



**ITUWRS**  
ONLINE2020

29<sup>TH</sup> WORLD RADIOCOMMUNICATION SEMINAR  
30 November – 11 December 2020

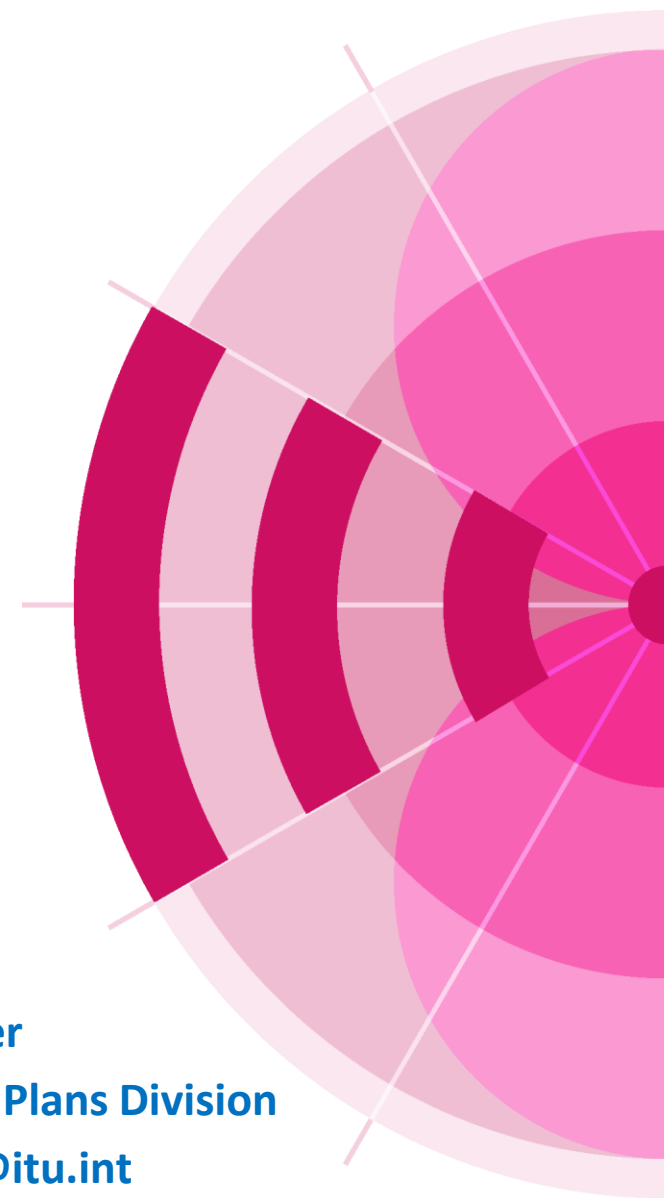
# AP30B examinations

ITU/BR/SSD

[www.itu.int/go/wrs-20](http://www.itu.int/go/wrs-20)

#ITUWRS

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# AP30B examinations

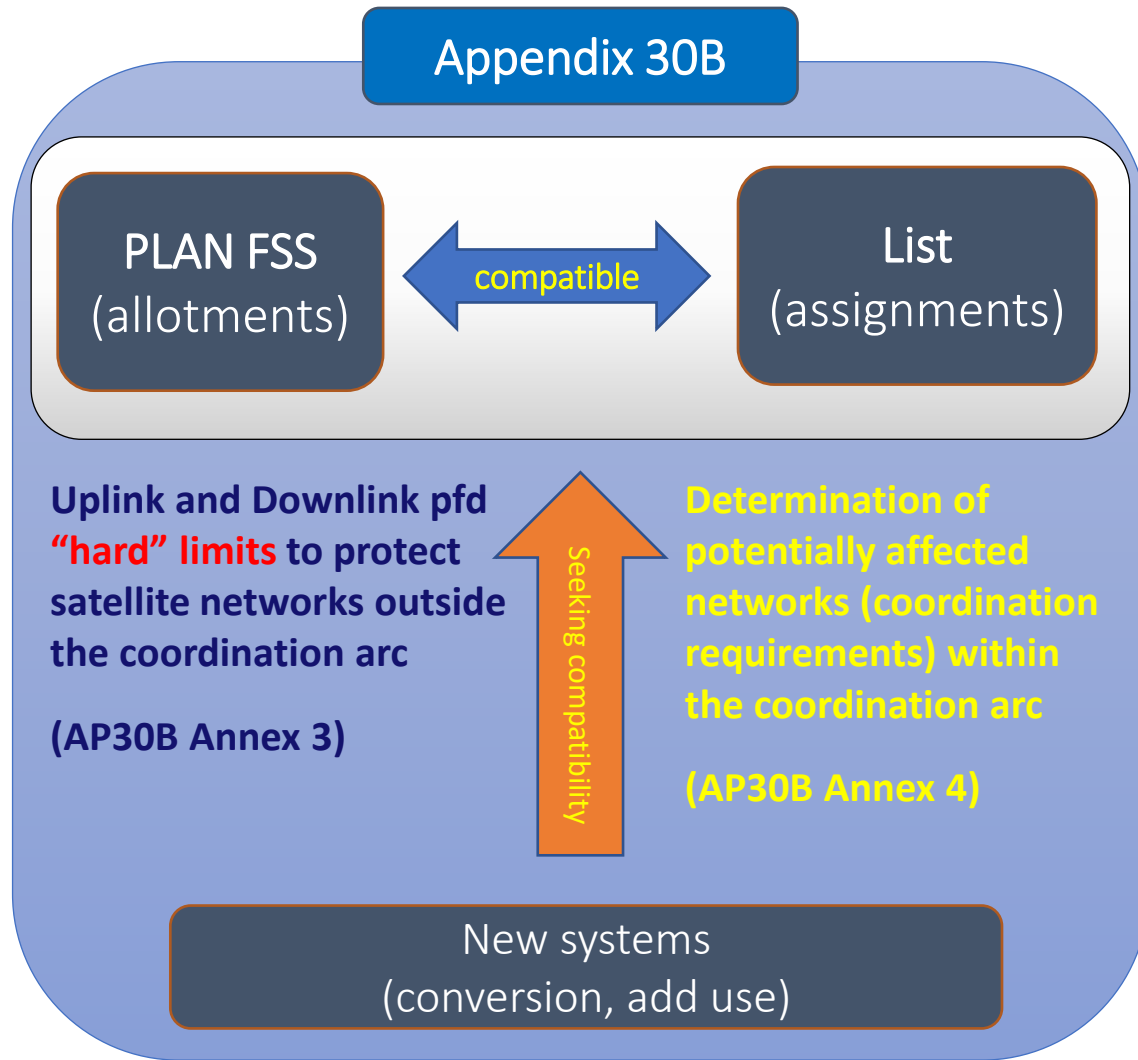
Different types of exam and their goals

AP30B examinations (subject of AP30B/A6A)

AP30B examinations (subject of AP30B/A6B)

Recommendations for a notifying administration how to be  
prepare for exam

# Different types of exam and their goals



Terrestrial Services

## Article 21 RR – “Hard” limits to protect terrestrial services

**No 21.8** Power limits for Earth Stations

**No 21.14** Minimum angle of elevation of Earth Station (3°)

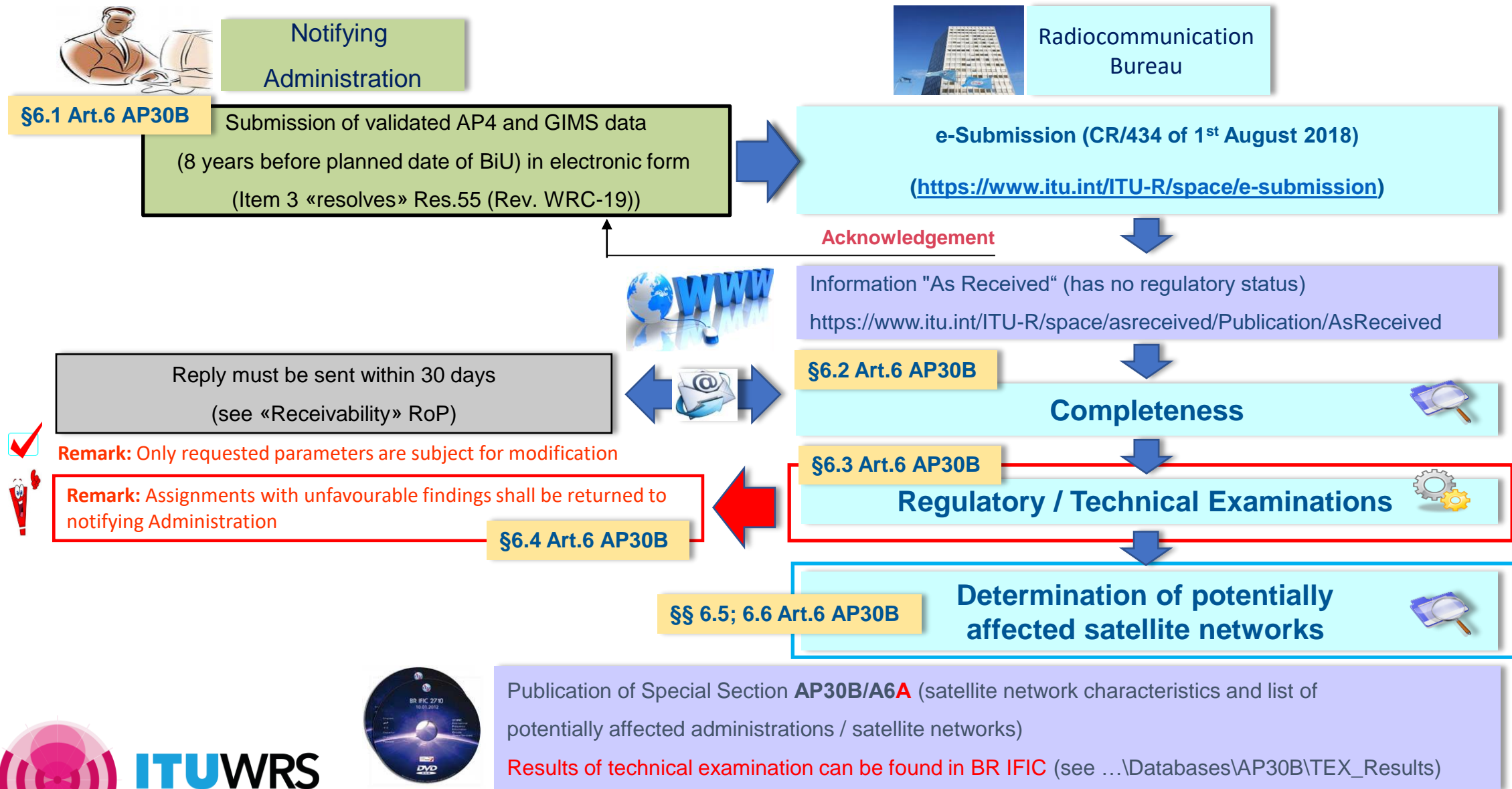
**No 21.16** Limits of power flux-density from space stations

## Article 22 RR – “Hard” limits to control interference to GSO systems

**No 22.26** Off-axis power limits on Earth Station of a geostationary-satellite network in the Fixed-Satellite Service (12.75-13.25GHz)

# **AP30B examinations (subject of AP30B/A6A)**

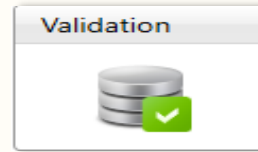
# Processing of AP30B/A6A Submissions



# AP30B examinations (subject of AP30B/A6A)

§ 6.3 Art.6 AP30B

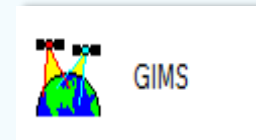
BR Space Software:



Main interested Body: Notifying administrations / satellite operators

§6.5 Art.6 AP30B

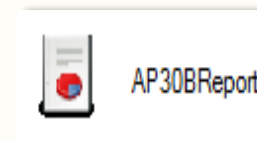
BR Space Software:



Main interested Body: ALL administrations

§6.6 Art.6 AP30B

BR Space Software:



Main interested Body: ALL administrations

# AP30B examinations (subject of AP30B/A6A)

§ 6.3 Art.6 AP30B

BR Space Software:

Validation



GIBC

Main interested Body: Notifying administrations / satellite operators



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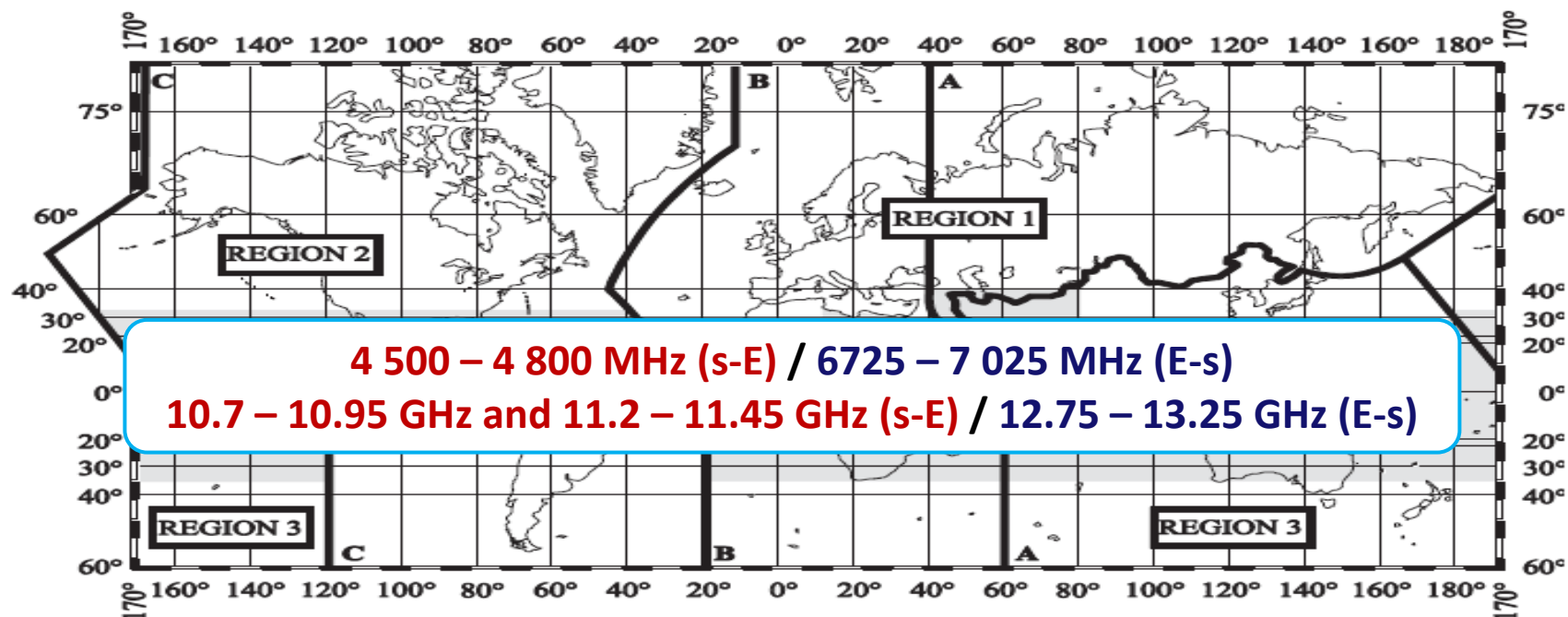
# AP30B examinations (subject of AP30B/A6A)

Examination results (under § 6.3 of AP30B) and BR Notes

In respect to conformity with:

The Table of Frequency Allocations and *the other provisions* of the RR

Plan for FSS («Appendix 30B»)



Examined by



§ 6.3 Art.6 AP30B



# AP30B examinations (subject of AP30B/A6A)

## Examination results (under § 6.3 of AP30B) and BR Notes

In respect to conformity with:

The Table of Frequency Allocations and the other provisions of the RR

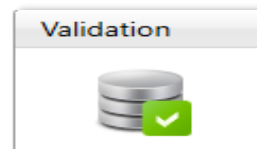
**Article 21 of RR, in particular in respect to provisions of:**

- => Section III (“Power limits for earth stations”);
- => Section IV (“Minimum angle of elevation of earth stations”);
- => Section V (“Limits of power flux-density from space stations”)

**Article 22 of RR, in particular in respect to provisions of:**

- => Section III (“Station keeping of space stations”);
- => Section IV (“Pointing accuracy of antennas on GEO satellites”);
- => Section VI (“Off-axis power limits on earth stations of a GEO satellite network in the FSS”)

Examined by



§ 6.3 Art.6 AP30B

# AP30B examinations (subject of AP30B/A6A)

## Examination results (under § 6.3 of AP30B) and BR Notes

In respect to conformity with:

Annex 3 to AP30B

### Limits applicable to submissions received under Article 6 or Article 7<sup>15</sup>

Under assumed free-space propagation conditions, the power flux-density (space-to-Earth) of a proposed new allotment or assignment produced on any portion of the surface of the Earth shall not exceed:

- $-131.4 \text{ dB(W/(m}^2 \cdot \text{MHz))}$  in the frequency band 4 500-4 800 MHz; and
- $-118.4 \text{ dB(W/(m}^2 \cdot \text{MHz))}$  in the frequency bands 10.70-10.95 GHz and 11.20-11.45 GHz.

Under assumed free-space propagation conditions, the power flux-density (Earth-to-space) of a proposed new allotment or assignment shall not exceed:

- $-140.0 \text{ dB(W/(m}^2 \cdot \text{MHz))}$  towards any location in the geostationary-satellite orbit located more than  $7^\circ$  from the proposed orbital position in the frequency band 6 725-7 025 MHz, and
- $-133.0 \text{ dB(W/(m}^2 \cdot \text{MHz))}$  towards any location in the geostationary-satellite orbit located more than  $6^\circ$  from the proposed orbital position in the frequency band 12.75-13.25 GHz.

<sup>15</sup> These limits shall not apply to assignments submitted in accordance with Article 6 or recorded in the List before 23 November 2019. For assignments submitted under § 6.17 after 22 November 2019, related to assignments submitted under § 6.1 before 23 November 2019, the limits specified in Annex 3 (Rev.WRC-07) apply. (WRC-19)

# AP30B examinations (subject of AP30B/A6A)

## Examination results (under § 6.3 of AP30B) and BR Notes

This group is published for info only



BR7a Group id.	40464	BR1 Date of receipt	25.05.2016	2D Date of protection	
A3a Op. agency		A3b Adm. resp.	A		
BR62 Expiry date for bringing into use		BR64 Date of receipt of 1st Res49			
C1 Frequency Range					
C1a Lower limit	C1b Upper limit				
12750 MHz	13250 MHz				
C4a Class of station	EC				
C11a1 Service area no.	1	C11a4 Service area name	SAKA	C11a5e Min. elev. angle	
C11a5a Test points are identical to group id.	40425				
Associated typical earth station antenna characteristics					
C10d3 Max. iso. gain	C10d4 Bmwidth	C10d5a1a Co-polar ref. pattern	C10d5a1b Coef. A	C10d9 Ant. dim. (DGSO)	
42.7	1.33	APENST803V01	25		
Maximum Power density per Hz over ...					
C8b2 4 kHz	C8b Necessary bandwidth				
-33.3	-33.3				
Findings	13A Conformity with RR	N- -- --	13B1 Provision	X/22.26	



OK



Findings	13A Conformity with RR	A- -- --	13B1 Provision	
Findings	13A Conformity with RR	N- -- --	13B1 Provision	X/30B#6.3b
Findings	13A Conformity with RR	N- -- --	13B1 Provision	X/22.26
Findings	13A Conformity with RR	-- -- --	13B1 Provision	

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS BUREAU DES RADIOCOMMUNICATIONS		INTERNATIONAL TELECOMMUNICATION UNION RADIOCOMMUNICATION BUREAU		UNIÓN INTERNACIONAL DE TELECOMUNICACIONES OFICINA DE RADIOCOMUNICACIONES		© I.T.U.
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		F-SAT-30B-21.5E		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		AP30B/A6A/456
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		F	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	21.5 E	BR IFIC / DATE BR IFIC / DATE BR IFIC/ FECHA	2837 / 24.01.2017
NOTIFIÉ AU NOM DE NOTIFIED ON BEHALF OF NOTIFICADA EN NOMBRE DE				NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		116559020
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					25.05.2016	
Publication au titre des dispositions de l'Article 6 de l'Appendice 30B du Règlement des radiocommunications		Publication under provisions of Article 6 of Appendix 30B to the Radio Regulations		Publicación con arreglo a las disposiciones del Artículo 6 del Apéndice 30B del Reglamento de Radiocomunicaciones		
Renseignements concernant: [ X ] une fiche de notification reçue au titre du § 6.1, ou [ ] une fiche de notification considérée comme une soumission au titre du § 6.1 conformément au § 7.7 de l'Article 7.		Information regarding: [ X ] Notice received under § 6.1, or [ ] Notice treated as a submission under § 6.1 in accordance with § 7.7 of Article 7.		Información relativa a: [ X ] Notificación recibida con arreglo al § 6.1, o [ ] Notificación tramitada como una presentación con arreglo al § 6.1 de conformidad con el § 7.7 del Artículo 7.		
Examinés et publiés conformément aux dispositions suivantes de l'Article 6:		Examined and published in accordance with the following provisions of Article 6:		Examinada y publicada de conformidad con las siguientes disposiciones del Artículo 6:		
[ X ] Assignations examinées au titre des § 6.3, 6.5 et 6.6 et publiées au titre du § 6.7.		[ X ] Assignments examined under § 6.3, § 6.5 and § 6.6, and published under § 6.7.		[ X ] Asignaciones examinadas con arreglo al § 6.3, § 6.5 y § 6.6 y publicadas con arreglo al § 6.7.		
[ X ] Assignations examinées au titre du § 6.3 et retournées à l'administration notificatrice au titre du § 6.4.		[ X ] Assignments examined under § 6.3 and returned to the notifying administration under § 6.4.		[ X ] Asignaciones examinadas con arreglo al § 6.3 y devueltas a la administración notificante con arreglo al § 6.4.		



### Radiocommunication Bureau Notes

**Note relating to the return of assignments having favourable findings but without any favourable associated linked assignment**  
Assignments receiving a favourable finding that do not have any associated linked assignment with a favourable finding have also been returned

**Remark:** When the examination with respect to §6.3 leads to an unfavourable finding, the relevant part of the notice shall be returned to the notifying administration (under §6.4). Thus this part is not taken into account for further examinations under §§ 6.5 and 6.6.



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§6.4 Art.6 AP30B



# AP30B examinations (subject of AP30B/A6A)

## Recommendations for a notifying administration how to be prepare for exam under § 6.3 of AP30B

Version: C:\Program Files (x86)\ITU\BR\_Space\_v9.0\Gibc\PFD Examination type: H Output level: 1 Operator: klyuchar RATK\R

PFD Hard Limit - Geostationary satellite network

EARTH STATION E.I.R.P VALUES WILL BE CHECKED AGAINST ARTICLE 21 LIMITS

EIRP EXAMINATION		P	120559099	SUI	WRS-20_AP30B	9.45 DEG 0.10 0.00	11.11.2020
------------------	--	---	-----------	-----	--------------	--------------------	------------

RATK	R	STEERABLE	GAIN MAX: 33.00 DB				
000000008	EC	250000 KHZ 2D DATE: 11.11.2020 (DN)					
12.87500	GHZ	250000	KHZ	EMISS: 250M	PEP MAX:	DBW	PWR DS MAX: -33.00 DBW/HZ
PROV: (13) 22.26		PROT AREA: ALL WORLD		GMAX: 42.70 DB		AP30B	REF.BW: 0.04 MHZ
E/S: P -56.0000 -32.0000		EIRP: 5.87		EIRPL: 2.97		EIRPX: 2.90	
ELEV: 48.00 DEG		GAIN: -7.15 DB		FINDING: N-		X/22.26	
PROV: (13) 22.26		PROT AREA: ALL WORLD		GMAX: 42.70 DB		AP30B	REF.BW: 0.04 MHZ
E/S: P -53.0000 4.0000		EIRP: 5.87		EIRPL: 2.97		EIRPX: 2.90	
ELEV: 48.00 DEG		GAIN: -7.15 DB		FINDING: N-		X/22.26	
PROV: (13) 22.26		PROT AREA: ALL WORLD		GMAX: 42.70 DB		AP30B	REF.BW: 0.04 MHZ
E/S: P -38.0000 -5.0000		EIRP: 5.87		EIRPL: 2.97		EIRPX: 2.90	
ELEV: 48.00 DEG		GAIN: -7.15 DB		FINDING: N-		X/22.26	



Take note that § 22.26 RR limit is exceeded (it will be a subject of unfavourable finding during BR examination)

Source:  
PFDGSO\_report.rtf

Details of the examination

Version: C:\Program Files (x86)\ITU\BR\_Space\_v9.0\Gibc\PFD Examination type: H Output level: 1 Operator: klyuchar

PFD Hard Limit - Geostationary satellite network

EARTH STATION E.I.R.P VALUES WILL BE CHECKED AGAINST ARTICLE 21 LIMITS

EIRP EXAMINATION		P	120559099	SUI	WRS-20_AP30B	9.45 DEG 0.10 0.00	11.11.2020
------------------	--	---	-----------	-----	--------------	--------------------	------------

NO UNFAVORABLE FINDING FOUND IN EIRP EXAMINATION.							
---	--	--	--	--	--	--	--

SPACE STATION PFD VALUES WILL BE CHECKED AGAINST HARD LIMITS ONLY

PFD EXAMINATION		P	120559099	SUI	WRS-20_AP30B	9.45 DEG 0.10 0.00	11.11.2020
-----------------	--	---	-----------	-----	--------------	--------------------	------------

NO UNFAVORABLE FINDING FOUND IN PFD EXAMINATION.							
--	--	--	--	--	--	--	--

# AP30B examinations (subject of AP30B/A6A)

Recommendations for a notifying administration how to be prepare for exam under § 6.3 of AP30B

Main **Annex 3 - PFD**

AP30BReport

Query Results

Reset Query Found 12 results

	Beam Name	E/R	Frequency Band	Group ID	Finding	PFD Excess	PFD Limit	Worst GSO Pos.
	RATC	R	6	1	A-	-2.602	-140	2.44
	RATC	R	6	1	A-	-2.593	-140	16.46
	RATC	R	6	2	N-	11.895	-140	2.44
	RATC	R	6	2	N-	11.904	-140	16.46
	EATC	E	4	3	A-	-3.667	-131.4	
	EATC	E	4	4	A-	-3.667	-131.4	
	RATK	R	12-13	7	A-	-10.938	-133	3.44
	RATK	R	12-13	7	A-	-10.929	-133	15.46
	RATK	R	12-13	8	N-	3.009	-133	3.44
	RATK	R	12-13	8	N-	3.018	-133	15.46
	EATK	E	10-11	9	A-	-5.667	-118.4	
	EATK	E	10-11	11	A-	-5.667	-118.4	

Take note that Annex 3 AP30B PFD limit is exceeded (it will be a subject of **Unfavourable** finding during BR examination)

Regulatory limits do not exceed (OK)

Annex 3 - PFD

Query Results

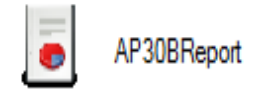
Reset Query Found 12 results

	Beam Name	E/R	Frequency Band	Group ID	Finding	PFD Excess	PFD Limit	Worst GSO Pos.
	RATC	R	6	1	A-	-2.602	-140	2.44
	RATC	R	6	1	A-	-2.593	-140	16.46
	RATC	R	6	2	A-	-0.055	-140	2.44
	RATC	R	6	2	A-	-0.046	-140	16.46
	EATC	E	4	3	A-	-3.667	-131.4	
	EATC	E	4	4	A-	-3.667	-131.4	
	RATK	R	12-13	7	A-	-10.938	-133	3.44
	RATK	R	12-13	7	A-	-10.929	-133	15.46
	RATK	R	12-13	8	A-	-0.091	-133	3.44
	RATK	R	12-13	8	A-	-0.082	-133	15.46
	EATK	E	10-11	9	A-	-5.667	-118.4	
	EATK	E	10-11	11	A-	-5.667	-118.4	

# AP30B examinations (subject of AP30B/A6A)

§6.5 Art.6 AP30B

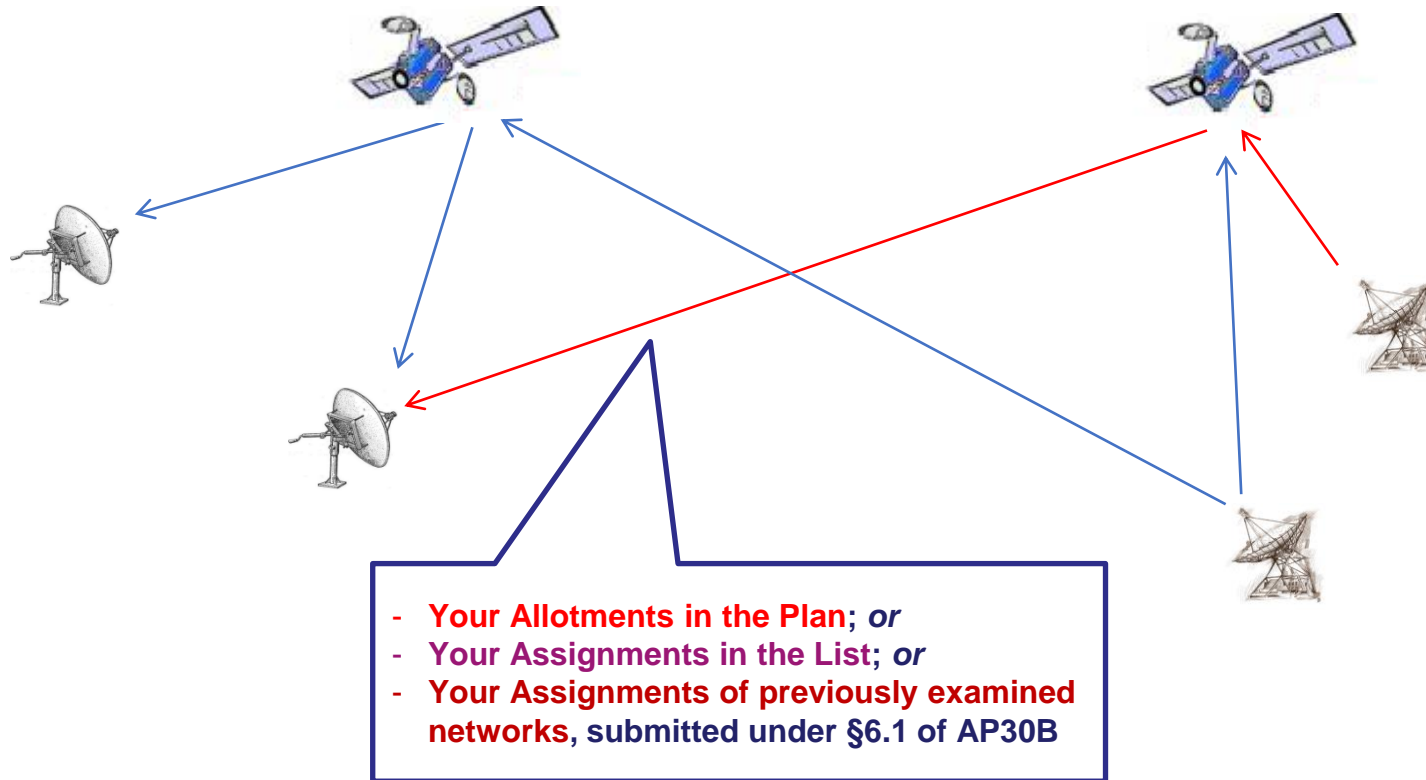
BR Space Software:



Main interested Body: ALL administrations

# AP30B examinations (subject of AP30B/A6A)

## Examination under §6.5 of AP30B



Examined by



+





# AP30B examinations (subject of AP30B/A6A)

## Examination under §6.5 of AP30B

### Annex 4 to AP30B

### Apply

#### Criteria for determining whether an allotment or an assignment is considered to be affected

- 1 if the orbital spacing between its orbital position and the orbital position of the proposed new allotment or assignment is equal to or less than:
  - 1.1  $7^\circ$  in the frequency bands 4 500-4 800 MHz (space-to-Earth) and 6 725-7 025 MHz (Earth-to-space);
  - 1.2  $6^\circ$  in the frequency bands 10.70-10.95 GHz (space-to-Earth), 11.20-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space).

An allotment or an assignment is not affected if at least one conditions is satisfied:

E-to-s single-entry (C/I) <sub>up</sub> $\geq 30$ dB or (C/N) <sub>up</sub> + 9 dB; and	6 725 – 7 025 MHz / 4 500 – 4 800 MHz	12.75 – 13.25 GHz / 10.7 – 10.95 and 11.2 – 11.45 GHz																								
s-to-E single-entry (C/I) <sub>d</sub> $\geq 26.65$ dB or (C/N) <sub>d</sub> + 11.65 dB; and	Pfd (up) $\leq -204.0 - \text{Grx}$ dB(W/(m <sup>2</sup> *Hz))	Pfd (up) $\leq -208.0 - \text{Grx}$ dB(W/(m <sup>2</sup> *Hz))																								
Overall aggregate (C/I) <sub>agg</sub> $\geq 21$ dB or (C/N) <sub>t</sub> + 7 dB or previously accepted overall aggregate value	<table><tr><td><math>0^\circ \leq \theta \leq 0.09^\circ</math></td><td>-243.5</td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>0.09^\circ &lt; \theta \leq 3^\circ</math></td><td><math>-243.5 + 20\log(\theta/0.09)</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>3^\circ &lt; \theta \leq 5.5^\circ</math></td><td><math>-219.79 + 0.75 \cdot \theta^2</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>5.5^\circ &lt; \theta \leq 7^\circ</math></td><td><math>-197.1 + 25\log(\theta/5.5)</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr></table>	$0^\circ \leq \theta \leq 0.09^\circ$	-243.5	dB(W/(m <sup>2</sup> · Hz))	$0.09^\circ < \theta \leq 3^\circ$	$-243.5 + 20\log(\theta/0.09)$	dB(W/(m <sup>2</sup> · Hz))	$3^\circ < \theta \leq 5.5^\circ$	$-219.79 + 0.75 \cdot \theta^2$	dB(W/(m <sup>2</sup> · Hz))	$5.5^\circ < \theta \leq 7^\circ$	$-197.1 + 25\log(\theta/5.5)$	dB(W/(m <sup>2</sup> · Hz))	<table><tr><td><math>0^\circ \leq \theta \leq 0.05^\circ</math></td><td>-238.0</td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>0.05^\circ &lt; \theta \leq 3^\circ</math></td><td><math>-238.0 + 20\log(\theta/0.05)</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>3^\circ &lt; \theta \leq 5^\circ</math></td><td><math>-210.98 + 0.95 \cdot \theta^2</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr><tr><td><math>5^\circ &lt; \theta \leq 6^\circ</math></td><td><math>-187.23 + 25\log(\theta/5)</math></td><td>dB(W/(m<sup>2</sup> · Hz))</td></tr></table>	$0^\circ \leq \theta \leq 0.05^\circ$	-238.0	dB(W/(m <sup>2</sup> · Hz))	$0.05^\circ < \theta \leq 3^\circ$	$-238.0 + 20\log(\theta/0.05)$	dB(W/(m <sup>2</sup> · Hz))	$3^\circ < \theta \leq 5^\circ$	$-210.98 + 0.95 \cdot \theta^2$	dB(W/(m <sup>2</sup> · Hz))	$5^\circ < \theta \leq 6^\circ$	$-187.23 + 25\log(\theta/5)$	dB(W/(m <sup>2</sup> · Hz))
$0^\circ \leq \theta \leq 0.09^\circ$	-243.5	dB(W/(m <sup>2</sup> · Hz))																								
$0.09^\circ < \theta \leq 3^\circ$	$-243.5 + 20\log(\theta/0.09)$	dB(W/(m <sup>2</sup> · Hz))																								
$3^\circ < \theta \leq 5.5^\circ$	$-219.79 + 0.75 \cdot \theta^2$	dB(W/(m <sup>2</sup> · Hz))																								
$5.5^\circ < \theta \leq 7^\circ$	$-197.1 + 25\log(\theta/5.5)$	dB(W/(m <sup>2</sup> · Hz))																								
$0^\circ \leq \theta \leq 0.05^\circ$	-238.0	dB(W/(m <sup>2</sup> · Hz))																								
$0.05^\circ < \theta \leq 3^\circ$	$-238.0 + 20\log(\theta/0.05)$	dB(W/(m <sup>2</sup> · Hz))																								
$3^\circ < \theta \leq 5^\circ$	$-210.98 + 0.95 \cdot \theta^2$	dB(W/(m <sup>2</sup> · Hz))																								
$5^\circ < \theta \leq 6^\circ$	$-187.23 + 25\log(\theta/5)$	dB(W/(m <sup>2</sup> · Hz))																								



# AP30B examinations (subject of AP30B/A6A)

## Examination under §6.5 of AP30B



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS  
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE			F-SAT-30B-11.5E		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		AP30B/A6A/548						
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		F	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL		11.5 E		BR IFIC / DATE BR IFIC / DATE BR IFIC/ FECHA		2883 / 13.11.2018				
NOTIFIÉ AU NOM DE NOTIFIED ON BEHALF OF NOTIFICADA EN NOMBRE DE						NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN						117559064	
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR EL BUREAU													

Publication au titre des dispositions de l'Article 6 de l'Appendice 30B du Règlement des radiocommunications	Publication under provisions of Article 6 of Appendix 30B to the Radio Regulations
Renseignements concernant: [X] une fiche de notification reçue au titre du § 6.1, ou [ ] une fiche de notification considérée comme une soumission au titre du § 6.1 conformément au § 7.7 de l'Article 7.	Information regarding: [X] Notice received under § 6.1, or [ ] Notice treated as a submission under § 6.1 in accordance with § 7.7 of Article 7.
Examinés et publiés conformément aux dispositions suivantes de l'Article 6: [X] Assignations examinées au titre des § 6.3, 6.5 et 6.6 et publiées au titre du § 6.7. [ ] Assignations examinées au titre du § 6.3 et retournées à l'administration notificatrice au titre du § 6.4.	Examined and published in accordance with the following of Article 6: [X] Assignments examined under § 6.3, § 6.5 and § 6.6 and published under § 6.7. [ ] Assignments examined under § 6.3 and returned to the notifying administration under § 6.4.
DATE LIMITE POUR LA RÉCEPTION DES COMMENTAIRES : EXPIRY DATE FOR THE RECEIPT OF COMMENTS : FECHA LIMITE PARA LA RECEPCIÓN DE LOS COMENTARIOS :	

### Administrations et/ou réseaux à satellite affectés / Affected administrations and/or satellite networks / Administraciones y/o redes de satélite afectadas

A1f1 Notif. adm.	A1f3 Inter. sat. org.	BR80 Status of identified network	A1a Sat. Network / Plan beam identification	BR6a Id. no.	A4a1 Orbital long.	BR79 Max. C/I degradation			BR82 Max. PFD excess	
						\$2.1a	\$2.1b	\$2.1c	\$2.2a	\$2.2b
App.30B, Art.6, § 6.5 - Annexe 4 App.30B, Art.6, § 6.5 - Annex 4 Ap.30B, Art.6, § 6.5 - Anexo 4 附录30B, 第6条, 第6.5段- 附件4 Пр. 30B, Ст. 6, п. 6.5 – Дополнение 4 التذييل 30B, المادة 6, الفقرة 6.5 – الملحق 4										
6/4 GHz										
F		Pending	F-SAT-30B-12.5W	116559022	12.5 W		3.15	1.62	0.888	
G		Pending	UKFSS-18W-A	114559040	18 W			0.293	14.374	6.511
LIE		Allotment	LIE00000	90558128	17.1 W	11.24	10.312	6.953	13.138	12.862
RUS	IK	Pending	IK-16W-F	115559044	16 W		14.812	3.786	20.078	11.771
UAE		Pending	YAHSAT-FSS-18W	115559051	18 W	1.995	13.525	8.727	14.731	6.501
		Pending	YAHSAT-FSS-20W	113559047	20 W		0.353		6.034	
12-13/10-11 GHz										
G		Pending	IOMSAT-15W-B	113559001	15 W		12.176		11.702	7.61
LIE		Allotment	LIE00000	90558128	17.1 W			0.07		0.77
RUS		List	WSDRN	94559003	16 W		0.822		N/A	N/A
	IK	Pending	IK-16W-F	115559044	16 W		19.458	0.287	19.402	15.321
		List	INTERSPUTNIK-16W-F	110559015	16 W		19.357	3.236	N/A	N/A
UAE		Pending	YAHSAT-FSS-18W	115559051	18 W		14.118	0.962	14.029	10.501
		Pending	YAHSAT-FSS-20W	113559047	20 W		0.664	0.255	4.951	0.378
USA		Pending	USASAT-101E	116559034	18 W	10.472			7.451	10.511

# AP30B examinations (subject of AP30B/A6A)

## Examination under §6.5 of AP30B



TEX_Results	15.11.2018 11:11 AM
30B_2883.mdb	26.10.2018 9:59 AM
SpPlans_A.pdf	24.11.2016 10:07 AM
SpPlans_C.pdf	24.11.2016 10:07 AM
SpPlans_E.pdf	24.11.2016 10:07 AM
SpPlans_F.pdf	24.11.2016 10:07 AM
SpPlans_R.pdf	24.11.2016 10:07 AM
SpPlans_S.pdf	24.11.2016 10:08 AM



AP30BReport

2883\_Results.zip

19.10.2018 5:33 PM

117559062_CD-SAT-FSS-105.2E-G2_RESULTS.MDB	185,905,152
117559063_F-SAT-30B-141.5W_RESULTS.MDB	117,604,352
117559064_F-SAT-30B-11.5E_RESULTS.MDB	265,924,608

**Different types of Report:**  
Affected networks summary;  
Technical examination summary;  
C/I values at test (P) and/or grid (G) points;  
PFD values at test and/or grid points;  
Reference situation

AP30BReport

File Edit Query Help

Output database path: E:\NTU-R\_Seminars\WRS20\117559064\_F-SAT-30B-11.5E\_RESULTS.MDB

Reload selected database

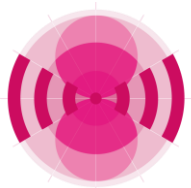
Main Annex 3 - PFD Service Area Coverage **Annex 4 - C/I**

Affected networks summary  
Technical examination summary  
C/I values at test and/or grid points  
PFD values at test and/or grid points  
Reference situation

Reset Query Found 83 results in 4251 ms

Orbital Position	Admin	Ntwk. Org.	Notice ID	Satellite Name	Network Status	Frequency Band	SE Down TP Degradation	SE Down GP Degradation	SE Up Degradation	AG Degradation	PFD Down Degradation	PFD Up Degradation	PFD Applicable ?
70.5	F	EUT	100559012	EUTELSAT EXB-70.5E	List	12-13/10-11	2.121			24.726			No
70.5	F	EUT	101559022	EUTELSAT EXB-70.5E	List	12-13/10-11	2.552			24.536			No
70.5	F	EUT	106559004	EUTELSAT EXB-70.5E	List	12-13/10-11	2.552			25.162			No
70.5	F		110559013	F-SAT-E-30B-70.5E	List	12-13/10-11	9.662			19.336			No
70.5	F		116559042	F-SAT-30B-70.5E	List	12-13/10-11	7.136			27.413	5.209	2.253	Yes
70.5	F		116559042	F-SAT-30B-70.5E	List	6/4	6.49			27.261	7.192		Yes
71	IND		115559011	INSAT-KUP-FSS(71E)	List	12-13/10-11			5.81	7.108		4.396	Yes
71	IND		118559022	INSAT-EXC(71E)	List	6/4	2.013			13.721	5.459	0.396	Yes
71.4	ARM		112559037	ARMSAT-30B-71.4E	List	6/4	9.405		0.877	33.571	11.183	2.468	Yes
71.4	ARM		112559037	ARMSAT-30B-71.4E	List	12-13/10-11	10.354			20.386	9.741	6.468	Yes
73.3	MKD		120559092	MKD00000	List	6/4				38.961			Yes
73.3	MKD		120559092	MKD00000	List	12-13/10-11				40.596			Yes
73.5	QAT		115559035	QATARSAT-30B-73.5E	List	6/4	18.087		23.176	4.373	30.892	29.000	Yes
73.5	QAT		115559035	QATARSAT-30B-73.5E	List	12-13/10-11	16.55		18.657	8.639	30.226		Yes
74	IND		89559003	INSAT-2C	List	6/4				27.491			No
74	IND		115559012	INSAT-KUP-FSS(74E)	List	12-13/10-11			17.332	29.508			Yes

**Example of  
"Technical examination summary"**



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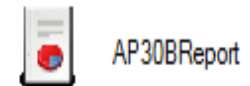
§6.5 Art.6 AP30B



# AP30B examinations (subject of AP30B/A6A)

§6.6 Art.6 AP30B

BR Space Software:



Main interested Body: ALL administrations

# AP30B examinations (subject of AP30B/A6A)

## Examination results (under §6.6 of AP30B)



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS BUREAU DES RADIOCOMMUNICATIONS		INTERNATIONAL TELECOMMUNICATION UNION RADIOCOMMUNICATION BUREAU		UNIÓN INTERNACIONAL DE TELECOMUNICACIONES OFICINA DE RADIOCOMUNICACIONES		© I.T.U.
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		KYPROS-SAT-6		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		AP30B/A6A/416
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	CYP	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	39 E	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA		2813 / 16.02.2016
NOTIFIÉ AU NOM DE NOTIFIED ON BEHALF OF NOTIFICADA EN NOMBRE DE				NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		115559040

RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFO

Publication au titre des dispositions de l'Article 6 de l'Appendice 30B du Règlement des radiocommunications	Publication under provisions of Art. 6 to the Radio Regul.
Renseignements concernant: [ X ] une fiche de notification reçue au titre du § 6.1, ou [ ] une fiche de notification considérée comme une soumission au titre du § 6.1 conformément au § 7.7 de l'Article 7.	Information regarding: [ X ] Notice received under § 6.1, or [ ] Notice treated as a submission under 7.7 of Article 7.
Examinés et publiés conformément aux dispositions suivantes de l'Article 6: [ X ] Assignations examinées au titre des § 6.3, 6.5 et 6.6 et publiées au titre du § 6.7. [ ] Assignations examinées au titre du § 6.3 et retournées à l'administration notificatrice au titre du § 6.4.	Examined and published in accordance with of Article 6: [ X ] Assignments examined under § 6.3, published under § 6.7. [ ] Assignments examined under § 6.3 administration under § 6.4.

Liste des administrations dont l'accord est requis au titre du § 6.6  
List of Administrations whose agreements are required under § 6.6  
Lista de las Administraciones cuyo acuerdo se necesita al título del § 6.6  
根据第6.6款需要征得其同意的主管部门的列表  
Список администраций, согласие которых требуется в соответствии с п. 6.6  
قائمة الإدارات المطلوب الحصول على موافقتها بموجب الفقرة 6.6

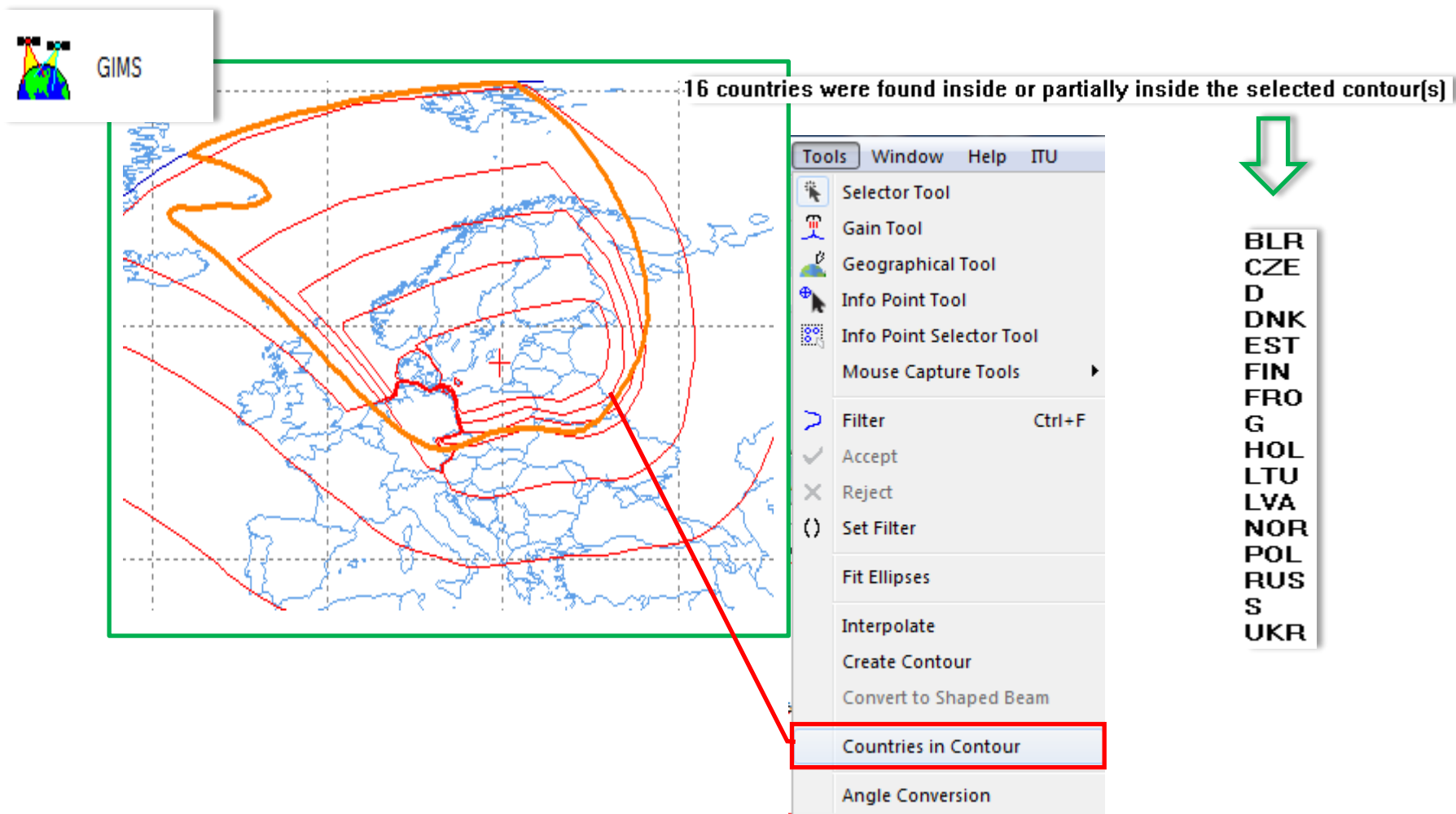
Provision	11C2 - Agreement symbol	A1f1 - Notifying adm. / BR5 - Geographical area
30B#6.6	R	BLR, CZE, D, DNK, DNK/FRO, EST, FIN, G, HOL, LTU, LVA, NOR, POL, RUS, S, UKR
30B#6.6	O	Néant / None / Ninguna / 无 / Нет / لا يوجد



**Remark:** There is no criteria / limit for this identification, it is only a confirmation of the fact that the territory of the subject Administration is partially or wholly included in the intended service area of the assignment under examination. It does not mean that any stations / services are affected within this Administration.

# AP30B examinations (subject of AP30B/A6A)

## Examination results (under §6.6 of AP30B)



# AP30B examinations (subject of AP30B/A6A)

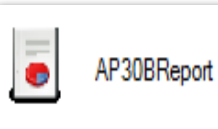
## Examination results (under §6.6 of AP30B)



TEX_Results	16.02.2016 11:01 AM
30B_2813.mdb	05.02.2016 8:07 PM
SpPlans_A.pdf	19.09.2013 5:00 PM
SpPlans_C.pdf	19.09.2013 4:58 PM
SpPlans_E.pdf	19.09.2013 4:57 PM
SpPlans_F.pdf	19.09.2013 4:58 PM
SpPlans_R.pdf	19.09.2013 4:58 PM
SpPlans_S.pdf	19.09.2013 4:58 PM

2813\_Results.zip 05.02.2016 8:10 PM

115559040\_KYPROS-SAT-6\_AP30B\_RESULTS.MDB



AP30BReport

File Edit Query Help

Output database path: E:\ITU-R\_Seminars\WRS-18\115559040\_KYPROS-SAT-6\_AP30B\_RESULTS.MDB

Reload selected database

Main Annex 3 - PFD **Service Area Coverage** Annex 4 - C/I

Analysis Parameters

Input database path: C:\AP30B\BR IFIC 2813\30B\_2813.mdb

Analysis started on: 05.02.2016 5:27 PM

Analysis ended on: 05.02.2016 5:29 PM

Analysis was run by: glaude

Software version: 3.5.0.2 In production?: ☒

Analysis succeeded? ☒

Run Query Found 10 results

Beam Name	E/R	SA Number	Notifying administration/Geographical area
E001	E	1	BLR ; CZE ; D ; DNK ; EST ; FIN ; DNK/FRO ; G ; HOL ; LTU ; LVA ; NOR ; POL ; RUS ; S ; UKR
E001	R	1	FIN ; RUS ; S
E001	R	2	EST ; FIN ; LTU ; LVA ; POL ; RUS ; S
E001	R	3	DNK ; NOR ; S
E001	R	4	D ; DNK ; EST ; FIN ; LTU ; LVA ; NOR ; POL ; RUS ; S
E001	R	5	CZE ; D ; DNK ; FIN ; HOL ; LTU ; LVA ; NOR ; POL ; RUS ; S
E001	R	6	BLR ; EST ; FIN ; LTU ; LVA ; POL ; RUS ; S ; UKR
E001	R	7	BLR ; CZE ; D ; DNK ; EST ; FIN ; DNK/FRO ; G ; HOL ; LTU ; LVA ; NOR ; POL ; RUS ; S
E001	R	8	BLR ; EST ; FIN ; LTU ; LVA ; NOR ; RUS ; S
E001	R	9	BLR ; D ; DNK ; EST ; FIN ; LTU ; LVA ; NOR ; POL ; RUS ; S ; UKR



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§6.6 Art.6 AP30B



# **AP30B examinations** **(subject of AP30B/A6B)**



# Processing of AP30B/A6B Submissions



Notifying  
Administration



Radiocommunication  
Bureau

## §6.17 Art.6 AP30B

Submission of validated AP4\*) + GIMS data  
(final characteristics) with required agreements

e-Submission (CR/434 of 1<sup>st</sup> August 2018)

(<https://www.itu.int/ITU-R/space/e-submission>)

\*) Remark: It may be derived by BR from  
AP4 data submitted under Art.8 AP30B

Acknowledgement

Information "As Received" (has no regulatory status)

<https://www.itu.int/ITU-R/space/asreceived/Publication/AsReceived>

Reply must be sent within 30 days  
(see «Receivability» RoP)

## §6.18 Art.6 AP30B

Completeness

✓ Remark: Only requested parameters are subject for modification



Remark: If an assignment receives unfavourable finding the notice  
is returned to the notifying administration (under §6.20) and  
resubmission will be considered with a new d\_rcv. No examination  
under §§ 6.21 and 6.22.

## §6.19 Art.6 AP30B

Examination:

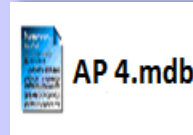
- List of agreements under §6.6
- Conformity with TFA and  
other provisions of the RR
- Conformity with Annex 3 to AP30B



# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to pass examination under § 6.19 of AP30B

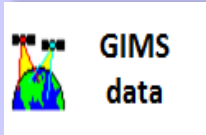
a) “List of agreements under §6.6” may be submitted in



or in



but...



only **cannot be used**

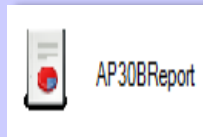
b) Conformity with other provisions of the RR (for example, PFD limits of Art. 21 RR); and

c) Annex 3 to AP30B should be checked by the notifying Administration before its submission to BR

using



+



=

Preparation to Exam under §6.19b); c) Art.6 AP30B = Preparation to Exam under §6.3 Art.6 AP30B (see above)



In the case of unfavourable finding there is no any publication (neither §6.23 nor §6.24 of AP30B)



**Remark:** When the examination with respect to §6.19 leads to unfavourable finding, the notice shall be returned to notifying Administration with indication that subsequent resubmission under §6.17 will be consider with a **new date of receipt**.

# Processing of AP30B/A6B Submissions



Notifying  
Administration



Radiocommunication  
Bureau

## §6.21 Art.6 AP30B

### Examination:

- a) Allotments in the Plan
- b) Assignments in the AP30B List  
(appeared on or before the subject §6.1 submission)
- c) Pending assignments \*)  
(received on or before the subject §6.1 submission)



\*) *7bis* For any remaining affected networks whose assignments were entered in the List before the notice received under § 6.17, the Bureau shall use the method in Annex 4 to further examine if the remaining corresponding assignments in the List are still considered as being affected. The examination in respect of those remaining affected networks is conducted independently using the Appendix **30B** master database corresponding to the A6B Special Section that was published under § 6.23 or § 6.25. (WRC-19)



## §6.22 Art.6 AP30B

### Examination:

- a) Allotments in the Plan
- b) Assignments in the AP30B List  
(appeared before the subject §6.17 submission)
- c) Pending assignments  
(received before the subject §6.17 submission)



§§ 6.21; 6.22 Art.6 AP30B



### Remarks:

- a) Submitted assignments to be entered in the List in the event of a favourable finding under §6.21 and §6.22, otherwise **the notice** is returned to the notifying ADM under §6.24 .
- b) Provision §6.25 **cannot be applied** for any allotment in the Plan.

# AP30B examinations (subject of AP30B/A6B)



ES TÉLÉCOMMUNICATIONS  
COMUNICACIONES

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		NSS-FSS-G2 95E		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCION ESPECIAL N.º		AP30B/A6B/138	
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	HOL	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	95 E	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2915 / 03.03.2020		
NOTIFIÉ AU NOM DE NOTIFIED ON BEHALF OF NOTIFICADA EN NOMBRE DE				NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		111559033	
RENSEIGNEMENTS REÇUS PAR LE BUREAU / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL						17.09.2019	

Publication au titre des dispositions de l'Article 6 de l'Appendice 30B du Règlement des radiocommunications	Publication under provisions of Article 6 of Appendix 30B to the Radio Regulations	Publicación con arreglo a las disposiciones del Artículo 6 del Apéndice 30B del Reglamento de Radiocomunicaciones
Renseignements concernant la fiche de notification reçue au titre du § 6.17, examinées et publiées conformément à l'une des dispositions suivantes de l'Article 6:	Information regarding the notice received under § 6.17, examined and published in accordance with one of the following provisions of Article 6:	Información relativa a las notificaciones recibidas con arreglo al § 6.17, examinadas y publicadas de conformidad con una de las siguientes disposiciones del Artículo 6:
[ x ] Fiche de notification examinée au titre des § 6.19, 6.21 et 6.22, assignations correspondantes inscrites dans la Liste et publiées au titre du § 6.23.	[ x ] Notice examined under § 6.19, § 6.21 and § 6.22, corresponding assignments entered in the List and published under § 6.23.	[ x ] Notificación examinada con arreglo al § 6.19, § 6.21 y § 6.22 y asignaciones correspondientes inscritas en la Lista y publicadas con arreglo al § 6.23.
[ ] Fiche de notification examinée au titre du § 6.19 et retournée à l'administration notificatrice au titre du § 6.20.	[ ] Notice examined under § 6.19 and returned to the notifying administration under § 6.20.	[ ] Notificación examinada con arreglo al § 6.19 y devuelta a la administración notificante con arreglo al § 6.20.
[ ] Fiche de notification examinée au titre des § 6.21 et 6.22 et retournée à l'administration notificatrice au titre du § 6.24.	[ ] Notice examined under § 6.21 and § 6.22 and returned to the notifying administration under § 6.24.	[ ] Notificación examinada con arreglo al § 6.21 y § 6.22 y devuelta a la administración notificante con arreglo al § 6.24.
[ ] Fiche de notification retournée au titre du § 6.24, soumise à nouveau, et assignations correspondantes inscrites provisoirement dans la Liste au titre du § 6.25.	[ ] Notice returned under § 6.24, resubmitted, and corresponding assignments provisionally entered in the List under § 6.25.	[ ] Notificación devuelta con arreglo al § 6.24, presentada de nuevo y asignaciones correspondientes inscritas provisionalmente en la Lista con arreglo al § 6.25.
[ ] Assignation figurant dans la Liste et dont la zone de service a été modifiée au titre du § 6.16.	[ ] Assignment in the List and whose service area has been modified under § 6.16.	[ ] Asignación que figura en la Lista y cuya área de servicio ha sido modificada con arreglo al § 6.16.
[ ] Assignation annulée dans la Liste et allotissement réintégré dans le Plan de l'Appendice 30B au titre des § 6.33 a), 6.33 b) et 6.33 c).	[ ] Assignment cancelled from the List and allotment reinstated in the Appendix 30B Plan under § 6.33 a) § 6.33 b) and § 6.33 c).	[ ] Asignaciones canceladas de la Lista y adjudicación reincorporada en el Plan del Apéndice 30B con arreglo al § 6.33 a) § 6.33 b) y § 6.33 c).
[ ] Allotissement inscrit dans le Plan de l'Appendice 30B au titre du § 6.35 conformément à une décision de la CMR.	[ ] Allotment entered in the Appendix 30B Plan under § 6.35 according to a WRC decision.	[ ] Adjudicación inscrita en el Plan del Apéndice 30B con arreglo al § 6.35 de acuerdo con una decisión de la CMR.

## Special Section AP30B/A6B/XXX

- **Final characteristics** of a satellite network (to be protected during further BR examinations in the case of favourable findings);
- **Date of entry into Plan / List** (in the case of favourable findings)
- **List of agreements**
- **BR findings / Notes**

# AP30B examinations (subject of AP30B/A6B)

## Special Section AP30B/A6B/XXX

- List of agreements

A6 Agreements	30B#6.21A2_1	V	AND						
	30B#6.21A2_2	V	AND	LBR	NGR				
	30B#6.21A3_1	V	AND						
	30B#6.21A3_2	V	AND	LBR	NGR				
	30B#6.6	O	B	BEL	BLZ	CAN	CHL		
			G/GIB	G/MSR	G/SHN				
			POR	POR/AZR	POR/MDR				

- BR findings / Notes

BR findings are established for each frequency assignment

OK

Findings 13A Conformity with RR A- A- -- 13B1 Provision



Findings 13A Conformity with RR A- N- -- 13B1 Provision



Findings 13A Conformity with RR A- N- -- 13B1 Provision 30B#6.25

### Radiocommunication Bureau Notes

3. Taking into account the final characteristics and agreements with other administration(s) provided by the notifying administration as published in this Special Section, the Bureau has examined the submission under § 6.19, 6.21 and 6.22 of Appendix 30B. The results of examination under § 6.21 and § 6.22 of Appendix 30B indicate that no networks of any administration whose agreement was not reached are identified as affected. In addition, there is no administration whose networks are newly identified as affected as a result of the modifications to the initial submission.

4. In view of the above, the Bureau, pursuant to § 6.23 of Appendix 30B, concludes that the Article 6 procedure for the subject satellite network has been successfully completed. The subject assignments are therefore included in the List and the Reference Situation of allotments and assignments in the Appendix 30B Plan and List and of other Article 6 submissions, which are still at the stage of application of that Article, has been updated accordingly.

3. Taking into account the final characteristics provided by the notifying Administration as published in this Special Section, the Bureau has examined the submission under § 6.19, § 6.21 and § 6.22 of Appendix 30B. It has been deemed that the Administrations of the Republic of Burundi, the Republic of Côte d'Ivoire as notifying administration of Intergovernmental Satellite Organization RASCOM and Sweden have agreed to the proposed assignments in application of § 6.15 of Article 6 of Appendix 30B. The results of examination under § 6.21 of Appendix 30B indicate that assignments of other administration(s) that did not communicate an agreement are identified as affected. Therefore, the Bureau returns the subject submission pursuant to § 6.24 of Appendix 30B.

4. As the notifying Administration requested the application of § 6.25 of Appendix 30B and provided the commitment required in § 6.26 of that Appendix, the assignments of the subject network are provisionally included in the List in accordance with § 6.25 of Appendix 30B. Accordingly, the Reference Situation of allotments in the Plan, the assignments in the List and the assignments of other Article 6 submissions, which are still at the stage of application of that Article, has been updated, except for those assignments which are the basis for the unfavourable finding under § 6.21 of Appendix 30B.

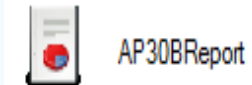
# AP30B examinations (subject of AP30B/A6B)

## BR recommendations for a notifying ADM how to be prepared for examination under § 6.21 of AP30B:

- a) To check which agreements should be provided as indicated in the relevant Special Section A6A published under §6.7;
- b) To check (using the method of Annex 4 to **AP30B**) that there are no allotments / assignments which are still considered as being affected by the assignments of **A6B** submission (*see further explanation*);
- c) If remaining affected networks, whose assignments were entered in the List before the notice received under § 6.17, to check if the remaining corresponding assignments in the List are still considered as being affected;
- d) To check which assignments have been already suppressed under §6.33, if any;
- e) If necessary, to indicate the ADM names (and satellite networks) in respect of which the provision of §6.25 wishes to be applied, with a signed commitment as requested in §6.26.

§6.21 Art.6 AP30B

BR Space Software:



Main interested Body: ALL administrations

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B

## The GOAL:

To check (using the method of Annex 4 to **AP30B**) that there are no allotments / assignments which are still considered as being affected by the assignments of A6B submission

## Databases:

**30B\_XXXX.mdb** + **XXXX\_Results.mdb** + **GREFDBXXXX.mdb**

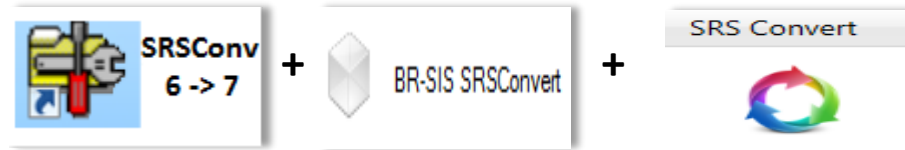
(from the BR IFIC XXXX where A6A Special Section of the subject network has been published under §6.7)

**6.17\_AP30B\_data.mdb** + **6.17\_AP30B\_GIMS\_data.mdb**

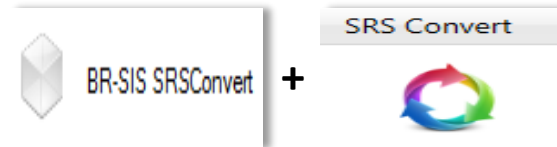
(Final (A6B) characteristics of the assignments under consideration as created by notifying ADM)

## BR Space Software:

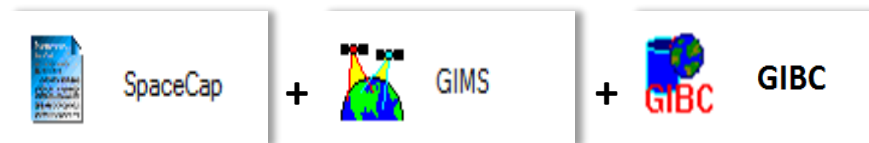
For A6A published before 2013



For A6A published before 2016



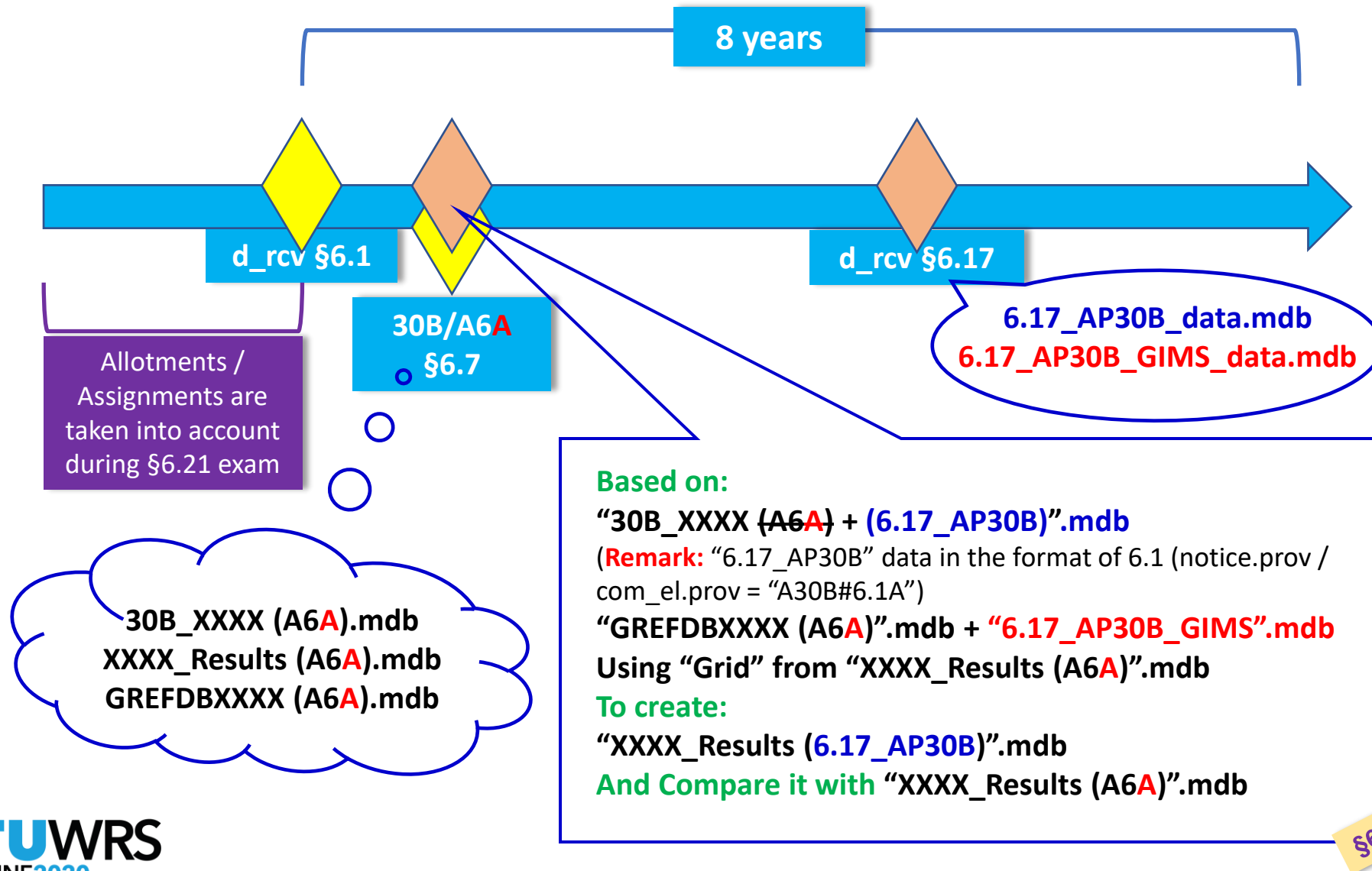
For ALL A6A









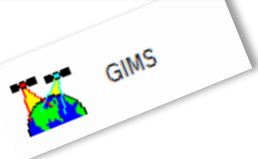
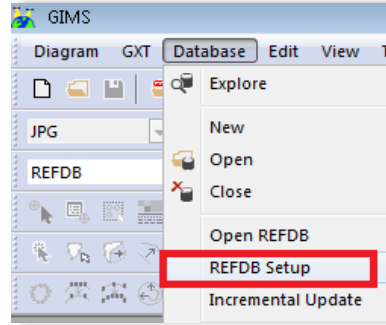
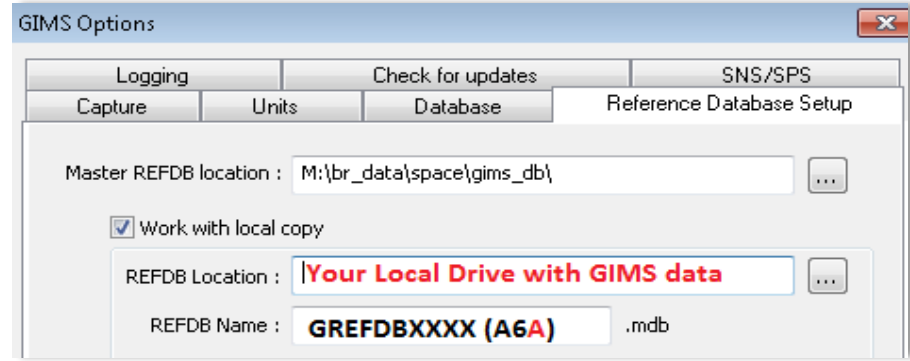

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B



# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B

<b>1st Step</b>	<b>Upgrade 30B_XXXX (A6A).mdb up to v9</b>   
<b>2nd Step</b> 	<b>Replace A6A data with “6.17_AP30B_data” in 30B_XXXX (A6A).mdb and remove all other notices with d_rcv &gt; d_rcv the subject A6A, if any</b>  <b>“30B_XXXX (A6A)” .mdb =&gt; “30B_XXXX (A6A) + (6.17_AP30B)” .mdb</b>
<b>3rd Step</b> 	<b>Establish “GREFDBXXXX (A6A)” .mdb as a RefDB</b>   <b>Remark:</b> For A6A published before 2012 “GREFDBXXXX (A6A)” .mdb =  + BR IFIC updates



# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B

## 4<sup>th</sup> Step



### Make databases connection properly in GIBC

6.17\_AP30B\_GIMS\_data ONLY

1. If A6A received before 23.11.19 thus Annex 4 (Rev.WRC-07) shall use for A6B exam.
2. If A6A received after 23.11.19 thus Annex 4 (Rev.WRC-19) shall use for A6B exam.

For details please see items 13.7 – 13.9 of the minutes of 10<sup>th</sup> Plenary meeting WRC-19 (Doc.CMR19/571)

Common  
30B\_XXXX (A6A) + (6.17\_AP30B)  
data

Network ID (XXX59YYY)  
under examination

"XXXX\_Results (A6A)".mdb

§6.21 Art.6 AP30B

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B

## 5<sup>th</sup> Step

Compare A6A examination Result (from XXXX BR IFIC) with ...

A6A_from XXXX							
A5	Alf1	Alf3	BR80	Ala Sat. Network /	BR6a	A4a1	BR79
Coordinations	Notifying adm.	Inter. sat. org.	Status of identified network	Alb Plan beam identification	Id. no.	Orbital long.	Max. degradation
App 30B, Art 6, § 6.2 - Annex 4							
§2.1 (6/4 GHz)	Néant / None / Ninguna / 无 / Her / لا يوجد						
§2.1 (13/10-11 GHz)	IRQ		Allotment	IRQ00000	90558110	65.45 E	0.138
§2.2 (6/4 GHz)	HOL		Pending	NSS-FSS 57E	107559030	57 E	11.116
§2.2 (13/10-11 GHz)	EGY		Allotment	EGY00000	90558073	67.11 E	4.606
	ETH		Allotment	ETH00000	90558075	58.3 E	19.071
	HOL		Pending	NSS-FSS 57E	107559030	57 E	23.804
	IRQ		Allotment	IRQ00000	90558110	65.45 E	3.564
	ISR		Pending	AMS-30B-65E	109559008	65 E	14.783
	PAK		Allotment	PAK00000	90558161	56.5 E	7.879
§2.3 (6/4 GHz)	HOL		Pending	NSS-FSS 57E	107559030	57 E	1.728
§2.3 (13/10-11 GHz)	ETH		Allotment	ETH00000	90558075	58.3 E	13.507
	HOL		Pending	NSS-FSS 57E	107559030	57 E	7.576
	ISR		Pending	AMS-30B-65E	109559008	65 E	7.857
	LUX		Pending	LUX-30B-G3-63E	105559039	63 E	0.563
	PAK		Allotment	PAK00000	90558161	56.5 E	2.164

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.21 of AP30B

## 5<sup>th</sup> Step

## A6B examination Result

A6B (as A6A) in XXXX							
A5	A1f1	A1f3	BR80	A1a Sat. Network /	BR6a	A4a1	BR79
Coordinations	Notif. adm.	Inter. sat. org.	Status of identified network	A1b Plan beam identification	Id. no.	Orbital long.	Max. degradation
App.30B, Art.6, § 6.5 - Annexe 4							
§2.1 (6/4 GHz)	Néant / None / Ninguna / 无 / Het / لا يوجد						
§2.1 (13/10-11 GHz)	Néant / None / Ninguna / 无 / Het / لا يوجد						
§2.2 (6/4 GHz)	Néant / None / Ninguna / 无 / Het / لا يوجد						
§2.2 (13/10-11 GHz)							
	ETH		Allotment	ETH00000	90558075	58.3 E	18.968
	HOL		Pending	NSS-FSS 57E	107559030	57 E	23.703
	ISR		Pending	AMS-30B-65E	109559008	65 E	14.68
§2.3 (6/4 GHz)	Néant / None / Ninguna / 无 / Het / لا يوجد						
§2.3 (13/10-11 GHz)	ETH		Allotment	ETH00000	90558075	58.3 E	13.406
	HOL		Pending	NSS-FSS 57E	107559030	57 E	7.493
	ISR		Pending	AMS-30B-65E	109559008	65 E	7.773
	LUX		Pending	LUX-30B-G3-63E	105559039	63 E	0.552

### \* Please check:

- whether the assignments of the remaining affected pending networks have been already entered into the List. If yes, the additional examination needs to be done as mentioned in Note 7bis of §6.21c);
- whether the remain assignments have been already suppressed under §6.33, if any.


If necessary, please indicate the ADM name (and satellite networks) in respect of which assignments your Administration wishes to apply the provision of §6.25 with a signed commitment as requested in §6.26.

Provision §6.25 **cannot be applied** for any **allotment** in the Plan.


# AP30B examinations (subject of AP30B/A6B)

BR recommendations for a notifying ADM how to be prepared for examination under § 6.22 of AP30B:


- a) To check (using the method of Annex 4 to **AP30B**) whether there are allotments / assignments which may be considered as affected by the assignments of **A6B** submission (*see further explanation*);
- b) If necessary, to indicate the ADM names (and satellite networks) in respect of which the provision of §6.25 wishes to be applied, with a signed commitment as requested in §6.26.



BR Space Software:

 GIBC

 GIMS

 AP30BReport

Main interested Body: ALL administrations

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B

## The GOAL:

To check (using the method of Annex 4 to **AP30B**) whether there are allotments / assignments which may be considered as affected by the assignments of **A6B** submission

## Databases:

**30B\_YYYY.mdb** + **GREFDBYYYY.mdb**

(from the last officially published BR IFIC YYYY (today it is BR IFIC 2934 of 24.11.2020))

**6.17\_AP30B\_data.mdb** + **6.17\_AP30B\_GIMS\_data.mdb**

(Final (A6B) characteristics of the assignments under consideration as created by notifying ADM)

## BR Space Software:



SpaceCap



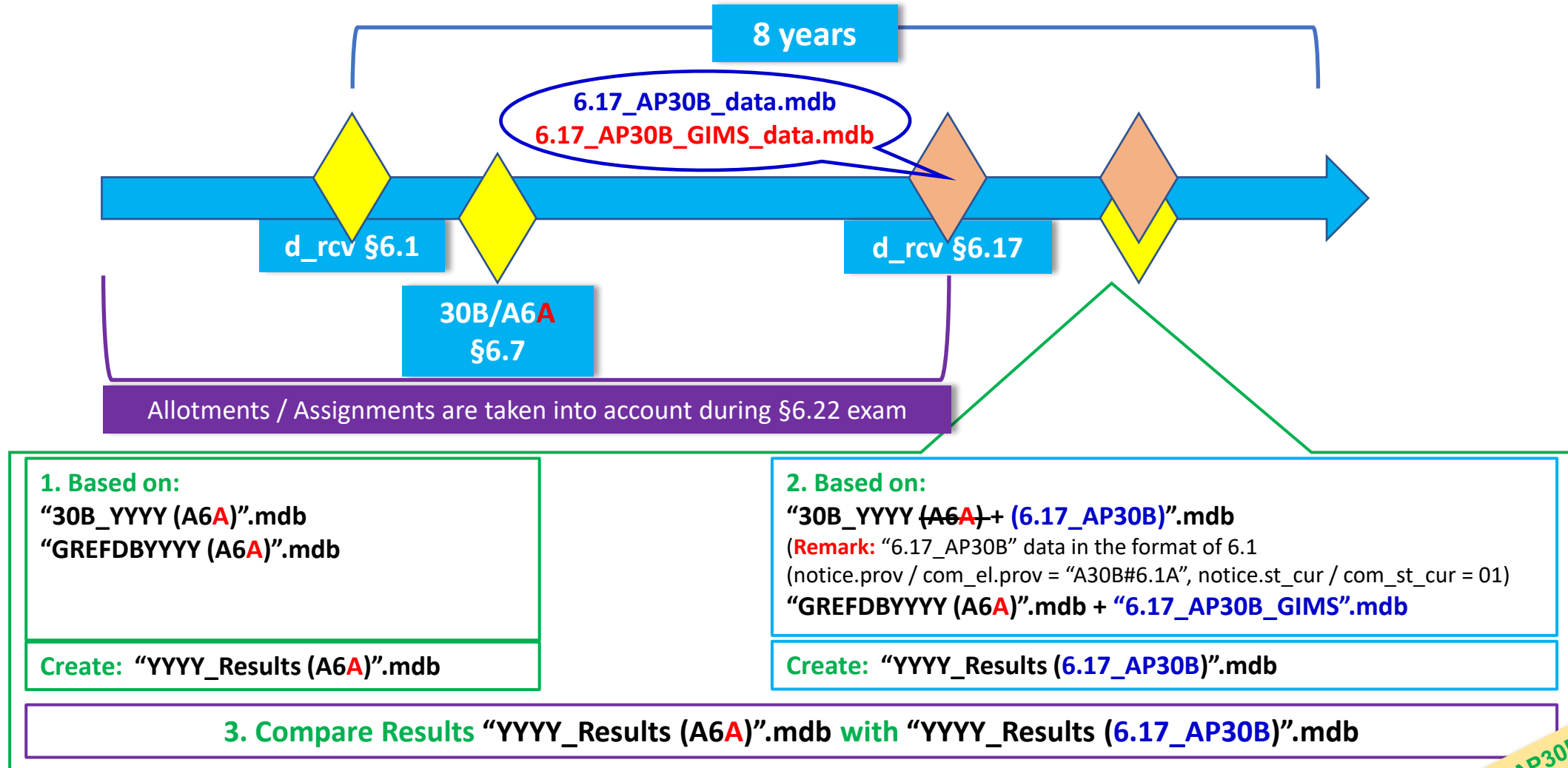
GIMS



GIBC

# AP30B examinations (subject of AP30B/A6B)

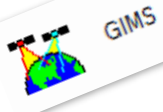
Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B



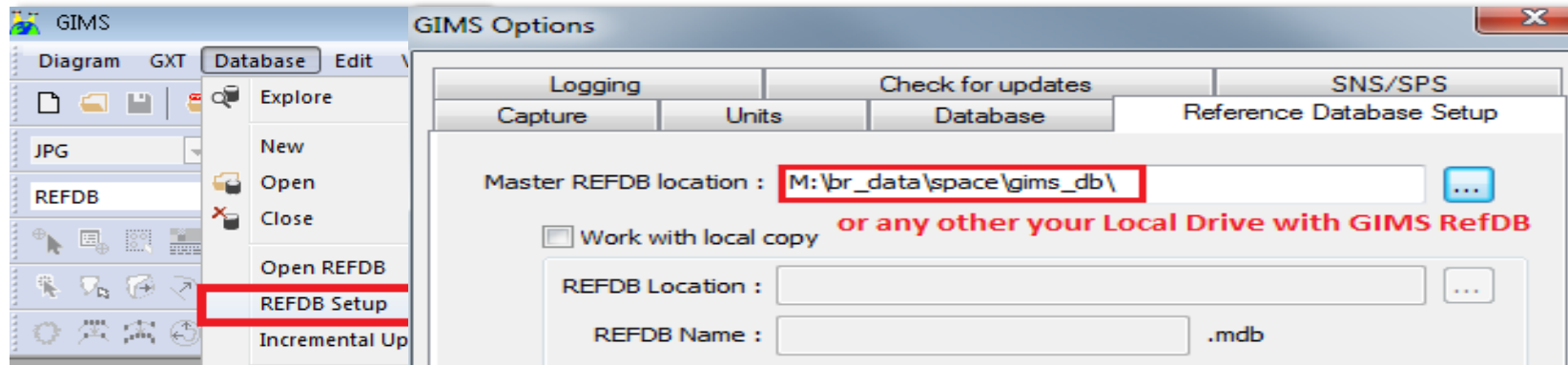
# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B

## 1<sup>st</sup> Step



Be sure that you use the latest available “GREFDBYYYY (A6A)”.mdb as GIMS RefDB



## 2<sup>nd</sup> Step

Be sure that you use the latest available “30B\_YYYY (A6A)”.mdb file.  
The “YYYY” numbers (of GIMS and AP4.mdb files) SHALL be the same!

Make a copy of this file with a name “30B\_YYYY\_6.17\_AP30B”.mdb

## 3<sup>rd</sup> Step



Replace A6A data on “6.17\_AP30B\_data” in “30B\_YYYY\_6.17\_AP30B”.mdb file.

“30B\_YYYY (A6A)”.mdb => “30B\_YYYY (A6A) + (6.17\_AP30B)”.mdb

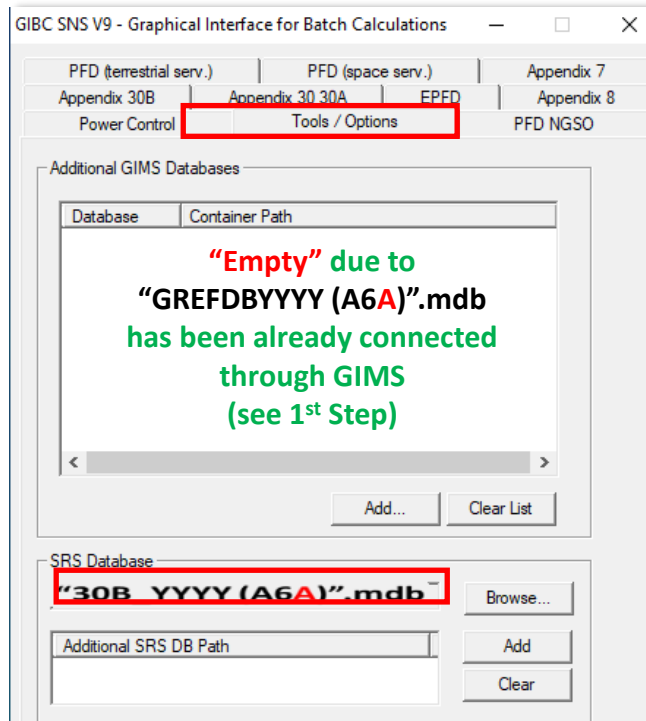


# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B

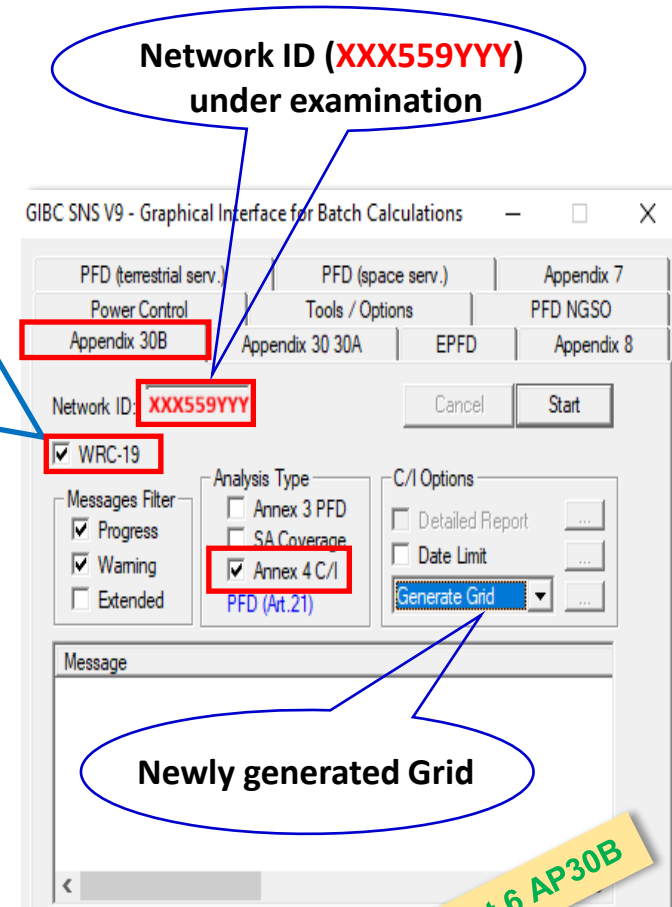
4<sup>th</sup> Step

Make databases connection properly in GIBC and Start Calculation #1 (based on §6.1 (A6A))



If A6B (subject of §6.22 exam) received after 23.11.19 thus Annex 4 (Rev.WRC-19) shall be used irrespective of A6A submission.

For details please see items 13.7 – 13.9 of the minutes of 10<sup>th</sup> Plenary meeting WRC-19 (Doc.CMR19/571)



Result #1 is "YYYY\_Results (A6A).mdb"

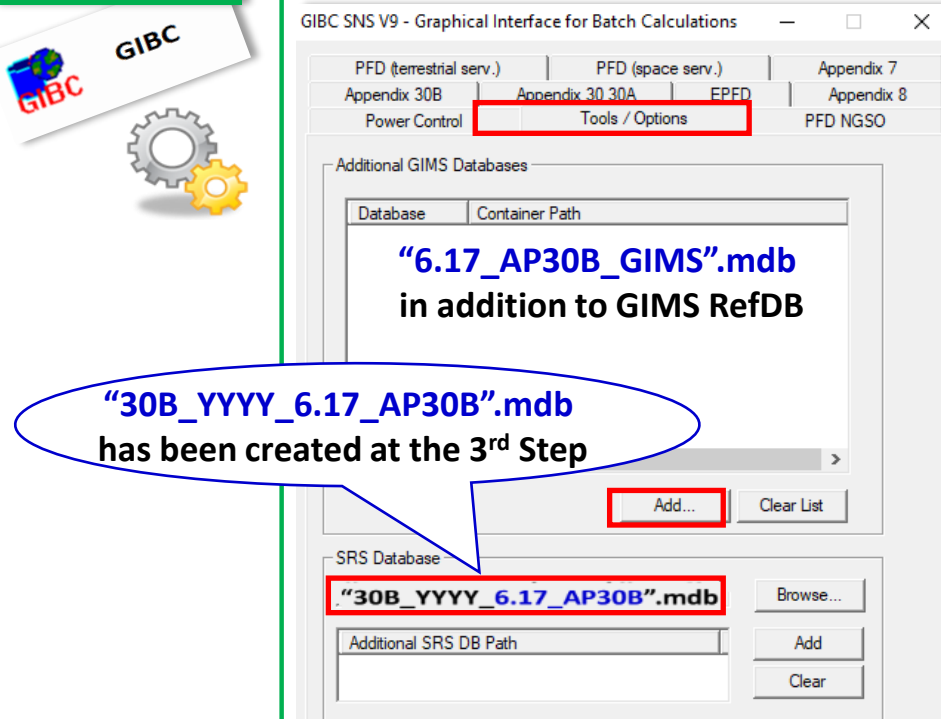


# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B

5<sup>th</sup> Step

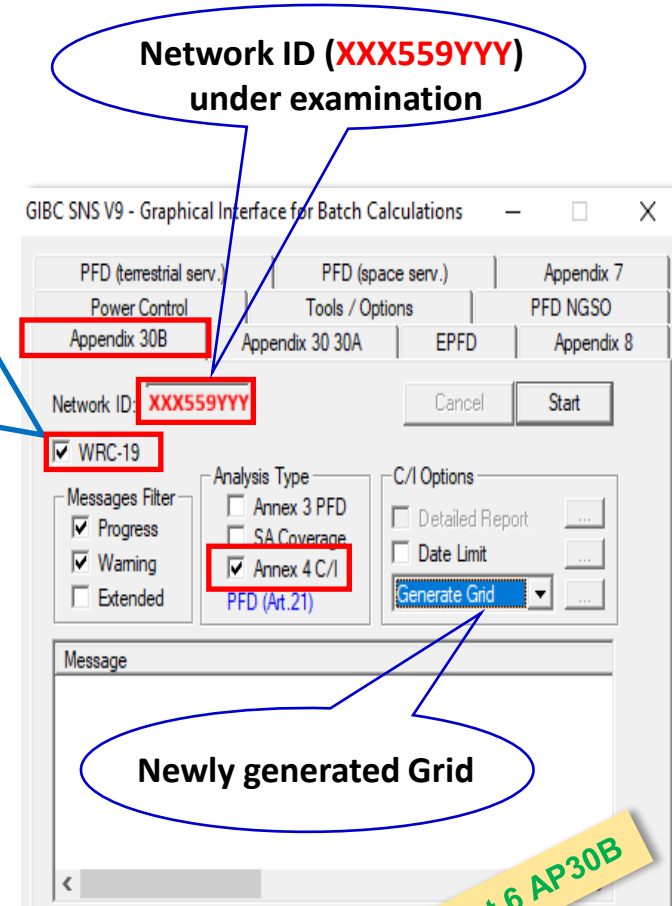
Make databases connection properly in GIBC and Start Calculation #2 (based on §6.17 (A6B))



Result #2 is "YYYY\_Results (6.17\_AP30B)".mdb

If A6B (subject of §6.22 exam) received after 23.11.19 thus Annex 4 (Rev.WRC-19) shall be used irrespective of A6A submission.


For details please see items 13.7 – 13.9 of the minutes of 10<sup>th</sup> Plenary meeting WRC-19 (Doc.CMR19/571)



§6.22 Art.6 AP30B

# AP30B examinations (subject of AP30B/A6B)

Recommendations to a notifying administration how to be prepared for exam under § 6.22 of AP30B

6 <sup>th</sup> Step	Compare Results of Calculation #1 and Calculation #2
	<div><div>Calculation #1 "YYYY_Results (A6A)".mdb</div><div>Calculation #2 "YYYY_Results (6.17_AP30B)".mdb</div><div>Remarks: 1. The subject of checking is the value of uplink and downlink single-entry C/I. 2. Currently there is <u>no BR Software</u> for this action (under construction).</div></div>
Where?!	AP30B Annex 4 C/I calculation results (see Table: "ap30b_clc_res" for <input type="text" value="ntc_id_i"/> = "XXX559YYY" / "XXX559YYY")
What?!	<div><div><input type="text" value="ntc_id_a"/> - List of potentially affected networks ("XXX559YYY" &gt;= "XXX559YYY") (It means that there is no new network which is identified as affected in "YYYY_Results (6.17_AP30B)".mdb only)</div><div><input type="text" value="f_affected"/> - Y (affected) / N (not affected) at the <u>Test Point (P) or Grid Point (G)</u></div><div><div><input type="text" value="stn_type"/> <input type="text" value="long_dec"/> <input type="text" value="lat_dec"/></div> = <div><input type="text" value="stn_type"/> <input type="text" value="long_dec"/> <input type="text" value="lat_dec"/></div></div></div>
How?!	Exam under §6.22 <u>is favourable</u> : - if the values of <input type="text" value="c2i"/> for the <u>all networks</u> listed in the "YYYY_Results (A6A)".mdb <u>are less or equal</u> to the <input type="text" value="c2i"/> values for these networks in the "YYYY_Results (6.17_AP30B)".mdb

# Thank you!

ITU – Radiocommunication Bureau

Questions to [brmail@itu.int](mailto:brmail@itu.int) or [alexander.klyucharev@itu.int](mailto:alexander.klyucharev@itu.int)