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ITU World Radiocommunication Seminar 2018

3-7 December 2018
Geneva, Switzerland

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Analysis of AP30B examination results

By Alexander Klyucharev
Space Services Department
ITU-R

ITU HQ Geneva,
6 December, 2018

Analysis of AP30B examination results



Radiocommunication
Bureau

Regulatory / Technical Examinations
(§§ 6.3, 6.5, 6.6 AP30B)



Special Section AP30B/A6A

(satellite network characteristics and list of potentially affected administrations)



Results of technical examination can be found in BR IFIC (see ...Databases\AP30B\TEX_Results)



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
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RÉSEAU A 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 LA OFICINA EL					22.12.2017

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: [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 provisions 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.	Examinada y publicada de conformidad con las siguientes disposiciones del Artículo 6: [X] Asignaciones examinadas con arreglo al § 6.3, § 6.5 y § 6.6 y publicadas con arreglo al § 6.7. [] Asignaciones examinadas con arreglo al § 6.3 y devueltas a la administración notificante con arreglo al § 6.4.

DATE LIMITE POUR LA RÉCEPTION DES COMMENTAIRES :
EXPIRY DATE FOR THE RECEIPT OF COMMENTS :
FECHA LIMITE PARA LA RECEPCIÓN DE LOS COMENTARIOS :
13.03.2019



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
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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

Analysis of AP30B examination results

§6.3 Art.6 AP30B

BR Space Software:



SpaceVal



GIBC

Main interested Body: Notifying administrations / satellite operators

§6.5 Art.6 AP30B

BR Space Software:



GIBC



GIMS



AP30BReport

Main interested Body: ALL administrations

§6.6 Art.6 AP30B

BR Space Software:



GIBC



GIMS



AP30BReport

Main interested Body: ALL administrations

Analysis of AP30B examination results

§6.3 Art.6 AP30B

BR Space Software:



SpaceVal



GIBC GIBC

Main interested Body: Notifying administrations / satellite operators

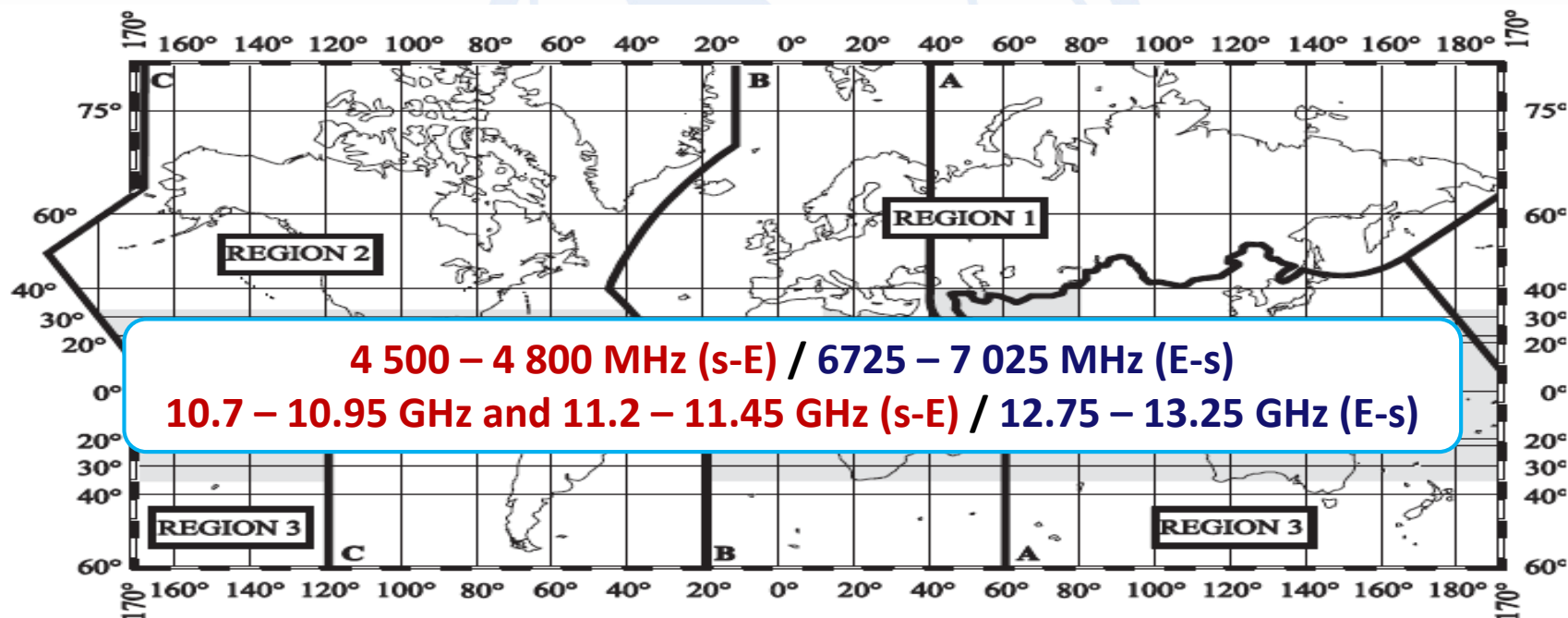
Analysis of AP30B examination results

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

In respect to conformity with:

- a) The Table of Frequency Allocations and *the other provisions* of the RR

Plan for FSS («Appendix 30B»)



Examined by



SpaceVal

Analysis of AP30B examination results

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

In respect to conformity with:

a) 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



SpaceVal



GIBC

Analysis of AP30B examination results

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

In respect to conformity with:

b) Annex 3 to AP30B

Limits applicable to submissions received under Article 6 or Article 7¹⁵

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:

- $-127.5 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ in the 4 500-4 800 MHz band; and
- $-114.0 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ in the 10.70-10.95 GHz and 11.20-11.45 GHz bands.

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 10° from the proposed orbital position in the 6 725-7 025 MHz band, and
- $-133.0 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ towards any location in the geostationary-satellite orbit located more than 9° from the proposed orbital position in the 12.75-13.25 GHz band.

Examined by



GIBC

Analysis of AP30B examination results

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



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE			F-SAT-30B-21.5E			SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º
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
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: [X] Assignations examinées au titre des § 6.3, 6.5 et 6.6 et publiées au titre du § 6.7. [X] 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 provisions of Article 6: [X] Assignments examined under § 6.3, 6.5 and § 6.6, and published under § 6.7. [X] Assignments examined under § 6.3 and returned to the notifying administration under § 6.4.	Examinada y publicada de conformidad con las siguientes disposiciones del Artículo 6: [X] Asignaciones examinadas con arreglo al § 6.3, § 6.5 y § 6.6 y publicadas con arreglo al § 6.7. [X] Asignaciones examinadas con arreglo al § 6.3 y devueltas a la administración notificante con arreglo al § 6.4.

This group is published for info only



BR7a Group id. BR1 Date of receipt 2D Date of protection

A3a Op. agency A3b Adm. resp.

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 C5a Noise temperature

C11a1 Service area no. C11a4 Service area name C11a5e Min. elev. angle

C11a3 Service area diagram

C11a5a Test points are identical to group id.

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	APENST903V01	25	

Maximum Power density per Hz over ...	
C8b2 4 kHz	C8h Necessary bandwidth
-33.3	-33.3

Findings

§6.3 Art.6 AP30B

Analysis of AP30B examination results

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

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	



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). This part is not taken into account for further examinations under §§ 6.5 and 6.6.

Analysis of AP30B examination results

§6.5 Art.6 AP30B

BR Space Software:



GIBC



GIMS

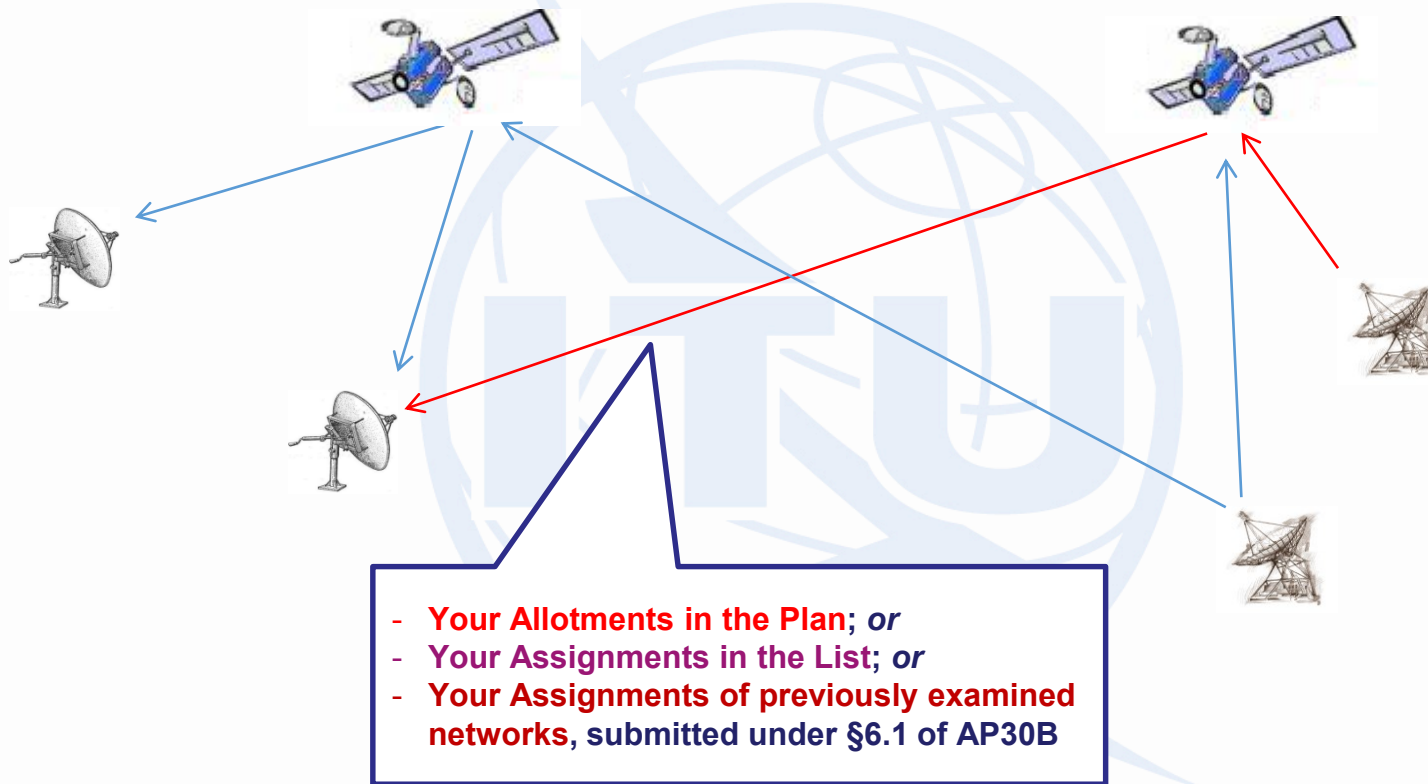


AP30BReport

Main interested Body: ALL administrations

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)



Examined by



+



Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)

Annex 4 to AP30B

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

Apply

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 10° in the 4 500-4 800 MHz (space-to-Earth) and 6 725-7 025 MHz (Earth-to-space) bands;

1.2 9° in the 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) bands;

2 if at least one of the following three conditions is not satisfied:

2.1 the calculated¹⁶ Earth-to-space single-entry carrier-to-interference (C/I_u) value at each test point associated with the allotment or assignment under consideration is greater than or equal to a reference value that is 30 dB, or $(C/N)_u + 9$ dB¹⁷, or any already accepted Earth-to-space single-entry (C/I_u)¹⁸, whichever is the lowest;

§2.1 (6/4 GHz)
§2.1 (13/10-11 GHz)

2.2 the calculated¹⁶ space-to-Earth single-entry (C/I_d) value everywhere within the service area of the allotment or assignment under consideration is greater than or equal to a reference value¹⁹ that is 26.65 dB, or $(C/N)_d + 11.65$ dB²⁰, or any already accepted space-to-Earth single-entry (C/I_d) value, whichever is the lowest;

§2.2 (6/4 GHz)
§2.2 (13/10-11 GHz)

2.3 the calculated¹⁶ overall aggregate (C/I_{agg}) value at each test point associated with the allotment or assignment under consideration, is greater than or equal to a reference value that is 21 dB, or $(C/N)_t + 7$ dB²¹, or any already accepted overall aggregate (C/I_{agg}) value, whichever is the lowest, with a tolerance of 0.25 dB²² in the case of assignments not stemming from the conversion of an allotment into an assignment without modification, or when the modification is within the envelope characteristics of the initial allotment.

§2.3 (6/4 GHz)
§2.3 (13/10-11 GHz)

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		F-SAT-30B-11.5E		SECTION SPÉCIALE N.º 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				NUMERO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	117559064

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

Administrations et/ou réseaux à satellite affectés / Affected administrations and/or satellite networks / Administraciones y/o redes de satélite afectadas
 受影响的主管部门和/或卫星网络 / Затронутые администрации и/или спутниковые сети / أو الشبكات الساتلية المتأثرة بالإدارات و

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 of the Regulations for Radio Communications
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 [] 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 the provisions of Article 6: [X] Assignments examined and published under § 6.7. [] Assignments examined and returned to the notifying administration under § 6.4.
DATE LIMITE POUR LA RÉCEPTION DES COMMENTAIRES : EXPIRY DATE FOR THE RECEIPT OF COMMENTS : FECHALÍMITE PARA LA RECEPCIÓN DE LOS COMENTARIOS :	

A5 Coordinations	A1f1 Notif. adm.	A1f3 Inter. sat. org.	BR80 Status of identified network	A1a Sat. Network / A1b Plan beam identification	BR8a Id. no.	A4a1 Orbital long.	BR79 Max. degradation
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							
\$2.1 (6/4 GHz)	ALB		Allotment	ALB00000	90558006	4.13 E	0.996
	BFA		Allotment	BFA00000	90558031	10.79 E	35.287
	BHR		Allotment	BHR00000	90558033	13.6 E	15.079
	CAF		Allotment	CAF00000	90558042	14.4 E	1.166
	CHN		Pending	ITS-30B-13.5	112559012	13.5 E	14.444
	F		Pending	F-SAT-30B-10E	116559015	10 E	13.202
			Pending	F-SAT-30B-13E	117559005	13 E	16.019
			Pending	F-SAT-30B-7E	117559040	7 E	1.019
			Pending	F-SAT-E-30B-13E	111559011	13 E	16.050
			Pending	F-SAT-E-30B-7E	114559035	7 E	0.999
	GHA		Allotment	GHA00000	90558084	15.9 E	7.505
	LUX		Allotment	LUX00000	90558130	19.2 E	3.395

Analysis of AP30B examination results

Examination results (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
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SpPlans_R.pdf	24.11.2016 10:07 AM
SpPlans_S.pdf	24.11.2016 10:08 AM

2883_Results.zip	19.10.2018 5:33 PM
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117559063_F-SAT-30B-141.5W_RESULTS.MDB	117,604,352
117559064_F-SAT-30B-11.5E_RESULTS.MDB	265,924,608



AP30BReport

AP30BReport

File Edit Query Help

Output database path: E:\NTU-R_Seminars\WRS-18\117559064_F-SAT-30B-11.5E_RESULTS.MDB

Reload selected database

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

Analysis Parameters

Input database path: E:\AP30B\BR IFIC Preparation\IFIC 2883\30B_2882_-026-030_062R_063R_064.mdb

Analysis started on: 19.10.2018 2:08 PM

Analysis ended on: 19.10.2018 2:42 PM

Analysis was run by: klyuchar

Software version: 3.8.0.2

Analysis succeeded?

Detailed report?

Grid generated?

A6A database path:

Report Type

Affected networks summary

Technical examination summary

C/I values at test and/or grid points

Reference situation

Reset Query Found 201 results in 7846 ms

	Orbital Position	Admin.	Ntwk. Org.	Notice ID	Satellite Name	Network Status	C/I Degradation	Annex 4 Subsection	Frequency Band
	4.13	ALB		90558006	ALB00000	Allotment	2.981	2.1	13/10-11
	4.13	ALB		90558006	ALB00000	Allotment	1.456	2.3	6/4
	4.13	ALB		90558006	ALB00000	Allotment	2.745	2.2	6/4
	4.13	ALB		90558006	ALB00000	Allotment	0.996	2.1	6/4
	10.79	BFA		90558031	BFA00000	Allotment	25.401	2.3	13/10-11
	10.79	BFA		90558031	BFA00000	Allotment	22.268	2.2	13/10-11
	10.79	BFA		90558031	BFA00000	Allotment	33.776	2.1	13/10-11
	10.79	BFA		90558031	BFA00000	Allotment	29.007	2.3	13/10-11
	10.79	BFA		90558031	BFA00000	Allotment	31.335	2.2	13/10-11
	10.79	BFA		90558031	BFA00000	Allotment	35.287	2.1	13/10-11

§6.5 Art.6 AP30B

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)

AP30BReport

File Edit Query Help

Output database path: E:\ITU-R_Seminars\WRS-18\117559064_F-SAT-30B-11.5E_RESULTS.MDB

Reload selected database

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

Report Type

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

Affected networks summary

Reset Query Found 201 results in 7601 ms

Orbital Position	Admin.	Ntwk. Org.	Notice ID	Satellite Name	Network Status	C/I Degradation	Annex 4 Subsection	Frequency Band
4.13	ALB		90558006	ALB00000	Allotment	2.981	2.1	13/10-11
4.13	ALB		90558006	ALB00000	Allotment	1.456	2.3	6/4
4.13	ALB		90558006	ALB00000	Allotment	2.745	2.2	6/4
4.13	ALB		90558006	ALB00000	Allotment	0.996	2.1	6/4
10.79	BFA		90558031	BFA00000	Allotment	25.401	2.3	13/10-11
10.79	BFA		90558031	BFA00000	Allotment	22.268	2.2	13/10-11
10.79	BFA		90558031	BFA00000	Allotment	33.776	2.1	13/10-11
10.79	BFA		90558031	BFA00000	Allotment	29.007	2.3	6/4
10.79	BFA		90558031	BFA00000	Allotment	31.335	2.2	6/4
10.79	BFA		90558031	BFA00000	Allotment	35.287	2.1	6/4
13.6	BHR		90558033	BHR00000	Allotment	9.513	2.3	13/10-11
13.6	BHR		90558033	BHR00000	Allotment	14.865	2.2	13/10-11
13.6	BHR		90558033	BHR00000	Allotment	11.632	2.3	6/4
13.6	BHR		90558033	BHR00000	Allotment	15.842	2.2	
13.6	BHR		90558033	BHR00000	Allotment	15.079	2.1	

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)

AP30BReport

File Edit Query Help

Output database path: E:\ITU-R_Seminars\WRS-18\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
 Reference situation

Technical examination summary

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
	4.13	ALB		90558006	ALB00000	Allotment	13/10-11			2.981	
	4.13	ALB		90558006	ALB00000	Allotment	6/4	2.745	2.692	0.996	1.456
	10.79	BFA		90558031	BFA00000	Allotment	13/10-11	22.268	22.167	33.776	25.401
	10.79	BFA		90558031	BFA00000	Allotment	6/4	31.335	31.288	35.287	29.007
	13.6	BHR		90558033	BHR00000	Allotment	13/10-11	14.865	14.865		9.513
	13.6	BHR		90558033	BHR00000	Allotment	6/4	15.842	15.842	15.079	11.632
	14.4	CAF		90558042	CAF00000	Allotment	13/10-11	4.45	4.329		
	14.4	CAF		90558042	CAF00000	Allotment	6/4	11.997	11.904	1.166	6.552
	13.5	CHN		112559012	ITS-30B-13.5	Pending	13/10-11	18.42	18.351		14.521
	13.5	CHN		112559012	ITS-30B-13.5	Pending	6/4	26.488	26.459	14.444	21.000
	7.98	CME		90558053	CME00000	Allotment	13/10-11	2.238	2.167		
	7.98	CME		90558053	CME00000	Allotment	6/4	10.992	10.948		0.706

§6.5 Art.6 AP30B

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)

AP30BReport

File Edit Query Help

Output database path: E:\ITU-R_Seminars\WRS-18\117559064_F-SAT-30B-11.5E_RESULTS.MDB

Reload selected database

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

Report Type

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

Show...

Affected Test Points Affected Grid Points

Not Affected Test Points Not Affected Grid Points

Filter Field Filter Value Available Filter Values

Admin.: **SUI**

Notice ID:

Frequency Band:

Annex 4 Subsection:

Grp. Id. Aff. Up.:

Grp. Id. Aff. Dn.:

Grp. Id. Inf. Up.:

Grp. Id. Inf. Dn.:

Inf. Notice ID:

C/I values at test (P) and/or grid (G) points

Reset Query Found 216 results in 4119 ms

Admin.	Notice ID	Satellite Name	Orbital Position	Frequency Band	Grp. Id. Aff. Up	Grp. Id. Aff. Dn	Grp. Id. Inf. Up	Grp. Id. Inf. Dn	Inf. Notice Id	Inf. Sat. Name	Station Type	Point Longitude	Point Latitude	C/I	C/I Reference	C/I Degradation	Annex 4 Subsection
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	6	46.1	13.969	28.091	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	6.9	47.3	15.06	29.182	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	8.5	47.8	15.349	29.471	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	10.4	46.9	14.01	28.132	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	9	45.7	15.485	29.607	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43013	0	117559064	F-SAT-30B-11.5E	P	7.1	45.9	15.29	29.412	14.122	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	6	46.1	7.868	28.091	20.223	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	6.9	47.3	8.959	29.182	20.223	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	8.5	47.8	9.247	29.471	20.223	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	10.4	46.9	7.908	28.132	20.223	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	9	45.7	9.384	29.607	20.223	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	43014	0	117559064	F-SAT-30B-11.5E	P	7.1	45.9	9.188	29.412	20.223	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	6	46.1	13.558	30	16.442	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	6.9	47.3	13.813	30	16.187	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	8.5	47.8	13.878	30	16.122	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	10.4	46.9	13.557	30	16.443	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	9	45.7	13.945	30	16.056	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43018	0	117559064	F-SAT-30B-11.5E	P	7.1	45.9	13.892	30	16.122	2.1
SUI	90558192	SUI00000	9.45	6/4	21095	0	43019	0	117559064	F-SAT-30B-11.5E	P	6	46.1	5.958	30	16.122	2.1

Analysis of AP30B examination results

Examination results (under §6.5 of AP30B)

AP30BReport

File Edit Query Help

Output database path: E:\NTU-R_Seminars\WRS-18\117559064_F-SAT-30B-11.5E_RESULTS.MDB

Reload selected database

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

Report Type

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

Filter Field	Filter Value	Available Filter Values
Admin. :	SUI	
Notice ID :		
Frequency Band :		
Annex 4 Subsection :		
Grp. Id. Aff. Up. :		
Grp. Id. Aff. Dn. :		

Reference situation

Reset Query Found 42 results in 4417 ms

Admin.	Notice ID	Satellite Name	Orbital Position	Frequency Band	Grp. Id. Aff. Up	Grp. Id. Aff. Dn	Point Longitude	Point Latitude	New C/I Reference	C/I Reference	Annex 4 Subsection
SUI	90558192	SUI00000	9.45	13/11	21091	21092	6.9	47.3	6.616	21.932	2.3
SUI	90558192	SUI00000	9.45	13/10	21091	21092	8.5	47.8	6.708	23.099	2.3
SUI	90558192	SUI00000	9.45	13/11	21091	21092	8.5	47.8	6.708	23.099	2.3
SUI	90558192	SUI00000	9.45	13/10	21091	21092	10.4	46.9	6.333	21.013	2.3
SUI	90558192	SUI00000	9.45	13/11	21091	21092	10.4	46.9	6.333	21.013	2.3
SUI	90558192	SUI00000	9.45	13/10	21091	21092	9	45.7	6.718	22.292	2.3
SUI	90558192	SUI00000	9.45	13/11	21091	21092	9	45.7	6.718	22.292	2.3
SUI	90558192	SUI00000	9.45	13/10	21091	21092	7.1	45.9	6.664	21.849	2.3
SUI	90558192	SUI00000	9.45	13/11	21091	21092	7.1	45.9	6.664	21.849	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	6	46.1	4.467	29.854	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	6.9	47.3	4.537	29.985	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	8.5	47.8	4.554	29.869	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	10.4	46.9	4.464	29.345	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	9	45.7	4.575	29.826	2.3
SUI	90558192	SUI00000	9.45	6/4	21095	21096	7.1	45.9	4.561	30.017	2.3
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	6	46.1	7.868	28.091	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	6.9	47.3	8.959	29.182	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	8.5	47.8	9.247	29.471	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	10.4	46.9	7.908	28.132	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	9	45.7	9.384	29.607	2.1
SUI	90558192	SUI00000	9.45	13/10-11	21091	0	7.1	45.9	9.188	29.182	2.1

Analysis of AP30B examination results

§6.6 Art.6 AP30B

BR Space Software:



AP30BReport

Main interested Body: ALL administrations

Analysis of AP30B examination results

Examination results (under §6.6 of AP30B)



RNATIONALE DES TÉLÉCOMMUNICATIONS INTERNATIONAL TELECOMMUNICATION UNION UNIÓN INTERNACIONAL DE TELECOMUNICACIONES © I.T.U.
EAU DES RADIOCOMMUNICATIONS RADIOCOMMUNICATION BUREAU OFICINA DE RADIOCOMUNICACIONES

SATELLITE NETWORK 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 / INFORMACIÓN RECIBIDA POR LA OFICINA EL			20.08.2015

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 Publicación con arreglo a las disposiciones del Artículo 6 del

Renseignements concernant:
 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.
 Examinés et publiés conformément aux dispositions suivantes de l'Article 6:
 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.

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	U	Néant / None / Ninguna / 无 / Нет / لا يوجد

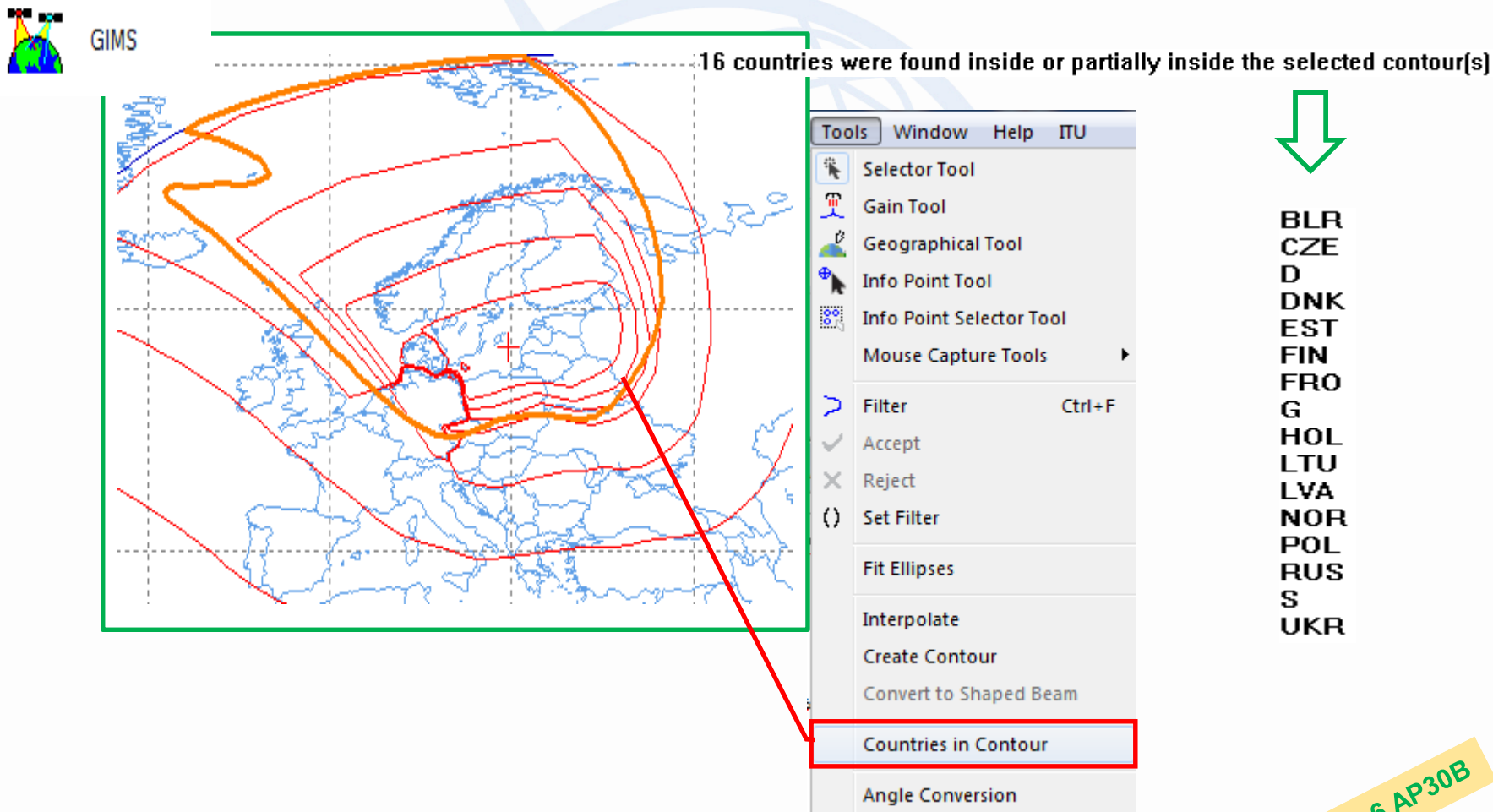


Remark: There is no criteria / limit for this identification, it is only a confirmation of the fact that the territory of the subject Administration is partially or wholly included in the intended service area of the assignment under examination. It does not mean that any stations / services are affected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

§6.6 Art.6 AP30B

Analysis of AP30B examination results

Examination results (under §6.6 of AP30B)



Analysis of AP30B examination results

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

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?

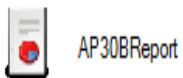
Run Query Found 10 results

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

§6.6 Art.6 AP30B

Analysis of AP30B examination results

Thank you for your attention!



Any question?

alexander.klyucharev@itu.int