
Public Consultation

TRA Regulations – Amateur Radio

Commencement Date: 13 August 2020

Response Date: 17 September 2020

Telecommunications Regulatory Authority (TRA)
P O Box 26662, Abu Dhabi, United Arab Emirates (UAE)
www.tra.gov.ae

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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 Amateur Radio Regulations 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.

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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 06 to 07 September 2020 so that formal comments can still be received by 15.00 noon on 17 September 2020.

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Consultation Schedule

Milestone	Due Date	Notes
Closing Date for Initial Responses	17 September 2020	All responses to this consultation should be properly received by no later than <u>15.00 noon</u> on the closing date. Responses are to be submitted in electronic format as set out in this consultation document.
Latest date for requests for extension to the due date for Initial Responses.	10 September 2020	<p>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.</p> <p>Requests for extension should be submitted by e-mail to the e-mail address shown above.</p> <p>The TRA will not consider any requests for extension which the TRA receives after <u>15.00 noon</u> on the date stated here.</p> <p>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.</p>

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1. Introduction

- 1.1 The TRA intend to revise its Regulations on Amateur Radio. As such, all readers are informed that this document outlines the draft version of these regulations in order to give this document context and to enable the TRA to ask pertinent questions. All text in this consultation document should be read and interpreted as text and not as recording decisions of the TRA.
- 1.2 The TRA notes that there were recent updates in frequency usage, and the results of World Radiocommunications Conference 2019 (WRC-19) on the issue of improvement in an allocation to the amateur service regarding the frequency band 50–54 MHz in Region 1. In addition, to the updates required in classes of amateur authorizations.
- 1.3 As such, the TRA seeks to consider inputs of all industry stakeholders regarding these changes, which are increasingly relevant and valuable in the TRA's exercise of its duties and legal mandates.
- 1.4 Additionally, 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.
- 1.5 In the ensuing text, significant changes are marked as follows:
 - Additions are highlighted in yellow
 - Deletions are struck-through and highlighted in grey

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2. Matters for Discussion and Consultation

Article (1)

Scope of Document

- 1.1 These regulations are issued in accordance with the provisions of the UAE Federal Law by Decree No 3 of 2003 (Telecom Law) as amended and its Executive Order.
- 1.2 ~~This document comprises~~ These regulations comprise regulatory provisions and technical conditions regulations for the authorization and operation of Amateur Radio. It These Regulations shall be read in conjunction with the following documents regulatory instruments issued by the TRA and available from the on TRA's website at www.tra.gov.ae:
 - 2.2.1 Spectrum Allocation and Assignment Regulations
 - 2.2.2 Frequency Spectrum Fees Regulations
 - 2.2.3 Interference Management Regulations
 - 2.2.4 National Frequency Plan and including National Table of Frequency Allocation
 - 2.2.5 Guidelines of Coordination of Satellite Networks.

Question 1: Do you have any comments concerning the Scope of the Document?

Article (2)

Definitions

- 2.1 The terms, words and phrases used in these Regulations shall have the same meaning as is ascribed to them in the Telecom Law and its Executive Order as amended (Federal Law by Decree No. 3 of 2003 as amended its Executive Order) unless these Regulations expressly provide otherwise for, or the context in which those terms, words and phrases are used in these Regulations indicates otherwise. The following terms and words shall have the meanings ascribed to them below:
 - 2.1.1 “Amateur” means a Person interested in radio technique for solely personal reasons and without a pecuniary or commercial interest duly authorized to operate a Fixed or Mobile Amateur Station by the Authority under these Regulations.

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- 2.1.2 **“Amateur Service”** means a radiocommunication service used by an Amateur for the purpose of self-training, communication with others or out of technical interest.
- 2.1.3 **“Amateur Satellite Service”** means a radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.
- 2.1.4 **“Amateur Station”** includes the transmitters and receivers and accessories used for Amateur Radio.
- 2.1.5 **“Amateur Authorization”** means the Frequency Spectrum Authorization.
- 2.1.6 **“Applicant”** means any Person who has applied for a License or an Authorization in accordance with the Telecom Law or other Regulatory Instruments issued by the Authority.
- 2.1.7 **“Application”** means the request for issuance of a License or an Authorization, received at the Authority on prescribed forms as per the procedure in vogue.
- 2.1.8 **“Authorization”** or **“Frequency Spectrum Authorization”** means a valid frequency spectrum authorization issued by the TRA and permits the use of radio frequency subject to terms and conditions as stipulated by the TRA.
- 2.1.9 **“Authority (TRA)”** means the General Authority for Regulating the Telecommunication Sector known as Telecommunications Regulatory Authority (TRA) established pursuant to the provisions of Article 6 of Federal Law by Decree No. 3 of 2003.
- 2.1.10 **“Authorized User”** means a Person that has been granted an Authorization by the Authority.
- 2.1.11 **“Coordinated Universal Time (UTC)”** means the time standard defined by Recommendation ITU-R TF.460.
- 2.1.12 **“Fixed Amateur Station”** means an Amateur Station operated at a fixed location.
- 2.1.13 **“GCC”** means Gulf Cooperation Council.
- 2.1.14 **“ITU”** means the International Telecommunication Union, a leading United Nations agency for information and communication technologies.
- 2.1.15 **“Mobile Amateur Station”** means a portably operated or handheld Amateur Station.

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2.1.16 **“Peak Envelope Power (PEP)”** means the average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions.

2.1.17 **“Person”** will include ‘juridical entities’ as well as ‘natural persons’.

2.1.18 **“Q-Code”** is a standardized collection of three-letter message encodings which starts with the letter "Q" and has been developed for radio communication and amateur radio.

2.1.19 **“Space Station”** means a Station located on an object which is beyond, is intended to go beyond, or has been beyond, the major portion of the Earth's atmosphere.

2.1.20 **“Station”** means one or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a radiocommunication service.

2.1.21 **“UAE”** means the United Arab Emirates including its territorial waters and the airspace above.

2.1.x **“Emirates Amateur Radio Society” or “EARS”** means a national non-profit organization for amateur radio enthusiasts in the United Arab Emirates.

Question 2: Do you have any comments regarding the amendments to the definitions, or any other suggestions for modifications, additions or updates?

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Article (3)

Frequency Spectrum Uses related to Amateur Radio

- 3.1 No Person in the United Arab Emirates shall possess or operate Wireless Equipment for Amateur Radio or engage in Amateur Service without obtaining and / or having a valid Authorization issued by the Authority.
- 3.2 Criteria as defined under Article (5) Amateur eligibility shall be a mandatory requirement for the issuance of an Amateur Authorization.
- 3.3 The Amateur Authorizations will be issued in the following classes:
- 3.3.1 **Class A (Advance Class)** – The Class A Amateur Authorization allows operation in all Amateur bands where in the table in Article (4) transmit powers for Class A are given. Class A Amateur is also authorized to operate Beacons and Repeaters and to be a responsible person to supervise activities of Club Stations or training for novices or students.
- 3.3.2 **Class B (Novice Class)** – The Class B Amateur Authorization allows only operation in VHF band 144 – 146 MHz with transmit power of ~~25~~ **50** Watt PEP. Class B Amateur is not allowed to operate Beacons and Repeaters and / or to supervise activities of Club Stations or training for novices or students.
- 3.3.3 **Special Class** – The Special Class Amateur Authorization allows all Amateur bands with powers as given in the table in Article (4). The Special Class Amateur Authorization is limited **to be granted to** Amateur Societies, Club Stations, university or college facilities established for Amateur use.
- 3.4 **Amateur Satellite Service is one category of Amateur Authorization (under Special Class) and allowed within the Amateur Satellite bands as given in Article (4). Amateur Satellite Authorization can be applied in accordance with TRA's Regulations for Earth Stations and TRA's Guidelines of Coordination of Satellite Networks. These applications will be processed on case by case basis.**

Question 3: Do you have any comments regarding the amendments to the uses related to Amateur Radio?

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Article (4)

Frequency Assignment for Amateur Radio / Technical Conditions

- 4.1 The Amateur shall comply with the use of frequency bands as authorized. The following table gives guidance on authorized bands and applicable maximum transmit powers per authorization class:

Frequency Band	Status of Allocation	Maximum Transmit Power in W PEP			Allocation for Amateur Satellite
		Class A	Class B	Special Class	
1 810 – 1 850 kHz	P	400 W	-	400 W	
3 500 – 3 800 kHz	S	100 W	-	100 W	
5 351.5 – 5 366.5 kHz	S	15 W (e.i.r.p)	-	15 W (e.i.r.p)	
7 000 – 7 100 kHz	P	500 W	-	500 W	P
7 100 – 7 200 kHz	S	500 W	-	500 W	
10 100 – 10 150 kHz	S	400 W	-	400 W	
14 000 – 14 350 kHz	P	500 W	-	1 000 W	P
18 068 – 18 168 kHz	P	500 W	-	1 000 W	P
21 000 – 21 450 kHz	P	500 W	-	1 000 W	P
24 890 – 24 990 kHz	P	500 W	-	1 000 W	P
28 000 – 29 700 kHz	P	1000 W	-	1 000 W	P
50 – 54 MHz	P	30 W	-	30 W	
70 – 70.5 MHz	S	-	-	100 W	
144 – 146 MHz	P	100 W	25 50 W	100 W	P
432 – 435 MHz	S	10 W	-	10 W	
435 – 438 MHz	-	50 10 W	-	50 W	P
1.24 – 1.3 GHz	S	-	-	100 W	
2.40 – 2.45 GHz	-	-	-	100 W	S

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10 – 10.5 GHz	S	-	-	100 W	
10.45 – 10.5 GHz	-	-	-	100 W	S
24 – 24.05 GHz	P	-	-	100 W	P
24.05 – 24.25 GHz	S	-	-	100 W	
47 – 47.2 GHz	P	-	-	500 W	P
76 – 77.5 GHz	S	-	-	100 W	S
77.5 – 78 GHz	P	-	-	100 W	P
78 – 81 GHz	S	-	-	100 W	S
122.25 – 123 GHz	S	-	-	100 W	
134 – 136 GHz	P	-	-	100 W	P
136 – 141 GHz	S	-	-	100 W	S
241 – 248 GHz	S	-	-	100 W	S
248 – 250 GHz	P	-	-	100 W	P

Notes:

- (1) Column “Status of Allocation” gives information if the allocation is on Primary (P) or Secondary (S) basis. Services on secondary basis shall not cause harmful interference nor claim protection from interference.
- (2) Operation for a specific authorization class is limited to frequency bands where for this class a power value is indicated in column “Maximum Transmit Power in W PEP”.
- (3) Operation of Amateur Satellite is limited to “Class A” and “Special Class” in frequency bands where indicated in Column “Allocation for Amateur Satellite”.

4.2 The Amateur shall comply with the technical characteristics given in Annex 1.

Question 4: Do you have any comments concerning amendments to the frequency assignments for Amateur Radio and associated technical conditions, or any other comments regarding this article?

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Article (5)

Amateur Eligibility

5.1 The eligibility criteria to apply for an Amateur Authorization are as follows:

5.1.1 ~~Citizens of the UAE and GCC Countries have equal eligibility. Citizens of other countries residing in the UAE are also eligible.~~

All UAE Nationals are eligible to apply for Amateur Authorization.

5.1.2 Residents (with valid residency) and Citizens of GCC Countries (with valid UAE National Identity) are also eligible to apply for Amateur Authorization.

5.1.3 Citizens of other countries visiting the UAE will be required to have a valid Amateur Authorization from their native country.

5.1.4 Special Class Authorization and Advance Authorization for professionals which merit the requirements will be decided on a case to case basis by the Authority

5.1.5 **Membership of Emirates Amateur Radio Society Association** – These conditions do not apply to visitors to the UAE requesting temporary Authorization and Special Class Authorization.

5.2 **Examination** - ~~The~~ Applicants for an Amateur Authorization (except Special Class) shall have to pass an examination to determine their abilities to operate the Amateur Station and observe other regulatory obligations determined by the Authority. Such an examination shall be conducted by ~~an entity or Association~~ **EARS** duly authorised by the Authority. These conditions do not apply to visitors to the UAE requesting temporary Authorization and Special Class Authorization.

5.3 **Security Clearance** - Security clearance shall be mandatory requirement for issuance of the Authorization.

Question 5: Do you have any comments concerning the amendments to the eligibility criteria to apply for Amateur Authorizations, or any other comments regarding this article?

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Article (6)

Applications

- 6.1 All applications for issuance of Amateur Authorization shall be made on the Application Form prescribed by the Authority along with the application processing fee and other relevant documents stated in the application form.
- 6.2 The Authority refers the Applicant, after initial verification, to ~~an authorized entity~~ **EARS** for necessary examination for issuance of Amateur Authorization in Class A (Advance Class) or Class B (Novice Class).

Question 6: Do you have any comments concerning the process of application for issuance of Amateur Authorization, or any other comments regarding this article?

Article (7)

Use of Amateur Station

- 7.1 The Amateur shall use an Amateur Station solely for:
- 7.1.1 Self-training in Radiocommunication
 - 7.1.2 Technical investigations into Radiocommunication
 - 7.1.3 Communication with other Amateurs
 - 7.1.4 Transmitting information related to the operation of Amateur Stations for facilitating communication with others.
- 7.2 The Amateur shall not use the authorised Amateur Station for any type of financial gain or commercial purposes or for the provision of licensable services and shall not transmit:
- 7.2.1 Advertisements
 - 7.2.2 Any form of entertainment
 - 7.2.3 Any message or communication containing the following:
 - a. Offence and hatred
 - b. Misleading information made intentionally
 - c. Offensive language
 - d. Derogatory remarks about any religion
 - e. Against social, cultural, moral and religious values in the UAE
 - f. Contrary to the UAE national interests
 - g. Distorted historical facts, traditions of the UAE or the person or personality of a national leader or a state dignitary
 - h. Detrimental to the UAE relations with friendly countries

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- i. Promotion of corruption, law breaking and dishonestly
- j. Breach of any Law of the UAE and the policies issued by the Authority

7.3 Disaster Communication - In case of emergency or distress situations e.g. accidents, natural disasters, criminal or terrorist acts, where human live or excessive loss of valuables has to be protected or saved, Amateur Station can be used to contact tactical or rescue bodies, especially if there is no public communication available.

7.3.1 Any emergency (distress) activity from the originating station shall include:

- a. Opening with: 'this is an emergency (distress) call'
- b. Identification: 'here is ...'
- c. Situation: (what happened?)
- d. Location: (where it happened?)
- e. Kind of assistance needed: (e.g. police, rescue team, medical aid, etc.)

7.3.2 Any operator receiving such a call shall immediately:

- a. Answer to the calling station: 'emergency (distress) call received'
- b. Identification: 'here is ...'
- c. Verification: (Situation, location, kind of assistance needed)
- d. Forward the message to the relevant body
- e. Inform the calling station about actions taken

7.3.3 All operators of other stations shall immediately stand by, watch the traffic and take part if necessary. The end of emergency (distress) communications shall be announced.

7.4 Third Party/Non Authorized Person - Persons not holding a valid Amateur Authorization may operate for training purposes under the supervision of a Person **an Amateur** having valid Class A (Advanced Class) Authorization. In such case the Class A Authorized User will be responsible for use by the person not holding Amateur Authorization.

7.5 The Amateur is permitted to communicate abroad provided this does not contravene any prohibition published by the TRA or other Government Body.

7.6 The transmission between Amateur Stations shall not be encoded (encrypted) in such a way that the meaning is obscured except for Command and Control signals exchanged between Earth Command Stations and Space Stations in the Amateur Satellite Service and signals for Amateur Station.

Question 7: Do you have any comments concerning the Uses of Amateur stations, or any other comments regarding this article?

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Article (8)

Call Signs

- 8.1 For identification of an Amateur Station, a unique Call Sign will be assigned to the Amateur Authorization by the TRA and is valid only during the validity of the Authorization. The Call Sign remains a resource of the TRA.
- 8.2 The Call Sign has to be announced at the beginning, at the end and also during longer transmissions by the Amateur using the same class of emission as the remaining part of the message.
- 8.3 The Amateur will transmit the assigned Call Sign by Voice (in Arabic or English Language), by visual image or by internationally recognised code.
- 8.4 If an Amateur requires retransmitting a transmission originated from another Amateur Station, the Amateur will:
 - 8.4.1. Obtain the consent of the other Amateur to retransmit his signals.
 - 8.4.2 Transmit the other Amateur Call Sign at the beginning and end of trans-mission.
 - 8.4.3 Indicate as part of transmission that it is retransmission of another Amateur Station.
- 8.5 The call sign will be assigned as per the Annex 2.

Question 8: Do you have any comments concerning the assignment of Call Signs to the Amateur Authorizations, or any other comments regarding this article?

Article (9)

Operation of an Amateur Station

- 9.1 An Amateur shall be responsible for the following:
 - 9.1.1 To maintain a Log Book with the following minimum registrations for every transmission by the Amateur in Arabic or English language:
 - a. date
 - b. time (UTC)
 - c. frequency
 - d. class of emission
 - e. object (e.g. test, any call, or call sign of the station contacted)
 - 9.1.2 All entries shall be kept for a minimum of six months and shall be provided to the TRA upon such request.

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- 9.1.3 **Language** - Any language is allowed with the exception that announcement of the call sign shall be in Arabic or English language only. No encryption is allowed, but international well-known abbreviations (e.g. Q-code) are equal to open language.
- 9.2 An Amateur shall ensure that the Amateur Station is operated at all times by an Authorised Amateur or a trainee under the supervision of an Authorised Amateur unless the Amateur Station is:
- a. a Repeater Station; or
 - b. Beacon Station; or
 - c. an Automatic or Computer controlled Station.
- 9.3 An Amateur shall ensure that if an Amateur Station is being operated unattended, it is able to shut down in case of any malfunction or terminate transmission in case of interference to any other service.
- 9.4 The Amateur will not transmit a carrier wave without intelligible modulation except for short testing or an adjustment.

Question 9: Do you have any comments concerning the Operation of an Amateur Station, or any other comments regarding this article?

Article (10)

Interference

- 10.1 The Amateur shall not operate the station if its operation causes harmful interference to a service provided by any other station.

Article (11)

Connection of an Amateur Station to Public Telecom Network

- 12.1 No Amateur shall connect an Amateur Station, directly or indirectly, to any Public Telecommunication Network including the Internet. Machine generated emissions and connection to Internet may only be considered by the Authority for Special Class Authorization and allowed when explicitly mentioned in the Amateur Authorization.

Question 10: Do you have any comments concerning the Interference and Connection of an Amateur Station to Public Telecom Network, or any other comments regarding these articles?

Annex-1

Technical Characteristics of Emissions

A1.1 Unwanted (spurious) Transmitter Output: The suppression of spurious components of any transmission of an Amateur Station shall not exceed the following values:

Frequency Range	Suppression against Basic Emission *	Maximum Power of Spurious Signal *	Measured in Distance from Centre Frequency
Below 30 MHz	50 dB	- 13 dBm	10 kHz
30 MHz – 1 GHz	70 dB	- 13 dBm	62.5 kHz
above 1 GHz	70 dB	- 13 dBm	250 kHz

* Always the less severe value shall apply.

A1.2 Unwanted Receiver Radiation – The level of signals of any kind produced by the receiving equipment and fed to the antenna, at any frequency shall not exceed the power of 4 nano Watt.

A1.3 Classes of Emission – Amateur Radio shall be limited to use the following classes of emission:

A1.3.1 Emissions with Amplitude Modulation

- a. Double Side Band, single channel, quantized or digital information, without use of a sub carrier:

Telegraphy (Morse code)	A1A
Telegraphy (Machine Code)	A1B
Facsimile	A1C
Remote Control	A1D

- b. Double Side Band, single channel, quantized or digital information, with use of a sub carrier:

Telegraphy (Morse code)	A2A
Telegraphy (Machine Code)	A2B
Facsimile	A2C
Remote Control	A2D

- c. Double Side Band, single channel, analogue information:

Facsimile	A3C
Telephony	A3E
Television (image only)	A3F

- d. Vestigial Side Band, single channel, analogue information:

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- Television (image only) C3F
- e. Single Sideband, suppressed carrier, single channel, quantized or digital information with use of a sub carrier:
- | | |
|---------------------------|-----|
| Telegraphy (Morse code) | J2A |
| Telegraphy (Machine Code) | J2B |
| Facsimile | J2C |
| Remote Control | J2D |
| Packet Radio | J2D |
- f. Single Sideband, suppressed carrier, single channel, analogue information:
- | | |
|-------------------------|-----|
| Facsimile | J3C |
| Telephony | J3E |
| Television (image only) | J3F |
- g. Single Sideband, full carrier, single channel, analogue information:
- Television (image only) H3F
- h. Single Sideband, reduced carrier or carrier with variable level, single channel, and analogue information:
- | | |
|-------------------------|-----|
| Telephony | R3E |
| Television (image only) | R3F |

A1.3.2 Emissions with Frequency Modulation

- a. Single channel, quantized or digital information, without use of a sub carrier:
- | | |
|---------------------------|-----|
| Telegraphy (Morse code) | F1A |
| Telegraphy (Machine Code) | F1B |
| Facsimile | F1C |
| Remote Control | F1D |
- b. Single channel, quantized or digital information, with use of a sub carrier:
- | | |
|---------------------------|-----|
| Telegraphy (Morse code) | F2A |
| Telegraphy (Machine Code) | F2B |
| Facsimile | F2C |
| Remote Control | F2D |
| Packet Radio | F2D |
- c. Single channel, analogue information:

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Facsimile	F3C
Telephony	F3E
Television (image only)	F3F
Television (image and sound)	F8W

A1.3.3 Emissions with Phase Modulation

- a. Single channel, quantized or digital information, without use of a sub carrier:

Telegraphy (Morse code)	G1A
Telegraphy (Machine Code)	G1B
Facsimile	G1C
Remote Control	G1D

- b. Single channel, quantized or digital information, with use of a sub carrier:

Telegraphy (Morse code)	G2A
Telegraphy (Machine Code)	G2B
Facsimile	G2C
Remote Control	G2D
Packet Radio	G2D

- c. Single channel, analogue information:

Facsimile	G3C
Telephony	G3E
Television (image only)	G3F
Television (image and sound)	G8W

A1.3.4 Emissions with Pulse Modulation

- a. Single channel, quantized or digital information, without use of a sub carrier:

Telegraphy (Morse Code)	K1A
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- b. Single channel, quantized or digital information, with use of a sub carrier:

Telegraphy (Morse Code)	K2A, L2A, M2A
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- c. Single channel, analogue information:

Telephony	K3E, L3E, M3E, Q3E
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A1.3.5 Preferred Standards for Machine Generated Emissions

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- a. **Telegraphy** (also if generated by hand) – the international Morse Code.
- b. **Teletype**
 - The international Telegraph Alphabet No. 2 with preferred speeds of 45.45, 50, 75 or 100 Baud
 - The international Telegraph Alphabet No. 5 (ASCII) with preferred speeds of 110, 150 or 300 Baud
 - The AMTOR or the PACTOR System with respect to ITU-R Recommendations M.476 or M.625
 - The Feld-Hell or Hellschreiber System
- c. **Television** – amplitude modulated Television Emissions as described in ITU-R Report 624.
- d. **Packet Radio** – using the AX-25 protocol, whereby all speeds are allowed as long as the bandwidth criteria is duly considered.
- e. **New developments** - any new standard may be used, provided the call sign of the transmitting station has to be given by use of telephony mode.

A1.3.6 Maximum Bandwidth – the bandwidth of any emission used shall always be as narrow as possible and shall in no case exceed the following values:

Frequency Range	Maximum Bandwidth
Below 30 MHz	7 kHz
30 – 300 MHz	40 kHz
300 – 3 000 MHz	1 MHz
above 3 000 MHz	10 MHz

Question 11: Do you have any comments concerning the Technical Characteristics of Emissions, or any other comments regarding this Annex?

Annex-2

Call Signs

A2.1 Call Signs for Amateurs are created by A6 followed by an additional number (0 – 9) for the series as follows:

Series	Category
A60:	Temporary use for participation at events and competitions
A61:	Class A (Advance Class, e.g. HF, VHF, UHF & SHF), for UAE and GCC Nationals only . (UAE resident) having Authorization.
A62:	Emirates Amateur Radio Society and Special Class (other than Amateur Satellite) .
A63:	Reserved For use by Groups at locations like islands
A64:	Reserved Class A for Residents (with valid residency) and Citizens of GCC Countries (with valid UAE National Identity).
A65:	Expatriates and visitors Class B for Residents (with valid residency), Citizens of GCC Countries (with valid UAE National Identity) and visitors.
A66:	Prominent personalities (VIP).
A67:	Class B (Novice Class, VHF only), for UAE Nationals only . and GCC Nationals (UAE resident) having Authorization
A68:	Special Class (Amateur Satellites only) , Repeaters, Beacons and Machines.
A69:	Reserved for use by individuals or groups at locations like islands, desert, hunting and listeners.

A2.2 The Call sign series will be followed by one or more letters as the suffix to make the Call Sign.

A2.2.1 Call Signs – Call Signs for Amateur Authorization will be allocated with a view to avoiding the letters QAA – QZZ, XXX and SOS as already used for other international specific radio services (e.g. A60AAA – A69ZZZ with the exceptions mentioned before, and for two letters A60AA – A69ZZ and for a single letter A60A-A69Z).

A2.2.3 Choice of a Call Sign – The TRA shall have sole discretion to allocate the call sign.

A2.2.3 Reissue of expired Call Signs – Call Signs of expired or cancelled Authorizations may be re-allocated by the TRA after three months.

A2.2.4 Expatriate and Visitor Call Signs – Visiting Amateurs operating in the UAE under a bilateral agreement have to use their own call sign in

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full (issued by their native country) with a preceding A65 ~~or A6~~ only
(A65 ~~or A6~~ followed by Call Sign e.g. A65/X0ABC ~~or A6/X0ABC~~).

Question 12: Do you have any comments concerning the modification to Call Signs categories, or any other comments regarding this Annex?

3. General comments

- 3.1 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.