



Terrestrial Workshop Presentation BS Exercises – WRS - 16

BR/TSD/TPR

International Telecommunication Union

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Overview

- General guidelines on the notification process for the Broadcasting Service
- Reference documents for notification
- Exercises



General guidelines on the notification process: Broadcasting Service



- Frequency assignment is uniquely identified by its:
 - Frequency and geographical coordinates; or
 - Unique identification code given by the administration;
- Each notification shall be complete and validated before submitting to the Bureau:
 - Online validation tool

<http://www.itu.int/ITU-R/terrestrial/OnlineValidation/Login.aspx>
- **IMPORTANT:** BR Assign ID and Site name are NOT identifying elements but they could be notified in the remarks field, for additional information

General guidelines on the notification process: Broadcasting Service

- “Notice in Process” or “Notice”
 - Frequency assignment notice that have not yet been
 - *recorded in the Master Register or*
 - *entered the Plan*
 - To change any data item:
 - *Submit a complete new notice with the relevant changes and the same intent as the notice to be replaced*
 - `t_action = <identical to the t_action of the notice to be replaced>`
 - To cancel a “Notice in Process”
 - *Submit a TB5 or TB9 with the intent WITHDRAW (t_action = WITHDRAW)*
- “Frequency assignment”
 - Frequency assignment which is either:
 - *recorded in the Master Register; or*
 - *has entered the Plan*
 - To change any data item:
 - *Submit a complete new notice with the relevant changes, the intent is MODIFY and identifying elements of the target*
 - `t_action = MODIFY`
 - `t_trg_freq_assgn, t_trg_long and t_trg_lat or t_trg_adm_ref_id`
 - To cancel a “Frequency assignment”
 - *Submit a TB5 or TB9 with the intent SUPPRESS (t_action = SUPPRESS)*

- Guidelines and examples of different notice types;

<http://www.itu.int/en/ITU-R/terrestrial/tpr/Pages/Notification.aspx>

- Preface to the BR IFIC;

<http://www.itu.int/en/ITU-R/terrestrial/brific/Pages/default.aspx>



- Radio Regulations & Regional Agreements



Exercises

➤ BS 01: VHF sound broadcasting assignment

Prepare an electronic notice file of frequency **89.0 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 **Vietnam (VTN)** as the notifying administration.

Transmitting antenna site name	CANTHO
Coordinates of the transmitting antenna site	105°34'06"E 10°08'29"N
Maximum effective Antenna Height	125 m
Polarization	Vertical
Effective radiated power	42.9 dBW
Necessary bandwidth	300 kHz
Date of bringing the frequency assignment into use	10 April 2015
Address code	Preface to the BR IFIC
Operating Hours	24 Hours

Exercises

➤ BS 02: GT1: DVB-T Assignment for recording into MIFR

Prepare an electronic notice file of frequency **474 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 use the “New File” functionality of TerRaNotices and select the administration of **Angola (AGL)** as the notifying administration.

Transmitting antenna site name	BALOMBO
Coordinates of the transmitting antenna site	16°45'00"E 8°36'00"S
Site Altitude	To be calculated using TerRaNotices facility
Polarization	Horizontal
Effective radiated power	40 dBW
Antenna Directivity	Non Directional
Plan Entry	1
Assignment code	S
Unique Identification code of the corresponding assignment in the Plan	BR1_DT11307167
Spectrum Mask	Non-critical
Height of the Antenna above ground level	130 m
System Variant	C3
Reception Mode	FX
Maximum Effective Antenna Height and Effective antenna heights (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	24 September 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours



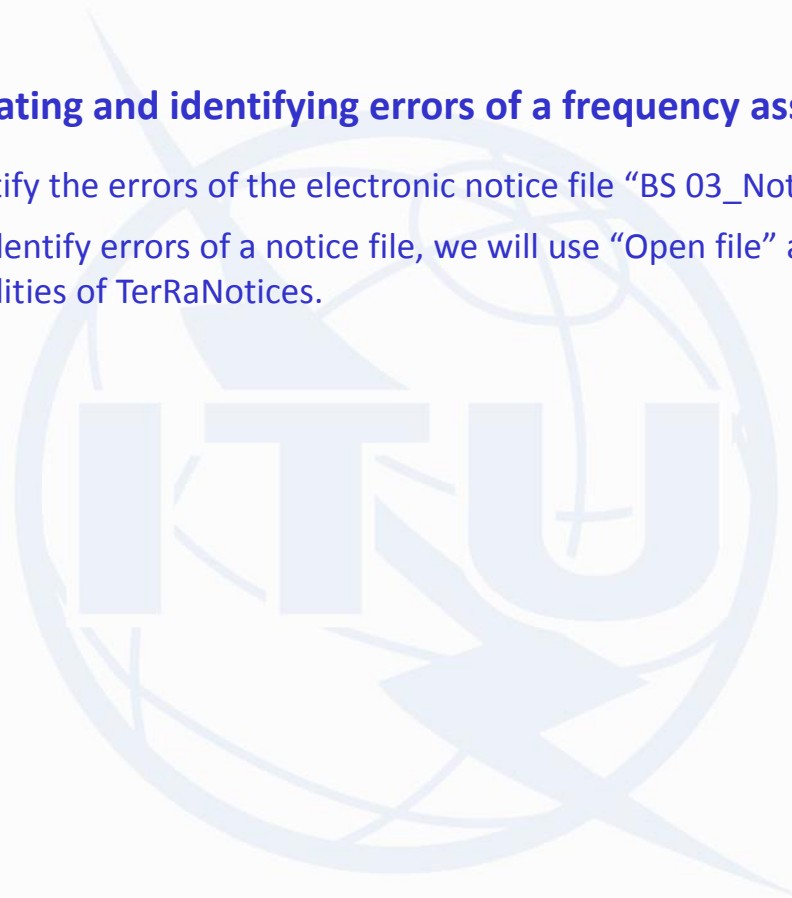
Exercises



➤ **BS 03: Validating and identifying errors of a frequency assignment notice**

Validate and identify the errors of the electronic notice file “BS 03_NoticeWithError.txt”.

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



Exercises

➤ BS 04: UHF digital television broadcasting assignment

Prepare an electronic notice file of frequency **617.0 MHz** assigned to a **digital television broadcasting station**, 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 **Colombia (CLM)** as the notifying administration.

Transmitting antenna site name	TDT
Coordinates of the transmitting antenna site	72°27'39"W 7°59'48"N
Maximum effective Antenna Height	776 m
Polarization	Horizontal
Effective radiated power	51.2 dBW
Transmission system	T7
Antenna Directivity	Non Directional
Date of bringing the frequency assignment into use	26 August 2014
Address code	Preface to the BR IFIC
Operating Hours	24 Hours



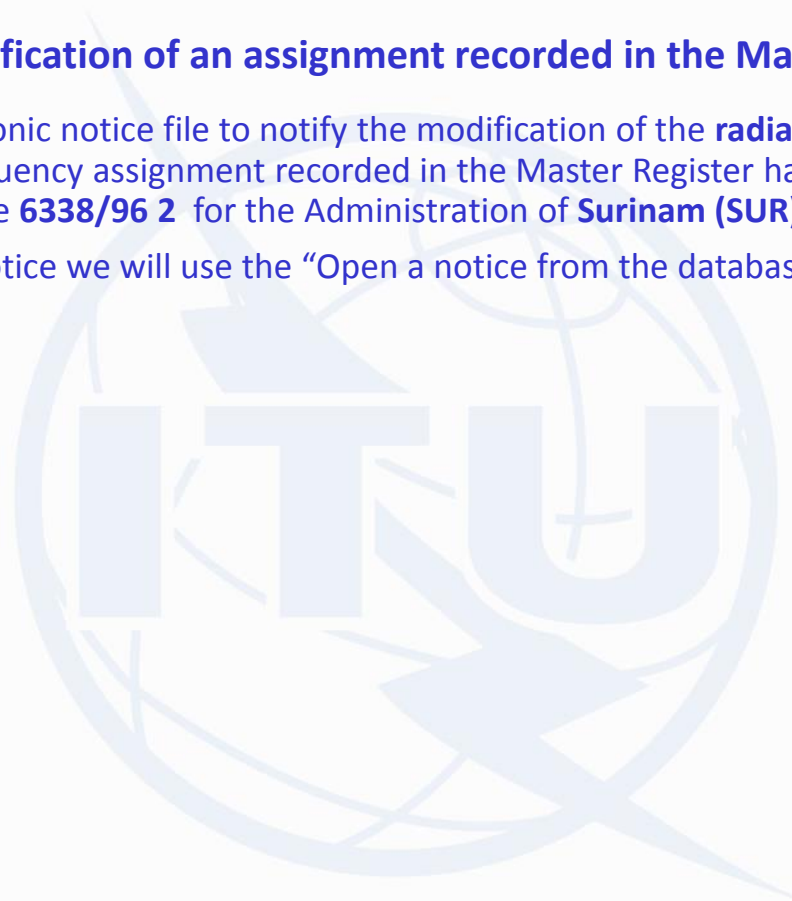
Exercises



➤ BS 05: 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 **6338/96 2** for the Administration of **Surinam (SUR)**.

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



➤ **BS 06: 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 **South Africa (AFS)** as the notifying administration.

Coordinates of the transmitting antenna site	18°52'00'E 35°55'00'SN
Assigned Frequency	100.9 MHz

- **BS 07: Request to register an assignment in the Master Register with all technical characteristics as recorded in the plan for a station in operation**

Prepare an electronic notice file to request a frequency assignment to record in the Master Register with the same technical characteristics as it is recorded in the GE84 plan, having the unique identification code **TNA0000529292013** for the Administration of **Germany (D)**.

To prepare this notice we will use the “Generate TB Notices” functionality of TerRaNotices.



Exercises: 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 08: FM sound broadcasting assignment

Prepare an electronic notice of frequency **91.80 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 **France (F)** as the notifying administration.

Transmitting antenna site name	LISIEUX S DESIR-EX
Coordinates of the transmitting antenna site	0°12'39"E 49°08'54"N
Height of the Antenna above ground level	47 m
Transmission system	4
Polarization	Vertical
Effective radiated power	24.8 dBW
Necessary bandwidth	300 kHz
Maximum Effective Antenna Height and Effective antenna heights (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility



Exercises: 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 09: 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	37°52'00"E - 0°14'00"N
Assigned Frequency	89.2 MHz

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

Exercises: 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 10: DVB-T Assignment for recording into GE06D Plan

Prepare an electronic notice of frequency 482 MHz assigned to a digital television broadcasting station based on the information below, for recording in the GE06D Plan.

To prepare this notice we will use “New notice” functionality of TerRaNotices select the Administration of Switzerland (SUI) as the notifying administration.

Transmitting antenna site name	MONTE CENERI
Coordinates of the transmitting antenna site	8°54'56"E - 46°08'26"N
Unique Identification code	SUI-TEST
Site Altitude	To be calculated using TerRaNotices facility
Polarization	Vertical
Effective radiated power	30 dBW
Antenna Directivity	Non Directional
Plan Entry	1
Assignment code	S
Spectrum Mask	Non-critical
Height of the Antenna above ground level	100 m
Reference planning Configuration	RPC2
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility



Exercises: 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 11: Notification of linked assignments to modify 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 **538.00 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 **Uganda (UGA)** as the notifying administration and the relevant notice type.

First notice:

Transmitting antenna site name	RUBAGA
Coordinates of the transmitting antenna site	32°33'12"E - 0°18'08"N
Unique Identification code	UGA0910TU01-EX
Publication request	TRUE/Procedure 4.1.2.5
Site Altitude	1258 m
Polarization	Vertical
Effective radiated power	37 dBW
Antenna Directivity	Non-Directional
Plan Entry	2
Assignment code	Linked
Reference planning Configuration	RPC1
SFN Identifier	UGSFN1
Spectrum Mask	Non-critical
Height of the Antenna above ground level	80 m
Maximum effective antenna height	238 m
Coordinated Administration code	TZA, KEN,COD,RRW,SSD
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility



Exercises: 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

Second notice:

Transmitting antenna site name	KULAMBIRO
Coordinates of the transmitting antenna site	32°36'28"E - 0°22'14"N
Unique Identification code	UGA0908TU05-EX
Publication request	TRUE/Procedure 4.1.2.5
Site Altitude	1284 m
Polarization	Vertical
Effective radiated power	37 dBW
Antenna Directivity	Non-Directional
Plan Entry	2
Assignment code	Linked
Reference planning Configuration	RPC1
SFN Identifier	UGSFN1
Spectrum Mask	Non-critical
Height of the Antenna above ground level	75 m
Maximum effective antenna height	227 m
Coordinated Administration code	TZA, KEN,COD,RRW,SSD
Effective antenna height (m) at 36 different azimuths in 10 degrees interval	To be calculated using TerRaNotices facility



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 12: LF/MF sound broadcasting assignment

Prepare an electronic notice of frequency **990 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 **Ukraine (UKR)** as the notifying administration.

Transmitting antenna site name	DNIPROPETROVSK
Coordinates of the transmitting antenna site	35°01'18"E 48°26'55"N
Ground conductivity	3
Day-time operation	
Height of the Antenna above ground level	120 m
Antenna type	A
Necessary bandwidth	16 kHz
Class of emission	A3E
Transmission system	Analog
Adjacent channel protection ratio	9
Power to antenna	10 kW
Maximum Effective monopole radiated power	11 dB (kW)
Night-time operation	
Height of the Antenna above ground level	120 m
Antenna type	A
Necessary bandwidth	16 kHz
Class of emission	A3E
Transmission system	Analog
Adjacent channel protection ratio	9
Power to antenna	6.3 kW
Maximum Effective monopole radiated power	9 dB (kW)

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

➤ BS 13: MF sound broadcasting assignment

Prepare an electronic notice file of frequency 720 kHz assigned to a sound broadcasting station, for its recording in the RJ81 Plan.

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

Transmitting antenna site name	San Salvador
Coordinates of the transmitting antenna site	89°11'39"W 13°40'23"N
RJ81 Class of station	B
Day-time operation	
Power to antenna	1 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E
r.m.s radiation	316.2 mV/m
Transmission system	Analog
Electrical height of antenna	138.8 degrees
Night-time operation	
Power to antenna	1 kW
Antenna type	A
Necessary bandwidth	10 kHz
Class of emission	A3E
r.m.s radiation	316.2 mV/m
Transmission system	Analog
Electrical height of antenna	138.8 degrees



Thank you for your attention!

ITU – Radiocommunication Bureau

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