Non Planned Space Services (Articles 9 & 11)

A	C	N
API	Coordination	Notification
Start of regulatory clock	Negotiate for interference free operation	Record in MIFR & Bring into use

7 years

Input: Appendix 4 format data

BR: Validate/Check/Process

Conformity with Radio Regulations (No. 9.35 of RR)

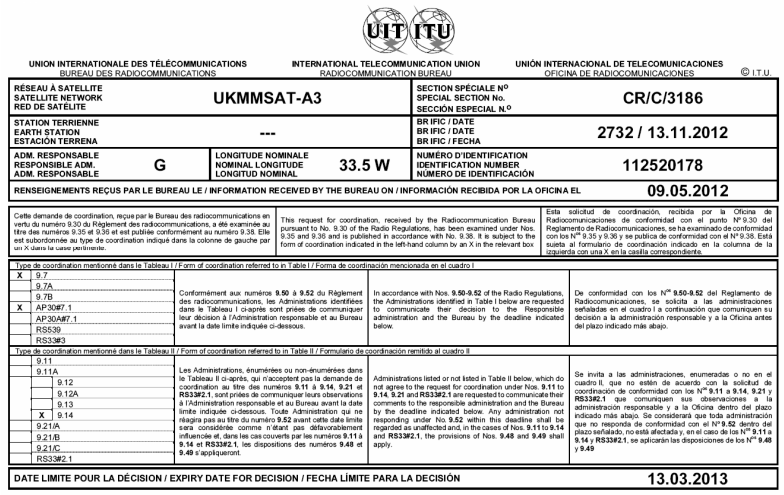
C

Coordination Exam

Coordination Requirements (No. 9.36 of RR)

Output: CR/C Publication in BR IFIC DVD

Output: CR/C Publication in BR IFIC DVD



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	UKMMSAT-A3			SECTION SPÉCIALE N° 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	G	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	33.5 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112520178
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA 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 pertinente.	This request for coordination, received by the Radiocommunication Bureau pursuant to No. 9.30 of the Radio Regulations, has been examined under Nos. 9.35 and 9.36 and is published in accordance with No. 9.38. It is subject to the form of coordination indicated in the left-hand column by an X in the relevant box		Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto Nº 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nos. 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está 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 coordinación mencionada en el cuadro I

X	9.7	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.	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.	De conformidad con los Nos. **9.50**-**9.52** del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro I a continuación que comuniquen su decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.
	9.7A			
	9.7B			
X	AP30#7.1			
	AP30A#7.1			
	RS539			
	RS33#3			

Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II

	9.11	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 **RS33#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, which do not agree to the request for coordination under Nos. **9.11** to **9.14**, **9.21** and **RS33#2.1** are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. **9.52** within this deadline shall be regarded as unaffected and, in the cases of Nos. **9.11** to **9.14** and **RS33#2.1**, the provisions of Nos. **9.48** and **9.49** shall apply.	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los Nº **9.11** a **9.14**, **9.21** y **RS33#2.1** que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el Nº **9.52** dentro del plazo señalado, no está afectada y, en el caso de los Nº **9.11** a **9.14** y **RS33#2.1**, se aplicarán las disposiciones de los Nº **9.48** y **9.49**
	9.11A			
	9.12			
	9.12A			
	9.13			
X	9.14			
	9.21/A			
	9.21/B			
	9.21/C			
	RS33#2.1			

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	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

>2000

Affected networks to coordinate*

* Between GSO networks, under provision No. 9.7

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

Conformity with RR (No. 9.35 of RR)

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)

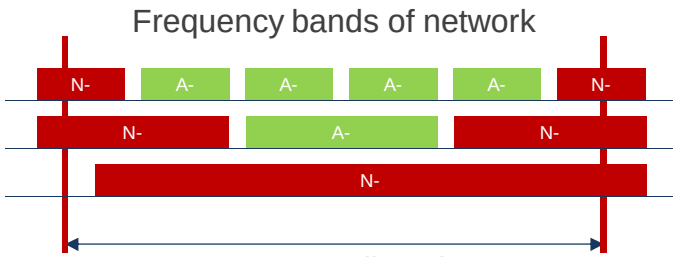
E/R	Freq	BW	MinFreq	MaxFreq	ClsStn	GU1/A	GU2/A	IC1/A	IKU/A
E	3422	40000	3402	3442	EC			A	
E	3462	40000	3442	3482	EC			A	
E	3502	40000	3482	3522	EC			A	
E	3542	40000	3522	3562	EC			A	
E	3582	40000	3562	3602	EC			A	
E	3622	40000	3602	3642	EC			A	
E	3662	40000	3642	3682	EC			A	
E	3702	40000	3682	3722	EC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

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

Region 1	Region 2	Region 3
3 400-3 600 FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation	**3 400-3 500** FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.431A Radiolocation 5.433 5.282	**3 400-3 500** FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.432B Radiolocation 5.433 5.282 5.432 5.432A
	3 500-3 700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	**3 500-3 600** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.433A Radiolocation 5.433
5.431 **3 600-4 200** FIXED FIXED-SATELLITE (space-to-Earth) Mobile		**3 600-3 700** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.435
	3 700-4 200 FIXED FIXED-SATELLITE (space to-Earth) MOBILE except aeronautical mobile	

Relevant footnotes

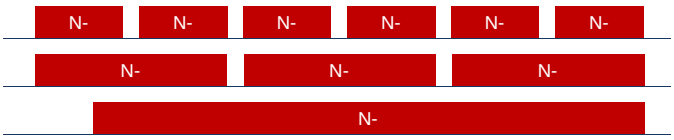
Conformity with RR (No. 9.35 of RR)



Unfavourable (N-) if not within allocation

Conformity with RR
(No. 9.35 of RR)

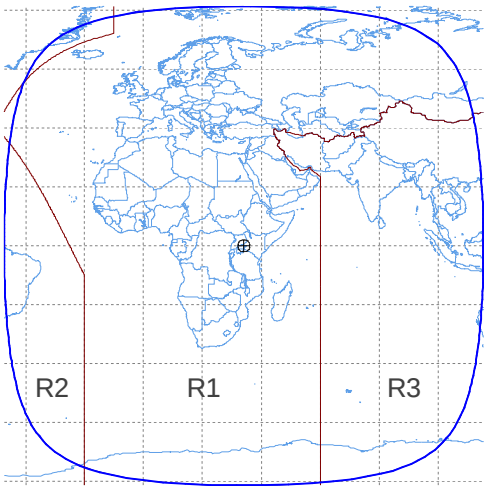
Frequency bands of network



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

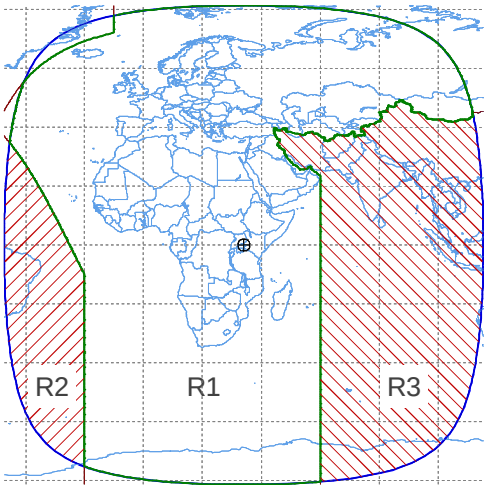
Conformity with RR
(No. 9.35 of RR)

Service area of network



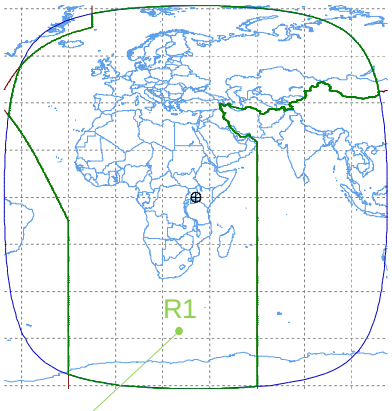
Conformity with RR
(No. 9.35 of RR)

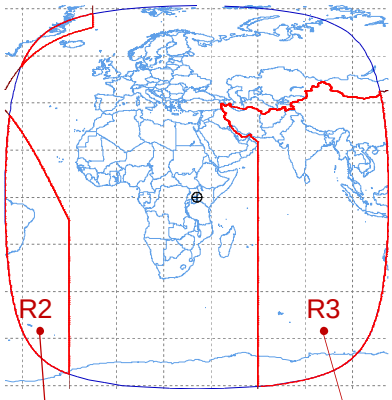
If allocation to Region 1 only



Conformity with RR
(No. 9.35 of RR)

Service area is split





Favourable
(A-)

Unfavourable
(N-)

Conformity with RR
(No. 9.35 of RR)

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.

Conformity with RR
(No. 9.35 of RR)

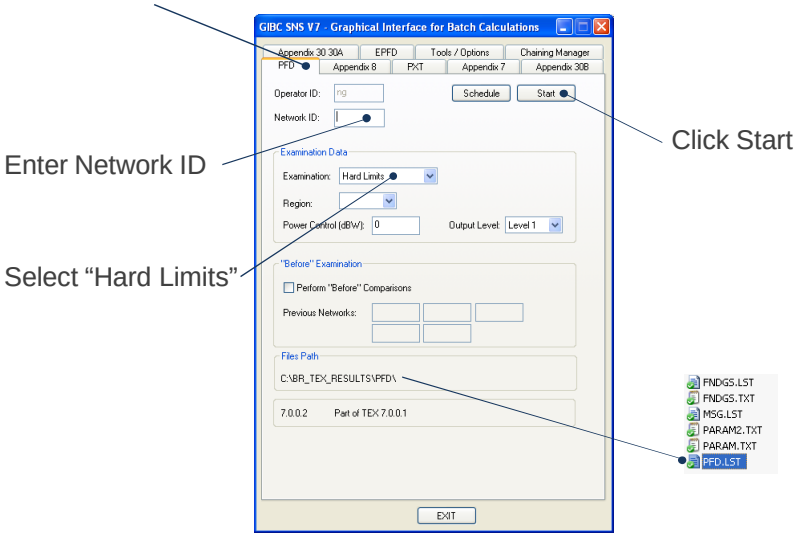
Power-flux density limits (PFD)

GIBC Program v7
(Graphical Interface for Batch Calculations)

EIRP limits

Conformity with RR
(No. 9.35 of RR)

PFD (Terrestrial Services)



Enter Network ID

Select “Hard Limits”

Click Start

Conformity with RR
(No. 9.35 of RR)

PFD.LST

```
ALL FINDINGS WITH RESPECT TO HARD LIMITS ARE FAVORABLE

PROGRAM SNSBPFD TERMINATED OK
```

Conformity with RR
(No. 9.35 of RR)

PFD.LST

Beam name

Maximum Gain

Group ID

```
IC1              40.0 DB   POINTING ACC  0.20 DEG          (FIXED)                  112.520039
  EC                40000 KHZ    03.07.18                                                      112.646945
  3422.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0001
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3422.00000 M      40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-   0001
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3462.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0002
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3462.00000 M      40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-   0002
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3502.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0003
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
```

Reference to PFD limit

Gain | PFD | Max Excess | PFD Limit

Frequency assignment with excess
(Frequency | Bandwidth | Emission | Peak Power | Maximum Power Density)

Worst case coordinate & location

GIBC Output Level 2 – All locations with 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
```

Conformity with RR
(No. 9.35 of RR)

PFD.LST

```
IC1              40.0 DB   POINTING ACC  0.20 DEG          (FIXED)                  112.520039
  EC                40000 KHZ    03.07.18                                                      112.646945
  3422.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0001
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3422.00000 M      40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-   0001
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3462.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0002
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3462.00000 M      40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-   0002
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
  3502.00000 M      40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-   0003
             ( 5) RR 21.16             FIXED-SATELLITE                                REF. BW   0.004MHZ
             ALL WORLD                                    053E57 37N20 TKM    38.3 -138.7    3.3 -142.0    N-
```

Max Excess

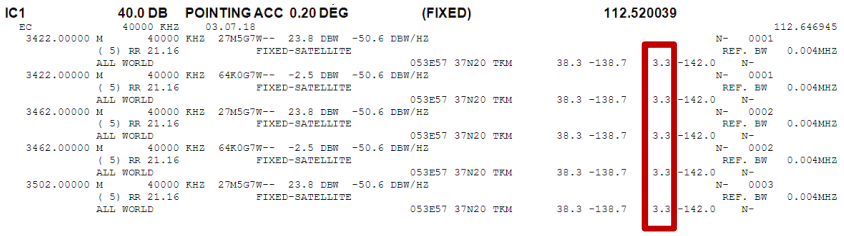
Fixed beams

Steerable beams

Unfavourable (N-)
Split from groups with Favourable assignments

Conformity with RR
(No. 9.35 of RR)

PFD.LST



```
IC1              40.0 DB   POINTING ACC  0.20 DEG          (FIXED)                  112.520039
  EC                40000 KHZ    03.07.18                                                      112.646945
   3422.00000 M       40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-    0001
              ( 5) RR 21.16              FIXED-SATELLITE                                  REF. BW    0.004MHZ
              ALL WORLD                                      053E57 37N20 TKM      38.3 -138.7    3.3 -142.0    N-
   3422.00000 M       40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-    0001
              ( 5) RR 21.16              FIXED-SATELLITE                                  REF. BW    0.004MHZ
              ALL WORLD                                      053E57 37N20 TKM      38.3 -138.7    3.3 -142.0    N-
   3462.00000 M       40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-    0002
              ( 5) RR 21.16              FIXED-SATELLITE                                  REF. BW    0.004MHZ
              ALL WORLD                                      053E57 37N20 TKM      38.3 -138.7    3.3 -142.0    N-
   3462.00000 M       40000 KHZ  64K0G7W--   -2.5 DBW  -50.6 DBW/HZ                    N-    0002
              ( 5) RR 21.16              FIXED-SATELLITE                                  REF. BW    0.004MHZ
              ALL WORLD                                      053E57 37N20 TKM      38.3 -138.7    3.3 -142.0    N-
   3502.00000 M       40000 KHZ  27M5G7W--   23.8 DBW  -50.6 DBW/HZ                    N-    0003
              ( 5) RR 21.16              FIXED-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 → Favourable (A-)*

Conformity with RR
(No. 9.35 of RR)

*2 Conditions

Provide method to meet PFD limit

&

One location PFD limit is met

(Annex 1 of RoP No. 21.16)

Max Excess ≤ 9.5 dB

(C, Ku, Ka-bands FSS GSO)

(Globally steerable but actual value depends on PFD limits)

Steerable beams → Favourable (A-)*

Conformity with RR
(No. 9.35 of RR)

Top 3
Unfavourable Findings

1. 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 …

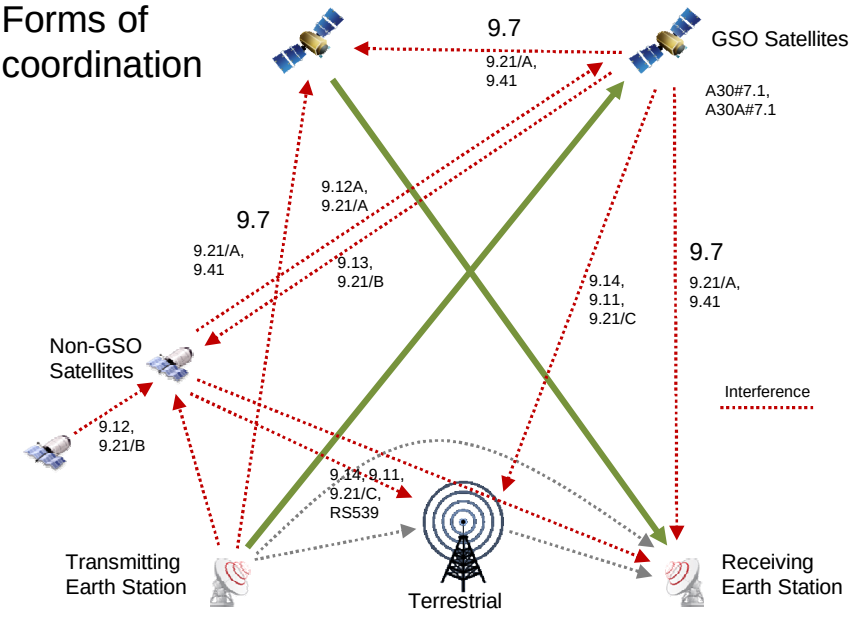
Coordination requirements (No. 9.36 of RR)

Identify any administration with which coordination may need to be effected

No. 9.36 of RR

Coordination requirements
(No. 9.36 of RR)

Forms of coordination

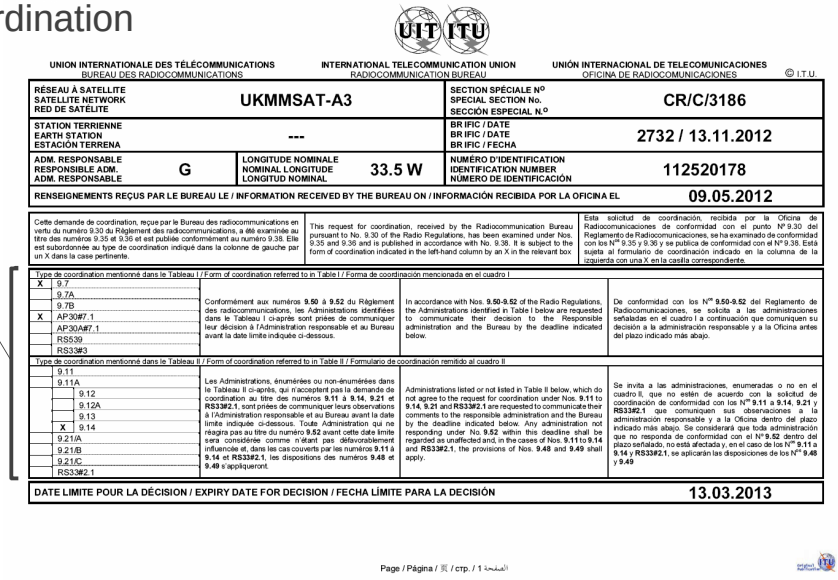


Coordination requirements
(No. 9.36 of RR)

GSO vs GSO	9.7
GSO/NGSO vs NGSO	9.11A (9.13, 9.12, 9.12A)
GSO/NGSO vs Terrestrial	9.11A (9.14)
BSS (non-Plan) vs Terrestrial	9.11, RS539
GSO vs Plan	A30#7.1, A30A#7.1
Agreement with administrations	9.21

Coordination requirements (No. 9.36 of RR)

Forms of coordination



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 SATÉLITE	UKMMSAT-A3	SECTION SPÉCIALE N° / 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: G	LONGITUDE NOMINALE / NOMINAL LONGITUDE / LONGITUD NOMINAL: 33.5 W	NUMÉRO D'IDENTIFICATION / IDENTIFICATION NUMBER / NÚMERO DE IDENTIFICACIÓN	112520178
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			09.05.2012

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Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto Nº 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nos. 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.

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	9.7A			
	9.7B			
X	AP30#7.1			
	AP30A#7.1			
	RS539			
	RS33#3			

Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II

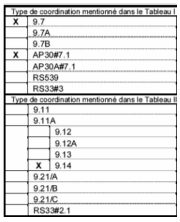
		Les Administrations, énumérées ou non-énumérées dans le Tableau II ci-après, qui n'acceptent pas la demande de coordination au titre des numéros **9.11 à 9.14, 9.21** et **RS33#2.1**, sont priées de communiquer leurs observations à l'Administration responsable et au Bureau avant la date limite indiquée 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, which do not agree to the request for coordination under Nos. **9.11** to **9.14, 9.21** and **RS33#2.1** are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. **9.52** within this deadline shall be regarded as unaffected and, in the cases of Nos. **9.11** to **9.14** and **RS33#2.1**, the provisions of Nos. **9.48** and **9.49** shall apply.	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los Nos. **9.11 a 9.14, 9.21** y **RS33#2.1** que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el Nº **9.52** dentro del plazo señalado, no está afectada y, en el caso de los Nos. **9.11 a 9.14** y **RS33#2.1**, se aplicarán las disposiciones de los Nos. **9.48** y **9.49**
	9.11			
	9.11A			
	9.12			
	9.12A			
	9.13			
X	9.14			
	9.21A			
	9.21/B			
	9.21/C			
	RS33#2.1			

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN: **13.03.2013**

Page / Página / 页 / стр. / 1 / الصفحة

Coordination requirements (No. 9.36 of RR)

Forms of coordination



Type de coordination mentionné dans le Tableau I

X	9.7
	9.7A
	9.7B
X	AP30#7.1
	AP30A#7.1
	RS539
	RS33#3

Type de coordination mentionné dans le Tableau II

	9.11
	9.11A
	9.12
	9.12A
	9.13
X	9.14
	9.21A
	9.21/B
	9.21/C
	RS33#2.1

Network Summary

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

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

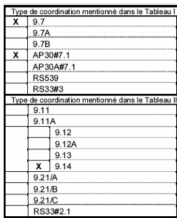
Coordination requirements (No. 9.36 of RR)

GSO	
9.11 9.14 9.21/C RS33#2.1	9.7 9.21/A RS33#3

GSO	
A30A#7.1	A30#7.1

GSO	NGSO
9.13 9.21/B	9.12 9.12A 9.21/A 9.21/B

GSO	NGSO
9.11 9.14 9.21/C RS33#2.1	



Type de coordination mentionné dans le Tableau I	
X	9.7
	9.7A
	9.7B
X	AP30#7.1
	AP30A#7.1
	RS539
	RS33#3
Type de coordination mentionné dans le Tableau 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

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

Coordination requirements (No. 9.36 of RR)

GSO	
9.11 9.14 9.21/C RS33#2.1	9.7 9.21/A RS33#3

GSO	
A30A#7.1	A30#7.1

GSO	NGSO
9.13 9.21/B	9.12 9.12A 9.21/A 9.21/B

GSO	NGSO
9.11 9.14 9.21/C RS33#2.1	

GIBC: PFD (Trigger) | AP8 | PFD (Space)

Frequency Overlap with Space Services

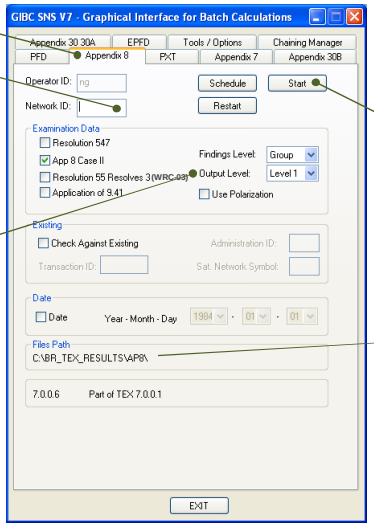
Frequency Overlap with Terrestrial Services

Coordination requirements (No. 9.36 of RR)

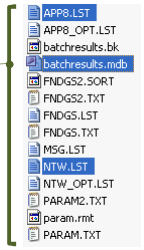
Appendix 8

Enter Network ID

Controls display of sample DT/T cases
1 - Per administration
2 - Per group
3 - Per assignment



Click Start



Coordination requirements (No. 9.36 of RR)

APP8.LST

"Coordination & Analysis of GSO Satellite Networks" Space Workshop

DT/T > 6%

```
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 (312520007)  EXAMINATION  REQUESTED  BY : ng  DATE: 12/11/12  14:42:11

            EXI UP-LINK IS AFFECTED                          MANDATORY EXAMINATION                              DT/TS =       2983.25 %
I S FNG     PACIFISAT-7            65.00E  0.05 0.05   30.12500 G  250000 K  18.04.12                          C312.520007/312.661424/0001
    KA6R    EC M                    45.4 DB
      45K0G1W--      -0.1 DBW  -46.6 DBW/HZ  -46.6 DBW/HZ (TOT. BW)  2D:18.04.12
E S NOR     SE-KA-64E              64.00E  0.05 0.05   30.50000 G 1000000 K  11.11.11                      A C111.520400/111.696649/0001
    USU3    EI CR                   43.0 DB  43.0 DB              549 K                                        DT/TS =       2983.25 %
      260KG7W--       9.3 DBW  -44.8 DBW/HZ  -44.8 DBW/HZ (TOT. BW)  2D:11.11.11
I E FNG     TYPICAL-KA0.9M      136E1516 35S3730 REC-580-6                    47.1 DB   31.5 DB
-------------------------------------------------------------------------------------------------------------------------
            INC UP-LINK IS AFFECTED                          MANDATORY EXAMINATION                              DT/TS =      18856.86 %
I S FNG     PACIFISAT-7            65.00E  0.05 0.05   30.12500 G  250000 K  18.04.12                          C312.520007/312.661424/0001
    KA6R    EC M                    45.4 DB  45.4 DB              860 K                                        DT/TS =      18856.86 %
      45K0G1W--      -0.1 DBW  -46.6 DBW/HZ  -46.6 DBW/HZ (TOT. BW)  2D:18.04.12
E S NOR     SE-KA-64E              64.00E  0.05 0.05   30.50000 G 1000000 K  11.11.11                      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)  2D:11.11.11
E E NOR     KA1                 130E0919 0580520 REC-580-6                    41.1 DB   37.0 DB
-------------------------------------------------------------------------------------------------------------------------
            EXI DOWN-LINK IS AFFECTED                        MANDATORY EXAMINATION                              DT/T  =        742.02 %
I S FNG     PACIFISAT-7            65.00E  0.05 0.05   20.32500 G  250000 K  18.04.12                          C312.520007/312.661309/0001
    KA1R    EC M                    45.4 DB  45.4 DB
      45K0G1W--      -8.9 DBW  -55.4 DBW/HZ  -55.4 DBW/HZ (TOT. BW)  2D:18.04.12
E S D       GENESIS-9              63.00E  0.10 0.10   20.22000 G   30000 K  20.12.04                      A C103.520331/103.641862/0001
    D1KR    EI CR                   33.9 DB
      3M00G7W--       3.8 DBW  -60.9 DBW/HZ  -60.9 DBW/HZ (TOT. BW)  2D:24.10.03
E E D       SGT, LARGE          129E2026 10S1221 AP8                  58.0 DB   24.9 DB          200 K  DT/TE =       968.34%
            261 K -12.2 DB  SGT, LARGE                                  DT/T D =       742.02 %    DT/T  =        742.02 %
           2654 K   3.9 DB  SGT, LARGE                                  DT/T D =        72.97 %    DT/T  =         72.97 %
-------------------------------------------------------------------------------------------------------------------------
            INC DOWN-LINK IS AFFECTED                        MANDATORY EXAMINATION                              DT/TE =        81.13 %
I S FNG     PACIFISAT-7            65.00E  0.05 0.05   20.32500 G  250000 K  18.04.12                          C312.520007/312.661309/0001
    KA1R    EC M                    45.4 DB
      45K0G1W--      -8.9 DBW  -55.4 DBW/HZ  -55.4 DBW/HZ (TOT. BW)  2D:18.04.12
E S D       GENESIS-9              63.00E  0.10 0.10   20.22000 G   30000 K  20.12.04                      A C103.520331/103.641862/0001
    D1KR    EI CR                   33.9 DB  33.9 DB
      3M00G7W--       3.8 DBW  -60.9 DBW/HZ  -60.9 DBW/HZ (TOT. BW)  2D:24.10.03
I E FNG     TYPICAL-KA0.3M      029E2222 0580521 REC-580-6                    33.8 DB   30.0 DB          180 K  DT/TE =        81.13%
-------------------------------------------------------------------------------------------------------------------------
```

Existing network

Associated ES

Network under examination

Satellite name | Longitude | Frequency
Beam | Maximum Gain
Frequency Assignment | Power characteristics | Date of protection

Coordination requirements (No. 9.36 of RR)

APP8.LST (cont.)

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

```
SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
      9.7       TRIGGER ARC ADM:  AZE, CHN, CYP, D, F, G, HOL, IRN, ISR, J, KAZ, NOR, QAT, RUS, RUS/IK, UAE, USA
KA2R    R G312.661285      27 GHZ   :  AZE     CHN     CYP     F       G       HOL     IRN     ISR     J       KAZ     NOR
                                      QAT     RUS     RUS/IK  UAE
KA2R    R G312.661286      27 GHZ   :  AZE     CHN     CYP     F       G       HOL     IRN     ISR     J       KAZ     NOR
                                      QAT     RUS     RUS/IK  UAE
KA2R    R G312.661287      27 GHZ   :  AZE     CHN     CYP     F       G       HOL     IRN     ISR     J       KAZ     NOR
                                      QAT     RUS     RUS/IK  UAE
KA2R    R G312.661288      27 GHZ   :  AZE     CHN     CYP     F       G       HOL     IRN     ISR     J       KAZ     NOR
                                      QAT     RUS     RUS/IK  UAE
KA2R    R G312.661289      27 GHZ   :  AZE     CHN     CYP     F       G       HOL     IRN     ISR     J       KAZ     NOR
                                      QAT     RUS     RUS/IK  UAE
```

9.7 DT/T

```
      9.7   AP 8 MANDATORY ADM:  ARS, AUS, CHN, CYP, D, E, F, G, GRC, I, J, KOR, LUX, MLA, NOR, PAK, QAT, RUS, RUS/IK, S, TUR,
UAE, USA
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
KA2R    R G312.661289      27 GHZ   :  F
KA2R    R G312.661290      27 GHZ   :  F
KA2R    R G312.661291      27 GHZ   :  F
KA2R    R G312.661391      28 GHZ   :  CHN     F
KA2R    R G312.661392      30 GHZ   :  ARS     AUS     CHN     CYP     D       E       F       G       GRC     I       J
                                      KOR     LUX     NOR     PAK     QAT     RUS     S       UAE     USA
KA2R    R G312.661393      28 GHZ   :  CHN     F
KA2R    R G312.661394      30 GHZ   :  ARS     AUS     CHN     CYP     D       F       G       GRC     I       J       KOR
                                      LUX     NOR     PAK     QAT     RUS     UAE     USA

      SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
                  9.21 AP 8 ADM:  (NOT APPLICABLE)
      SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
          RS33 ARC            ADM:  (NOT APPLICABLE)
      SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
          RS33 AP 8 MANDATORY ADM:  (NOT APPLICABLE)
      SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
                AP30A 7.1 CASE I:  (NOT APPLICABLE)
      SUMMARY FOR TRANSACTION :      C 312.520007          PACIFISAT-7              PNG
              AP30A 7.1 CASE II:      ISR
KA1R    E G312.661264      17 GHZ   :  ISR
KA1R    E G312.661265      17 GHZ   :  ISR
KA1R    E G312.661266      17 GHZ   :  ISR
```

9.21/A
RS33 (9.7 for API from 01.01.1999)
A30A#7.1

Coordination requirements (No. 9.36 of RR)

NTW.LST

A = Recorded in MIFR / Already published
T = Under examination
N = Notification / C = Coordination

Admin	Réseau Network Red	Position Position Posición	A/T[1]	N/C[2]	Numéro ID ID Number Número ID	C[3]	R[4]	A[5]
ARS	SAUDI-FMSS-7-R1	29.00E	A	C	109.520338	C	R	
	STRATSAT-5-R1	41.00E	A	C	109.520339	C	R	
AUS	ADF 152E GOVR	152.00E	A	C	108.520304		R	
	ADF 156E GOV	156.00E	A	C	102.520061	C		
	ADF 156E GOV	156.00E	A	N	110.500203	C		
	ADF 160E GOVR	160.00E	A	C	108.520305		R	
	ADF 164E GOVR	164.00E	A	C	108.520306		R	
	DDSP-104E	104.00E	A	C	108.520294	C	R	
	DDSP-108.5E	108.50E	A	C	108.520295	C	R	
	DDSP-2	88.00E	A	C	111.520201	C	R	
	DDSP-2	88.00E	T	N	112.500083	C	R	
	DDSP-4	95.00E	A	C	111.520202	C	R	
AZE	AZERSAT B1	58.50E	A	C	110.520124			A
	AZERSAT C	62.00E	A	C	111.520481			A

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

Coordination requirements
(No. 9.36 of RR)

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	T	109520338	ARS			SAUDI-FMSS-7-R1	29	C		50	C	R	18.04.2012	9999
312520007	9.7	T	109520339	ARS			STRATSAT-5-R1	41	C		50	C	R	18.04.2012	9999
312520007	9.7	T	99520509	AUS			AUSSAT C 156E GOV	156	C		50	C		18.04.2012	9999
312520007	9.7	T	102520061	AUS			ADF 156E GOV	156	C		50	C		18.04.2012	9999
312520007	9.7	T	104500282	AUS			AUSSAT C 156E GOV	156	N		50	C		18.04.2012	9999
312520007	9.7	T	105520353	AUS			ADF WEST-2	88	C		50		R	18.04.2012	9999
312520007	9.7	T	105520356	AUS			ADF WEST-5	104	C		50		R	18.04.2012	9999
312520007	9.7	T	107520068	AUS			AUSSAT C 156E GOVR	156	C		50		R	18.04.2012	9999
312520007	9.7	T	108520294	AUS			DDSP-104E	104	C		50	C	R	18.04.2012	9999
312520007	9.7	T	108520295	AUS			DDSP-108.5E	108.5	C		50	C	R	18.04.2012	9999
312520007	9.7	T	108520304	AUS			ADF 152E GOVR	152	C		50		R	18.04.2012	9999
312520007	9.7	T	108520305	AUS			ADF 160E GOVR	160	C		50		R	18.04.2012	9999
312520007	9.7	T	108520306	AUS			ADF 164E GOVR	164	C		50		R	18.04.2012	9999
312520007	9.7	T	110500203	AUS			ADF 156E GOV	156	N		50	C		18.04.2012	9999
312520007	9.7	T	111520200	AUS			DDSP-1	86	C		50	C	R	18.04.2012	9999
312520007	9.7	T	111520201	AUS			DDSP-2	88	C		50	C	R	18.04.2012	9999
312520007	9.7	T	111520202	AUS			DDSP-4	95	C		50	C	R	18.04.2012	9999
312520007	9.7	T	112500083	AUS			DDSP-2	88	N		20	C	R	18.04.2012	9999
312520007	9.7	T	112500085	AUS			ADF WEST-2	88	N		20		R	18.04.2012	9999
312520007	9.7	A	110520124	AZE			AZERSAT B1	58.5	C		50			18.04.2012	9999
312520007	9.7	A	111520481	AZE			AZERSAT C	62	C		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

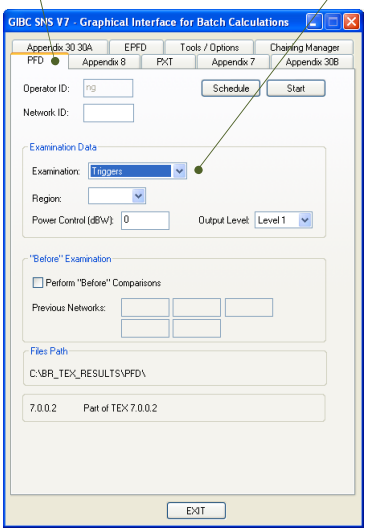
Coordination requirements
(No. 9.36 of RR)

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	A	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	A	ISR	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	J	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	KAZ	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	NOR	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	QAT	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	RUS	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	RUS	IK
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	A	UAE	
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	9.7	T		
312520007	PACIFISAT-7	E	KA1R	17700	17950	EC	A30A#7.1	T	ISR	

Coordination requirements (No. 9.36 of RR)

PFD (Terrestrial Services)
Examination: Trigger



Enter Network ID

Click Start

Coordination requirements (No. 9.36 of RR)

PFD (Terrestrial Services)

START OF JOB SNSPFD 14.12.10 11.08.22 VERSION 6.3.0.1 110520332 T ng 01N
SPACE STATION PFD VALUES WILL BE CHECKED AGAINST **COORDINATION LIMITS ONLY**
SNS **TRIGGER LIMITS for MEASAT-1A (110520332)** EXAMINATION REQUESTED BY : ng DATE: 14/12/10 11:08:22
MLA MEASAT-1A 91.50E 0.10 0.10 30.09.10 C 110.520332
KA6R 50.0 DB POINTING ACC 0.05 DEG (STEERABLE) 110.520332
ER ER 2000 KHz 21.03.17 110.668945
17.70100 G 2000 KHZ 800KG7D-- 1.2 DBW -53.6 DBW/HZ A- 0001
(57) RR 21.16/9.11 BROADCASTING-SATELLITE, SPACE OPERATION REF. BW 1.000MHZ
ALL WORLD 020E18 42N55 SRB 50.0 -112.1 2.9 -115.0 N-
AFS 2.9 AGL 2.9 ALB 2.9 ALG 2.8 AUS 2.9 AUS/NFK 2.9 AUT 2.9
BIH 2.9 BLR 2.9 BOT 1.4 BUL 2.3 CAF 2.9 CME 2.9 COD 2.9
COG 2.9 CLE 2.9 EST 2.9 F /NCL 2.9 FIN 2.9 FSM 2.9 GAB 2.9
GNE 2.8 GRC 2.9 HNG 2.9 HRV 2.9 I 2.9 KIR 2.9 LBY 2.9
LTU 2.9 LVA 2.9 MDA 1.6 MHL 2.9 MKD 2.7 MLT 2.9 MNE 2.9
NGR 2.9 NIG 2.9 NMB 2.9 NOR 2.8 NRU 2.5 NZL 2.9 POL 2.9
ROU 2.9 RUS 2.9 S 2.8 SLM 2.7 SRB 2.9 SYK 2.9 SYN 2.8
TCD 2.9 TUR 0.7 UKR 2.9 USA/WAK 2.7 VUT 2.9

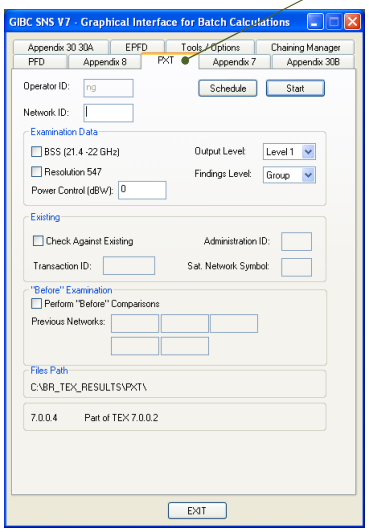
9.11, 9.14, 9.21/C

Coordination requirements (No. 9.36 of RR)

PFD (Space Services)

Enter Network ID

Click Start



Coordination requirements (No. 9.36 of RR)

PFD (Space Services)

```
START OF JOB SNSBPXT      14.12.10      10.28.39      VERSION 6.1.0.2
          110520332--      ng19                  ON
                  SNS   PXT for MEASAT-1A (110520332) ANALYSIS REQUESTED BY : ng DATE: 14/12/10 10:28:39
          EXI DOWN-LINK IS AFFECTED
I S MLA       MEASAT-1A              91.50E  0.10 0.10   12.22500 G   50000 K  30.09.10                  C110.520332/110.669023/0001
 TK2R     EC M                         36.0 DB
       36M0G7W--   20.0 DBW  -54.7 DBW/M2                                  2D:
E S RUS       RST-3                   86.00E  0.10 0.10   12.18780 G   27000 K  02.06.00                A B100.550175/000.003530/0001
 E001     EB CL  R13T8S                37.7 DB
      27M0G7W--   17.2 DBW  -57.0 DBW/M2  -57.0 DBW/M2                     2D:02.06.00
E E RUS       TESTPOINT 1       087E1800 49N1312  MODRES                 35.5 DB
          AP30 AN4                 FIXED-SATELLITE AND BROADCASTING-SATELLITE
          REGION 1                                 087E18 49N13 RUS                32.00 -111.05    0.05 -111.09 A30#A4.1
-------------------------------------------------------------------------------------------------------------------------------
          SUMMARY FOR TRANSACTION :      C 110.520332                  MEASAT-1A                  MLA
AP30 7.1    (ANNEX 4)            ADMINISTRATIONS RECEIVING INTERFERENCE:
                          CONCERNED ADM:    F, HOL, RUS, RUS/IK, USA
TK2R      E G110.669020        12 GHZ     :F        HOL       RUS
TK2R      E G110.669021        12 GHZ     :F        HOL       RUS
TK2R      E G110.669022        12 GHZ     :F        HOL       RUS
TK2R      E G110.669023        12 GHZ     :F        HOL       RUS
TK2R      E G110.669024        12 GHZ     :F        HOL       RUS
```

A30#7.1

Network ID

Date of Receipt

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	UKMMSAT-A3	SECTION SPÉCIALE N° 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: G	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL: 33.5 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112520178
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA 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 pertinente.	This request for coordination, received by the Radiocommunication Bureau pursuant to No. 9.30 of the Radio Regulations, has been examined under Nos. 9.35 and 9.36 and is published in accordance with No. 9.38. It is subject to the form of coordination indicated in the left-hand column by an X in the relevant box	Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto Nº 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nº 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está 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 coordinación mencionada en el cuadro I

X	9.7	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.	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.	De conformidad con los N° **9.50**-**9.52** del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro I a continuación que comuniquen su decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.
	9.7A			
	9.7B			
X	AP30/A7.1			
	AP30A/A7.1			
	RS539			
	RS33/A3			

Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II

	9.11	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 **RS33/A2.1**, 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/A2.1**, les dispositions des numéros **9.48** et **9.49** s'appliqueront.	Administrations listed or not listed in Table II below, which do not agree to the request for coordination under Nos. **9.11** to **9.14**, **9.21** and **RS33/A2.1** are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. **9.52** within this deadline shall be regarded as unaffected and, in the cases of Nos. **9.11** to **9.14** and **RS33/A2.1**, the provisions of Nos. **9.48** and **9.49** shall apply.	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los N° **9.11** a **9.14**, **9.21** y **RS33/A2.1** que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el N° **9.52** dentro del plazo señalado, no está afectada y, en el caso de los N°s **9.11** a **9.14** y **RS33/A2.1**, se aplicarán las disposiciones de los N°s **9.48** y **9.49**
	9.11A			
	9.12			
	9.12A			
	9.13			
X	9.14			
	9.21/A			
	9.21/B			
	9.21/C			
	RS33/A2.1			

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	13.03.2013

Deadline for comments

Tableau|I /Table I /Cuadro I /表一 /Таблица I / I الجدول

	Disposition / Provision / Disposición / 条款 / Положение / الحكم	Résumé des conditions régissant la coordination 协调要求概述	Summary of coordination requirements Сводные потребности в координации	Resumen de los requisitos de coordinación موجز متطلبات التنسيق
X	9.7	B, CHN, CLM, E, HOL, I, ISR, LUX, RUS/IK, RUS, UAE, USA		
	9.7A			
	9.7B			
X	AP30/A7.1	CPV, E, ISL, ISR, LBR, LUX, SRL, UAE, USA		
	AP30A/A7.1			
	RS539			
	RS33/A3			

Summary of affected administrations for entire network (mandatory)

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

Tableau II /Table II /Cuadro II /表二 /Таблица II / II الجدول

Disposition / Provision / Disposición / 条款 / Положение / الحكم		Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1) 可能受影响的主管部门(仅供参考，见第 9.36.1款)	Potentially affected administrations (for information only, see No. 9.36.1) Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1) إدارات يحتمل أن تتأثر تأثراً غير مؤات (انظر الرقم 9.36.1، على سبيل الاطلاع فقط)
	9.11			
	9.11A			
	9.12			
	9.12A			
	9.13			
X	9.14	ARG, CAN, CHL/PAQ, CHL, DNK/GRL, F/CPT, NOR,		
	9.21/A[1]			
	9.21/B[1]			
	9.21/C[1]			
	RS33#2.1			

[1] 9.21/A, 9.21/B et 9.21/C – au titre du numéro 9.21, administrations ayant des réseaux OSG, des réseaux non-OSG et des stations de Terre, respectivement.
[1] 9.21/A, 9.21/B and 9.21/C – Under No. 9.21, administrations with GSO networks, Non-GSO networks and terrestrial stations, respectively.
[1] 9.21/A, 9.21/B y 9.21/C – De conformidad con el Nº 9.21, administraciones con redes OSG, redes no OSG y estaciones terrestres, respectivamente.
[1] 9.21/A, 9.21/B 和 9.21/C – 根据第9.21款, 分别为有对地静止卫星轨道网络、非对地静止卫星轨道网络和地面站的主管部门
[1] 9.21/A, 9.21/B и 9.21/C – в соответствии с п. 9.21 администрации, имеющие сети ГСО, сети НГСО и наземные станции, соответственно.
[1] 9.21/A، 9.21/B و9.21/C – بموجب الرقم 21.9، إدارات لها شبكات مستقرة بالنسبة إلى الأرض وشبكات غير مستقرة بالنسبة إلى الأرض ومحطات للأرض على التوالي.

"SpaceCom - Comments under Nos. 9.11- 9.14/9.21" CR/D Space Workshop

Summary of affected administrations for entire network (for info)
Comment within 4 months, else agreement

SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص — CR/C/3186

A | *A1a* Sat. Network UKMMSAT-A3 | *A1f* Notifying adm. G | *A1g* Inter. sat. org. | *BR1* Date of receipt 09.05.2012 | *BR20/BR21* BR IFIC no./part 2732/
BR6a/BR6b Id. no. 112520178 | *BR3a/BR3b* Provision reference 9.6 C | *BR2* Adm. serial no.

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

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)			BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
SIX	R		112665648		A-----	250000	13750	-	14000	9.7	1	EC	1	1
			112665649		A-----	250000	13750	-	14000	9.7	1	EC	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	E		112665633		N-----	250000	12500	-	12750		1	EC	1	1
FOUR	E		112665634		A-----	250000	12500	-	12750	9.7,A30#7.1	1	EC	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	EC	1	1
			112665637		A-----	250000	12500	-	12750	9.7,A30#7.1	1	EK, ER	1	2
ONE	E		112665638		A-----	250000	10950	-	11700	9.7	2	EC	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	E		112665642		A-----	500000	11700	-	12200	9.14,9.7,A30#7.1	1	EC	1	1
			112665643		A-----	500000	11700	-	12200	9.14,9.7,A30#7.1	1	EC	1	1
			112665644		A-----	500000	11700	-	12200	9.14,9.7,A30#7.1	1	EC	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	E		112665647		N-----	250000	10950	-	11700		2	EC	1	2

BR57 Category	C2
BR56 Total number of units	33

Conformity with RR
A-: Favourable
N-: Unfavourable

Forms of coordination

SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص — CR/C/3186

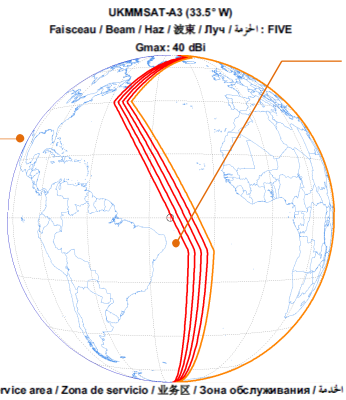
On trouvera le résumé de la transaction contenant les caractéristiques détaillées de la présente Section Spéciale CR/C dans le document: CRC3186_T.pdf	The transaction summary containing the detailed characteristics of the present Special Section CR/C can be found in the document: CRC3186_T.pdf	El resumen 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
包含本CR/C特节详细特性的资料处理概要见以下文件: CRC3186_T.pdf	Со сводкой о транзакции, содержащей подробные характеристики настоящей Специальной секции CR/C, можно ознакомиться в документе: CRC3186_T.pdf	يمكن الاطلاع على موجز المعاملة الذي يضم الخصائص التفصيلية للقسم الخاص الحالي CR/C في الوثيقة: CRC3186_T.pdf

Detailed characteristics of network

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
空间台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 وأكنة الكسب لموائي الإرسال للمحطة الفضائية

Gain contour & service area diagrams



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 الخدمة : XR1 (No. 01)

CR/C/3186

Page / Página / 页 / стр. / الصفحة 8

OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS	RADIOCOMMUNICATION BUREAU COMMENTS	OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES
Relatives à la Conclusion conformément au NO 11.31	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, explanation of findings

I. Nécessité d'une coordination au niveau du groupe
一、需要在组的层次进行的协调
I. Coordination requirements at group level
I. Потребности в координации на уровне группы
I. Requisitos de coordinación a nivel de grupo
I. متطلبات التنسيق على مستوى المجموعة

9.7 (DT/T)

9.7 (CA)

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:			Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً لرقم 9.7 بموجب:								
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	Delta T/T Дельта T/T	Delta T/T دلتا T/T	Arc de coordination 协调弧			Coordination Arc Дуга координации			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	CLM LUX	E RUS/IK	HOL RUS				
		112665653	14				B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS				
		112665654	13				B ISR USA	CHN LUX	E RUS/IK	HOL RUS	I UAE				
		112665655	14				B I UAE	CHN ISR USA	CLM LUX	E RUS/IK	HOL RUS				
		112665656	13				B ISR USA	CHN LUX	E RUS/IK	HOL RUS	I UAE				
FOUR	E	112665634	12				CHN LUX	E RUS/IK	HOL RUS	I UAE	ISR USA				
		112665635	12				CHN LUX	E RUS/IK	HOL RUS	I UAE	ISR USA				
		112665636	12				CHN LUX	E RUS/IK	HOL RUS	I UAE	ISR USA				
		112665637	12				CHN LUX	E RUS/IK	HOL RUS	I UAE	ISR USA				

Coordination requirements at group level

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:			Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً للرقم 9.7 بموجب:		
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	Delta T/T Дельта T/T	Delta T/T T/T دلتا	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق
ONE	E	112665638	11				B CHN CLM E HOL I ISR LUX RUS/IK RUS UAE USA		
		112665639	11				B CHN CLM E HOL I ISR LUX RUS/IK RUS UAE USA		
		112665640	11				B CHN CLM E HOL I ISR LUX RUS/IK RUS UAE USA		
		112665641	11				B CHN CLM E HOL I ISR LUX RUS/IK RUS UAE USA		
THREE	E	112665642	11				B CHN CLM E HOL I ISR LUX RUS/IK UAE USA		
		112665643	11				B CHN CLM E HOL I ISR LUX RUS/IK UAE USA		
		112665644	11				B CHN CLM E HOL I ISR LUX RUS/IK UAE USA		
		112665645	11				B CHN CLM E HOL I ISR LUX RUS/IK UAE USA		
		112665646	11				B CHN CLM E HOL I ISR LUX RUS/IK UAE USA		

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations identifiées au titre du AP30#7.1 识别主管部门的依据是 AP30#7.1	Administrations identified under AP30#7.1 Администрации, идентифицированные согласно AP30#7.1	Administraciones identificadas según AP30#7.1 إدارات محددة بموجب AP30#7.1
FOUR	E	112665634	12			
		112665635	12			
		112665636	12			
		112665637	12			
THREE	E	112665642	11	CPV E ISL ISR LBR LUX SRL UAE USA		
		112665643	11			
		112665644	11	CPV ISL ISR UAE		
		112665645	11	CPV E ISL ISR LBR LUX SRL UAE USA		
		112665646	11	CPV E ISL ISR LBR SRL UAE		

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Other forms of coordination at group level

II. Liste des 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)

es de satélite rmación, véase el N.° 9.36.2)
II. قائمة بالشبكات الساتلية (انظر الرقم 9.36.2

Modified by WRC-12, effective 01.01.2013

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 الساتلية التي تكون فيها قيمة دلتا T/T > 6% أو التي تقع داخل قوس التنسيق (بموجب الرقم 9.7)

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
B		B-SAT-1L	37 W	C	A	109520007			A
		B-SAT-1Y	26 W	C	A	110520466			A
CHN		CHINASAT-AL4	40 W	C	A	110520121			A
CLM		SATCOL 1P	38 W	C	A	110520469			A
E		HISPASAT 2A 36W	36 W	C	A	109520110			A
		HISPASAT 36W	36 W	C	A	107520253			A
		HISPASAT-1	31 W	C	A	90500187			A
		HISPASAT-1	30 W	N	A	92500108			A
		HISPASAT-1D KU	30 W	C	A	102520044			A
		HISPASAT-1D KU	30 W	N	A	106500012			A
		HISPASAT-2A KU	30 W	C	A	94520009			A
		HISPASAT-2A KU	30 W	N	A	102500409			A
		HISPASAT-2B KU	30 W	C	A	94520010			A
		HISPASAT-2B KU	30 W	N	A	100500226			A
		HISPASAT-2C3 KU	30 W	C	A	95520194			A
		HISPASAT-2C3 KU	30 W	N	A	100500225			A
		HISPASAT-2D KU	30 W	C	A	100520256			A
		HISPASAT-2D KU	30 W	N	A	104500108			A
		HISPASAT-6A	26 W	C	A	111520213			A
HOL		INTELSAT IBS 319.5E	40.5 W	C	A	90500656			A
		INTELSAT IBS 319.5E	40.5 W	N	A	92500290			A
		INTELSAT K 319.5E	40.5 W	C	A	90500964			A
		INTELSAT K 319.5E	40.5 W	N	A	102500108			A
		INTELSAT5A 319.5E	40.5 W	C	A	90500563			A
		INTELSAT5A 319.5E	40.5 W	N	A	92500194			A
		INTELSAT7 319.5E	40.5 W	C	A	90500763			A
		INTELSAT7 319.5E	40.5 W	N	A	102500109			A
		INTELSAT8 319.5E	40.5 W	C	A	92520096			A
		INTELSAT8 319.5E	40.5 W	N	A	101500580			A
		NSS-18	40.5 W	C	A	100520134			A

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Formal List of affected networks

3 key points

1. 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

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