide here any general comments which do not contain specific change proposals or which are not related to specific sections of the deliverable. Please leave blank if not applicable]

## **3** Proposals related to the ECC Deliverables

**Note:** Contributors shall use the following table to provide comments. It is also encouraged to provide as an annex a separate document showing the proposals with track changes. Minor editorial corrections do not need to be recorded in the table. The table is used in the resolution meeting to record how each proposal is addressed.

The following information must be included.

- Comment number: Sequential numbering of comments in the format "XX/1", "XX/2" etc, where "XX" is the organisation name or a suitable abbreviation. Administrations may use CEPT country codes
- Section number/Clause: Relevant section number of the deliverable, use numbers where applicable e.g. "1.1", "A1.4", "List of abbreviations"
- Paragraph/Figure/Table: Paragraph number in section, e.g. "1", "2".. or Figure/Table, e.g. "Figure 1", "Table 2"
- **Type of comment**: "General", "Technical" or "Editorial" depending on the nature of the proposed changes
- Comment: Background/justification for proposed changes
- Proposed change: Proposed modifications shown in revision marks where possible. For more complicated changes (e.g. proposed deletion/addition of whole sections) or changes to tables it is sufficient to refer to the annex including the changes

Comment number	Section number Clause	Paragraph Figure Table	<b>Type of comment</b> (General, Technical or Editorial)	Comment	I	Proposed change
CRAF/1	Annex 2	Table : Operational Constraints - ARGOS	Technical,Editorial	The inter-services studies for ARGOS systems have been completed by SE40, approved and endorsed by WGSE under certain operational constraints. During FM44#60 meeting, the row "Technique to avoid causing interferences from the downlink emissions" has been removed from the table of operational constraints in Annex 2. Removing the row totally from the table shall impact the outcome of studies and discussions as agreed at SE40. The design of built-in filters to limit spurious emissions to certain levels is considered a technique to avoid causing interference to the radio astronomy service. Its worth highlighting that the data loss from ARGOS downlink system was estimated in the range of 1.44% (ECC report 322, Table 37). More details on the technical constraints of ARGOS can be found in the S-PCS report 322 sections 2.3.3 and 2.3.4 The technical operational constraints should be retained as received from WGSE, the responsible working group for specifying technical operational constraints. In case the text received from WGSE was not clear enough, an alternative text is proposed to accurately capture the agreed outcomes.		TEM NAME : ARGOS   TIONAL CONSTRAINTS   399.9-400.05 MHz   400.15-401 MHz   Uplink CDMA and FDMA Downlink: FDMA   Uplink: spread spectrum (120 kHz) and narrow-band (PSK, 4 kHz)   Downlink: narrow band (PSK, 4 kHz)   7.2 dBW   100%   ARGOS downlink transmitters design to filter spurious emissions to a maximum level of -80 dBm in any 1 kHz bandwidth within the band 406.1-410 MHz shall ensure compliance with the 2% data loss criteria for RAS observations in accordance with Recommendations ITU- R RA.769-2 and ITU-R RA.1513.   Maximum beacon e.i.r.p. level shall not exceed 5 dBW in the 399.9-400.05 MHz band.   The MES shall transmit only when the satellite is visible.   1 second 30s   0.3% (over 15 min), typically 0.01%
XX/2						

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