**Public Consultation**

**TRA Regulations – Spectrum Fees**

**Commencement Date: 18 August 2019**

**Response Date: 12 September 2019**

**Preface and Notes to Potential Respondents**

In keeping with its values of transparency and sector engagement, the TRA wishes to review and study the impact of regulatory instruments issued by it to keep abreast of developments to better involve all stakeholders. The TRA strives to meet the needs of the sector and seeks the views and feedback from the sector for the revision of the regulations. The purpose of this document is to invite comments from stakeholders regarding the TRA’s intention to revise TRA Spectrum Fees Regulations V3.0 issued on 7th January 2016 in accordance with the Telecom Law.

Stakeholders who wish to respond to this consultation should do so in writing to the TRA on or before the response date stated on the front cover of this document. The comments which are contained in any response to this consultation should be clearly identified with respect to the specific question in this consultation to which such comments refer. Any comments which are of a general nature and not in response to a particular question should be clearly identified as such.

Responses to this consultation should be made in writing and provided electronically in MS Word format and Adobe PDF format, on or before the response date stated on the front cover of this document. Responses must be accompanied by the full contacts details (contact name, e-mail address and phone and fax numbers) of the respondent to:

**spectrumconsultation@tra.gov.ae**;

Executive Director Spectrum Affairs

Telecommunications Regulatory Authority

P.O. Box 26662

Abu Dhabi, UAE

Respondents are advised that it will be the general intention of the TRA to publish in full the responses received to this consultation. Additionally, the TRA may, at its discretion generate and publish a “Summary of Responses” document at the conclusion of this consultation. Accordingly, the Summary of Responses may include references to and citations (in whole or in part) of comments which have been received. The TRA recognizes that certain responses may include commercially sensitive and confidential information which the respondent may not wish to be published. In the event that a response contains confidential information, it shall be the responsibility of the respondent to clearly mark any information which is considered to be of a confidential nature.

In any event the respondent shall be required to submit two versions of its response to the TRA as follows:

* A full copy of its response in MS Word format with any confidential information clearly marked. The TRA will not publish the Word document and will only use it for internal purposes.
* A publishable copy of its response in Adobe PDF format. The TRA will publish the PDF version in its entirety. Thus, the respondent should take care to redact any commercially sensitive and confidential information in the PDF version of its response.

By participating in this consultation and by providing a PDF version of its response the respondent expressly authorizes the TRA to publish the submitted PDF version of its response in full.

It should be noted that none of the ideas expressed or comments made in this consultation document will necessarily result in formal decisions by the TRA and nothing contained herein shall limit or otherwise restrict the TRA’s powers to regulate the telecommunications sector at any time.

If any Person or entity seeks to clarify or discuss any part of these Regulations can request for a meeting in writing again to the above E-mail and then TRA will set the meetings in the period from **02 September 2019 to 03 September 2019** so that formal comments can still be received by **15.00 noon on 12 September 2019.**

**Consultation Schedule**

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Due Date** | **Notes** |
| Closing Date for Initial Responses | 12 September 2019 | All responses to this consultation should be properly received by no later than 15.00 noon on the closing date. Responses are to be submitted in electronic format as set out in this consultation document. |
| Dates of Meetings with interested parties upon request | 02-03 September 2019 | to clarify or discuss any part of these Regulations |
| Latest date for requests for extension to the due date for Initial Responses. | 05 September 2019 | Stakeholders wishing to secure an extension to the Closing Date for Initial Responses may apply in writing to the TRA for such an extension. The request should set out the rationale for the request. Requests for extension should be submitted by e-mail to the e-mail address shown above. The TRA will not consider any requests for extension which the TRA receives after 15.00 noon on the date stated here. The TRA will consider requests to extend the Closing Date for Initial Responses and will take into account such factors as: the number of such requests received; the rationale for such requests; and the effect on the overall time-scale of the particular project in question. In the event that the TRA extends the Closing Date for Initial Responses, the TRA will publish the revised closing date on its website.  |

**Table of Contents**

**1 Introduction ...................................................................................................... 5**

**2 Matters for Discussion and Consultation ...................................................... 6-21**

**3 General comments ........................................................................................... 22**

1. **Introduction**
	1. The TRA intends to revise its Spectrum Fees Regulations V3.0 (henceforth referred as “the current spectrum regulation”) issued on 7th January 2016. Spectrum is a valuable public resource that is critical for the provision of the mobile, satellite, broadcasting and many other types of services.
	2. The review has been initiated to align the provisions of the regulations with the international benchmarks in spectrum fees and to update the different factors used in the fees formulas.
	3. The draft revised spectrum fees regulations are planned to be approved by the TRA Board by Q4 of 2019 and planned to be implemented from 1st January 2021.
	4. The TRA seeks to consider inputs of all industry stakeholders regarding these proposed changes.
	5. The TRA strives to follow the principles of transparency, fairness and openness in dealings with customers, partners and other stakeholders and, therefore considers that it is important to take into account the views of those who have a legitimate interest in the outcomes of the TRA’s regulation.
2. **Matters for Discussion and Consultation**

**Article 1: Purpose**

No change

Question 1: Do you agree with the TRA’s proposal? In your view, are there any other changes required to Article 1?

**Article 2: Definitions**

Modification is proposed to include a new definition of “Modification” as follows:

**“Modification”** means a change to any parameters on the authorization unless such changes are specified in the fee article notes as requiring a new authorization.

Question 2: Do you agree with the TRA’s proposal? In your view, are there any other changes required to Article 2?

**Article 3: Schedule of Frequency Spectrum Fees**

Below, are the proposals for each Sub-Article in the Schedule of Frequency Spectrum Fees, and additions.

3.1 Application fee

No change in Application fee amount. Modification proposed to Note 1 (Spectrum Fees Regulations V3.0) as follows:

* Application fees are applicable for new, renew, modification or temporary authorization
* If any specific user is exempted from Spectrum Fees by the Government of the UAE, then “Frequency Spectrum Fees = Frequency Fees + Application Fees = 0”.
* A change of ownership of any authorisation requires a new application.
* Modification is generally limited to the addition or removal of frequencies form an authorisation. The TRA may determine at its discretion what changes are considered a modification.
* For all “Fees Type” having ZERO fees, the “Application Fees” is also ZERO, EXCEPT class authorizations where Application Fees is applicable. The following table specifies when Application Fees is ZERO.

|  |  |
| --- | --- |
| S. No | Type where Application fees = 0 (As Frequency Fees = 0) |
| 2 | Authorization cancellation |
| **17** | Marine buoys |
| **19** | VSAT if part of Licensee network |
| **21** | ESV when part of Ship License and Aircraft Earth Station (AES) when part of Aircraft License |
| **22** | Television Receive Only (TVRO) Antenna size up to 2.4 m |
| **29** | Free Space Optics (FSO) and Laser links |
| **30** | Emergency and Distress frequencies |
| **31** | Interference complaints processing and monitoring Fees  |
| **33** | Foreign Embassies, Consulates and Diplomatic Missions (official use)  |
| **35** | Public Protection and Disaster Relief (PPDR) when Frequency Fees = 0 |
| **XX** | any specific user exempted from Spectrum Fees by the Government of the UAE |

Question 3.1: Do you agree with the TRA’s recommendation to keep application fees at their current level of 100 AED? If you disagree, please provide your reasons.

3.2 Authorization cancellation

No change to Article and Note 2 (Spectrum Fees Regulations V3.0)

Question 3.2: Do you agree with the TRA’s proposal?

3.3 Temporary Authorization

No change in fee amount formula. Modification proposed to Note 3 (Spectrum Fees Regulations V3.0) as follows:

Temporary Authorization is defined as an Authorization issued by the TRA for a period up to 90 days. Frequency fees for a Temporary Authorization shall be calculated based on pro-rata for a period up to 90 days with a minimum fees of AED 100. Temporary Authorization cannot be renewed or modified. At the expiry, the Applicant may apply as fresh or new Temporary Authorization (Application Fees applicable) and it will be evaluated by the TRA.

Question 3.3: Do you agree with the TRA’s proposal?

3.4 Public Land Mobile (Cellular)

No change in fee formula. In terms of the parameters of the formula, we are considering two options.

* Option 1: To align the fees with international benchmarks;
* Option 2: To increase the fees by up to 5% from their current level.

These options would entail the following modification to Note 4 (Spectrum Fees Regulations V3.0):

* P = Price per MHz, set at 1.15 Million AED per year is proposed to be revised to align with international benchmark value of $P\_{1}=$1.67 Million AED per year (Option 1). Alternatively, the TRA may consider to increase the P value by only 5%, at $P\_{2}$= 1.21 Million AED (Option 2). The benchmarking data is available upon request to UAE IMT spectrum holders.
* No change is proposed to BW factor.
* FF = Frequency range factor is proposed to be modified to cover the entire frequency spectrum for any future identification of frequency ranges for IMT, as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency Range | Lower Edge | Upper Edge | Freq Factor(Option 1) | Freq Factor(Option 2) |
|  | - | <470 MHz  | 1 | 1 |
| 700 MHz | >=470 MHz  | <791 MHz  | 1 | 1 |
| 800 MHz | >=791 MHz  | <862 MHz  | 1 | 1 |
| 900 MHz | >=862 MHz  | <1000 MHz  | 1 | 1 |
| 1 - 1.9 GHz | >=1000 MHz | <1900 MHz | 0.5 | 0.7 |
| 1.9 - 2.3 GHz | >=1900 MHz | <2300 MHz | 0.4 | 0.6 |
| 2.3 - 2.4 GHz | >=2300 MHz | <2400 MHz | 0.2 | 0.15 |
| 2.4 - 2.7 GHz | >=2400 MHz  | <2700 MHz  | 0.15 | 0.2 |
| 2.7 - 6 GHz | >=2700 MHz | <6000 MHz  | 0.1 | 0.1 |
| 6 - 15.4 GHz | >=6000 MHz | <15400 MHz  | 0.05 | 0.05 |
| 15.4 - 30 GHz | >=15400 MHz | <30000 MHz  | 0.003 | 0.015 |
| Above 30 GHz | >=30000 MHz | - | 0.01 | 0.01 |

* CF = Coverage factor is proposed to be modified as follows:

|  |  |
| --- | --- |
| Coverage Area | CF |
| Railways | 100 |
| Circular Area 1 km radius | 500 |
| Circular Area 3 km radius | 1000 |
| Emirate Wide | 2000 |
| All UAE | 4000 |

Coverage Factor (CF) of Railways is applicable to one specific user ‘Etihad Railways’ for the GSM-R spectrum (873-880/918-925 MHz) authorization only out of several authorizations. CF of “Emirate wide” refers to a situation where coverage is extended to the whole of one Emirate. In certain cases there may be spill over into small portions of neighbouring Emirates but will still be considered as Emirate Wide. When an Authorization is requested for covering an entire Emirate without specifying a fixed location, then the CF will also be considered as Emirate wide. Any area wider than Circular Area with 3 km radius will also be treated as Emirate wide.

Question 3.4: Please specify whether you prefer Option 1 or Option 2?

* 1. Private Mobile Radio, Paging, and Trunking

No change in fee formula. Modification is proposed to Note 5 (Spectrum Fees Regulations V3.0) as follows

* BW =the total bandwidth of the authorization (in kHz).
* WE =Wireless Equipment (including handhelds) will be included in the calculation.
* ∑ (WE x 500 x PF) =Total sum of (each Wireless Equipment multiplied by 500 multiplied by Power Factor).
* PF= Power Factor depending on the authorized effective radiated power (ERP) for the equipment, as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Description** | **Less than 1 Watt\*** | **1 Watt and less than or equal to 5 Watts** | **Above 5 Watts and less than or equal to 10 Watts** | **Above 10 Watts and less than or equal to 20 Watts** | **Above 20 Watts** |
| **PF** | 0.2 | 1 | 2 | 3 | 4 |

\*PF determined for Taxis, or Camel/ Horse Racing, or Networks with Vehicle-Mounted equipment only, and Trackside is 0.2

* CF=Coverage Factor depending on the geographical area as determined by the TRA as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Area** | **Area within Emirate** | **Emirate wide** | **All UAE** |
| **CF** | 500 | 2,000 | 10,000 |

The total bandwidth of the authorization means the combined bandwidth of all the channels to be authorized.

Example 1: PMR network has 3 simplex channels of 12.5 kHz bandwidth per channel, then BW=37.5 kHz.

Example 2: PMR network has 4 duplex channels (4 uplink of 6.25kHz and 4 downlink of 6.25kHz) then BW= 8\*6.25kHz = 50 kHz.

The Power Factor (PF) is calculated from the table using the Effected Radiated power in Watts. A PF of 0.2 shall be applied for the following specific user categories and specific usages: trackside PMR network of Rail Agency of RTA, taxi company using a PMR network, PMR network for ‘heritage and recreation activities’ (e.g. camel racing or horse racing at a race track or training area) and PMR authorization for a vehicle only network.

The vehicle only network may include vehicle mounted or handheld devices for the vehicle but there may only be one wireless equipment device per vehicle.

When calculating the coverage factor CF, **“Emirate wide”** means when coverage is extended to the whole of one Emirate. In certain cases there may be spill over into small portions of neighbouring Emirates but this will still be considered as Emirate Wide. When an Authorization is requested for covering an entire Emirate without specifying a fixed location, then the CF will also be considered as Emirate wide. The “Area within Emirate” factor shall only be applied when the maximum distance from the transmitter to where the service can be reliably provided equals or is less than the distance in km specified for the specific service in km. When defined as ‘open’ the CF shall be set as 500:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Service | Subservice | Coverage distance  |
| 1 | Fixed | Point to Multipoint | 20 Km |
| 2 | PMR | Private Mobile Radio | 10 km |
| 3 | Camel Race/ Hunting | 100Km  |
| 4 | shore to ship | مفتوح/open |
| 5 | Ground to air | مفتوح/open |
| 6 | Trackside | مفتوح/open |
| 7 | Public Cellular Mobile | Public Land Mobile (Cellular) | 3 Km |
| 8 | Cellular Mobile (Railway) | مفتوح/open |
| 9 | PAMR | Public Trunking | NA |
| 10 | PMSE | Video Link (Wireless Camera) | 1Km  |

A change to the location of the authorization exceeding 10km shall require a new authorization.

A change to the location of the authorisation of less than or equal to 10km shall require a modification to the authorization.

Addition or removal of frequencies shall require a modification to the authorisation.

A change to a vehicle registration or type shall require a modification to the authorization.

Question 3.5: Do you agree with the TRA’s proposal?

3.6 Public Access Mobile Radio (PAMR)

No change in fee formula. Modification proposed to Note 6 (Spectrum Fees Regulations V3.0) as follows:

* BW = the total bandwidth of the authorization (in MHz).
* CF=Coverage Factor depending on the geographical area as determined by the TRA as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Area** | **Area within Emirate** | **Emirate wide** | **All UAE** |
| **CF** | 500 | 2,000 | 4,000 |

This fee article applies to the frequency range 380-400 MHz. The three users of the PAMR band are either in the User category set to ‘zero’ or PPDR. All other Authorizations of these three users e.g. point to point links, IMT, PMR, etc. are to be calculated under Note 16. There is a User Category of ‘PPDR’. PPDR fees is defined in Note 16 which is applicable to all types of Authorizations and not only PAMR.

Question 3.6: Do you agree with the TRA’s proposal?

3.7 Fixed (point to point) links above 30 MHz

No change in fee formula. Modification proposed to Note 7 (Spectrum Fees Regulations V3.0) as follows:

FF=Frequency range factor as follows:

|  |  |
| --- | --- |
| **Frequency Range**  | **FF**  |
| 0.03 GHz - 3 GHz  | 5  |
| >3 GHz – 14GHz  | 3  |
| >14 GHz – 48 GHz  | 2  |
|  48 GHz - 66 GHz  | 0.75  |
| Above 66 GHz | 1 |  |

BW=Bandwidth factor as follows:

|  |  |
| --- | --- |
|  **Bandwidth**  | **BW** **Factor**  |
| 7 MHz or less  | 1  |
| >7 MHz -28 MHz  | 2  |
| >28 MHz – 56 MHz  | 3  |
| More than 56 MHz  | 4  |

A change to the location of the authorization exceeding 20km shall require a new authorization.

A change to the location of the authorisation of less than or equal to 20km shall require a modification to the authorization.

Addition or removal of frequencies or equipment to the authorization shall require a modification to the authorization.

Question 3.7: Do you agree with the TRA’s proposal to increase the 48 to 66GHz frequency band FF factor to 0.75?

3.8 HF Fixed (point to point) links below 30 MHz

No change to Article and Note 8 (Spectrum Fees Regulations V3.0)

Question 3.8: Do you agree with the TRA’s proposal?

3.9 FWA, BWA and Fixed (point-to-multipoint) links including (WLL and Mesh)

No change in fee formula. Modification proposed to Note 9 (Spectrum Fees Regulations V3.0) as follows:

* BW =Total Bandwidth used (uplink and downlink) in MHz. For 2.4, 5 and 60 GHz bands the BW factor will be fixed at 100 regardless of the actual bandwidth used. This is because the majority of these networks use FHSS or Direct Spread Spectrum (DSS).For these three bands the frequency factor will be set at FF=5 regardless of the actual frequency used.
* CF=Coverage Factor depending on the geographical area as determined by the TRA as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Area** | **Area within Emirate or Trackside** | **Emirate wide** | **All UAE** |
| **CF** | 100 | 1,000 | 4,000 |

The trackside category of railways and urban railways (Metro, Tram) having outdoor Wi-Fi along the trackside will have the CF=100.

Etisalat or EITC can request for one nationwide authorization for 2.4/5/60 GHz (combining outdoor WiFi, P-P and PMP). Other entities can only request for emirate wide or smaller areas. The Fixed Radio Service Regulations applies to all P-P and PMP links.

* FF= Frequency Factor for frequencies below 2 GHz shall be FF =500. For other ranges the FF value shall be determined as follows:

|  |  |
| --- | --- |
| **Frequency Range** | **Frequency Factor (FF)** |
| 2 GHz - 6 GHz | 5 |
| 6 GHz - 11 GHz | 4 |
| 11 GHz - 14 GHz | 3 |
| 14 GHz - 40 GHz | 2 |
| > 40 GHz  | 1 |

Question 3.9: Do you agree with the TRA’s proposal?

3.10 GMPCS

Fee article to be removed

Question 3.10: Do you agree with the TRA’s proposal to remove the GMPCS fee article?

3.11 Amateur Radio

No change in fee formula. Frequency Spectrum Fees are set at 100 (AED).

Fees are to be paid to the Authority, on the issue, modification or renewal of an Authorization. Fees shall be non-refundable and collected in advance for applying registering authorizing, issuing or renewing Authorization on a yearly basis.

Modification proposed to add the following note:

A change to the call sign defined in the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization

A change to change the address, location of use or amateur class status of the authorization shall require a modification to the authorization

Question 3.11: Do you agree with the TRA’s proposal?

3.12 Aircraft/Helicopter

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 2000 (AED).

Modification proposed to add the following note:

A change to the registration or call sign of the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization.

Question 3.12: Do you agree with the TRA’s proposal?

3.13 Gliders/Balloons

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 500 (AED).

Question 3.13: Do you agree with the TRA’s proposal?

3.14 Fishing Boat

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 100 (AED).

Modification proposed to add the following note:

A change to the registration, call sign, MMSI or type of boat defined in the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization

A change to change the ship name or class of ship defined in the authorization shall require a modification to the authorization

Question 3.14: Do you agree with the TRA’s proposal?

3.15 Pleasure Boat

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 500 (AED).

Modification proposed to add the following note:

A change to the registration, call sign, MMSI or type of boat defined in the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization.

A change to change the ship name or class of ship defined in the authorization shall require a modification to the authorization.

Question 3.15: Do you agree with the TRA’s proposal?

3.16 Ships and Rigs

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 1000 (AED).

Modification proposed to add the following note:

A change to the registration, call sign, MMSI or type of boat defined in the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization.

A change to change the ship name or class of ship defined in the authorization shall require a modification to the authorization.

Question 3.16: Do you agree with the TRA’s proposal?

3.17 Marine Buoys

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.17: Do you agree with the TRA’s proposal?

3.18 Earth Station (including Feeder link)

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 25000 (AED).

Modification proposed to add the following note

This authorization category includes feeder links and is required for any Earth Station either receive only or transmit only or transmit and receive.

Question 3.18: Do you agree with the TRA’s proposal?

3.19 Very Small Aperture Antenna (VSAT)

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Fee set at 5000 (AED)

Modification proposed to remove text from fee table into a note. New note would read:

Authorization is required for any VSAT used for a private telecommunications network

Frequency Spectrum Fees are set at 0 (AED) if the VSAT is part of a Public Telecommunications network of a Licensee)

Question 3.19: Do you agree with the TRA’s proposal?

3.20 Digital Satellite News Gathering (DSNG)

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 5000 (AED).

Question 3.20: Do you agree with the TRA’s proposal?

3.21 Earth Station on board Vessels (ESV) and Aircraft Earth Station (AES)

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.21: Do you agree with the TRA’s proposal?

3.22 Television Receive Only

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.22: Do you agree with the TRA’s proposal?

3.23 Radionavigation, Radiolocation, Radio Astronomy Station

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 500 (AED).

Modification proposed to add the following note:

A change to the location defined in the authorization shall require a new authorization.

A change to add or remove frequencies or equipment to the authorization shall require a modification to the authorization.

Question 3.23: Do you agree with the TRA’s proposal?

3.24 Terrestrial Sound and Television Broadcasting

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0).

Question 3.24: Do you agree with the TRA’s proposal?

3.25 HF Seasonal Sound Broadcasting

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 20,000 (AED, per transmitter).

Question 3.25: Do you agree with the TRA’s proposal?

3.26 Wireless Camera Links

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0).

Question 3.26: Do you agree with the TRA’s proposal?

3.27 Ultra Wide Band and Short Range Devices

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.27: Do you agree with the TRA’s proposal?

3.28 Low Power Devices

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0).

Question 3.28: Do you agree with the TRA’s proposal?

3.29 Free Space Optics (FSO) and Laser links

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.29: Do you agree with the TRA’s proposal?

3.30 Emergency and Distress frequencies

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Modification proposed to add the following note:

The following table defines which fee shall apply for different types of AIS use.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AIS Category | MMSI | Additional Frequency (PMR) | Use | Fees |
| On buoys(Virtual or physical) | with MMSI | - | Identification | 0 |
| without MMSI | - | Not allowed | - |
| On port (VTS or Port management or identification) | with MMSI | with additional frequency (PMR) | Identification + PMR  | PMR |
| without additional frequency (PMR) | Identification | 0 |
| without MMSI | with additional frequency (PMR) | Not allowed | - |
| without additional frequency (PMR) | Not allowed | - |
| On board vessel | with orwithout MMSI | - | Part of ship | Ship |
| AIS on craft associated with parent ship or survival crafts | With or without MMSI | - | SAR | 0 |
| AIS on survival aircraft in SAR | With or without MMSI | - | SAR | 0 |
| SARTs | With or without MMSI | - | SAR | 0 |

For AIS use that falls under the PMR fee category an example is: A 2 PMR simplex with AIS would be authorized as 2 simplex PMR frequencies.

Question 3.30: Do you agree with the TRA’s proposal?

3.31 Interference complaints processing and monitoring Fees

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 0 (AED).

Question 3.31: Do you agree with the TRA’s proposal?

3.32 Site Surveys

No change in fee formula from Article (3) (Spectrum Fees Regulations V3.0). Frequency Spectrum Fees are set at 2500 (AED) per day for each visit.

Question 3.32: Do you agree with the TRA’s proposal?

3.33 Foreign Embassies, Consulates and Diplomatic Missions (official use)

No change to Note 14 (Spectrum Fees Regulations V3.0). This applies on the condition reciprocal basis where it is available for the UAE Embassy, Consulate, and Mission in the country of origin.

Question 3.33: Do you agree with the TRA’s proposal?

3.34 Technology Trials

No change in fee formula.

Modification is proposed to Note 15 as follows.

The authorization can only be used for the purposes of demonstration of new technologies when any of the following apply:

a) Demonstration of new technologies at conferences, exhibitions or technology demonstration.

b) It has no commercial attributes and no commercial subscribers during trial.

c) The TRA has requested that the trial be undertaken to confirm aspects of a network, compatibility, interference analysis, technical study, to put UAE as the first in ICT, etc. In this case, there can be limited or selective commercial subscribers.

The authorization may not be applied to development and enhancement activity on existing networks including, but not limited to regular network updates, new software releases, antenna testing, carrier aggregation testing.

Question 3.34: Do you agree with the TRA’s proposal?

3.35 Public protection and Disaster Relief (PPDR)

No change is proposed to this article.

Question 3.35: Do you agree with the TRA’s proposal?

3.36 Satellite filing application

New fee article for submitting a satellite filing application. Details of the proposed new fee are as follows:

|  |  |  |
| --- | --- | --- |
| Fees Types | **Fees (AED)** | **Remarks** |
| Satellite filing application | 5,000 | Refer Note 3.36 |

**Note 3.36: Satellite filing application**

The satellite filing fee of AED 5000 shall apply at the point the TRA submit a fee notice relating to a co-ordination request to the ITU.

Question 3.36: Do you agree with the TRA’s proposal for a new satellite filing application fee, the fee level proposed and the guidance note?

3.37 Satellite notification application

New fee article for submitting a satellite co-ordination notification to the ITU. Details of the proposed new fee are as follows:

|  |  |  |
| --- | --- | --- |
| Fees Types | **Fees (AED)** | **Remarks** |
| Satellite notification application | 100,000 | Refer Note 3.37 |

**Note 3.37: Satellite notification application**

The satellite filing fee of AED 100,000 shall apply at the point the TRA submits a notification request to the ITU such that the operator can bring into use the orbital resource defined in the notification.

Applications operating in the earth exploration-satellite service, meteorological-satellite service, space research service and amateur satellite service (as defined in the ITU Radio regulations) will be charged a fee of AED 0.

Question 3.37: Do you agree with the TRA’s proposal for a new satellite notification application fee, the fee level proposed and the guidance note?

3.38 Space services

New fee article for space services spectrum use. Details of the proposed new fee are as follows:

|  |  |  |
| --- | --- | --- |
| Fees Types | **Fees (AED)** | **Remarks** |
| Space services spectrum fee | Fee = BW \* FF | Refer Note 3.39 |

**Note 3.38: Space services spectrum fee**

Every provider of satellite communications services shall pay a fee based on the frequencies they use.

The fee shall be proportional to the bandwidth used and the frequency band used.

* BW = total bandwidth in MHz (uplink and down link combined)
* FF = Frequency factor

|  |  |
| --- | --- |
| Frequency range | FF |
| 0 to 1 GHz | 2000 |
| 1 to 2 GHz | 2000 |
| 2 to 4 GHz | 1000 |
| 4 to 8 GHz | 200 |
| 8 to 16 GHz | 50 |
| Over 16 GHz | 10 |

Applications operating in the Earth exploration-satellite service, meteorological-satellite service, space research service and amateur satellite service will apply an FF of zero.

In the event that a band overlaps frequency ranges, the lowest frequency range shall be used to calculate the FF value that applies.

**3. General comments**

Further to the specific matters discussed, and questions asked above, please identify any additional issues which you feel are relevant for consideration in this consultation. Please provide specific support and/or explanation of your viewpoints as well as recommendations regarding how such issues might be resolved.