Exercises on preparing frequency assignment notices to be notified to the BR

Broadcasting Services (BS)

Introduction

For recording Broadcasting stations in the different terrestrial services Plans or the Master Register, Administrations shall notify according to the relevant Agreements or Article 11 of the Radio Regulations the relevant characteristics listed the Agreements or in Annex 1 of Appendix 4 to the Radio Regulations. To facilitate the identification of the relevant characteristics to be notified the Bureau has created different notice types to be used depending on the type of radiocommunication service.

The list of notice types is found in the Preface to the BR IFIC (see Chapter III Section 2). Please note that the preface to the BR IFIC is a reference document associated with the BR IFIC containing explanation of abbreviations, symbols and remarks used in the BR IFIC (for example, Class of station, Nature of service, Polarization, etc.). The preface is available on the BR IFIC DVD and at http://www.itu.int/ITU-R/terrestrial/docs/brific/files/preface/PREFACE_EN.pdf

In addition to the information contained in Appendix 4 to the RR, you will find guidelines for preparing frequency assignments/allotments notices, notices formats, examples, etc. at http://www.itu.int/en/ITU-R/terrestrial/tpr/Pages/Notification.aspx.

A broadcasting assignment is uniquely identified by the following data items:

- Assigned frequency
- Geographical coordinates

or by giving:

- the unique identification code of the assignment (t_adm_ref_id). This code is given and managed by the administration;

This means that these items must be unique.

BS 01: VHF analog sound broadcasting assignment

Prepare an electronic notice file for the recording in the Master Register of a sound broadcasting station transmitting at 101.7 MHz and with characteristics as shown below.

To prepare this notice you may use the "File/New file" functionality available in TerRaNotices and select CLM as the notifying administration.

Transmitting antenna site name	MAICAO LA GUAJIRA
Coordinates of the transmitting antenna site	72°15'58"W -11°23'59"N
Antenna directivity	Omnidirectional
Polarization	M
Vertical effective radiated power	37 dBW
Horizontal effective radiated power	37 dBW
Necessary bandwidth	300 kHz
Maximum effective antenna height	58 m
Height of antenna above ground level*	40

To calculate the "Altitude of the site above sea level", the "Effective antenna heights" and the "Maximum effective antenna height" you may use the "Tools/Calculate effective antenna heights using SRTM3 Terrain Database" available in TerRaNotices.

Note: For Region 2, the data items "Altitude of the site above sea level" and "Height of antenna above ground level" are optional.

BS 02: UHF digital television broadcasting assignment

Prepare an electronic notice file for the recording in the Master Register of a TV broadcasting station transmitting at 557 MHz and with the characteristics shown below.

To prepare this notice you may use the "File/Wizard" functionality available in TerRaNotices and select CUB as the notifying administration

Transmitting antenna site name	GUANABO
Coordinates of the transmitting antenna site	82°07'03"W - 23°10'00"N
Altitude of site above sea level	9 m
Height of the antenna above ground level	30 m
TV system	U1
Antenna directivity	Non directional
Polarization	H
Effective radiated power	27 dBW
Maximum effective antenna height	41 m
Operating hours	0000 to 2400

Note: Before notifying digital television stations to the BR, you need to first of all inform the BR about the type of television system (ISDB-T, DVD-T2, etc.) that you intent to use in your Administration, the bandwidth, the class of emission and the national channeling arrangement (the channel code and the assign frequency).

BS 03: VHF analog sound broadcasting assignment

Prepare an electronic notice file proposing to modify the assigned Frequency to 96.7 MHz of a frequency assignment which is recorded in the Master Register having the unique identification code **53012**.

To prepare this notice you may use the "File/Open a notice from the database" functionality available in TerRaNotices and select CLM as the notifying administration.

BS 04: VHF analog television broadcasting assignment

Prepare an electronic notice file proposing to suppress the frequency assignment on 177.0 MHz located at 74°35'00"W - 20°19'00"N that is no longer in use.

To prepare this notice you may use the "Tools/Generate TB notices" functionality in TerRaNotices and select CUB as the notifying administration.

BS 05: AM sound broadcasting station (in the tropical zone)

Prepare an electronic notice file for the recording in the Master Register of an AM broadcasting station transmitting at 5010 kHz, having a circular receiving area of 200 km and other characteristics as shown below.

To adequately select the notice type, you may use the "File/Wizard" functionality available in TerRaNotices and select VEN as the notifying administration.

Transmitting antenna site name	CARACAS
Coordinates of the transmitting antenna site	66°56'00"W -10°30'00"N
Necessary bandwidth	10 kHz
Class of emission	A3E
Antenna gain	0 dB
Power to the antenna	30 dBW
Antenna directivity	Omnidirectional

BS 06: MF sound broadcasting station (RJ81)

Prepare an electronic notice file for the publication in Part A of the RJ81 Special Section of an MF broadcasting station transmitting at 660 kHz. (Select TRD as the notifying administration.)

Transmitting antenna site name	CHAGUANAS
Coordinates of the transmitting antenna site	61°24'00"W - 10°31'00"N
RJ81 Plan class	B
Day-time operation	
Power to the antenna for day time operation	50 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E
RMS radiation (field strength)	2123.8 mV/m at 1 km
Tower	1
Structure	0
Electric height	90°
Night-time operation	
Power to the antenna for night time operation	50 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E
RMS radiation (field strength)	2188.2 mV/m at 1 km
Tower	1
Structure	0
Electric height	90°