

AMERICAS REGIONAL RADIOCOMMUNICATION SEMINAR 2013

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Fixed-Satellite Service Plan (Appendix 30B)

Presented by Jorge Ciccorossi Space Services Department Radiocommunication Bureau



FSS Plan in Appendix 30B

Adopted by WARC ORB-88

(World Administrative Radio Conference on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing It)

Modified by WRC-07 (World Radio Conference)

- to improve its efficiency and
- reflect the development of technology

Objective:

to **guarantee** in practice, for all countries, **equitable access** to the geostationary-satellite orbit in the frequency bands of the fixed-satellite service covered by Appendix 30B

Frequency Bands of the FSS Plan

6 / 4 GHz (300 MHz)

6725 - 7025 MHz (up)

4500 - 4800 MHz (down)

13 / 10-11 GHz (500 MHz) 12.75 - 13.25 GHz (up) 10.70 - 10.95 GHz (down) 11.20 - 11.45 GHz (down)

Elements of the FSS Allotment PLAN

- Nominal orbital position
- Frequency:

bandwidth of 800MHz × 2 (uplink and downlink)

• Service area:

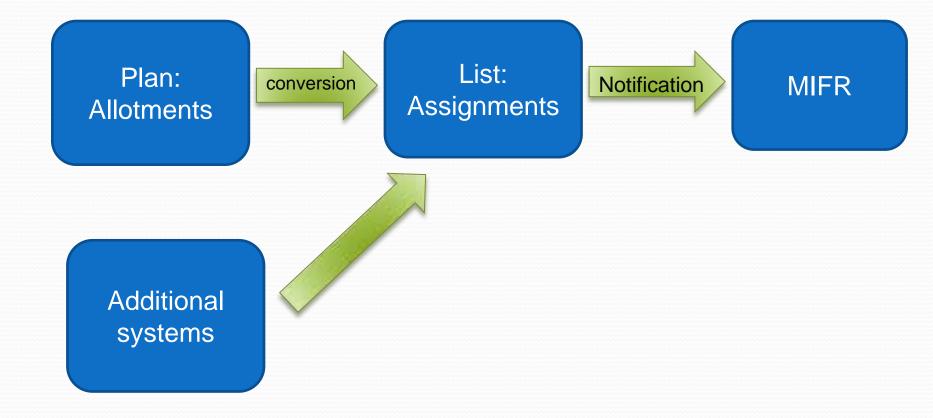
national coverage

Technical characteristics:

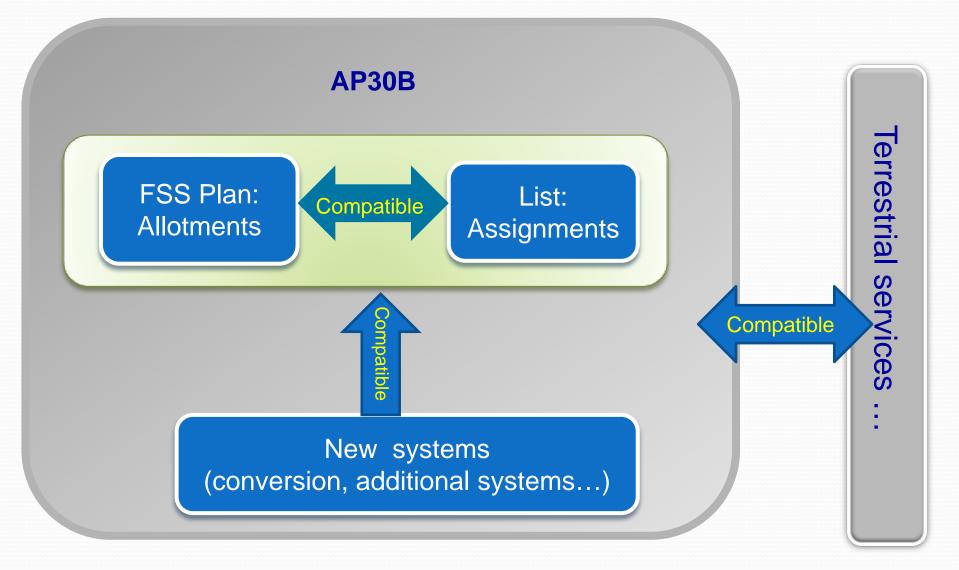
power levels, ellipse parameters, and other standard characteristics...

(described in Article 10 and Annex 1 of AP30B)

Appendix 30B procedure



COMPATIBILITY analysis



	-	
Article 1	Objective of the provisions and associated Plan	
Article 2	Definitions	
Article 3	Frequency bands	
Article 4	Execution of the provisions and associated Plan	
Article 5	(SUP – WRC-07)	
Article 6	Procedures for the conversion of an allotment into an assignment, for the introduction of an additional system or for the modification of an assignment in the List	
Article 7	Procedure for the addition of a new allotment to the Plan for a new Member State of the Union	
Article 8	Procedure for notification and recording in the Master Register	
Article 9	General provisions	
Article 10	FSS Plan	
Article 11	Period of validity of the provisions and associated Plan	

Appendix 30B (II)

Annex 1	Parameters used for FSS allotment Plan		
Annex 2	(SUP – WRC-07)		
Annex 3	PFD Limits		
Annex 4	considered to be affected	hether an allotment or an assignment is	
	PFD limits for both uplink and downlink	Single entry (uplink & downlink) and aggregate <i>C/I</i>	

Article 7 – New Allotment

New ITU Member States can obtain a national allotment

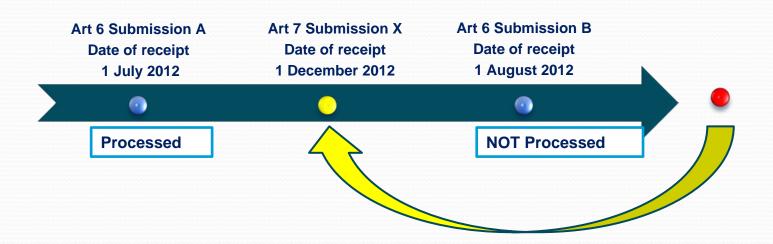
Required information:

- Geographical coordinates of 20 test points (max.)
- Height above sea of each test point
- Any special requirement

The Bureau identifies and proposes orbital locations with associated technical parameters

Article 7 – New Allotment

Processing ahead of pending submissions for Article 6



In case of incompatibility, Article 6 procedure applies

Article 6 – entry into the List

8 years Regulatory period from receipt of Article 6 submission

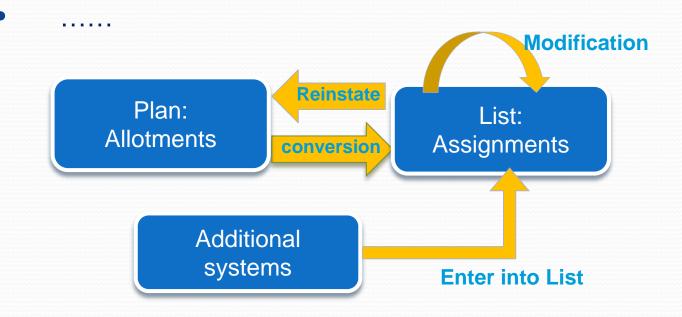
- to complete Article 6 procedure to be included in the List
- to bring into use assignments (confirmation through notification procedure with in 30 days)
- to submit due diligence information (Res.49)
- can be extended to max. 3 years in case of launch failure (WRC-12)



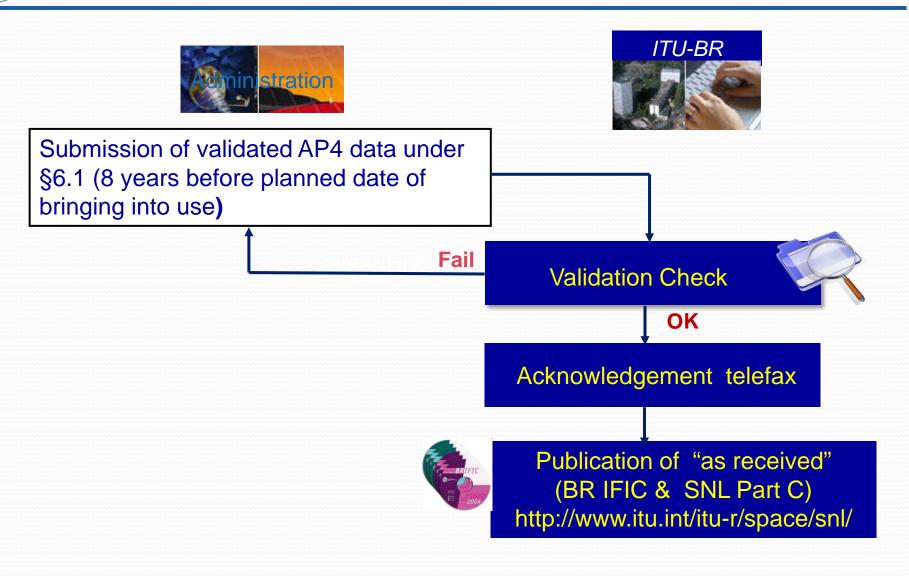
Article 6 – entry into the List

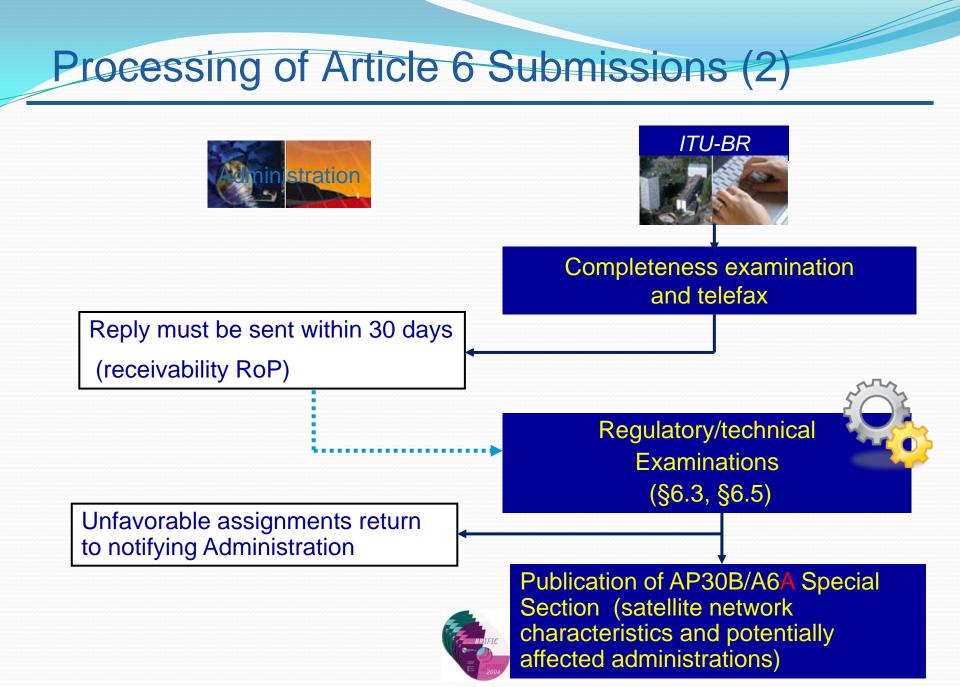
Procedure applicable for :

- Conversion of an allotment into an assignment
- Introduction of an additional system
- Modification of an assignment in the List



Processing of Article 6 Submissions (1)





Processing of Article 6 Submissions (3)





Administrations should examine each BR IFIC to see if their assignments are affected and respond within 4 months

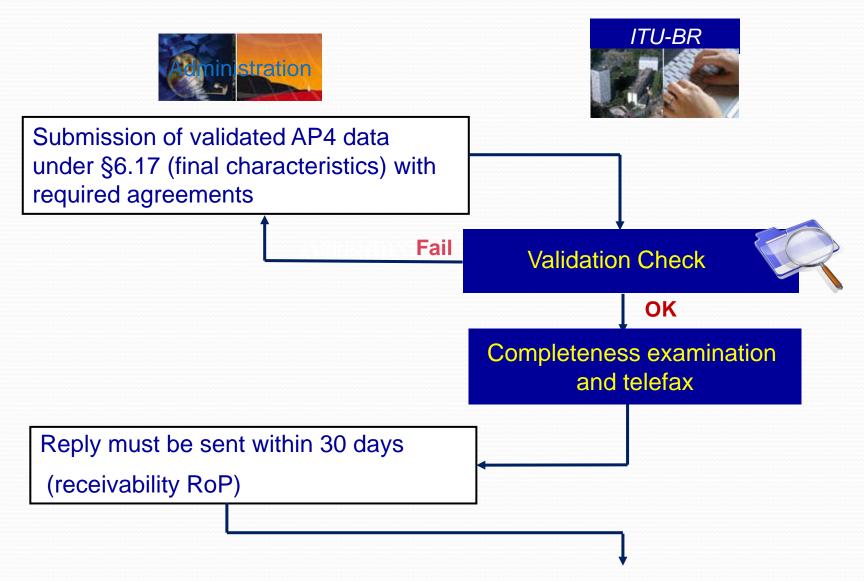


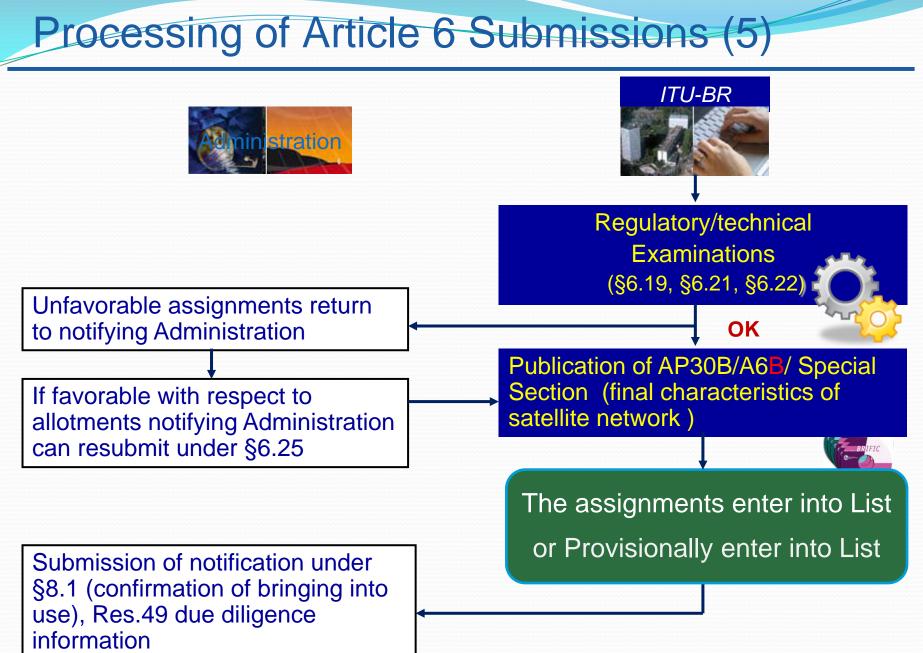
Affected administrations that do not comment within the 4 month period are deemed to have NOT agreed

Notifying administration can request assistance of the BR to receive replies from affected administrations The BR sends reminders to the affected administration which has not replied

No response from Affected administrations to the BR's reminders is considered as agreement

Processing of Article 6 Submissions (4)





Summary of publications of Article 6

Special Section AP30B/A6A/:

Proposed characteristics;

List of affected networks and administrations (coordination Requirement)

Special Section AP30B/A6B/:

Final Characteristics (protected characteristics in the subsequent examinations);

> BR findings; Enter in the List ?

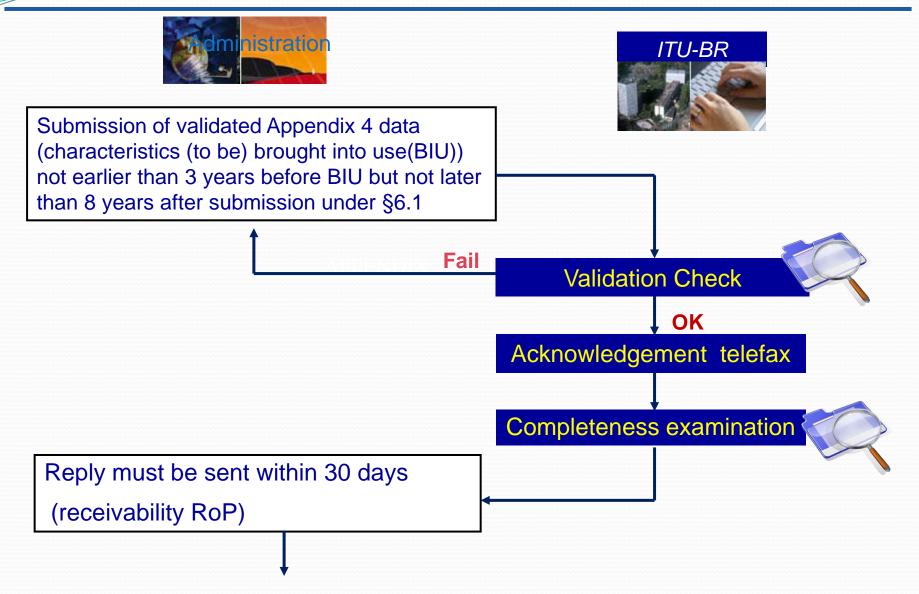
Article 8 – Notification of assignments

Art.6 procedure successful

submitting notification under Art. 8

- Final characteristics for List assignments to be recorded in MIFR (not taken into account in subsequent technical examinations under Articles 6, 7 and 8)
- Confirmation of the date of bringing into use (90 days operation)
- If not submitted then cancellation of Article 6 submission

Processing of Article 8 Submissions (1)



Processing of Article 8 Submissions (2)





Publication of Part IS of BR IFIC that contains the characteristics (to be) brought into use

Regulatory/technical

examination



Unfavourable

Publication of Part IIS

Favourable

Record in MIFR http://www.itu.int/sns/ Publication of Part IIIS http://www.itu.int/sns/



Useful Website Addresses

For more information

http://www.itu.int/en/ITU-R/space/plans/Pages/AP30B.aspx

Latest AP30B database with Plan, List and MIFR

http://www.itu.int/ITU-R/go/space-plans/en General information relating to space plan services

http://www.itu.int/ITU-R/space/snl/index.html SNL On-Line; list of published networks, networks in the backlog

Gracias por su Atencion !

