Fixed-Satellite Service Plan (Appendix 30B)

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BR/SSD/SCC

Appendix 30B - FSS Plan

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

Appendix 30B (I)

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	Plan
Article 11	Period of validity of the provisions and associated Plan

Appendix 30B (II)

Annex 1	Parameters used in characterizing the fixed-satellite service allotment Plan
Annex 2	(SUP – WRC-07)
Annex 3	Limits applicable to submissions received under Article 6 or Article 7
Annex 4	Criteria for determining whether an allotment or an assignment is considered to be affected

PFD limits for both uplink and downlink

Single entry (uplink & downlink) and aggregate *C/I*

Allotment PLAN

Elements of allotment:

- **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)

Frequency Bands

6 / 4 GHz
(300 MHz)

6725 - 7025 MHz (up)

4500 - 4800 MHz (down)

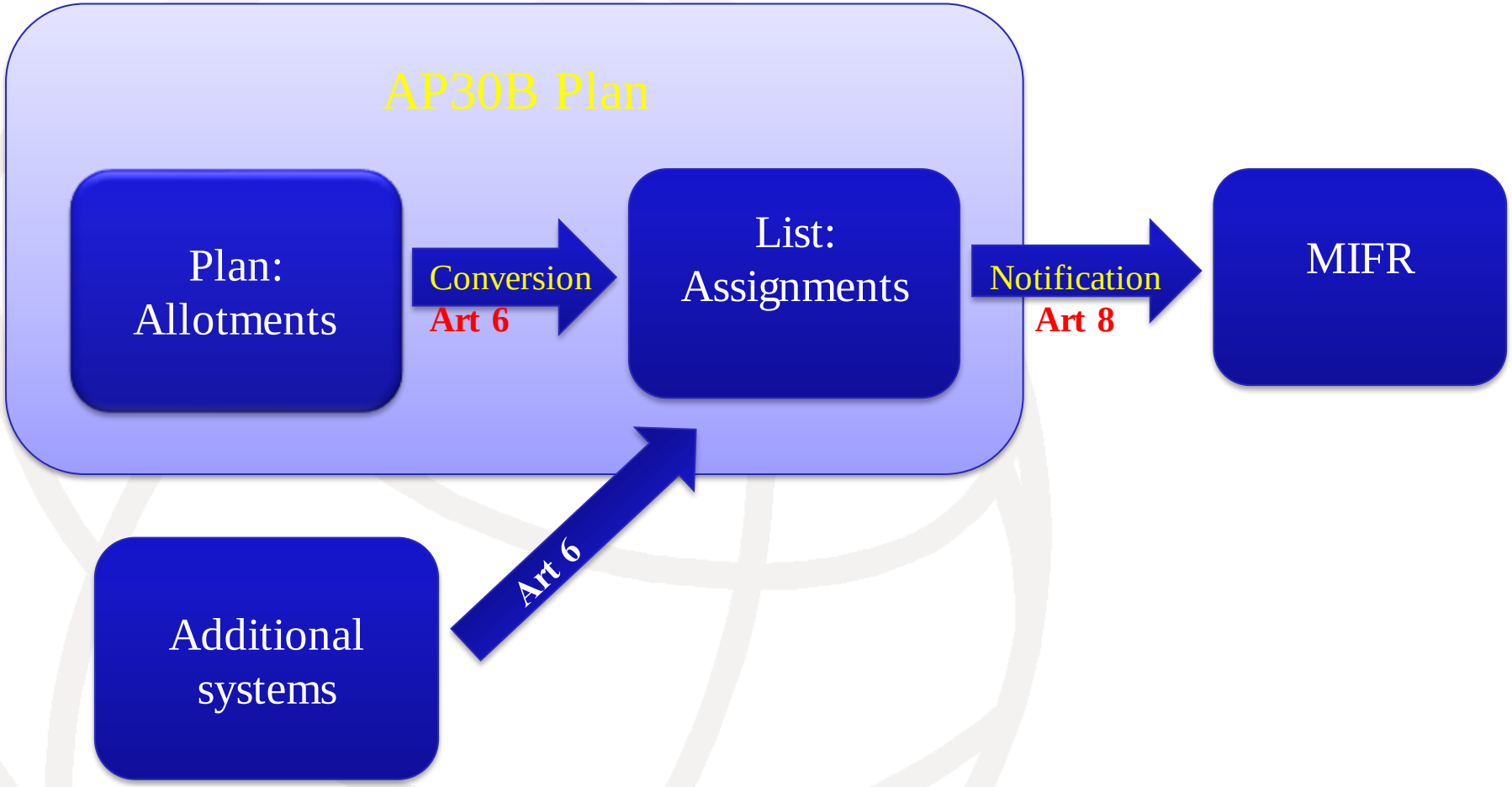
13 / 10-11 GHz
(500 MHz)

12.75 - 13.25 GHz (up)

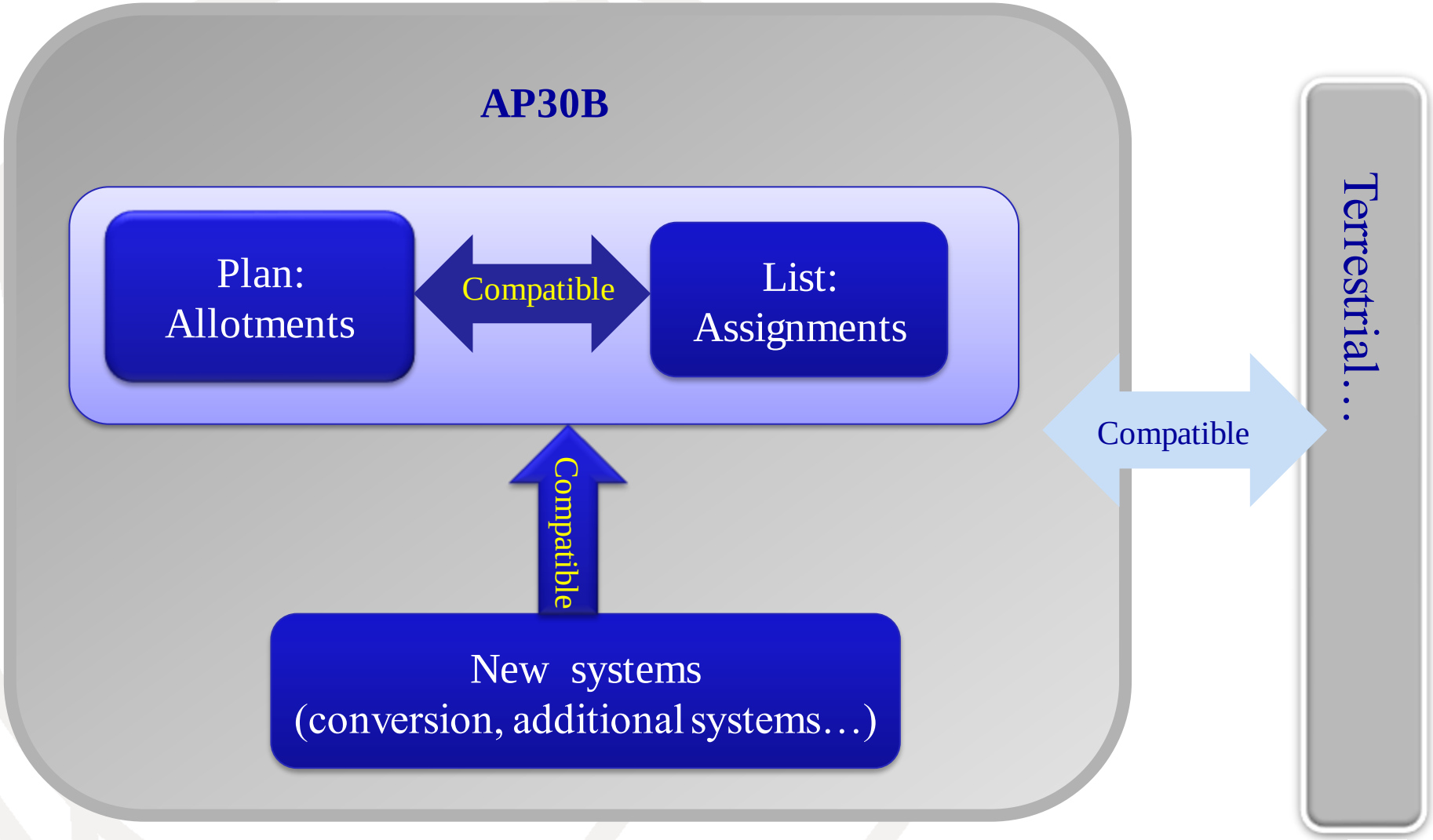
10.70 - 10.95 GHz (down)

11.20 - 11.45 GHz (down)

Article 6 Conversion of an allotment, addition and modification of an assignment in the list



COMPATIBILITY



Article 7 – New Allotment

A new Member State can obtain a national allotment in the Plan.

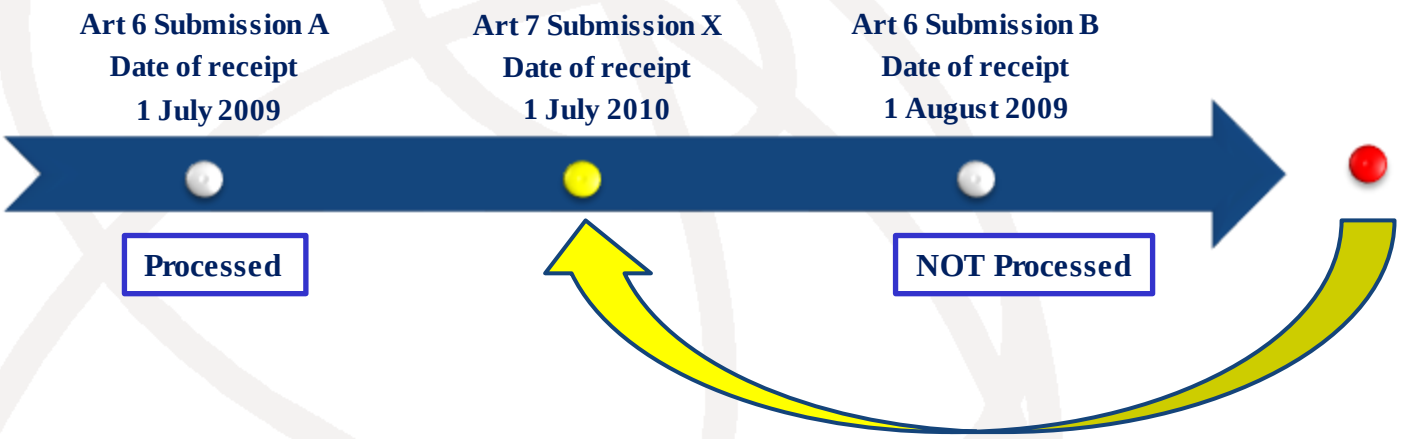
Required information:

- Geographical coordinates of 20 test points (max.)
- Height above sea of each test point
- Any special requirement, other than a fixed orbital position

The Bureau identifies the proposed orbital locations with associated technical parameters

Article 7

Processing the request ahead of pending submissions for Article 6

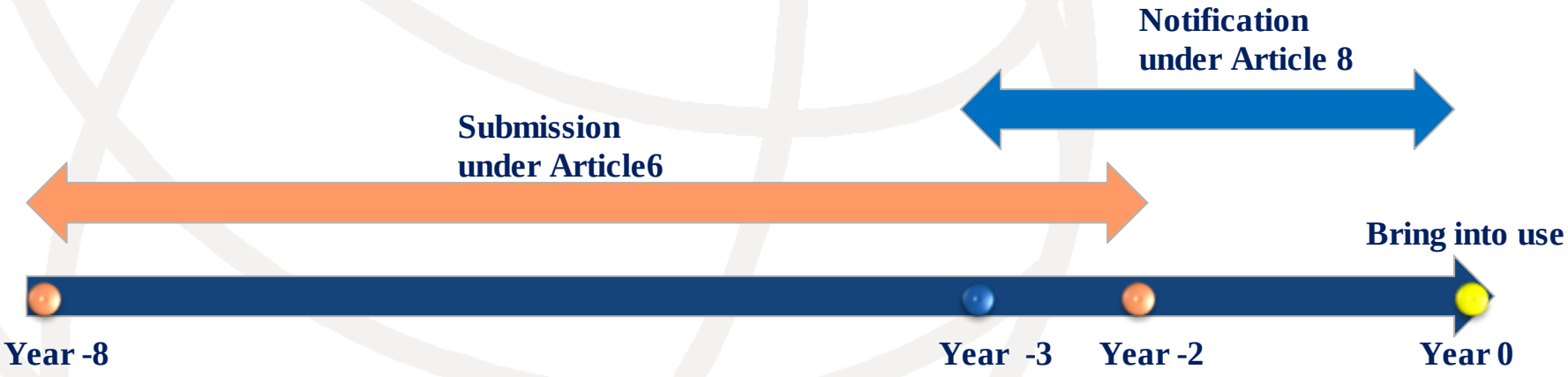


In case of incompatibility the request will be placed ahead of pending submissions Article 6, and Article 6 procedure applies

Article 6

8 years Regulatory period from receipt of Article 6 submission

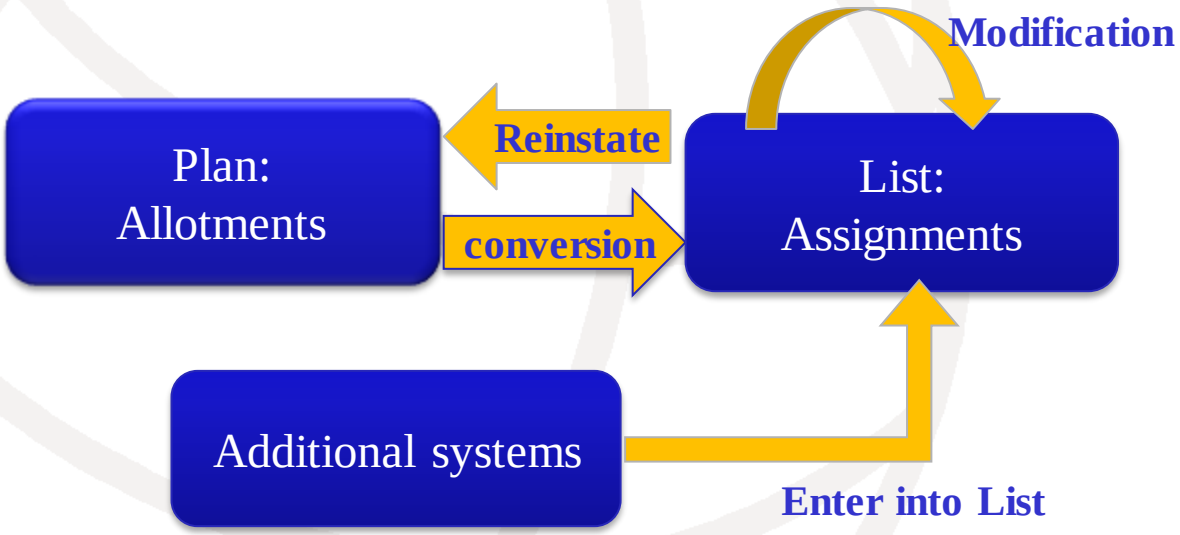
- to complete Article 6 procedure to be included in the List
- to bring assignments into use (confirmation through notification procedure)
- to submit due diligence information (Res.49)



Article 6

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)

Submission of validated AP4 data under §6.1 (8 years before planned date of bringing into use)

Fail

Validation Check

OK

Acknowledgement telefax

Publication of "as received"
(BR IFIC & SNL Part C)
http://www.itu.int/itu-r/space/snl/

Processing of Article 6 Submissions (2)

Completeness examination and telefax

Reply must be sent within 30 days (receivability RoP)

Regulatory/technical Examinations (§6.3, §6.5)

Unfavorable assignments return to notifying Administration

Publication of AP30B/A6A Special Section (satellite network characteristics and potentially affected administrations)

Processing of Article 6 Submissions (3)

ITU-BR

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

NO SpaceCom!

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)

Submission of validated AP4 data under §6.17 (final characteristics) with required agreements

Fail

Validation Check

OK

Completeness examination and telefax

Reply must be sent within 30 days

(receivability RoP)

Processing of Article 6 Submissions (5)

Regulatory/technical Examinations (§6.19, §6.21, §6.22)

OK

Publication of AP30B/A6B/ Special Section (final characteristics of satellite network)

Unfavorable assignments return to notifying Administration

If favorable with respect to allotments notifying Administration can resubmit under §6.25

Provisionally enter into List

The assignments enter into List

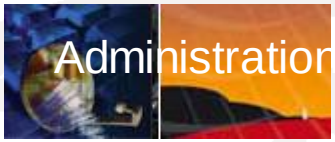
Submission of notification under §8.1 (confirmation of bringing into use), Res.49 due diligence information

Article 8 – Notification of assignments

Any assignment for which Article 6 procedure has been successfully applied shall be notified in accordance with Article 8 of AP30B

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

Processing of Article 8 Submissions (1)



Submission of validated Appendix 4 data (characteristics (to be) brought into use(BIU)) not earlier than 3 years before BIU but not later than 8 years after submission under §6.1

Fail

Validation Check

OK

Acknowledgement telefax

Completeness examination

Reply must be sent within 30 days

(receivability RoP)

Processing of Article 8 Submissions (2)

ITU-BR

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

Regulatory/technical examination

Favourable

Unfavourable

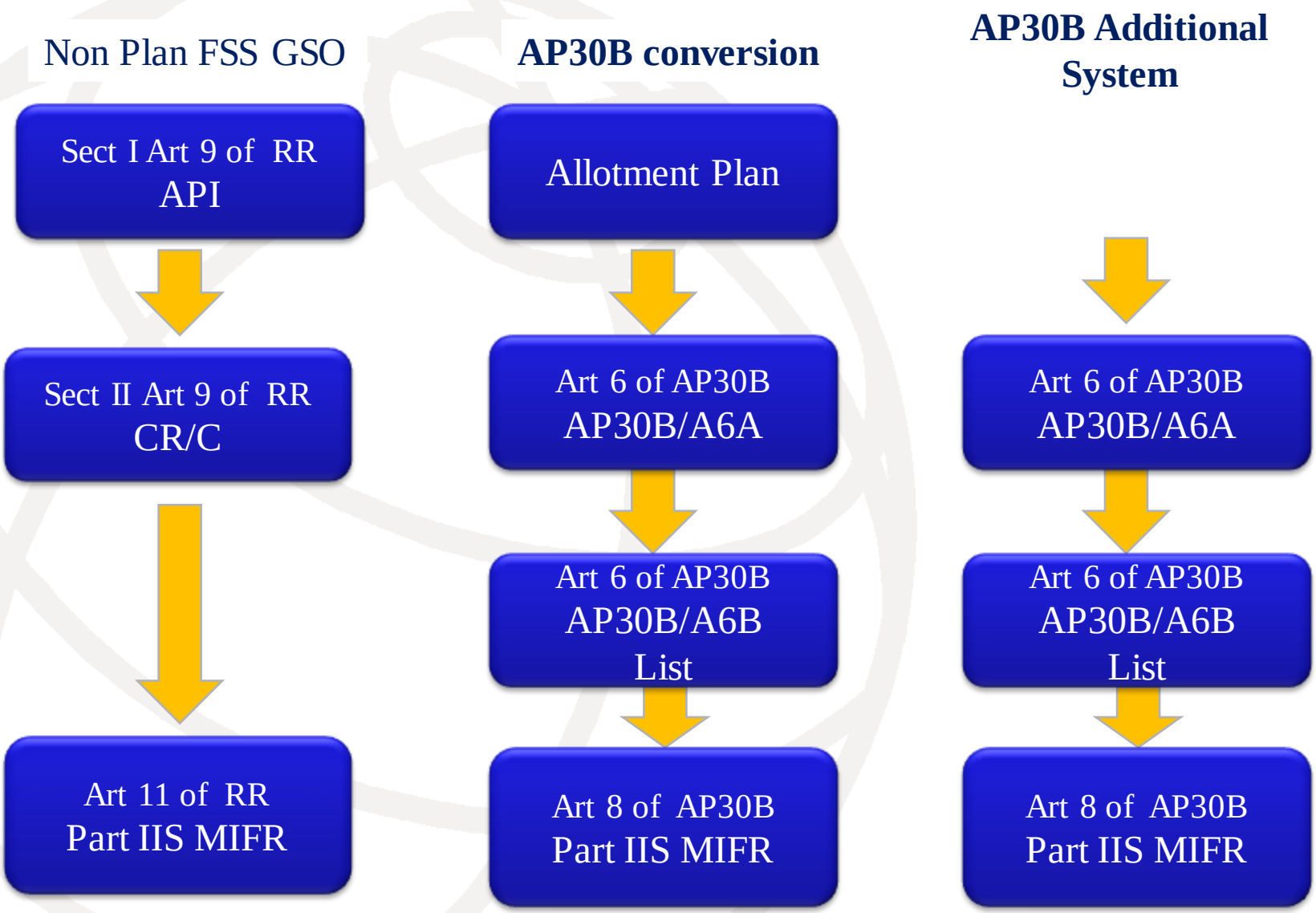
Publication of Part IIS

Record in MIFR
http://www.itu.int/sns/

Publication of Part IIIS

Record in MIFR
http://www.itu.int/sns/

AP30B and Non Plan procedures



AP30B and Non Plan procedures

	Non Plan GSO FSS	-Additional System -Conversion with modification	-Conversion without modification
Regulatory Period	7 years	8 years	8 years
Res. 49	Yes	Yes	Yes
API	Yes	NA	NA
Coordination Publication	CR/C	A6A	A6A
Inclusion in the List	NA	A6B	A6B
Notification	Yes	Yes but not for protection	Yes but not for protection
Service Area	Any	Any with agreement	National
To be compatible with	Previously filed	Allotment, List, previously filed	Already compatible
Identification	Both direction Single entry	One direction Single entry and aggregate	One direction Single entry and aggregate
No comment within 4 months	Assistance No.9.60	Assistance §6.13	NA

Useful Website Address

For more information

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

Latest AP30B database

http://www.itu.int/ITU-R/space/plans/index.html

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

Any Question?

Thank you