REGIONAL RADIOCOMMUNICATION SEMINAR FOR ARAB COUNTRIES 2013

C

Telecommunication Union

Tunis, Tunisia 9-13 December 2013

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ernational



Technical & Regulatory Examination of Coordination (Non-Plan Service)

RADIOCOMMUNICATION BUREAU Mehtap Dufour mehtap.muluk@itu.int



- Input: Appendix 4 format data

"CR/C – Capture Exercises with Validation" Space Workshop – WRS12









Output: CR/C Publication in BR IFIC DVD



UNION INTERNATIONALE DES TÉLÉ BUREAU DES RADIOCOMMU	COMMUNICATIONS INTERNATIO	NAL TELECOMMU DCOMMUNICATIO	JNICATION UNION UNIÓN N BUREAU	INTERNACIONAL DE TELECOMUNICACIONES OFICINA DE RADIOCOMUNICACIONES © I.T.U.		
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	UKMMSAT-A3	SECTION SPÉCIALE N ^O SPECIAL SECTION No. SECCIÓN ESPECIAL N. ^O	CR/C/3186			
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2732 / 13.11.2012			
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	112520178				
RENSEIGNEMENTS REÇUS PAR LE BUR	EAU LE / INFORMATION RECEIVED BY THE	BUREAU ON / IN	FORMACIÓN RECIBIDA POR LA O	FICINA EL 09.05.2012		
Cette demande de coordination, reçue par le Bureau des radiocommunications en vertu du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et est publiée conformément au numéro 9.38. Elle est subordonnée au type de coordination indiqué dans la colonne de gauche par un X dans la case perfurente.						
Type de coordination mentionné dans le Tableau	/Form of coordination referred to in Table I / Forma of	le coordinación menci	onada en el cuadro I			
X 9.7 9.7A 9.7B Y AP30#7.1 AP30A#7.1 RS539 RS53#3 RS33#3	Conformément aux numéros 9.50 à 9.52 du Règ des radiocommunications, les Administrations ide dans le Tableau I ci-après sont priées de commu leur décision à l'Administration responsable et au l avant la date limite indiquée ci-dessous.	lement In accordan ntifiées the Adminis iniquer to commu Bureau administrati below.	nce with Nos. 9.50-9.52 of the Radio Regu strations identified in Table I below are rec nicate their decision to the Resp on and the Bureau by the deadline in	lations, puested sadiocomunicaciones, se solicita a las administraciones señaladas en el cuadro l a continuación que comuniquen su dicated decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.		
Type de coordination mentionné dans le Tableau	II / Form of coordination referred to in Table II / Formu	lario de coordinación r	emitido al cuadro II			
9.11 9.11A 9.12 9.12A 9.13 X 9.14 9.21/A 9.21/B 9.21/C RS33#2.1	hich do 9.11 to soudro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los № 9.11 a 9.14, 9.21 y RS33#2.1 que comuniquen sus observaciones a la ministración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el № 9.52 dentro del plazo señalado, no está afectada y, en el caso de los № 9.11 a 9.14 y RS33#2.1, se aplicarán las disposiciones de los № 9.49					
DATE LIMITE POUR LA DÉCISION / E	13.03.2013					

Output: CR/C Publication in BR IFIC DVD

>200

CR/C publications per year

* Averaged from 2005 to 2012







40%

Networks contain unfavourable findings*

* with 1 or more unfavourable assignments under No. 9.35/11.31



unfavourable = not protected & protect others



100% favourable possible ?

>2000

Affected networks to coordinate*

* Between GSO networks, under provision No. 9.7



Considering 7 year limit, 1 network per day to complete



Possible to manage?



Conformity with Radio Regulations (No. 9.35 of RR)



Coordination Requirements (No. 9.36 of RR)

Output: CR/C Publication in BR IFIC DVD

Detailed Look

- 1. Conformity with Radio Regulations
- 2. Coordination Requirements

Conformity with Radio Regulations

(No. 9.35 of RR)

Conformity with Table of Frequency Allocation & other provisions (PFD/EIRP Limits etc.)

Nos. 9.35, 11.31 of RR, RoP11.31

Summarize network

Frequency bands Direction of transmission Class of station/Services Beams/Service area

Summarize network

Frequency bands — Direction of transmission Class of station/Services Beams/Service area —

Compare with Table of Frequency Allocation

(Article 5 of Radio Regulations)

E/R	Freq	BW	MinFreq	MaxFreq	ClsStn	GU1/A	GU2/A	IC1/A	IKU/A
E	3422	40000	3402	3442	EC ●			Α	
E	3462	40000	3442	3482	EC			Α	
E	3502	40000	3482	3522	EC			Α	
E	3542	40000	3522	3562	EC			Α	
E	3582	40000	3562	3602	EC			Α	
E	3622	40000	3602	3642	EC			Α	
E	3662	40000	3642	3682	EC			Α	
Ε	3702	40000	3682	3722	EC			Α	
E	3742	40000	3722	3762	EC			Α	
E	3782	40000	3762	3802	EC			Α	
E	3822	40000	3802	3842	EC			Α	
E	3862	40000	3842	3882	EC			Α	
Ε	3902	40000	3882	3922	EC			Α	
E	3942	40000	3922	3962	EC			Α	
E	3982	40000	3962	4002	EC			Α	
Е	4022	40000	4002	4042	EC			Α	
E	4062	40000	4042	4082	EC			Α	
E	4102	40000	4082	4122	EC			Α	

Region 1 Region 2 Region 3 3 400-3 600 3 400-3 500 3 400-3 500 FIXED FIXED FIXED FIXED-SATELLINE FIXED-SATELLITE (space-to-FIXED-SATELLITE (space-to-(space-to-Earth) Earth) Earth) Mobile 5.430A Amateur Amateur Radiolocation Mobile 5.431A Mobile 5.432B Radiolocation 5.433 Radiolocation 5.433 5.282 5.282 5.432 5.432A 3 500-3 700 3 500-3 600 FIXED FIXED FIXED-SATELLITE (space-to-FIXED-SATELLITE (space-to-Earth) Earth) MOBILE except aeronautical MOBILE except aeronautical mobile 5.433A mobile Radiolocation 5,433 Radiolocation 5.433 5.431 3600-4200 3600-3700 FIXED FIXED FIXED-SATELLITE FIXED-SATELLITE (space-to-(space-to-Earth) Earth) Mobile MOBILE except aeronautical mobile Radiolocation 5.435 3 700-4 200 FIXED FIXED-SATELLITE (space to-Earth) MOBILE except aeronautical mobile Relevant footnotes

Example: MS Access query on SRS (com_el, grp, freq, srv_cls tables)





Frequency bands of network



Unfavourable (N-) if wrong Service or Direction of Transmission

Service area of network



If allocation to Region 1 only



Service area is split





Power-flux density limits (PFD) Articles 21, 22, footnotes, etc.

PFD = Power Density + 10log(Ref. Bandwidth) + G(theta) – 10log(4piR^2) dB(W/m2)

Where G = Gain of transmitting space station R = Distance from satellite to point on Earth's surface

EIRP limits Articles 21, footnotes, etc.



PFD (Terrestrial Services)

	GIBC SNS V7 - Graphical Interface for Batch Calculations	
Enter Network ID	Appendix 30 30A EPFD Tools / Options Chaining Manager PFD Appendix 8 PXT Appendix 7 Appendix 30B Operator ID: ng Schedule Start Network ID: Examination Data Examination: Hard Limits Region: Power Control (dBW): 0 Output Level: Level 1	Click Star
Select "Hard Limits"	"Before" Examination Perform "Before" Comparisons Previous Networks: Files Path	
	C:\BR_TEX_RESULTS\PFD\ 7.0.0.2 Part of TEX 7.0.0.1	FNDGS.LST
	EXIT	

PFD.LST

ALL FINDINGS WITH RESPECT TO HARD LIMITS ARE FAVORABLE PROGRAM SNSBPFD TERMINATED OK

PFD.LST

Beam name Maximum G	Group ID							
IC1 40.0 DB POINTING ACC 0.20 DEG 40000 RHZ 03.07.18	(FIXED)	112.520039	112.646945					
3422.00000 M 40000 KHZ 27M5G7W 23.8 DBW -50.6 (5) RR 21.16 FIXED-SATELLITE ALL WORLD	DBW/HZ 053E57 37N20 TKM	N- REF 38.3 -138.7 3.3 -142.0 1	0001 . BW 0.004MHZ N-					
3422.00000 M 40000 KHZ 64K0G7W2.5 DBW -50.6 (5) RR 21.16 FIXED-SATELLITE ALL WORLD	DBW/HZ 053E57 37N20 TKM	N- REF 38.3 -138.7 3.3 -142.0	0001 . BW 0.004MHZ N-					
3462.00000 M 40000 KHZ 27M5G7W 23.8 DBW -50.6 (5) RR 21.16 FIXED-SATELLITE ALL WORLD 3462.00000 M 40000 KHZ 64K0G7W2.5 DBW -50.6	DBW/HZ 053E57 37N20 TKM	N- REF 38.3 -138.7 3.3 -142.0 I	0002 . BW 0.004MHZ N-					
(5) RR 21.16 FIXED-SATELLITE ALL WORLD 3502_00000 M 40000 KHZ 27M5G7W 23.8 DBW -50.6	053E57 37N20 TKM DBW/HZ	REF 38.3 -138.7 3.3 -142.0 1 N-	. ви 0.004мнz N- 0003					
(5) <u>RR 21 16</u> FIXED-SATELLITE ALL WORLD	●053E57 37N20 TKM	38.3 -138.7 3.3 -142.0	. BW 0.004MHZ N-					
Reference to PFD limit								
Frequency assignment with excess (Frequency Bandwidth Emission Peak Power Maximum Power Density) Worst case coordinate & location								
GIBC Output Level 2 – A	Il locations with	th excess:						

AFG	3.0	ARM	2.5	ARS	0.5	AZE	3.2	BHR	0.2	GEO	1.6	IRQ	2.4
KAZ	0.9	KWT	1.6	OMA	3.1	PAK	3.0	QAT	1.4	RUS	1.7	TKM	3.3
TUR	1.6	UAE	2.9										

PFD.LST

IC1	40.0 DB	POINTING ACC	0.20 DEG	(FIXE	D)	112.52	0039		
EC	40000 KHZ	03.07.18						1	12.646945
3422.00000	м 40000	KHZ 27M5G7W	23.8 DBW -50	.6 DBW/HZ				N- 0001	
	(5) RR 21.16	FIXEI	D-SATELLITE					REF. BW	0.004MHZ
	ALL WORLD			053E57	37N20 TKM	38.3 -138.7	3.3 -	142.0 N-	
3422.00000	м 40000	KHZ 64K0G7W	-2.5 DBW -50	.6 DBW/HZ				N- 0001	
	(5) RR 21.16	FIXEI	D-SATELLITE					REF. BW	0.004MHZ
	ALL WORLD			053E57	37N20 TKM	38.3 -138.7	3.3 -	142.0 N-	
3462.00000	м 40000	KHZ 27M5G7W	23.8 DBW -50	.6 DBW/HZ				N- 0002	
	(5) RR 21.16	FIXEI	D-SATELLITE					REF. BW	0.004MHZ
	ALL WORLD			053E57	37N20 TKM	38.3 -138.7	3.3 -	142.0 N-	
3462.00000	м 40000	KHZ 64K0G7W	-2.5 DBW -50	.6 DBW/HZ				N- 0002	
	(5) RR 21.16	FIXEI	D-SATELLITE					REF. BW	0.004MHZ
	ALL WORLD			053E57	37N20 TKM	38.3 -138.7	3.3 -	142.0 N-	
3502.00000	м 40000	KHZ 27M5G7W	23.8 DBW -50	.6 DBW/HZ				N- 0003	
	(5) RR 21.16	FIXEI	D-SATELLITE					REF. BW	0.004MHZ
	ALL WORLD			053E57	37N20 TKM	38.3 -138.7	3.3 -:	142.0 N-	

Max Excess

Fixed beams • Unfavourable (N-) Split from groups with Favourable assignments Steerable beams •

PFD.LST

IC1	40.0 DB	POINTING ACC 0.20	0 DÉG (FIXE	D) 1 [.]	12.520039
EC	40000 KHZ	03.07.18			112.646945
3422.00000	м 40000	KHZ 27M5G7W 23.8	8 DBW -50.6 DBW/HZ		N- 0001
	(5) RR 21.16	FIXED-SA1	TELLITE		REF. BW 0.004MHZ
	ALL WORLD		053E57 3	37N20 TKM 38.3 -138	3.7 3.3 -142.0 N-
3422.00000	м 40000	KHZ 64K0G7W2.5	5 DBW -50.6 DBW/HZ		N- 0001
	(5) RR 21.16	FIXED-SA1	TELLITE		REF. BW 0.004MHZ
	ALL WORLD		053E57 3	37N20 TKM 38.3 -138	3.7 3.3 -142.0 N-
3462.00000	м 40000	KHZ 27M5G7W 23.8	8 DBW -50.6 DBW/HZ		N- 0002
	(5) RR 21.16	FIXED-SAT	TELLITE		REF. BW 0.004MHZ
	ALL WORLD		053E57 3	37N20 TKM 38.3 -138	3.3 -142.0 N-
3462.00000	м 40000	KHZ 64K0G7W2.5	5 DBW -50.6 DBW/HZ		N- 0002
	(5) RR 21.16	FIXED-SA1	TELLITE		REF. BW 0.004MHZ
	ALL WORLD		053E57 3	37N20 TKM 38.3 -138	3.7 3.3 -142.0 N-
3502.00000	м 40000	KHZ 27M5G7W 23.8	8 DBW -50.6 DBW/HZ		N- 0003
	(5) RR 21.16	FIXED-SA1	TELLITE		REF. BW 0.004MHZ
	ALL WORLD		053E57 3	37N20 TKM 38.3 -138	8.7 3.3 -142.0 N-

Max Excess



*2 Conditions Provide method to meet PFD limit & One location PFD limit is met (Annex 1 of RoP No. 21.16)

Steerable beams ------ Favourable (A-)*

*2 Conditions Provide method to meet PFD limit & One location PFD limit is met (Annex 1 of RoP No. 21.16)

Max Excess \leq 9.5 dB

(C, Ku, Ka-bands FSS GSO) (Globally steerable but actual value depends on PFD limits)
Conformity with RR (No. 9.35 of RR)



Top 3 Unfavourable Findings

EIRP/PFD hard limits exceeded Check GIBC/PFD results

2. Not in accordance with ToFA Check frequency bands, direction of transmission, class of station, service area

3. PFD limits exceeded for steerable beams and no method provided Submit reference to Annex 1 of RoP on No. 21.16 Conformity with RR (No. 9.35 of RR)

Only favourable frequency assignments will proceed ...



Coordination requirements

(No. 9.36 of RR)

Identify any administration with which coordination may need to be effected No. 9.36 of RR







Forms of coordination

UNION INTERNATIONALE DES TÉLÉC BUREAU DES RADIOCOMMU	COMMUNICATIONS INTERNATIONAL T NICATIONS RADIOCOM	ELECOMMUNICATION UNION UNION UNION	ÓN INTERNACIONAL DE TELECOMUNICACIONES OFICINA DE RADIOCOMUNICACIONES © I.T.U.			
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	UKMMSAT-A3	SECTION SPÉCIALE N ^O SPECIAL SECTION No. SECCIÓN ESPECIAL N. ^O	CR/C/3186			
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2732 / 13.11.2012			
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	5 W NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112520178			
RENSEIGNEMENTS REÇUS PAR LE BUR	EAU LE / INFORMATION RECEIVED BY THE BURE	AU ON / INFORMACIÓN RECIBIDA POR LA	OFICINA EL 09.05.2012			
Cette demande de coordination, reçue par le Burea vertu du numéro 9.30 du Règlement des radiocomr titre des numéros 9.35 et 9.36 et est publiée confo est subordonnée au type de coordination indiqué d un X dans la case pertinente.	u des radiocommunications en nunications, a été examinée au prriément au numéro 9.38. Elle dans la colonne de gauche par form of coordination indicat	tion, received by the Radiocommunication Burea e Radio Regulations, has been examined under Nos shed in accordance with No. 9.38. It is subject to th ed in the left-hand column by an X in the relevant bo	Esta solicitud de coordinación, recibida por la Oficina de u Radiocomunicaciones de conformidad con el punto Nº 9.30 del s. Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nº ⁵ 9.35 y 9.35 y se publica de conformidad con el Nº 9.38. Está x sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.			
Type de coordination mentionné dans le Tableau I	/Form of coordination referred to in Table I / Forma de coordi	inación mencionada en el cuadro l				
X 9.7 9.7A 9.7B X AP30#7.1 AP30A#7.1 RS539 RS53#3	Conformément aux numéros 9.50 à 9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de communiquer leur décision à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous.	aux numéros 9.50 à 9.52 du Règlement inications, les Administrations identifiées i ci-après sont priées de communiquer Administration responsable et au Bureau it eindiquée ci-dessous.				
Type de coordination mentionné dans le Tableau I	I / Form of coordination referred to in Table II / Formulario de	coordinación remitido al cuadro II				
9.11 9.11A 9.12A 9.12A 9.13 X 9.14 9.21/A 9.21/B 9.21/C RS33#2.1	Les Administrations, énumérées ou non-énumérées dans le Tableau II ci-après, qui n'acceptent pas la demande de coordination au titre des numéros 9.11 à 9.14, 9.21 et R33#2.1, sont priées de communiquer leurs observations à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous. Toute Administration qui ne réagira pas au titre du numéro 9.52 avant cette date limite sera considérée comme n'étant pas défavorablement influencée et, dans les cas couverts par les numéros 9.11 à 9.14 et RS33#2.1, les dispositions des numéros 9.48 et 9.49 s'appliqueront.	Administrations listed or not listed in Table II below not agree to the request for coordination under N. 9.14, 9.21 and RS33#2.1 are requested to commun comments to the responsible administration and t by the deadline indicated below. Any administ responding under No. 9.52 within this deadline regarded as unaffected and, in the cases of Nos. 9 and RS33#2.1, the provisions of Nos. 9.48 and apply.	Y, which do os. 9.11 to vicate their he Bureau tration not a shall be 1.11 to 9.14. Solution of the transmission of the share tration not a shall be 1.11 to 9.14. Solution of the transmission of the share 1.11 to 9.14. Solution of the transmission of the share of the share of the transmission of the share of the transmission of the shall be 1.11 to 9.14. Solution of the transmission of the transmission of the shall be transmission of the transmission of the transmission of the shall be transmission of the transmission of the transmission of the transmission of the transmission of the shall be transmission of the transmission of transmission of transmission of the transmission of transmission			
DATE LIMITE POUR LA DÉCISION / E	EXPIRY DATE FOR DECISION / FECHA LÍMITE	E PARA LA DECISIÓN	13.03.2013			



Forms of coordination

Туре	e de coo	ordination mentionné dans le Tableau I
×	9.7	
	9.7A	
	9.78	
X	AP3	0#7.1
	AP3	0A#7.1
	RS5	39
	RS3	3#3
Туре	e de coo	ordination mentionné dans le Tableau II
	9.11	
	9.11	A
		9.12
		9.12A
		9.13
	Х	9.14
	9.21	/A
	9.21	/B
	9.21	/C
	RS3	3#2.1

Network Summary

E/R	Freq	BW	MinFreq	MaxFreq	ClsStn	GU1/A	GU2/A	IC1/A	IKU/A
Е	3422	40000	3402	3442	EC			Α	
Е	3462	40000	3442	3482	EC			Α	
Е	3502	40000	3482	3522	EC			Α	
Е	3542	40000	3522	3562	EC			Α	
Е	3582	40000	3562	3602	EC			Α	
Е	3622	40000	3602	3642	EC			Α	
Е	3662	40000	3642	3682	EC			Α	
Е	3702	40000	3682	3722	EC			Α	
Е	3742	40000	3722	3762	EC			Α	
Е	3782	40000	3762	3802	EC			Α	
Е	3822	40000	3802	3842	EC			Α	
E	3862	40000	3842	3882	EC			Α	
E	3902	40000	3882	3922	EC			Α	
E	3942	40000	3922	3962	EC			Α	
E	3982	40000	3962	4002	EC			Α	
Е	4022	40000	4002	4042	EC			Α	
E	4062	40000	4042	4082	EC			Α	
Е	4102	40000	4082	4122	EC			Α	
÷									

Identify forms of coordination

Article 9 & Appendix 5 for criteria Article 5 footnotes (9.21, 9.11A) Rules of Procedure (9.11A) Articles 7 of Appendices 30, 30A Resolutions 33, 539



Туре	e de coo	ordination mentionné dans le Tableau I							
X	9.7								
	9.7A								
	9.7B								
х	AP30#7.1								
	AP3	0A#7.1							
	RS5	39							
	RS3	3#3							
Туре	e de coo	ordination mentionné dans le Tableau I							
	9.11								
	9.11	A							
		9.12							
		9.12A							
		9.13							
	Х	9.14							
	9.21	/A							
	9.21	9.21/B							
	9.21	/C							
	RS3	3#2.1							

Identify forms of coordination

Article 9 & Appendix 5 for criteria Article 5 footnotes (9.21, 9.11A) Rules of Procedure (9.11A) Articles 7 of Appendices 30, 30A Resolutions 33, 539





90%

of satellite networks in SRS are GSO (No. 9.7: GSO vs GSO)

Appendix 8 🔍	GIBC SNS V7 - Graphical Interface for Batch Calculations	
Enter Network ID	Appendix 30 30A EPFD Tools / Options Chaining Manager PFD Appendix 8 PXT Appendix 7 Appendix 30B Operator ID: ng Schedule Stat Stat Network ID:	Click Start
sample DT/T cases 1 - Per administration 2 - Per group 3 - Per assignment	Transaction ID: Sat. Network Symbol: Date Date Year - Month - Day 1984 Files Path C:\BR_TEX_RESULTS\AP8\ 7.0.0.6 Part of TEX 7.0.0.1 EXIT	APP8.LST APP8_OPT.LST batchresults.bk batchresults.mdb FNDG52.SORT FNDG52.TXT FNDG5.LST FNDGS.TXT MSG.LST NTW_LST PARAM2.TXT PARAM2.TXT APP8_OPT.LST PARAM2.TXT PARAM2.TXT

APP8.LST"Coordination & Analysis of GSO Satellite--- DT/T > 6%Networks" Space Workshop – WRS12/

START OF JOB SNSBAP29 12.11.12 14.42.11 VERSION 7.	0.0.6 312520007 2	ng1GNN NN
SNS AP 8 /G /Case II for PACIFISAT-7 (31252000	7) EXAMINATION REQUESTED BY : ng DA	ATE: 12/11/12 14:42:11
EXI UP-LINK IS AFFECTED MANDATORY I S PNG FACIFISAT-7 65.00E 0.05 0.012500 G KA6R EC M 45.4 DB 45.4 DB 45.4 DB 45.4 DB 45.4 DB	EXAMINATION 250000 K 18.04.12	DT/TS = 2983.25 % C312.520007/312.661424/0001
E S NOR SE-KA-64E 64.00E 0.05 0.05 30.50000 G USU3 EI CR 43.0 DB 43.0 DB 5 260KG7W 9.3 DBW -44.8 DBW/HZ -44.8 DBW/HZ (TOT. BW) I E PNG TYPICAL-KA0.9M 136E1516 35S3730 REC-580-6	2D:10:0000 K 11.11.11 49 K 2D:11.11.11 47.1 DB 31.5 DB	A C111.520400/111.696649/0001 DT/TS = 2983.25 %
INC UP-LINK IS AFFECTED MANDATORY I S PNG PACIFISAT-7 65.00E 0.05 0.05 30.12500 G KA6R EC M 45.4 DB 45.4 DB 8 45K0G1W0.1 DBW -46.6 DBW/HZ -46.6 DBW/HZ (TOT. BW) E S NOR SE-KA-64E 64.00E 0.05 0.05 30.50000 G	EXAMINATION 250000 K 18.04.12 60 K 2D:18.04.12 1000000 K 11.11.11	DT/TS = 18856.86 % C312.520007/312.661424/0001 DT/TS = 18856.86 % A C111.520400/111.696649/0001
USU3 EI CR 43.0 DB 260KG7W 9.3 DBW -44.8 DBW/HZ -44.8 DBW/HZ (TOT. BW) E E NOR KA1 130E0919 0550520 REC-580-6	2D:11.11.11 41.1 DB 37.0 DB	
EXI DOWN-LINK IS AFFECTED MANDATORY : I S PNG PACIFISAT-7 65.00E 0.05 0.05 20.32500 G KA1R EC M 45.4 DB 45.4 DB 45K0G1W8 9 DBW -55.4 DBW/HZ -55.4 DBW/HZ (TOT BW)	EXAMINATION 250000 K 18.04.12 2D.18.04.12	DT/T = 742.02 % C312.520007/312.661309/0001
E S D GENESIS-9 63.00E 0.10 0.10 20.22000 G D1KR EI CR 33.9 DB 3M00G7W 3.8 DBW -60.9 DBW/HZ -60.9 DBW/HZ (TOT. BW) E E D SGT, LARGE 129E2026 10S1221 AP8 261 K -12.2 DB SGT, LARGE 2654 K 3.9 DB SGT, LARGE	2D:24.10.03 2D:24.10.03 58.0 DB 24.9 DB DT/T D = 742.02 % DT/T D = 72.97 %	A C103.520331/103.641862/0001 200 K DT/TE = 968.34% DT/T = 742.02 % DT/T = 72.97 %
INC DOWN-LINK IS AFFECTED MANDATORY I S FNG PACIFISAT-7 65.00E 0.05 0.05 20.32500 G KA1R EC M 45.4 DB	EXAMINATION 250000 K 18.04.12	DT/TE = 81.13 % C312.520007/312.661309/0001
45k061w -8.9 DBW -55.4 DBW/HZ -55.4 DBW/HZ (TOT. BW) E S D GENESIS 63.00E 0.10 0.10 20.22000 G D1KR EI CR 33.9 DB 33.9 DB 33.9 DB	2D:18.04.12 30000 K 20.12.04	A C103.520331/103.641862/0001
3M00G/W 3.8 DBW -60.9 DB W/HZ -60.9 DBW/HZ (TOT. BW) I E PNG TYPICAL-KA0.3M 029E2222 05S05 21 REC -580-6	2D:24.10.03 33.8 DB 30.0 DB	180 K DT/TE = 81.13%
Existing network	Network under Satellite name Longitude Roam Maximum Cain	e Frequency
Associated ES	Frequency Assignment F	Power characteristics Date of protection

9.7 Coordination Arc

WRC-12 reduced CA for C & Ku-bands to 8 & 7 degs

	SUMMARY FOR TRAN	SACTION :	с	312.520	007	PAC	IFISAT-7		PNG						
	9.7 TRIG	GER ARC ADM:		AZE.	CHN. CYF	P. D. F.	G. HOL.	IRN, IS	R. J. KAZ.	NOR.	QAT. RUS	. RUS/IM	C. UAE.	USA	
KA2R	R G312.661285	27 GHZ	:	AZE	CHN	CYP	F	G	HOL	IRN	ISR	΄ J	KAZ	NOR	
				QAT	RUS	RUS/I	K UAE								
KA2R	R G312.661286	27 GHZ	:	AZE	CHN	CYP	F	G	HOL	IRN	ISR	J	KAZ	NOR	
				QAT	RUS	RUS/I	K UAE								
KA2R	R G312.661287	27 GHZ	:	AZE	CHN	CYP	F	G	HOL	IRN	ISR	J	KAZ	NOR	
W 3 3 D	D 0313 (01300	27.007		QAT	RUS	RUS/II	K UAE	~		TDM	TOD	-	77.7	NOD	
KAZR	R G312.001200	27 GH2		AZE ONT	DUS	DIG/T	ים שתוו ש	G	HOL	IRN	ISK	0	KA2	NOR	
87.2D	P C312 661289	27 GH7		DAT AZE	CHN	CVD	R UAL	G	HOL	TDM	TSP	л	KN 7	NOR	
MALK	R 0012.001209	27 0112	•	OAT	BUS	RUS/TI	K UAE	0	1101	1100	IDK	0	IGA 2	NOR	
	97	T/T		2	1.02	100, 1									
	9.7 AP 8 MAN	IDATORY ADM:)	ARS,	AUS, CHN	I, CYP,	D, E, F,	G, GRC	:, I, J, KOR	, LUX,	MLA, NO	r, Pak, I	QAT, R	JS, RUS/IK,	S, TUR,
UAE, US	SA														
KA2R	R G312.661285	27 GHZ		F											
KA2R	R G312.661286	27 GHZ		F											
KA2R	R G312.661287	27 GHZ		F											
KA2R	R G312.661288	27 GHZ		F											
KAZR	R G312.661289	27 GHZ		F											
KAZR	R G312.661290	27 GHZ		F											
KAZR Ma 2 D	R G312.661291	Z/ GHZ		F.	F										
KAZR WA2D	R G312.001391 P G312 661302	28 GHZ 30 GHZ		APS	AUS	CHN	CVP	D	F	F	G	GPC	т	.7	
INALIN	R 0312.001352	30 6112		KOR	LUX	NOR	PAK	OAT	BUS	5	UAE	USA	-	0	
KA2R	R G312.661393	28 GHZ		CHN	F		1740	2	1000	2	0142	UDA			
KA2R	R G312.661394	30 GHZ		ARS	AUS	CHN	CYP	D	F	G	GRC	I	J	KOR	
				LUX	NOR	PAK	OAT	RUS	UAE	USA					
	SUMMARY FOR TRANS	ACTION :	с	312.5200	007	PACT	FTSAT-7		PNG						
	0.2	1 70 9 704.			CABLE)						0.21	/Λ			
	SUMMARY FOR TRANS	ACTION :	(110 C	312.520	007	PACT	FTSAT-7		PNG		3.21	A			
	DG22 ADC	7.04.								/		<u> </u>			
	SIMMADY FOD TDANS	ALM:	(140	312 5200		PACT	FTSAT-7		PNG		RS3	3 (97	for AP	I from 01	$(01 \ 1999)$
				TADDII		1401			1110	•					
	K533 AF 8 MAN	DATORY ADM:		212 5200		DACT	דייי-7		DNC		V30/	\#7	1		
	SOMMARI FOR IRANS	ACTION :	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			FACI	FISAI-/		PNG		N 307	\mathbf{T}	1		
	AP30A	7.1 CASE I:		1 APPLI	CABLE)	DAGT	DT CAR 7		DNG						
	SUMMARI FOR TRANS	ACTION :	C	312.3200	007	PACI	FISAT-/		ENG						
	AP30A 7	.1 CASE II:		ISR											
KALR RA1D	E G312.661264 E G312 661265	1/ GHZ 17 GHZ	÷.	1 SR											
KAIR	E G312.661265	17 GHZ		LSR											
	2 2012.001200														

APP8.LST (cont.)

NTW.LST

A = Recorded in MIFR / Already published T = Under examination

N = Notification / C = Coordination

Admin	Réseau Network Red	Position Position Posición	A/T1	N/C ²	Numéro ID ID Number Número ID	C₃	R₄	A ⁵
ARS	SAUDI-FMSS-7-R1	29.00E	Α	С	109.520338	С	R	
	STRATSAT-5-R1	41.00E	A	C	109.520339	C	R	
AUS	ADF 152E GOVR	152.00E	Α	С	108.520304		R	
	ADF 156E GOV	156.00E	Α	С	102.520061	С		
	ADF 156E GOV	156.00E	Α	N	110.500203	С		
	ADF 160E GOVR	160.00E	Α	С	108.520305		R	
	ADF 164E GOVR	164.00E	Α	С	108.520306		R	
	DDSP-104E	104.00E	Α	С	108.520294	C	R	
	DDSP-108.5E	108.50E	Α	С	108.520295	С	R	
	DDSP-2	88.00E	Α	С	111.520201	С	R	
	DDSP-2	88.00E	Т	N	112.500083	С	R	
	DDSP-4	95.00E	Α	С	111.520202	С	R	
AZE	AZERSAT B1	58.50E	A	С	110.520124			А
	AZERSATC	62.00E	А	С	111.520481			• A

- C = Network causing interference
- R = Network receiving interference
- A = Coordination Arc

Batchresults.mdb > tr_aff_ntw

- Filter or Sort

								•							
ntc_id 👻	coord_prov 🕞	agree_st 👻	aff_ntc_id 👻	adm 👻	ntwk_org 👻	ctry 👻	sat_name 👻	long_nom 👻	ntf_rsn 👻	coord_st 👻	st_aff 👻	f_cause 👻	f_rec 👻	d_prot_inc 👻	wic_no 👻
312520007	9.7	т	109520338	ARS			SAUDI-FMSS-7-R1	29	С		50	С	R	18.04.2012	9999
312520007	9.7	т	109520339	ARS			STRATSAT-5-R1	41	С		50	С	R	18.04.2012	9999
312520007	9.7	т	99520509	AUS			AUSSAT C 156E GOV	156	С		50	С		18.04.2012	9999
312520007	9.7	т	102520061	AUS			ADF 156E GOV	156	С		50	С		18.04.2012	9999
312520007	9.7	т	104500282	AUS			AUSSAT C 156E GOV	156	N		50	С		18.04.2012	9999
312520007	9.7	т	105520353	AUS			ADF WEST-2	88	С		50		R	18.04.2012	9999
312520007	9.7	Т	105520356	AUS			ADF WEST-5	104	С		50		R	18.04.2012	9999
312520007	9.7	т	107520068	AUS			AUSSAT C 156E GOVR	156	С		50		R	18.04.2012	9999
312520007	9.7	Т	108520294	AUS			DDSP-104E	104	С		50	С	R	18.04.2012	9999
312520007	9.7	т	108520295	AUS			DDSP-108.5E	108.5	С		50	С	R	18.04.2012	9999
312520007	9.7	Т	108520304	AUS			ADF 152E GOVR	152	С		50		R	18.04.2012	9999
312520007	9.7	Т	108520305	AUS			ADF 160E GOVR	160	С		50		R	18.04.2012	9999
312520007	9.7	т	108520306	AUS			ADF 164E GOVR	164	С		50		R	18.04.2012	9999
312520007	9.7	Т	110500203	AUS			ADF 156E GOV	156	N		50	С		18.04.2012	9999
312520007	9.7	Т	111520200	AUS			DDSP-1	86	С		50	С	R	18.04.2012	9999
312520007	9.7	т	111520201	AUS			DDSP-2	88	С		50	С	R	18.04.2012	9999
312520007	9.7	Т	111520202	AUS			DDSP-4	95	С		50	С	R	18.04.2012	9999
312520007	9.7	Т	112500083	AUS			DDSP-2	88	N		20	С	R	18.04.2012	9999
312520007	9.7	Т	112500085	AUS			ADF WEST-2	88	N		20		R	18.04.2012	9999
312520007	9.7	А	110520124	AZE			AZERSAT B1	58.5	С		50			18.04.2012	9999
312520007	9.7	Α	111520481	AZE			AZERSAT C	62	С		50			18.04.2012	9999

"Coordination & Analysis of GSO Satellite Networks" Space Workshop on tips to reduce coordination requirements

For a concise network list (eg. band specific): Delete beams/groups of network with SpaceCap & re-run GIBC

Batchresults.mdb > queries Example: com_el + grp + srv_cls + provn

ntc_id 👻	sat_name 👻	emi_rcp 👻	beam_name 👻	freq_min 👻	freq_max 👻	stn_cls 👻	coord_prov 👻	agree_st 👻	adm 👻	ntwk_org 👻
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	AZE	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	CHN	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	CYP	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	F	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	G	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	HOL	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	IRN	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	ISR	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	J	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	KAZ	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	NOR	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	QAT	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	RUS	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	RUS	IK
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	А	UAE	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	Т		
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	A30A#7.1	Т	ISR	





 PF	Đ	(T	err	restria	I Ser	vices)
			e			

Examination: Trigger

GIBC SNS V7 - Graphical Interface for Batch Calculations
Appendix 30 30A EPFD Tools / Options Chaining Manager PFD Appendix 8 PXT Appendix 7 Appendix 30B
Operator ID: ng Schedule Start
Network ID:
Examination Data Examination: Triggers
Power Control (dBW): U Uutput Level: Level 1
"Before" Examination
Previous Networks:
Files Path
C:\BR_TEX_RESULTS\PFD\
7.0.0.2 Part of TEX 7.0.0.2
EXIT

Enter Network ID

Click Start

PFD (Terrestrial Services)

START F JOB SNSBFFD 05.11.13 12.35.30 VERSION 7.3.0.0 107520297 T muluk 01N
SPACE STATION PFD VALUES WILL BE CHECKED AGAINST COORDINATION LIMITS ONLY
SNS TRIGGER LIMITS for TURK SAT-73.5E-B (107520297) EXAMINATION REQUESTED BY : muluk DATE: 05/11/13 12:35:30

TUR	TURKSAT-73	.5E-B	7:	3.25E	0.10 0.3	10			27	7.06.0	8				C 1/	07.520297
TL1R	39	.0 DB	POINT	ring a	CC 0.10) DEG					107.	52029	7			
EI	340	00 KHZ	29.0	6.14											A- 1	07.669627
1542.000	00 M	34000	KHZ 1M	43G7W	- 31.5 1	DBW -	30.0 DBW/	/HZ						A-	0001	
	(51) RR	5.354		MO	BILE-SAT	ELLITE								REF	. BW	1.000MHZ
	REGIONS	1 AND	3				(002W39	14N08 MI	I	39.0	-94.3	33.7 -	-128.0	N-	
	AFG	24.7	AFS	26.4	AFS/MRN	24.2	AGL	27.1	ALB	27.7	ALG	33.7	AND	33.7		
	ARM	24.4	ARS	24.7	AUS	33.7	AUS/CHR	24.6	AUS/HMD	24.3	AUS/ICO	24.8	AUT	31.9		
	AZE	24.4	BDI	24.5	BEL	33.7	BEN	32.0	BFA	33.7	BGD	24.7	BHR	24.6		
	BIH	29.5	BLR	29.5	BOT	24.4	BRM	24.8	BRU	24.5	BTN	24.7	BUL	27.1		
	CAF	25.1	CBG	24.7	CHN	31.3	CHN/HKG	24.4	CHN/MAC	24.4	CLN	24.9	CME	28.0		
	COD	26.2	COG	26.7	COM	24.7	CTI	33.7	CVA	30.1	CYP	24.3	CZE	31.6		
	D	33.7	DJI	24.7	DNK	33.7	Е	33.7	EGY	24.5	ERI	24.7	EST	31.2		
	ETH	24.7	F /AMS	24.6	F /CRO	24.3	F	33.7	F /KER	24.3	F /MYT	24.7	F /REU	24.8		
	FIN	33.7	FSM	33.7	G /DGA	24.9	G	33.7	G /GIB	33.6	G /SHN	33.7	GAB	27.9		
۶	GEO	24 4	CHY	22 7	CMF	20 5	GPC	27.2	CITT	33 E	HMC	20 8	HOT	33 7		

9.11, 9.14, 9.21/C





PFD (Space Services) _

	GIBC SNS V7 - Graphical Interface for Batch Calculations 🛛 🗔 🖾							
	Appendix 30 30A EPFD Tools+Uptions Chaining Manager PFD Appendix 8 PXT Appendix 7 Appendix 30B							
	Operator ID: ng Schedule Start							
	Network ID:							
Enter	BSS (21.4 - 22 GHz) Output Level: Level 1							
Network ID	Power Control (dBW):							
	Existing Check Against Existing Administration ID:							
	Transaction ID: Sat. Network Symbol:							
Click Start	□ Perform "Before" Comparisons							
	Previous Networks:							
	C Files Path							
	C:\BR_TEX_RESULTS\PXT\							
	7.0.0.4 Part of TEX 7.0.0.2							
	EXIT							



Conformity with Radio Regulations (No. 9.35 of RR)



Coordination Requirements (No. 9.36 of RR)

Output: CR/C Publication in BR IFIC DVD



Publication

Network ID – Date of Receipt –



UNION INTERNATIONALE DES TÉLÉ BUREAU DES RADIOCOMMU	COMMUNICATIONS NICATIONS	INTERNATIONAL TE RADIOCOM		NICATION UNION UNION	INTERNACIONAL D OFICINA DE RADIO	COMUNICACIONES © I.T.U.		
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	UKMMS	AT-A3		SECTION SPÉCIALE Nº SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		CR/C/3186		
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	27	32 / 13.11.2012		
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	LONGITUDE NO NOMINAL LON LONGITUD NO	GITUDE 33.5	5 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112520178			
RENSEIGNEMENTS REÇUS PAR LE BUR	EAU LE / INFORMATION R	ECEIVED BY THE BURE	AU ON / IN	FOR MACIÓN RECIBIDA POR LA O	FICINAEL	09.05.2012		
Cette demande de coordination, reçue par le Burea vertu du numéro 9.30 du Règlement des radiocomr titre des numéros 9.35 et 9.36 et est publiée confo est subordonnée au type de coordination indiqué e un X dans la case pertinente.	u des radiocommunications en munications, a été examinée au rmément au numéro 9.38. Elle dans la colonne de gauche par	This request for coordinat pursuant to No. 9.30 of the 9.35 and 9.36 and is publis form of coordination indicate	fion, received Radio Regui shed in accor ed in the left-h	I by the Radiocommunication Bureau ations, has been examined under Nos. dance with No. 9.38. It is subject to the and column by an X in the relevant box	Esta solicitud de Radiocomunicaciones Reglamento de Radioc con los N ^{as} 9.35 y 9.36 sujeta al formulario o izquierda con una X es	coordinación, recibida por la Oficina de de conformidad con el punto N°9.30 del comunicaciones, se ha examinado de conformidad § yse publica de conformidad con el N°9.38. Está de coordinación indicado en la columna de la n la casilla correspondiente.		
Type de coordination mentionné dans le Tableau I	/ Form of coordination referred	toin Table I/Forma de coordi	inación menci	onada en el cuadro l				
X 9.7 9.7A 9.7B X AP30#7.1 AP30A#7.1 RS539 RS5346	9.7 9.7 9.7A Conformément aux numéros 9.50 à 9.52 du Règlement des radiccommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de communiquer AP30A#7.1 AP30#7.1 Ieur décision à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous.				In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.			
Type de coordination mentionné dans le Tableau l	I/ Form of coordination referred	to in Table II / Formulario de c	coordinación r	emitido al cuadro II				
9.11 9.11A 9.12 9.12A 9.13 X 9.14 9.21/A 9.21/B 9.21/C RS33#2.1	Les Administrations, énuméré le Tableau II ci-après, qui n'a coordination au titre des nur R\$33#2.1, sont prièes de com à l'Administration responsable limite indiquée ci-dessous. T réagina pas au titre du numére sera considérée comme n' influencée et, dans les cas cou 9.14 et R\$33#2.1, les dispor 9.49 s'appliqueront.	es ou non-énumérées dans coeptent pas la demande de méros 9.11 à 9.14, 9.21 et muniquer leurs observations e et au Bureau avant la date foute Administration qui ne 9.952 avant cette date limite dératr pas déravorablement verts par les numéros 9.48 et	Administrati not agree to 9.14, 9.21 a comments to by the deas responding regarded as and R\$33# apply.	ions listed or not listed in Table II below, wh the request for coordination under Nos. 1 nd RS 33#2.1 are requested to communical to the responsible administration and the 1 idline indicated below. Any administratio under No. 9.52 within this deadline st unaffected and, in the cases of Nos. 9.11 2.1, the provisions of Nos. 9.48 and 9.4	hich do 9.11 to to the the in Bureau on not hall be 9 shall 9 shall 9 shall 9 shall 9 shall 9 shall 9 shall 9 shall 9 shall 9	las administraciones, enumeradas o no en el se no estén de acuerdo con la solicitud de de conformidad con los N ⁶⁶ 9,11 a 9,14, 9,21 y que comuniquen sus observaciones a la n responsable y a la Oficina dentro del plazo s abajo. Se considerará que toda administración onda de conformidad con el Nº 9,52 dentro del do, no está afectada y, en el caso de los N ⁶⁶ 9,11 a 12,1, se aplicarán las disposiciones de los N ⁶⁶ 9,48		
DATE LIMITE POUR LA DÉCISION / E	EXPIRY DATE FOR DEC	ISION / FECHA LÍMITE	E PARA LA	DECISIÓN		13.03.2013		

Deadline for comments



	Таbleau I /Table I /Cuadro I /波— /Таблица I / I الجدول ا									
Disposition / Provision / Disposición / 条款 /			Résumé des conditions régissant la coordination	Résumé des conditions régissant la coordination Summary of coordination requirements						
الحكم / Положение			协调要求概述	Сводные потребно	сти в координации	موجز بمتطلبات التنسيق				
X 9.7 B, CHN, CLM, E, HOL, I, ISR, LUX, RUS/IK, RUS, UAE, USA										
	9.7A									
	9.7B									
x	AP30#7.1		CPV, E, ISL, ISR, LBR, LUX, SRL, UAE, USA							
	AP30A#7.1									
	RS539									
	RS33#3									
-										

Summary of affected administrations for entire network (mandatory)

"SpaceCom - Comments under No. 9.41" CR/E Space Workshop – WRS12



			Table	au II /Table II /Cuadro II /表二 /Таблица II / II رل	/Table II /Cuadro II /表二 /Таблица II / II الجدول ا						
Dis	sposition / Pro Disposición / §	vision / 条款 /	Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1)	otentially affected administrations (for information only, see No. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1)						
ſ	Положение /	الحكم	可能受影响的主管部门(仅供参考,见第 9.36.1款)	Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	إدارات يحتمل أن تتأثر تأثراً غير موات (انظر الرقم 1.36.9، على سبيل الاطلاع فقط)						
9.	.11										
9.	.11A										
	9.12										
	9.12A										
	9.13										
×	9.14		ARG, CAN, CHL/PAQ, CHL, DNK/GRL, F/CPT, NOR,								
9.	.21/A ¹	\rightarrow									
9.	.21/B										
9.	21/C		<u></u>								
¹ 9.21// ¹ 9.21// ¹ 9.21// ¹ 9.21// 1 9.21// التوالي.	A, 9.21/B ar A, 9.21/B ar A, 9.21/B 纲 A, 9.21/B 和 A, 9.21/B и حلى	d 9.21/C - 4 9.21/C - De 9.21/C - # 9.21/C - # 9.21/C - 8 الأرض ومحطا	Under No. 921, administrations with GSO networks, Nor e conformidad con el № 921, administraciones con redes 法据第9,21款, 分別为有对地静止卫星轨道网络、非对地静止 соответствии сп. 9.21 администрации, имеющие сети ы شبكات مستقرة بالنسبة إلى الأرض وشبكات غير مستقرة بالسبة إلى	n-GSO networks and terrestrial stations, respectiv s OSG, redes no OSG y estaciones terrestres, res 止卫星轨道网络和地面站的主管部门 ГСО, сети НГСО и наземные станции, соответ 9.21/А ¹ е.21/В.9.21/А ¹	rene, respectivement. pectivamente. гственно.						
				Summary of affe	ected administrations fo						
"Cr	0000	om	Commonto undor Noo	entire network (tor into)						
Sp	acec	- 1110,	- Comments under NOS.	Comment within	1 months also						
.11-	9.14	/9.21	I" CR/D Space Worksho – WRS12	agreement							

	SECTION SPECIALE / SPECIAL SECTION / SECCIÓN E	SPECIAL / 特节 / СПЕЦИАЛЬНАЯ (القسم الخاص / СЕКЦИЯ						CR/C/318	36
t	A A1a Sat. Network UKMMSAT-A3	A1f1 Notifying adm. G	A1/3 Inter. sat. org.		BR1 Date of receipt	09.05.2012	BR20/BR21	BR IFIC no./pa	art 2732/	_
ſ	BR6a/BR6b ld.no. 112520178	BR3a/BR3b Provision reference	9.6	с	BR2 Adm. serial no.			1		

Recouvrement des coûts / Cost recovery / Recuperación de costes / 成本回收 / Возмещение расходов / استرداد التكاليف /

B1a	B2	BR8	BR7a	BR9	13A	C3a		BR47	BR15	BR53	C4a	BR54	BR55
Beam	Emi-Rcp	Action	Group id.	Action	Conformity	Assigned	Frequence	cy band (MHz)	Provision reference	Nb of	Class of station	Nb of	Nb of units
designation		code		code	with RR	freq. band				freq.		emiss.	L
SIX	R		112665648		A	250000	13750	- 14000	9.7	1	BC	1	1
		[112665649		A	250000	13750	- 14000	9.7	1	BC	1	1
		[112665650		A	500000	14000	- 14500	9.7	1	EC	1	1
		[112665651		A	500000	14000	- 14500	9.7	1	EC	1	1
			112665652		A	500000	14000	- 14500	9.7	1	EC	1	1
		[112665653		A	500000	14000	- 14500	9.7	1	EC	1	1
		[112665654		A	250000	13750	- 14000	9.7	1	ED	1	1
		[112665655		A	500000	14000	- 14500	9.7	1	ED	1	1
			112665656		A	250000	13750	- 14000	9.7	1	EC	1	1
FIVE	Е		112665633		N	250000	12500	- 12750		1	BC	1	1
FOUR	Е		112665634		A	250000	12500	- 12750	9.7,A30#7.1	1	EC	1	1
		1 1	112665635		A	250000	12500	- 12750	9.7,A30#7.1	1	EC	1	1
		[112665636		A	250000	12500	- 12750	9.7,A30#7.1	1	BC	1	1
			112665637		A	250000	12500	- 12750	9.7,A30#7.1	1	EK, ER	1	2
ONE	Е		112665638		A	250000	10950	- 11700	9.7	2	BC	1	2
		[112665639		A	250000	10950	- 11700	9.7	2	EC	1	2
		[112665640		A	250000	10950	- 11700	9.7	2	EC	1	2
			112665641		A	250000	10950	- 11700	9.7	2	EK, ER	1	4
THREE	Е		112665642		A	500000	11700	- 12200	9.14,9.7,A30#7.1	1	BC	1	1
		[112665643		A	500000	11700	- 12200	9.14,9.7,A30#7.1	1	BC	1	1
		[112665644		A	500000	11700	- 12200	9.14,9.7,A30#7.1	1	BC	1	1
		[112665645		A	500000	11700	- 12200	9.14,9.7,A30#7.1	1	EC	1	1
			112665646		A	500000	11700	- 12200	9.14,9.7,A30#7.1	1	EK, ER	1	2
TWO	Е		112665647	[N	250000	10950	- 11700		2	BC	1	2
					•				•				
BR57 Category													C2
BR56 Total nun	nber of units	8											33

Conformity with RR A-: Favourable N-: Unfavourable

Forms of coordination





SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 狩市 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الحامي О							
A A1a Sat. Network UKMMSAT-A3	A1f1 Notifying adm. G A1f3	Inter. sat. org. BR1 Date of rec	ipt 09.05.2012 BR20/BR21 BR IFIC no./part 2732/	_			
BR6a/BR6b ld no. 112520178	BR3a/BR3b Provision reference 9.6	C BR2 Adm. serial	10.				

On trouvera le résumé de la transaction contenant les caractéristiques détaillées de la présente Section Spéciale CR/C dans le document:	The transaction sum characteristics of the can be found in the do	mary contain present Spectocument:	ning the d cial Sectior	letailed n CR/C	El resumen de la transacción, en el que se incluyen las características detalladas de la presente Sección Especial CR/C, figura en el documento:			
CRC3186 T pdf	CRO	C3186 T.pdf				CRO	C3186 T.pdf	
<u></u>	<u></u>							
		T						
包含本CR/C特节详细特性的资料处理概要见以下文件:	Со сводкой о транзак характеристики наст CR/C, можно ознаком	робные секции	يمكن الاطلاع على موجز المحضر الذي يضم الخصائص التفصيلية للقسم الحاص الحالي CR/C في الوثيقة:					
CRC3186 T.pdf	CP(C2186 T pdf				CRC	C3186 T.pdf	
		C3100_1.put				0.110	<u></u>	
BR7a/BR7b Group id. 112665636 BR1 Date of receipt 09.05.2012 C2c RR No. 4.4 A2a Date of bringing into use 02.04.2016 A2b Period of valid. 50 A3a Op. agency 187 A3b Adm. resp. [A] BR62 Expiry date for bringing into use 24.10.2018 BR63 Confirmed date of bringing into use Detailed characte BR14 Special Section CR/C/3186 C3a Assigned freq. band 250000 C6 Of network C4a Class of station EC C6a Polarization type M C6 C61 Nax. tot. peak pwr. 14.9 C8d2 Contiguous bandwidth 250000 C11a1 Service area no. 1 C11a2 Service area C11a3 Service area C11a3 Service area						acteris	tics gram 1	
9.7 T A30#7.1 O								
	C2a1 Assigned	Ifrequency						
12.625 GHz								
A13 C7a	C8a1/C8b1 C	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2
Ref. to Special Sections Design. of emission	Max. peak pwr Max	x. pwr dens.	Min. peak pw	r Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.
API/A /7212 1 836KG7W	-9.9	-69.1	-29.9	9	-89.1		18	
C10b1 C10b2 C10c1 C	C10c2 C10d1/C10d2 C10	0d3 C10d4	C10d6	C10d7				
Assoc. earth station id. Type Geographical coord.	Ctry Cls. / Nat. Max.	. iso. Bmwdth	Noise /	Ant. diamete	r			
TYPICAL KU7 T	1 TC CP 49	ann 9.6 0.54	100		-			
	C10	d5a Co-polar an	tenna nattern		<u> </u>			
C10b1 Assoc. earth station id. Co-polar ref. pattern Coef	A Coef B	Coef	C C	Coef D	Phi	1	Co-polar rad, dia	a.
TYPICAL KU7 A-25*LOG(FI) 29			-					×
Findings 2D Date of protection 09.05.2012 13A Conformity	with RR A 13B	B1 Provision	ł	138	32 Remarks	13	BB3 Date of Revie	w
13C Remarks								·

Figure / Figura / 图 / Рисунок / 1 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL 空间合站发射天线增益等值线和业务区 ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ منطقة الخنمة وأكفة الكسب طوائي الإرسال للمحطة الفضائية

Gain contour & service area diagrams

UKMMSAT-A3 (33.5° W) Faisceau / Beam / Haz / 波東 / Луч / الحزمة : FIVE Gmax: 40 dBi

Align steerable beams with service area (provide effective gain contours 0, -2, -4, -6, -10, -20 dB) B.3.b1 of Appendix 4 (WRC-12)

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / سطقة الحدمة (No. 01)

CR/C/3186

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Figure / Figura / 图 / Рисунок / 1 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL 空间合站发射天线增益等值线和业务区 ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ

منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية



Align steerable beams with service area (provide effective gain contours 0, -2, -4, -6, -10, -20 dB) B.3.b1 of Appendix 4 (WRC-12)

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الحدية (No. 01)

CR/C/3186

- D

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OBSERVATIONS DU BUREAU DES	RADIOCOMMUNICATION BUREAU	OBSERVACIONES DE LA OFICINA DE
RADIOCOMMUNICATIONS	COMMENTS	RADIOCOMUNICACIONES
Relatives à la Conclusion conformément au <u>Nº 11.31</u>	Relating to the Findings with respect to No. 11.31	Relativas a la Conclusión según N.º 11.31
Faisceau fixe TWO, assignations de fréquence 11,075 et 11,575 GHz avec une densité maximale de puissance =-54 dBW/Hz et une valeur maximale de la puissance en crête =20 dBW	Fixed beam TWO, frequency assignments 11.075 and 11.575 GHz with maximum power density =-54 dBW/Hz and maximum peak power =20 dBW	Haz fijo TWO, asignaciones de frecuencia 11,075 y 11,575 GHz con una densidad máxima de potencia =-54 dBW/Hz y un valor máximo de la potencia de cresta =20 dBW
DEFAVORABLE Les limites de puissance surfacique prescrites au numéro 21.16 sont dépassées.	UNFAVOURABLE The power flux density limits specified in No. 21.16 are exceeded.	DESFAVORABLE Se han rebasado los límites de densidad de flujo de potencia especificados en el número 21.16.
Faisceau fixe FIVE, assignation de fréquence 12,625 GHz avec une densité maximale de puissance =-54 dBW/Hz et une valeur maximale de la puissance en crête =20 dBW	Fixed beam FIVE, frequency assignment 12.625 GHz with maximum power density =-54 dBW/Hz and maximum peak power =20 dBW	Haz fijo FIVE, asignación de frecuencia 12,625 GHz con una densidad máxima de potencia =-54 dBW/Hz y un valor máximo de la potencia de cresta =20 dBW
DEFAVORABLE Les limites de puissance surfacique prescrites au numéro 21.16 sont dépassées.	UNFAVOURABLE The power flux density limits specified in No. 21.16 are exceeded.	DESFAVORABLE Se han rebasado los límites de densidad de flujo de potencia especificados en el número 21.16.
FAVORABLE pour toutes les autres assignations de fréquence.	FAVOURABLE for all other frequency assignments.	FAVORABLE para todas las demás asignaciones de frecuencia.
Comments by BR, expla	anation of	
findings	CR/C/3186	(A)
	Page / Página / 页 / crp. / 19 المشحة	scincit.
I. Nécessité d'une coordination au niveau du groupe I. Coordination requirements at group level

9.7 (DT/T) —

I. Requisitos de coordinación a nivel de grupo

一、需要在组的层次进行的协调

І. Потребности в координации на уровне группы

 متطلبات التنسيق على مستوى المجموعة 9.7 (CA) —

Admin	istrations iden 根据第9.7	tifiées au titre d 	u N° 9. 1] :	7 par: Ас Админис	dministrations identified under No страции, идентифицированные	Adminis	Administraciones identificadas según N.* 9.7 por : الإدارات الهددة والقا للرقم 7.9 عوجب :				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	Delta T/Г Дельта T/T	Delta T/T دات T/T	Arc de co 协议	ordination মৃণু	Coordination Дуга координ	Акс	Arco de coordinación قوس التنسيق
SIX	R	112665648	13		•	•	B ISR USA	CHN LUX	E RUS/IK	HOL RUS	I UAE
		112665649	13				B ISR USA	CHN LUX	E RUS/IK	HOL RUS	I UAE
		112665650	14				B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS
		112665651	14				B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS
		112665652	14				B I UAE	CHN ISR USA	LUX	E RUS/IK	HOL RUS
		112665653	14				B I UAE	CHN ISR USA	LUX	E RUS/IK	HOL RUS
		112665654	13				B ISR USA	CHN LUX	E RUS/IK	RUS	I UAE
		112665655	14				B I UAE	CHN ISR USA	LUX	E RUS/IK	HOL RUS
		112665656	13				B ISR USA	CHN LUX	E RUS/IK	RUS	I UAE
FOUR	Е	112665634	12				CHN	E RUS/IK	HOL RUS	I UAE	ISR USA
		112665635	12				CHN	E RUS/IK	HOL RUS	I UAE	ISR USA
		112665636	12				CHN LUX	E RUS/IK	HOL RUS	I UAE	ISR USA
		112665637	12				LUX	E RUS/IK	HOL RUS	I UAE	ISR USA

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Coordination requirements at group level

Admini	istrations iden 根据第9.7#	tifiées au titre d 如识别的主管部(u N° 9. 1) :	7 par: Админ	Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:						Administraciones identificadas según N.* 9.7 por : الإدارات المحدة وفقاً للرقم 7.9 بموجب:				
B1a	B2	BR7a	GHz	Delta T/T		Delta T/T		Delta T/T	Arc de	coordinatio	n Coordinat	on Arc	Arco de		
Beam designation	Emi-Rcp	Group id.		Delta T/T		Дельта Т/Т		T/T Lds	t	办调强	Дуга коорд	инации	قوس التنميق		
ONE	Е	112665638	11						B I UAE	CHN ISR USA	CLM	E RUS/IK	HOL RUS		
		112665639	11						B I UAE	CHN ISR USA	CLM	E RUS/IK	HOL RUS		
		112665640	11						B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS		
		112665641	11						B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS		
THREE	Е	112665642	11						B I USA	CHN ISR	CLM	E RUS/IK	HOL UAE		
		112665643	11						B I USA	CHN ISR	CLM LUX	E RUS/IK	HOL UAE		
		112665644	11						B I USA	CHN ISR	CLM LUX	E RUS/IK	HOL UAE		
		112665645	11						B I USA	CHN ISR	CLM LUX	E RUS/IK	HOL UAE		
		112665646	11						B I USA	CHN ISR	CLM	E RUS/IK	HOL UAE		

B2 Emi-Rcp	BR7a Group id.	GHz	Admir	istrations ide 识别主管部	entifiées au t 门的依据是	litre du AP30 AP30#7.1	#7.1	Administr Администрац	ations identi ии, идентиd AP30	led under Al жицированны #7.1	P30#7.1 не согласно	Administraciones identificadas según AP30#7.1 لإدارات محددة بموجب AP30#7.1
E	112665634	12										
[112665635	12										
[112665636	12										
	112665637	12										
Е	112665642	11	CPV	Е	ISL	ISR	LBR	LUX	SRL	UAE	USA	
[112665643	11										
[112665644	11	CPV	ISL	ISR	UAE						
[112665645	11	CPV	Е	ISL	ISR	LBR	LUX	SRL	UAE	USA	
	112665646	11	CPV	Е	ISL	ISR	LBR	SRL	UAE			
	Emi-Rop E E	EmiRcp Group id. E 112665634 112665635 112665636 112665647 E 112665642 112665644 112665644 112665645 112665645	EmiRcp Group id. E 112665634 12 112665635 12 11265636 12 112665637 12 E 112665642 11 112665643 11 112665644 11 112665644 11	Emi-Rcp Groupid. E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 11 CPV 112665643 11 112665644 11 CPV 112665645 11 CPV 112665646 11 CPV	Emi-Rcp Group id. 识别主管部 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 11 E 112665643 112665643 11 112665644 11 112665645 11 112665644 11 112665645 11 112665646 11 112665646 11	Emi-Rcp Group id. 识别主管部门的依据是 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 11 112665643 11 112665644 11 112665645 11 112665644 11 112665645 11 112665646 11	Emi-Rcp Group id. 识别主管部门的依据是 AP30#7.1 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665643 112665643 11 CPV E ISL I12665643 11 112665644 11 112665645 11 I12665644 11 I12665645 11 I12665646 11 I12665645 11 CPV E ISL I12665645 11 CPV E ISL I12665646 11 CPV	Emi-Rcp Group id. 识别主管部门的依据是 AP30#7.1 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 11 112665644 11 112665645 11 112665644 11 112665645 11 112665644 11 112665645 11 112665646 11 CPV E I12665644 11 CPV E I12665645 11 CPV E I12665646 11 CPV E ISL ISR LBR	EmiRcp Group id. 识别主管部门的依据是 AP30#7.1 Администрац E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 11 112665643 11 112665644 11 112665645 11 112665645 11 112665645 11 112665646 11 112665646 11 CPV E ISL ISR LBR LUX 112665644 11 CPV E ISL ISR ISL ISR ISR LBR ISL ISR LBR SRL	Emi-Rcp Group id. 识别主管部门的依据是 AP30#7.1 Администрации, идентиф AP30 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 11 CPV E ISL I12665643 11 112665644 11 CPV E I12665645 11 CPV E I12665645 11 CPV E I12665645 11 CPV E I12665645 11 CPV E I12665646 11 CPV E ISL ISR LBR SRL I12655646 11 CPV E ISL ISR LBR SRL	EmiRcp Group id. 识别主管部门的依据是 AP30#7.1 Администрации, идентифицированны AP30#7.1 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 12 112665643 11 112665644 11 112665645 11 112665645 11 112665645 11 112665645 11 112665646 11 CPV E I12665646 11 CPV E I12665646 11 CPV E I12665646 11 CPV E ISL ISR LIBR SRL UAE	EmiRcp Group id. 识别主管部门的依据是 AP30#7.1 Администрации, идентифицированные согласно AP30#7.1 E 112665634 12 112665635 12 112665636 12 112665637 12 E 112665642 112665643 12 I12665643 12 I12665643 11 I12665644 11 I12665645 11 I12665644 11 I12665645 11 I12665646 11 CPV E I12665644 11 CPV E I12665645 11 CPV E I12665646 11 CPV E I12665646 11 CPV E ISL ISR LBR SRL UAE

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Other forms of coordination at group level



II. Liste de≽ réseaux à satellite (à titre d'information uniquement 二、卫星网络清单(仅供参考,见第)

II. List of satellite networks (for information only, see No. 9.36.2) ^{BS de satélite} (mación, véase el N.° 9.36.2). ^{BI} (for information only), see No. 9.36.2)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou situés à l'intérieur de l'arc (List of satellite networks for which Delta T/T > 6% or which are within the coordi Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco d Delta T/T > 6% 的卫星网络清单或位于协调弧内的卫星网络清单

Список спутниковых сетей, для которых Дельта T/T > 6% или которые находятся внутри дуги координации (согласно № 9.7)

قائمة بالشبكات السائلية التي تكون فيها قيمة دلتا T/T > 6% أو التي تقع داخل قوس التنسيق (تموجب الرقم 7.9)

A1f1	A1f3	A1a	A4a1	BR3b	BR25	BR6a	BR26	BR27	BR28
Notifying	Inter. sat.	Sat. Network	Orbital long.	Category of	A/T	ld. no.	Causing	Receiving	Detected by
adm.	org.			notif.			interference	interference	coord. arc
в		B-SAT-1L	37 W	С	А	109520007			A
		B-SAT-1Y	26 W	С	А	110520466			A
CHN		CHINASAT-AL4	40 W	С	А	110520121			A
CLM		SATCOL 1P	38 W	С	А	110520469			А
E		HISPASAT 2A 36W	36 W	С	А	109520110			A
		HISPASAT 36W	36 W	с	А	107520253			A
		HISPASAT-1	31 W	с	А	90500187			A
		HISPASAT-1	30 W	N	А	92500108			A
		HISPASAT-1D KU	30 W	С	А	102520044			A
		HISPASAT-1D KU	30 W	N	А	106500012			A
		HISPASAT-2A KU	30 W	С	А	94520009			A
		HISPASAT-2A KU	30 W	N	А	102500409			A
		HISPASAT-2B KU	30 W	с	А	94520010			A
		HISPASAT-2B KU	30 W	N	А	100500226			A
		HISPASAT-2C3 KU	30 W	С	А	95520194			A
		HISPASAT-2C3 KU	30 W	N	А	100500225			A
		HISPASAT-2D KU	30 W	с	А	100520256			A
		HISPASAT-2D KU	30 W	N	А	104500108			A
		HISPASAT-6A	26 W	С	А	111520213			A
HOL		INTELSAT IBS 319.5E	40.5 W	С	А	90500656			А
		INTELSAT IBS 319.5E	40.5 W	N	А	92500290			A
		INTELSAT K 319.5E	40.5 W	С	А	90500964			А
		INTELSAT K 319.5E	40.5 W	N	А	102500108			A
		INTELSAT5A 319.5E	40.5 W	с	А	90500563			А
		INTELSAT5A 319.5E	40.5 W	N	А	92500194			А
		INTELSAT7 319.5E	40.5 W	С	А	90500763			A
		INTELSAT7 319.5E	40.5 W	N	А	102500109			A
		INTELSATS 319.5E	40.5 W	с	А	92520096			А
		INTELSATS 319.5E	40.5 W	N	А	101500580			А
		NSS-18	40.5 W	С	А	100520134			A

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Formal List of affected networks

3 key points

- Coord exam = conformity with RR (No. 9.35) + establishment of coord requirements (No. 9.36)
- 2. N- findings can be eliminated & coord requirements can be managed
- 3. GIBC program is an essential tool