**Radio Interface Specification (RIS) implementation of ECC/DEC/(16)01 on the harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free carriage and use of obstacle detection radars for rotorcraft use**

Foreword

The ECC has decided that RIS implementations of ECC deliverables should be uploaded to the ECO website in order to help administrations fill out the EFIS database.

This RIS implementation is limited to the harmonised conditions for the harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free carriage and use of obstacle detection radars for rotorcraft use.

**RIG II Template for the harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free carriage and use of obstacle detection radars for rotorcraft use**

**Radio Interface Notification by an administration**

**Normative part**

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| **Nr** | **Parameter** | **Description** | **Comments** |
| **1** | **Radiocommunication Service** | Not applicable | ITU‐R RR Article number 4.4  Obstacle detection radars for rotorcraft use operate on a non-harmful interference and non-protected basis. |
| **2** | **Application** | TTT | For the use of obstacle detection radars for rotorcraft use |
| **3** | **Frequency band** | 76-77 GHz | See ECC/DEC/(16)01 |
| **4** | **Channelling** | Not specified |  |
| **5** | **Modulation /  Occupied bandwidth** | Not specified |  |
| **6** | **Direction /  Separation** | Not specified |  |
| **7** | **Transmit power / Power density** | 30 dBm peak e.i.r.p. and 3 dBm/MHz average power spectral density. |  |
| **8** | **Channel access and occupation rules** | ≤ 56 %/s duty cycle | Administrations can define on a national level the size of the exclusion zone to protect the Radioastronomy Service as appropriate. See ECC Decision (16)01 Annex 2 for exclusion zone implementation. In case of life-saving missions, the obstacle detection radar devices may be used without protecting the radio astronomy sites (RAS), only on decision by the pilot on case by case basis and by activation from the pilot pursuant Article 4.9 of the ITU Radio Regulations. |
| **9** | **Authorisation regime** | General authorisation | No registration and/or notification is required (commonly known as “licence exempt”). |
| **10** | **Additional essential requirements according to Art. 3.3 of R&TTE Directive** | None |  |
| **11** | **Frequency planning assumptions** | Obstacle detection radars for rotorcraft use |  |

**Informative Part**

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| **Nr** | **Parameter** | **Description** | **Comments** |
| **12** | **Planned changes** | --- | The applications is proposed for future inclusion in an amendment of Commission Decision 2006/771/EC on the harmonisation of the radio spectrum for use by SRDs |
| **13** | **Reference** | ECC Decision (16)01  ECC Report 222  ETSI EN 303 360 |  |
| **14** | **Notification number** |  |  |
| **15** | **Remarks** | *Abbreviations*  *TTT Transport and Traffic Telematics*  *e.i.r.p. equivalent isotropically radiated power* |  |