

Exercises on preparing frequency assignment notices to be notified to the BR (WRS – 14)

Broadcasting Services (BS)

Introduction

The goal of these exercises is to familiarize with the most common notice types applicable for the Broadcasting services. The technical and administrative characteristics required by these notice types are based on Appendix 4 to the Radio Regulations, and on the relevant Annexes of Regional Agreements for those proposing Plan modifications.

The list of all available notice types is given in the Preface to the BR IFIC (see Chapter III, Section 2), which is a reference document associated with the BR IFIC containing the explanation of abbreviations, symbols and remarks used in the BR IFIC as well as for notification (for example, Transmission code, Class of station, Polarization, etc.). The Preface is available in the BR IFIC DVD and on the ITU website at http://www.itu.int/en/ITU-R/terrestrial/brific/BRIFIC/Preface/PREFACE_EN.pdf

In addition, the Bureau provides guidelines and examples of notice types on the ITU website at <http://www.itu.int/en/ITU-R/terrestrial/tpr/Pages/Notification.aspx>

A broadcasting frequency assignment is uniquely identified by:

- the assigned frequency (t_freq_assgn) and the geographical coordinates (t_long and t_lat)

or by:

- 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 sound broadcasting assignment

Prepare an electronic notice file of frequency **95.30 MHz** assigned to a **sound broadcasting station** based on the information below, for its recording in the **Master Register**.

To prepare this notice we will use the “Wizard” functionality of TerRaNotices and we will select the Administration of **Venezuela (VEN)** as the notifying administration.

Transmitting antenna site name	CERRO COPEY VALENCIA
Coordinates of the transmitting antenna site	67°59'13"W 10°12'09"N
Height of the Antenna above ground level	40 m
Polarization	Vertical
Effective radiated power	30 dBW
Necessary bandwidth	300 kHz
Maximum effective Antenna height	343 m
Date of bringing the frequency assignment into use	1 October 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

BS 02: VHF digital sound broadcasting assignment T-DAB

Prepare an electronic notice file of frequency **185.360 MHz** assigned to a **digital sound broadcasting station (T-DAB)**, for its recording in the **Master Register**.

To prepare this notice we will use the “New File” functionality of TerRaNotices and we will select the administration of **India (IND)** as the notifying administration.

Transmitting antenna site name	DELHI
Coordinates of the transmitting antenna site	77°20'00"E 28°42'00"N
Height of the Antenna above ground level	50 m
Polarization	Vertical
Effective radiated power	24 dBW
Necessary bandwidth	1536 kHz
Transmission system	S1
Maximum effective Antenna height	54 m
Date of bringing the frequency assignment into use	1 October 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

BS 03: UHF digital Television broadcasting assignment

Prepare an electronic notice file of frequency **490 MHz** assigned to a **digital TV broadcasting** station based on the information below, for its recording in the **Master Register**.

To prepare this notice we will first use “Wizard” functionality of TerRaNotices and we will select the Administration of **Vietnam (VTN)** as the notifying administration.

Transmitting antenna site name	TRAMPHAT NARI
Coordinates of the transmitting antenna site	106°10'44"E 22°14'10"N
Polarization	Horizontal
Effective radiated power	24.6 dBW
TV transmission system	T1 (Preface to the BR IFIC)
Antenna Directivity	Non Directional
Height of the Antenna above ground level	60 m
Maximum effective antenna height	-14 m
Date of bringing the frequency assignment into use	1 October 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

BS 04: Modification of an assignment recorded in the Master register

Prepare an electronic notice file to notify the modification of the **radiated power** of a broadcasting frequency assignment recorded in the Master Register having the unique identification code **A14M0409M14** for the Administration of **Austria (AUT)**.

To prepare this notice we will use the “Open a notice from the database” functionality of TerRaNotices.

BS 05: Request to suppress a frequency assignment

Prepare an electronic notice file to notify the suppression of the following frequency assignment, which is recorded in the **Master Register**.

To prepare this notice we will use the “Generate TB notices” functionality of TerRaNotices and we will select the Administration of **Jamaica (JMC)** as the notifying administration.

Coordinates of the transmitting antenna site	78°05'48"W 18°23'11"N
Assigned Frequency	69 MHz

BS 06: Validating and identifying errors of a frequency assignment notice.

Validate and identify the errors of the electronic notice file “BS 06_NoticeWithError.txt”.

To Validate and identify errors of a notice file, we will use “Open file” and “Validate Notice” functionalities of TerRaNotices.

GE84 Plan – Regional Agreement for use of the band 87.5 - 108 MHz for FM sound broadcasting in Region 1 and Democratic Republic of Afghanistan and the Islamic Republic of Iran.

BS 07: FM sound broadcasting assignment

Prepare an electronic notice of frequency **96.70 MHz** assigned to a sound broadcasting station based on the information below, for the modification of the **GE84 Plan**.

To prepare this notice we will use the “Wizard” functionality of TerRaNotices and we will select the Administration of **Monaco (MCO)** as the notifying administration.

Transmitting antenna site name	MONACO
Coordinates of the transmitting antenna site	7°24'49"E 43°44'05"N
Height of the Antenna above ground level	34 m
Transmission system	4
Polarization	Vertical
Effective radiated power	17 dBW
Necessary bandwidth	300 kHz
Maximum effective Antenna height	206 m
Altitude of site above sea level	171 m

BS 08: Request for publication in Part B

Prepare an electronic notice file for requesting publication of a modification in **Part B** of the **GE84 Special Section** for the following notice.

Coordinates of the transmitting antenna site	17°59'13"E - 49°27'38"N
Assigned Frequency	88.5 MHz

To prepare this notice we will use the “Generate TB notices” functionality of TerRaNotices and we will select the Administration of **Czech Republic (CZE)** as the notifying administration.

GE06 Plan – The Regional agreement for VHF/UHF analogue and digital broadcasting in parts of Region 1 (situated to the west of meridian 170° E and to north parallel 40° S, except the territory of Mongolia) and in the Islamic Republic of Iran. Frequency bands: Band III: 174 - 230 MHz; Band IV: 470 - 582 MHz; Band V: 582 - 862 MHz

BS 09: Modification of the GE06D Plan

Assignment stemming (converted) from an allotment:

Prepare an electronic notice of frequency **530 MHz** assigned to a digital television broadcasting station stemming from an allotment based on the information below, for the modification of the GE06D Plan.

To prepare this notice we will use “Wizard” functionality of TerRaNotices for the Administration of Sweden S.

Transmitting antenna site name	BROEMSEBRO
Coordinates of the transmitting antenna site	15°59'38"E - 56°17'24"N
Site Altitude	33 m
Polarization	Horizontal
Effective radiated power	20 dBW
Antenna Directivity	Non Directional
Plan Entry	3
Assignment code	Converted
Reference planning Configuration	RPC2
SFN Identifier	S-2249
Associated allotment SFN Identifier	S-DT2-20335
Unique Identification code	S-GT1_00193
Publication request	TRUE/Procedure 4.1.2.5
Spectrum Mask	Non-critical
Height of the Antenna above ground level	53 m
Maximum effective antenna height	87 m
Coordinated Administration code	D, NOR, DNK
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility

BS 10: Modification of the GE06D Plan

SFN composed Linked assignment(s): Please note that the first two 2L assignments of each network shall be notified simultaneously.

Prepare electronic notices to notify digital television broadcasting for SFN composed, 2 linked assignments. The assigned frequency is **570.00 MHz** with the following characteristics, for the modification of the **GE06D Plan**.

To prepare these notices we will use “New File” functionality of TerRaNotices, select the Administration of **Sweden (S)** as the notifying administration and the relevant notice type.

First notice:

Transmitting antenna site name	STOEDE INTAGET
Coordinates of the transmitting antenna site	16°38'24"E - 59°22'18"N
Unique Identification code	S-GT1_01042
Publication request	TRUE/Procedure 4.1.2.5
Site Altitude	58 m
Polarization	Horizontal
Effective radiated power	24.8 dBW
Antenna Directivity	Non Directional
Plan Entry	2
Assignment code	Linked
Reference planning Configuration	RPC2
SFN Identifier	S-4886
Spectrum Mask	Non-critical
Height of the Antenna above ground level	75 m
Maximum effective antenna height	124 m
Coordinated Administration code	FIN
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility

Second notice:

Transmitting antenna site name	TORPSHAMMAR
Coordinates of the transmitting antenna site	16°26'12"E - 59°25'14"N
Unique Identification code	S-GT1-01060
Publication request	TRUE/Procedure 4.1.2.5
Site Altitude	53 m
Polarization	Horizontal
Effective radiated power	24.8 dBW
Antenna Directivity	Non Directional
Plan Entry	2
Assignment code	Linked
Reference planning Configuration	RPC2
SFN Identifier	S-4886
Spectrum Mask	Non-critical
Height of the Antenna above ground level	75 m
Maximum effective antenna height	122 m
Coordinated Administration code	FIN
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility

BS 11: Linked assignment

Prepare an electronic notice to notify a digital television broadcasting assignment linked to an allotment. The assigned frequency is **474 MHz** with the following characteristics for recording in the **Master Register (MIFR)**.

To prepare this notice we will use “New File” functionality of TerRaNotices, select the Administration of **Libya (LBY)** as notifying administration.

Transmitting antenna site name	ALMARJ
Coordinates of the transmitting antenna site	20°54'00"E - 32°27'00"N
Unique Identification code	LJB-MRJ1 test
Site Altitude	349 m
Polarization	Horizontal
Effective radiated power	35.0 dBW
Antenna Directivity	Non Directional
Plan Entry	4
Assignment code	Linked
Unique Identification code of the corresponding assignment in the Plan	LJB-MRJ1
SFN Identifier	ALMARJ_1
Spectrum Mask	Non-critical
Height of the Antenna above ground level	90 m
SFN Identifier of the associated allotment	ALMARJ_1
Unique Identification code of the associated allotment	ALMARJ_1
System variant	C3
Reception mode	FX
Coordinated Administration code	GRC
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility
Signed commitment	FALSE
Remark condition Met	TRUE
Resubmission	FALSE
Date of bringing the frequency assignment into use	23 October 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

BS 12: Assignment stemming (converted) from an allotment

Prepare an electronic notice of frequency **474 MHz** assigned to a digital television broadcasting station stemming from an allotment based on the information below, for recording in the **Master Register (MIFR)**.

To prepare this notice we will use “Wizard” functionality of TerRaNotices for the Administration of **Libya (LBY)**

Transmitting antenna site name	TEST1
Coordinates of the transmitting antenna site	21°00'00"E - 32°00'00"N
Unique Identification code	LJB-MRJ1 test1
Site Altitude	289 m
Polarization	Horizontal
Effective radiated power	50.0 dBW
Antenna Directivity	Non Directional
Plan Entry	3
Assignment code	Converted
Unique Identification code of the corresponding assignment in the Plan	LJB-MRJ1
SFN Identifier	ALMARJ_1
Spectrum Mask	Non-critical
Height of the Antenna above ground level	90 m
SFN Identifier of the associated allotment	ALMARJ_1
Unique Identification code of the associated allotment	ALMARJ_1
System variant	C3
Reception mode	FX
Coordinated Administration code	GRC
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility
Signed commitment	FALSE
Remark condition Met	TRUE
Resubmission	FALSE
Date of bringing the frequency assignment into use	23 October 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

GE75 Plan - Regional Agreement for Medium Frequency Bands (525-1605 kHz) in Regions 1 and 3 and in the Low Frequency Bands (150-285 kHz) in Region 1

BS 13: LF/MF sound broadcasting assignment

Prepare an electronic notice of frequency **594 kHz** assigned to a MF sound broadcasting station based on the information below, for the modification of the **GE75 Plan**.

To prepare this notice we will use the “New File” functionality of TerRaNotices and we will select the administration of **Turkey (TUR)** as the notifying administration.

Transmitting antenna site name	ANKARA POLATLI
Coordinates of the transmitting antenna site	32°25'06"E 39°45'22"N
Ground conductivity	3
Day-time operation	
Height of the Antenna above ground level	250 m
Antenna type	A
Necessary bandwidth	9 kHz
Class of emission	A3E--
Transmission system	Analog
Adjacent channel protection ratio	5
Power to antenna	150 kW
Maximum Effective monopole radiated power	23.7 dB (kW)
Night-time operation	
Height of the Antenna above ground level	250 m
Antenna type	A
Necessary bandwidth	9 kHz
Class of emission	A3E--
Transmission system	Analog
Adjacent channel protection ratio	5
Power to antenna	50 kW
Maximum Effective monopole radiated power	19 dB (kW)

RJ81 Plan – Regional Agreement for medium frequency bands (535-1605 kHz) in Region 2.

BS 14: MF sound broadcasting assignment

Prepare an electronic notice of frequency 1300 kHz assigned to a MF sound broadcasting station based on the information below, for the modification of the RJ81 Plan.

To prepare this notice we will use the “New Notice” functionality of TerRaNotices and we will select the administration of **Brazil (B)** as the notifying administration.

Transmitting antenna site name	ITA
Coordinates of the transmitting antenna site	52°19'26"W 27°17'26"S
RJ81 Plan class	C
Day-time operation	
Power to the antenna for day time operation	1.000 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E--
RMS radiation (field strength)	310.00 mV/m
Regular hours of operation	From 04:01 to 16:00
Electric height	90.500 degrees
Night-time operation	
Power to the antenna for day time operation	0.250 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E--
RMS radiation (field strength)	155.00 mV/m
Regular hours of operation	From 16:01 to 04:00
Electric height	90.500 degrees