

BR-SSD e-Learning Center

Notification of Earth Stations

<u>Request for Notification of an Earth</u> <u>station– Radio Regulations</u>

Section I of Article 11 : Notification

● 11.2 :

- Any frequency assignment to a transmitting station and to its associated receiving stations shall be notified to the Bureau
- After the completion of the coordination procedure with the concerned Administrations under 9.17 (Coordination of earth stations)



Coordination of earth stations (9.17)

Coordination request (9.17) should not be sent to the Bureau

It is recommended to use SpaceCap software for the submission of the coordination request to the affected Administrations

Coordination of earth stations (9.17)

Notice Id: 3 AP4/II and AP4/III (Appendix 4 - Annex 2A)	22.11.2012 Status 01			
-Notice submitted under:				
○ No. 11.2 Notification [○ First Notification ○ Resubmission]	O RR1488 Notification			
C No. 9.6 Coordination Co. 9.11A Applies	O RR1060 Request for Coordination SS46 Applies			
C No. 9.7A Specific Receive GSO FSS Earth stn Coordination	O RR1107 Request for Coordination			
No. 9.17 Coordination amongst Administrations	O RR1610 Agreement Under Art. 14			
Administration Administration Administration Alf1.Notifying Administration Alf2. Notice submitted on behalf of these administrations. X Type of Satellite Network or Earth Station	Notice intended for Addition Modification Suppression BR Identification No. of Station to be modified/suppressed			
GeoStationary Satellite Network	© Specific Earth Station			
NonGeoStationary Satellite Network	C Typical Earth Station			

Rules concerning Receivability

- Associated space station must already be notified
- Provide the correct name used in BR databases
- Check also the beam names/ if the frequency bands are covered by the bands used by the space station

Common Errors

Space station name/beam name/ frequency band not covered

- Missing horizon elevation angle
- Missing minimum angle of elevation
- Missing coordination area diagram
- Missing antenna diameters when required
- Missing antenna radiation patterns
- Missing coordination agreements

<u>Reasons for unfavorable findings</u> (Part III-S): examples of paragraphs

	Notes for return of notices for earth station	
Provision	Examples of paragraphs	Resubmission Within 6 months
A N - X/9.17 X	With respect to the frequency assignment groups Nos. () of your earth station (), it is noted that the <u>coordination</u> procedure under No. 9.17 has not been shown as completed with the Administrations of () since the coordination area of your earth station includes the territories of those Administrations (see coordination contours attached). Thus, an unfavorable finding with respect to No. 11.32 has been reached and the notice in question is being returned to you in conformity with No. 11.37 . Should the notice <u>be resubmitted with the indication that coordination has been successfully completed with the Administration(s) mentioned above, a favorable finding might result.</u> However, these being frequency assignments for reception, your Administration may be prepared to accept the interference resulting from existing and future terrestrial stations of the countries concerned. In this event, should your Administration resubmit the notice concerned and insist upon its reconsideration, the assignment will be recorded in the Master Register; symbol "H" will be inserted in Column 13B2 as well as AP5 PARA 6E(III) in the column reserved for coordination information.	Yes
A N - X/9.7 X No SS subject to <u>coord</u> .)	With regard to the frequency assignment groups Nos. () of your earth station (), it is noted that the corresponding frequency assignments of the associated space station () have not yet been communicated to the Radiocommunication Bureau for recording. Thus, these frequency assignments have been given an unfavourable finding with respect to No. 11.32 (see paragraph 2.1.2.1 of the Rules of Procedure relating to No. 11.32) and the notice in question is being returned to you in conformity with No. 11.37 . Once the corresponding assignments of the associated space station have been notified and recorded in the Master Register, it will be possible to examine again your earth station notice.	Yes
A N - X/9.7 X Outside SA	With respect to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>station is</u> outside the service area of the transmitting/receiving beam () of the associated space station (). Consequently, your earth station frequency assignments have been given an unfavorable finding with respect to No. 11.32 (see paragraph 2.1.3 of the Rules of Procedure relating to No. 11.32) and the notice in question is being returned to you in conformity with No. 11.37 .	Yes
N X/ROP RCV4.4	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>associated</u> <u>space station () does not have any valid publication in the Radiocommunication Bureau</u> . As stated in paragraph 2.1.2.1 of Rules of Procedure relating to No. 11.32 , starting from the principle that the leading element of a space network is the space station and that it would be misleading to record in the Master Register earth stations for which a space station (network) is not recorded, the Radio Regulation Board decided that an earth station cannot be recorded in the Master Register before its associated space station. In view of the above, according to Rules of Procedure, paragraph 4.4 of "Rules concerning the <u>Receivability</u> , of forms of notice generally applicable to all notified assignments submitted to the <u>Radiocommunication</u> Bureau in application of the Radio Regulatory Procedures relating to space services" the subject notice is not receivable.	Yes

<u>Reasons for unfavorable findings</u> (Part III-S): examples of paragraphs

PFD limits No. 21.16	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>value of</u> <u>the power flux-density</u> at the earth's surface produced by emissions from the space station () <u>exceeds the limits</u> <u>specified in No. 21.16</u> . Consequently, an <u>unfavorable</u> finding with respect to No. 11.31 has been reached, and the notice in question is being returned to you in conformity with No. 11.36.	No
Min. elev. angle No. 21.14	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>minimum</u> <u>elevation angle</u> of your earth station () <u>does not meet the limit specified in No. 21.14</u> . Thus, the frequency assignments of this earth station have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
eirp density limits No. 5.503	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>e.i.r.p.</u> <u>density</u> of emissions from earth stations <u>is not within the limits specified in No. 5.503</u> . Thus, these frequency assignments have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
eirp limits No. 21.8	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>earth</u> <u>station e.i.r.p.</u> towards the horizon is not <u>within the limits specified in No. 21.8</u> . Thus, this frequency assignment of this earth station has been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
Min. elev. angle No. 21.15	With respect to the frequency assignments groups Nos. () of your earth station (),, it is noted that the <u>minimum</u> <u>elevation angle</u> of the earth station <u>does not meet the limit specified in No. 21.15</u> (for space research service). Thus, the frequency assignments of this earth station have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
eitp No. 22.26	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>off-axis</u> <u>e.i.r.p</u> from the earth station <u>is not within the limits specified in No. 22.26</u> . Thus, this assignment has been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
No. 4.5	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>frequency assignments overlap a band not allocated to the service concerned</u> (see No. 4.5 and its related Rules of Procedure). Consequently, an <u>unfavourable</u> finding with respect to No. 11.31 has been reached and the notice in question is being returned to you in conformity with No. 11.36 .	No

<u>Guidance for the exercise</u> <u>Notification Earth station</u>

Please Validate the file Notif_SEMINAR_ES_with_Errors.mdb (can be found on\Workshop\Space\SPR\5 NOTIFICATION_EARTH STATION

Launch SpaceVal/Click on Open/Browse and select the database Notif_SEMINAR_ES_with_Errors.mdb/select the correct notice ID/Click Validate/Click Report

Validation report

Section 2012 Contemporary Result for Network(s): 112505900



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Validation Report for Network: 112505900 On: 23.11.2012 @ 12:38:18 By Operator: FALOUDIN (notif_seminar_es_with_errors.mdb)

Network ID: 112505900 Adm: HOL Station name: SEMINAR_ES Satellite name: ITUSAT Orbital Pos: 7.00*

Validation Message Counts: Total:	9, Fatals: 5,	Warnings: 3;	Message Option: All
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Beam Name	E / R	Group ID	Row No	ltem Number	Rule ID	Severity Code	Table Name	Field Name	Field Value	Validation Error Message
Americanic				0		A				VALIDATION COMPLETED; v7.0; ERRORS F/W:
				1000	2	W	e_stn	stn_name	EMINAR_E	Invalid earth station name (not in reference table)
				1011	2	W	e_stn	sat_name	ITUSAT	Invalid Value (not in reference table)
		5		1014	4	F	e_stn	elev_min		Value missing for station-type = S (geo) or R
KR1	E			1037	3	F	e_ant	attch_e		Value missing and item 1045 not provided
KR1	E			1045	3	F	e_ant	pattern_id		Value missing and item 1037 not provided
KR1	E	1		1603	3.2	W	grp	d_inuse	05.12.1994	For <n> filing, date < date-of-receipt - 3 months</n>
KR1	E	1	1	1621	2	F	provn	coord_prov	9.7	Invalid value
KR1	E	1	1	1623	3	F	provn	adm		Value missing; incompatible with item 1621

Correction of fatal errors

- Minimum elevation angle (A7b1) = 30 degrees
- Horizon elevation angle (A7a) = 0 degree for all azimuths (ex: azimuth 0/90/180/270)
- Antenna radiation pattern (B5c) = REC-580-6
- Coordination obtained (A5/A6) = 9.17 | O | BEL Instead of 9.7 (coordination of space stations)

Validation Report (no fatal errors)

QuickQuery Result for Network(s): 112505900



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Validation Report for Network: 112505900 On: 23.11.2012 @ 12:58:48 By Operator: FALOUDIN (notif_seminar_es_clean.mdb)

Network ID: 112505900 Adm: HOL Station name: SEMINAR_ES Satellite name: ITUSAT Orbital Pos: 7.00*

Validation Message Counts: Total: 3, Fatals: 0, Warnings: 2; Message Option: All

Beam Name	E/R	Group ID	Row No	ltem Number	Rule ID	Severity Code	Table Name	Field Name	Field Value	Validation Error Message
				0		А				VALIDATION COMPLETED; v7.0; ERRORS F/W:
				1000	2	W	e_stn	stn_name	EMINAR_E	Invalid earth station name (not in reference table)
				1011	2	W	e_stn	sat_name	ITUSAT	Invalid Value (not in reference table)