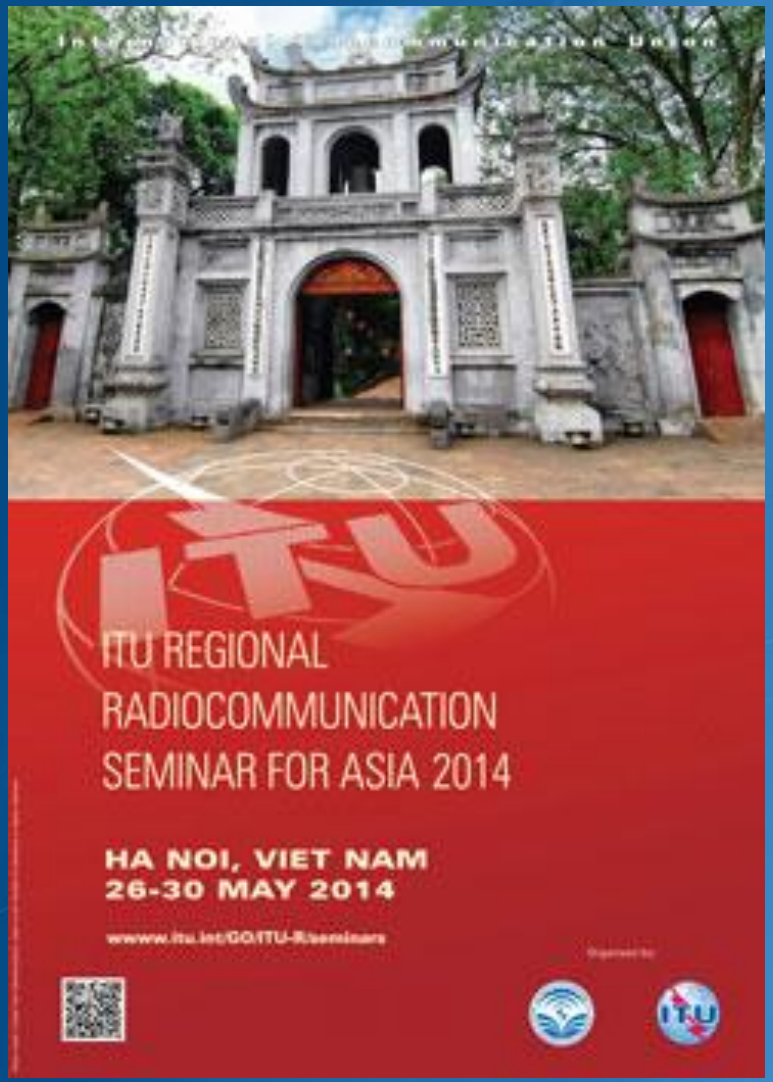

Terrestrial Workshop on the Preparation of Notices for the Broadcasting Service

Evghenii Sestacov
sestacov@itu.int

International Telecommunication Union

Overview of the Notification workshop on the Broadcasting Service

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

International Telecommunication Union

General guidelines on the notification process: Broadcasting Service

- Each frequency assignment needs to be uniquely identified;
- Identifying elements for broadcasting service notices:
  - Frequency, geographical coordinates;
  - Unique identification code given by the administration.

- These identifying elements enable administrations to submit, at any time, changes to a previously submitted notice;
- A new notice having identical identifying elements of a previously notified frequency assignment will replace it;
- Each notification shall be complete and validated before submitting to the Bureau;
- BR Assign ID and site name are NOT identifying elements but they could be notified in the remarks field, for information;

General guidelines on the notification process: Broadcasting Service

- A notice submitted to the BR is called a “Notice in Process” or “Notice” for all frequency assignments that have not yet been recorded in the Master Register or entered into a Plan;
- To change any data item of a “Notice in Process”:
  - Submit a complete new notice with the relevant changes and the same intent as the previous “Notice”:
    - t_action = identical to the t_action of the previous “Notice”.
- To change any data item of a recorded frequency assignment or a Plan entry:
  - Submit a complete new notice with the relevant changes and with the intent “MODIFY”:
    - t_action = MODIFY.
- To cancel a “Notice”;
  - Submit a Withdrawal notice:
    - t_action = WITHDRAW (TB5 or TB9).
- To suppress a recorded frequency assignment or a Plan entry;
  - Submit a suppression notice:
    - t_action = SUPPRESS (TB5 or TB9).

Reference documents for notification

- 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 and Regional Agreements

International Telecommunication Union

Exercises

- **BS 01: VHF sound broadcasting assignment**

Prepare an electronic notice of frequency 89.30 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 “New Notice” functionality of TerRaNotices and we will select SNG as the notifying administration.

Transmitting antenna site name	ALEXANDRA
Coordinates of the transmitting antenna site	103° 45'22''E 1° 21'47''N
Height of the Antenna above ground level	111 m
Polarization	Vertical
Effective radiated power	41 dBW
Necessary bandwidth	300 kHz
Maximum effective Antenna height	220 m
Date of bringing the frequency assignment into use	1 April 2014
Operating Agency	011
Address code	See Preface to the BR IFIC
Operating Hours	24 Hours

Exercises

- **BS 02 Solution: 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 Notice” functionality of TerRaNotices and we will select VTN as the notifying administration.

Transmitting antenna site name	QUANG NAM
Coordinates of the transmitting antenna site	107° 59'07''E 15° 29'54''N
Height of the Antenna above ground level	30 m
Polarization	Vertical
Effective radiated power	20 dBW
Necessary bandwidth	1536 kHz
Transmission system	S1
Maximum effective Antenna height	13 m
Date of bringing the frequency assignment into use	1 April 2014
Operating Agency	001
Address code	See Preface to the BR IFIC
Operating Hours	24 Hours

Exercises

- **BS 03: UHF digital Television broadcasting assignment**

Prepare an electronic notice file of frequency 689 MHz assigned to a 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 KOR as the notifying administration.

Transmitting antenna site name	GWANGHAEAK
Coordinates of the transmitting antenna site	126° 19'02''E 33° 17'16''N
Height of the Antenna above ground level	41 m
Polarization	Horizontal
Effective radiated power	29 dBW
Antenna Directivity	Non Directional
Unique Identification code	1620088-Ex
Maximum effective antenna height	263 m
TV transmission system	T2
Date of bringing the frequency assignment into use	14 October 2013
Operating Agency	001
Address code	See Preface to the BR IFIC
Operating Hours	24 Hours

Exercises

- **BS 04: 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 DTV/M-HEUK SEONG for the Administration of KOR.

To prepare this notice we will use the “Open a notice from the database” functionality of TerRaNotices and select KOR as the notifying administration.

- **BS 05: Request to suppress a frequency assignment**

Prepare an electronic notice for suppressing 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 THA as the notifying administration.

Coordinates of the transmitting antenna site	**104° 55'00''E 15° 22'00''N**
Assigned Frequency	**226.5 MHz**

Exercises

- **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.

Exercises

- **LFMF 01: LF/MF sound broadcasting assignment**

Prepare an electronic notice file of frequency 1 026 kHz assigned to a sound broadcasting station, for its recording in the GE75 Plan.

To prepare this notice we will use the “New Notice” functionality of TerRaNotices and we will select J as the notifying administration.

Transmitting antenna site name	HIGASHI NARUSE
Coordinates of the transmitting antenna site	140° 42'48''E 39° 10'27''N
Ground conductivity	1
Day-time operation	
Height of the Antenna above ground level	68 m
Antenna type	A
Necessary bandwidth	15 kHz
Class of emission	A3E-
Transmission system	Analog
Adjacent channel protection ratio	9
Power to antenna	0.100 kW
Maximum Effective monopole radiated power	-9.7 dB (kW)
Night-time operation	
Height of the Antenna above ground level	68 m
Antenna type	A
Necessary bandwidth	15 kHz
Class of emission	A3E-
Transmission system	Analog
Adjacent channel protection ratio	9
Power to antenna	0.100 kW
Maximum Effective monopole radiated power	-9.7 dB (kW)

International Telecommunication Union

Exercises

- **LFMF 02: LF/MF sound broadcasting assignment**

Prepare an electronic notice file of frequency 1 107 kHz assigned to a sound broadcasting station, for its recording in the GE75 Plan.

To prepare this notice we will use the “New Notice” functionality of TerRaNotices and we will select VTN as the notifying administration.

Transmitting antenna site name	Ho Chi Minh
Coordinates of the transmitting antenna site	106° 38'00''E 10° 51'0''N
Ground conductivity	10
Day-time operation	
Antenna type	B
Necessary bandwidth	10 kHz
Class of emission	A3E-
Transmission system	Analog
Adjacent channel protection ratio	5
Power to antenna	100 kW
Maximum Effective monopole radiated power	26 dB (kW)
Night-time operation	
Antenna type	B
Necessary bandwidth	10 kHz
Class of emission	A3E-
Transmission system	Analog
Adjacent channel protection ratio	5
Power to antenna	100 kW
Maximum Effective monopole radiated power	26 dB (kW)

Exercises

Azimuths in 10 º intervals	Antenna Gain Day-time	Antenna Gain Night-time	Night-time operation Antenna Gain in the vertical plane								
			10º	20º	30º	40º	50º	60º	70º	80º	90º
0º	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
10º	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
20º	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
30º	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
40º	6	6	6	4	1	-3	-8	-16	-24	-34	-44
50º	6	6	6	4	1	-3	-8	-16	-24	-34	-44
60º	6	6	6	4	1	-3	-8	-16	-24	-34	-44
70º	5	5	5	3	0	-4	-9	-17	-25	-35	-45
80º	5	5	5	3	0	-4	-9	-17	-25	-35	-45
90º	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
100º	3	3	3	1	-2	-6	-11	-19	-27	-37	-47
110º	2	2	2	0	-3	-7	-12	-20	-28	-38	-48
120º	1	1	1	-1	-4	-8	-13	-21	-29	-39	-49
130º	0	0	0	-2	-5	-9	-14	-22	-30	-40	-50
140º	-1	-1	-1	-3	-6	-10	-15	-23	-31	-41	-51
150º	1	1	1	-1	-4	-8	-13	-21	-29	-39	-49
160º	2	2	2	0	-3	-7	-12	-20	-28	-38	-48
170º	3	3	3	1	-2	-6	-11	-19	-27	-37	-47
180º	3	3	3	1	-2	-6	-11	-19	-27	-37	-47

Exercises

Azimuths in 10 ° intervals	Antenna Gain Day-time	Antenna Gain Night-time	Night-time operation Antenna Gain in the vertical plane								
			10°	20°	30°	40°	50°	60°	70°	80°	90°
190°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
200°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
210°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
220°	5	5	5	3	0	-4	-9	-17	-25	-35	-45
230°	5	5	5	3	0	-4	-9	-17	-25	-35	-45
240°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
250°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46
260°	3	3	3	1	-2	-6	-11	-19	-27	-37	-47
270°	2	2	2	0	-3	-7	-12	-20	-28	-38	-48
280°	2	2	2	0	-3	-7	-12	-20	-28	-38	-48
290°	0	0	0	-2	-5	-9	-14	-22	-30	-40	-50
300°	0	0	0	-2	-5	-9	-14	-22	-30	-40	-50
310°	0	0	0	-2	-5	-9	-14	-22	-30	-40	-50
320°	1	1	1	-1	-4	-8	-13	-21	-29	-39	-49
330°	2	2	2	0	-3	-7	-12	-20	-28	-38	-48
340°	3	3	3	1	-2	-6	-11	-19	-27	-37	-47
350°	4	4	4	2	-1	-5	-10	-18	-26	-36	-46

Exercises

- **LFMF 03: Request of publication in Part B**

Prepare an electronic notice file for notifying the publication of a notice in Part B GE75 Plan for the following notice.

Coordinates of the transmitting antenna site	**138° 36'04"E - 35° 15'32"N**
Assigned Frequency	**1188 kHz**

To prepare this notice we will use the **"Generate TB notices"** functionality of TerRaNotices and we will select J as the notifying administration.

The electronic notices prepared should be submitted to the BR via the WISFAT interface, which is accessible from the following address http://www.itu.int/en/ITU-R/terrestrial/tpr/Pages/Submission.aspx.

Please indicate that the submission is for test purposes in the remarks field on the WISFAT.

To connect to the WISFAT interface, the generic TIES username "wrsterre@ties.itu.int" and password "WRS2010" shall be used.

International Telecommunication Union

Any questions?