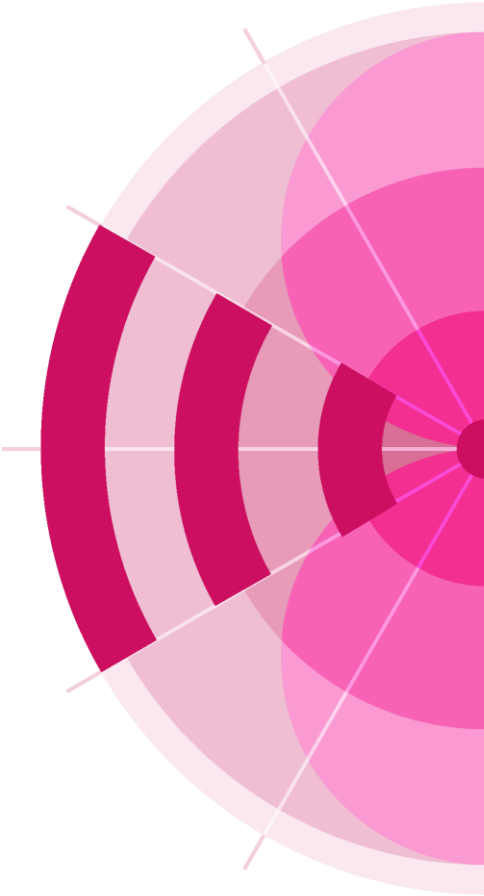
30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022
Geneva, Switzerland

Terrestrial Workshop: Notification for Broadcasting Stations



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#ITUWRS

Plan modification process

- To ADD or MODIFY : Two submissions:
  - First submission contains the details of the modification request;
  - Coordination period;
  - Once the coordination has been successful;
  - Second submission requesting its publication.
- To suppress it is one submission

Plan modifications mainly notified

- For VHF/UHF (FMTV)
  - GE84 : Notice type T01
    - Region 1 and part of Region 3;
    - Frequency band: 87.5 – 108 MHz;
    - Analogue sound broadcasting.
  - GE06 : Notice types GS1, GT1, GS2,GT2 and GB1
    - Parts of Region 1 and 3;
    - Frequency bands: 174-230 MHz and 470-862 MHz
    - Digital sound and television broadcasting

Plan modifications

- For LF/MF
  - GE75 : Notice type T03
    - MF : Region 1 and 3 and LF : Region 1;
    - Frequency band: LF: 150 – 285 kHz;
    - Frequency band: MF: 525-1605 kHz;
    - Analogue and digital sound broadcasting;
  - RJ81 : Notice type T04
    - Parts of Region 2;
    - Frequency bands: MF: 1605-1705 kHz
    - Analogue and digital sound broadcasting

Recording in MIFR

- VHF/UHF (FMTV) outside Planning area
  - Analogue sound broadcasting : Notice type T01
  - Digital TV broadcasting : Notice type T02
    - Before notifying digital TV station, administration must send to the BR
      - Television system ISDB-T, T-DMB, etc.;
      - Bandwidth;
      - Class of emission;
      - Channeling arrangement (center frequency and channel number).
- Within planning areas
  - Identical notice type as for the Plan;
  - The frequency assignment must exist in the Plan.

Identifying items for Broadcasting Stations

AP4	Description of a data item	Data item	Example
1A	**Assigned frequency (MHz)**	**t_freq_assgn**	t_freq_assgn=95.9
4C	**Geographical Coordinates**	**t_long** **t_lat**	t_long=+0144500 t_lat=+472445

AND/OR

AP4	Description of a data item	Data item	Example
ID1	**Unique Identification Code given by the administration**	**t_adm_ref_id**	t_adm_ref_id=A10A1404B

BS01- Digital Television Broadcasting Station for recording in the Master Register using the Wizard

- **Notifying Administration (**B, t_adm**)**– *ITU symbol for administration* : J
- **Fragment (**t_fragment**)**– *Identifies the notification process under which the notice is submitted* NTFD_RR
- **Action (**t_action**)** – *The action to be taken for this notice :* ADD
- **Class of Station (**6A, t_stn_cls**)** – *Identify the type of service (Chapter IV, Section 6 of the Preface) :* BT
- **Notice type (**t_notice_type**)** – *Was identified by the Wizard :* T02
- **Unique identification code given by the Administration to the assignment (**ID1, t_adm_ref_ID**)** – *Optional but a good practice to use it :* J_ISDB-T
- **Date of Bringing into use(**2C, t_d_inuse**)** – *Exact date or foreseen date when the frequency assignment is brought into use as specified in RR11.24 :* 3 months max
- **Address Code (**12B, t_addr_code**)** – *Contact details of the responsible organ in case there are any issues with the assignment (Preface to the BRIFIC, Chapter IV, Section 3) :* A
- **Locality of the transmitting antenna (***4A, t_site_name***)** – *Name of locality by which the transmitting antenna is known :* KITAMI-EX
- **Geographical coordinates (***4C, t_long, t_lat***)** – *Location of the transmitting antenna*
  - *Must be within the jurisdiction of the notifying administration (Res. 1) -Except if a special agreement exists within the two parties which must be sent to the Bureau :* 143°53'56"E - 43°53'25"N

- **Geographical area (**4B, t_ctry**)** – *ITU symbol for geo area, is automatically selected :* J
- **Assigned frequency (**1A, t_freq_assgn**)** – *Frequency on which the transmitter broadcast :* 647 MHz
- **Television system (**7C1, t_tran_sys**)** – *Preface Chapter IV, Section 9, Table 9.1 :* T9
- **Polarization (**9D – t_polar**)** –*Horizontal, Vertical or Mixed:* Horizontal
- **Maximum effective radiated power (**8BH – t_erp_h_dbw**)** – Depends on the polarization: 5.4 dBW
- **Frequency offset (**1EO – t_offset**)** – *If the center frequency of the emission is offset from the center frequency :* 0
- **Antenna directivity (**9 – t_ant_dir**)** – *To specify if the transmitting antenna is directive or non-directive:* Non-Directional
- **Height of the antenna above the ground level (**9E – t_hgt_agl**) :** 20 m
- **Maximum effective antenna height (**9EB – t_eff_hgtmax**)** – *height above the mean level of the ground: (Can be calculate by TerRaNotice's SRTM3 Terrain Database) :* 105 m

- **Antenna characteristics:**
  - **Effective antenna height diagram (**9EC –t_eff_hgt@azmXXX**)** – *effective height of the antenna above the mean level of the ground, at 36 different azimuths: Can be calculated using TerRaNotice's SRTM3 Terrain Database.*

BS02 - Modification of the GE84 Plan

Prepare an electronic notice of frequency **88.5 MHz** assigned to a sound broadcasting station, for the modification of the **GE84 Plan**.

To prepare this notice we will use the "**New File**" functionality of TerRaNotices, and the notifying administration is **ALGERIA (ALG)**.

ITEM	PARAMETER	VALUE
ID1	Unique identification code given by the administration	ALG-BS02
4A	Transmitting antenna site name	TARAT-EX
4C	Coordinates of the transmitting station	9°21'04"E - 26°08'08"N
	Geographical area	ALG
7AB	Bandwidth	300 kHz
7D	Transmission system	4
9D	Polarization	Vertical
8BV	Effective radiated power	23 dBW
9	Antenna Directivity	Directional
9E	Height of the Antenna above ground level	70 m
9EB	Maximum Effective Antenna Height and Effective antenna heights (m) at 36 different azimuths in 10 degrees interval	TerRaNotices/Tool
9N	Attenuation	0 to 90 degrees 1.8 dB 100 to 170 degrees 2.3 180 to 350 degrees 1.8 dB

BS03 - Request for publication in Part B of the GE84 Special Section

Prepare an electronic notice file for requesting publication in **Part B** of the **GE84 Special Section** for the following notice with notifying administration **SAUDI ARABIA (ARS).**

To prepare this notice we will use the "**Generate TB notices**" functionality of TerRaNotices

ITEM	PARAMETER	VALUE
4C	Coordinates of the transmitting station	42°56'00"E - 23°55'00"N
1A	Assigned frequency	88.4 MHz

BS04 - Request to Suppress a frequency assignment

Prepare an electronic notice file to suppress the following frequency assignment, which is recorded in the **Master Register.**
To prepare this notice we will use the "**Generate Suppression/Withdrawal notices**" functionality of TerRaNotices and the notifying administration is **CANADA (CAN).**

ITEM	PARAMETER	VALUE
4C	Coordinates of the transmitting station	71° 07'00"W - 48° 25'00"N
1A	Assigned frequency	100.9 MHz

BS05 - 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** for the Administration of ERITRIA (ERI)
To prepare this notice we will use the "**Generate TB notices**" functionality of TerRaNotices

ITEM	PARAMETER	VALUE
4C	Coordinates of the transmitting station	39° 26'00"E - 15° 37'00"N
1A	Assigned frequency	97.7 MHz

BS06 - Modification of an assignment which is recorded in the Master register

Prepare an electronic notice for notifying the modification of the station name of a Broadcasting frequency assignment which is already recorded in the **Master Register** having the unique identification code **57DBAB437BB6D** for the Administration of **BRAZIL** (**B**).
To prepare this notice use the "**Open a notice from the database**" functionality of TerRaNotices

BS07 - Modification of the GE75 Plan

Prepare an electronic notice file of frequency **1359 kHz** assignment to a sound broadcasting station, for the modification of **GE75 Plan**, for the Administration of **JAPAN** (**J**). To prepare this notice we will use "**New File**" functionality of TerRaNotices.

ITEM	PARAMETER	VALUE	
4A	Transmitting antenna site name	YONEZAWA-EX	
4C	Coordinates of the transmitting station	140°07'09"E - 37°52'33"N	
4G	Ground conductivity	1	
		Day-time Operation	Night-time Operation
9EP	Height of the Antenna above ground level	47 m	47 m
9Q	Antenna type	A	A
7AB	Necessary Bandwidth	15 kHz	15 kHz
7A	Class of emission	A3E--	A3E--
7D	Transmission system	Analog	Analog
7B1	Adjacent channel protection ratio	9.0 dB	9 dB
8A	Power to antenna	0.1 kW	0.1 kW
9L	Maximum Effective monopole radiated power	-9.6 dB (kW)	-9.6 dB (kW)

BS08 – Modification of the RJ81

Prepare an electronic notice file of frequency **1 600 kHz** assigned to an AM broadcasting station, for the modification of the **RJ81 Plan,** for the Administration of **BRAZIL** (**B**)

To prepare this notice, we will use the "**Wizard**" functionality of TerRaNotices

ITEM	PARAMETER	VALUE	
4A	Transmitting antenna site name	SERTAO	
4C	Coordinates of the transmitting station	52°15'01"W - 27°59'00"S	
7B	RJ Class	C	
		Day-time Operation	Night-time Operation
8A	Power to antenna	1 kW	0.35 kW
9Q	Antenna type	A	A
7AB	Necessary Bandwidth	10 kHz	10 kHz
7A	Class of emission	A3E--	A3E--
7D	Transmission system	Analog	Analog
9TF	Electric height	90.24 degrees	90.24 degrees
9L	R.M.S. field radiation strength	300 mV/m	177.48 mV/m

Validate the file using eValidation tool

https://www.itu.int/ITU-R/eTerrestrial/Account/Login

If you don’t have an ITU login yet, please use the following credential for this exercise: **Username**: wrsterre/ **Password** RRS2021

Submit the validated file using WISFAT

Only registered users can login therefore please user the following credentials
Username: wrsterre **Password** RRS2021

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Thank you!

ITU – Radiocommunication Bureau

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