



UNION INTERNATIONALE DES TELECOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

RES 609 (Rév.CMR-07)	RES 609 (Rev.WRC-07)	RES 609 (Rev.CMR-07)
Dixième réunion de consultation sur la Résolution 609 (Rév.CMR-07) Los Angeles, Etats Unis, du 10 au 12 septembre 2013	Tenth Resolution 609 (Rev.WRC-07) Consultation Meeting Los Angeles, USA 10-12 September 2013	Décima Reunión de consulta sobre la Resolución 609 (Rev.CMR-07), Los Ángeles, Estados Unidos, del 10 al 12 de septiembre de 2013
<p>Les présents renseignements sont publiés par le Bureau conformément <i>au point 3 du charge le Bureau</i>, de la Résolution 609 (Rév.CMR-07) :</p> <p>La Partie A contient la Liste des systèmes du SRNS et le Rapport sur les constatations établi par le Bureau à l'intention des participants à la réunion de consultation chargée de déterminer si le niveau de puissance surfacique visé au <i>point 1 du recommande</i> de la Recommandation 608 (Rév.CMR-07) est dépassé par une station spatiale considérée.</p> <p>La Partie B contient les renseignements publiés au <i>point 8 du décide</i> de la Résolution 609 (Rév.CMR-07), à savoir les résultats concernant la répartition du brouillage cumulatif en application du <i>point 2 du décide</i> de ladite Résolution, que ces résultats correspondent ou non à des modifications éventuelles des caractéristiques publiées de leurs systèmes ou réseaux respectifs.</p>	<p>This information is published by the Bureau in accordance with Resolution 609 (Rev.WRC-07) <i>instructs the Bureau 3</i>:</p> <p>Part A includes the List of RNSS systems and the Report of the findings by the Bureau to the participants of the Consultation meeting on the determination of whether the power flux-density level in <i>recommends 1</i> of Recommendation 608 (Rev.WRC-07) is exceeded by any subject space station.</p> <p>Part B includes the information referred to in <i>resolves 8</i> of the Resolution 609 (Rev.WRC-07), as results of any aggregate sharing determinations made in application of <i>resolves 2</i> of the Resolution 609 (Rev.WRC-07), without regard to whether such determinations result in any modifications to the published characteristics of their respective systems or networks.</p>	<p>Esta información se publica por la Oficina con arreglo al <i>encarga a la Oficina 3</i> de la Resolución 609 (Rev.CMR-07):</p> <p>La Parte A incluye la lista de sistemas del SRNS y el Informe de las conclusiones de la Oficina dirigido a los participantes de la reunión de consulta para determinar si el nivel de densidad de flujo de potencia indicado en el <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) es rebasado por alguna estación espacial en cuestión.</p> <p>La Parte B incluye la información a la que se refiere el <i>resuelve 8</i> de la Resolución 609 (Rev.CMR-07), como resultado de cualquier decisión sobre compartición combinada tomada en aplicación del <i>resuelve 2</i> de la Resolución 609 (Rev.CMR-07), sin tener en cuenta si dichas decisiones tienen como resultado cualquier modificación en las características publicadas de sus respectivos sistemas o redes.</p>



国际电信联盟
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات
مكتب الاتصالات الراديوية

第 609 号决议 (WRC-07 修订版)	РЕЗ 609 (Пересм.ВКР-07)	القرار 609 (Rev.WRC-07)
关于第 609 号决议 (WRC-07, 修订版) 的第十次磋商会议 2013 年 9 月 10-12 日, 美国洛杉矶	Девятое консультативное собрание по Резолюции 609 (Пересм. ВКР-07) Токио, Япония, 10–12 сентября 2013 г.	الاجتماع التشاوري العاشر حول القرار 609 (Rev.WRC-07) لوس أنجلوس، الولايات المتحدة الأمريكية، 12-10 سبتمبر 2013
<p>无线电通信局根据第 609 号决议 (WRC-07 修订版) 责成无线电通信局 3 公布本信息:</p> <p>A 部分包括卫星无线电导航业务 (RNSS) 系统列表和无线电通信局向参加磋商会议的与会者提供的该局的审查结果报告。磋商会议旨在确定第 608 号建议 (WRC-07 修订版) 建议 1 中的功率通量密度限值是否被某个特定空间台站所超过。</p> <p>B 部分 包括第 609 号决议 (WRC-07 修订版) 做出决议 8 所列的信息, 即有关执行第 609 号决议 (WRC-07 修订版) 作出决议 2 中的集总干扰分摊的确定结果, 不论这一确定结果是否修改其各自系统或网络的已公布特性。</p>	<p>Настоящая информация публикуется Бюро в соответствии с п.3 раздела "порукает Бюро" Резолюции 609 (Пересм.ВКР-07):</p> <p>Часть А содержит список систем РНСС, а также Отчет участникам консультативного собрания о заключениях Бюро относительно определения, превышает ли уровень потока мощности, определенный в п.1 раздела "рекомендует" Рекомендации 608 (Пересм.ВКР-07), какой-либо из рассматриваемых космических станций или нет.</p> <p>Часть В содержит информацию, о которой идет речь в п.8 раздела "решает" Резолюции 609 (Пересм.ВКР-07) и которая является результатом любого определения условий совместного использования суммарного допустимого уровня согласно пункту 2 раздела "решает" Резолюции 609 (Пересм.ВКР-07), независимо от того, достигнуты ли эти результаты путем изменения объявленных характеристик их соответствующих систем или сетей или нет.</p>	<p>ينشر المكتب هذه المعلومات وفقاً للبند 3 من "يكلف مكتب الاتصالات الراديوية" في القرار 609 (Rev.WRC-07):</p> <p>يتضمن الجزء A قائمة بأنظمة خدمة الملاحة الراديوية الساتلية وتقريراً أعده المكتب يتضمن النتائج التي توصل إليها موجهاً للمشاركين في هذا الاجتماع التشاوري المكلف بتحديد ما إذا كانت حدود كثافة تدفق القدرة المنصوص عليها في البند 1 من "يوصي" في التوصية 608 (Rev.WRC-07) قد تجاوزتها أي محطة من المحطات الفضائية المعنية.</p> <p>ويتضمن الجزء B المعلومات المشار إليها في البند 8 من منطوق القرار 609 (Rev.WRC-07)، أي نتائج ترتيبات التقاسم التراكمي التي يتم التوصل إليها تنفيذاً للبند 2 من منطوق القرار 609 (Rev.WRC-07)، بغض النظر عما إذا كانت هذه الترتيبات سيسفر عنها أي تعديلات في الخصائص المنشورة لأنظمة الإدارات المعنية وشبكاتهما.</p>

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PARTIE A	PART A	PARTE A
<p>Liste des systèmes du SRNS et Rapport sur les constatations établi par le Bureau à l'intention des participants à la réunion de consultation chargée de déterminer si le niveau de puissance surfacique visé au <i>point 1 du recommande</i> de la Recommandation 608 (Rév.CMR-07) est dépassé par une station spatiale considérée.</p>	<p>List of the RNSS systems and Report of the findings by the Bureau to the participants of the Consultation meeting on the determination of whether the power flux-density level in <i>recommends 1</i> of Recommendation 608 (Rev.WRC-07) is exceeded by any subject space station.</p>	<p>Lista de sistemas del SRNS e Informe de las conclusiones de la Oficina dirigido a los participantes de la reunión de consulta para determinar si el nivel de densidad de flujo de potencia del <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) es rebasado por alguna estación espacial en cuestión.</p>
<p>Aux termes du <i>point 1 du recommande</i> de la Recommandation 608 (Rév.CMR-07), lors de l'application des dispositions du <i>point 5 du décide</i> de la Résolution 609 (Rév.CMR-07), dans la bande 1 164 – 1 215 MHz, la puissance surfacique maximale rayonnée à la surface de la Terre par les émissions d'une station spatiale du SRNS, pour tous les angles d'arrivée, ne dépasse pas -129 dB(W/m²) dans une bande quelconque de 1 MHz dans des conditions de propagation en espace libre.</p>	<p>Recommendation 608 (Rev.WRC-07) <i>recommends 1</i>, indicates that in the implementation of <i>resolves 5</i> of Resolution 609 (Rev.WRC-07), in the frequency band 1 164 – 1 215 MHz, the maximum power flux-density produced at the surface of the Earth by emissions from a space station in the radionavigation-satellite service, for all angles of arrival, should not exceed -129 dB(W/m²) in any 1 MHz band under free space propagation conditions.</p>	<p>La Recomendación 608 (Rev.CMR-07) en su <i>recomienda 1</i> señala que en la aplicación del <i>resuelve 5</i> de la Resolución 609 (Rev.CMR-07), en la banda de frecuencias 1 164 – 1 215 MHz, la máxima densidad de flujo de potencia producida en la superficie de la Tierra por las emisiones de una estación espacial del servicio de radionavegación por satélite, para todos los ángulos de llegada, no deberá superar -129 dB(W/m²) en cualquier banda de 1 MHz en condiciones de propagación en espacio libre.</p>

A 部分	ЧАСТЬ А	الجزء A
<p>RNSS 系统列表和无线电通信局向参加磋商会议的与会者提供的该局的审查结果报告。磋商会议旨在确定第 608 号建议 (WRC-07 修订版) 建议 1 中的功率通量密度限值是否被某个特定空间台站所超过。</p>	<p>Список систем РНСС и Отчет участникам консультативного собрания о заключениях Бюро относительно определения, превышает ли уровень потока мощности, определенный в п.1 раздела "<i>рекомендует</i>" Рекомендации 608 (Пересм.ВКР-07), какой-либо из рассматриваемых космических станций или нет.</p>	<p>قائمة بأنظمة خدمة الملاحة الراديوية الساتلية وتقرير أعده المكتب يتضمن النتائج التي توصل إليها موجهاً للمشاركين في هذا الاجتماع التشاوري المكلف بتحديد ما إذا كانت حدود كثافة تدفق القدرة المنصوص عليها في البند <i>I</i> من "<i>يوصي</i>" في التوصية 608 (Rev.WRC-07) قد تجاوزتها أي محطة من المحطات الفضائية المعنية.</p>
<p>第 608 号建议 (WRC-07 修订版) 建议 1 指出, 在执行第 609 号决议 (WRC-07 修订版) 做出决议第 5 段时, 在 1 164-1 215MHz 频带内和在所有到达角上, 卫星无线电导航业务空间台站的发射在地球表面产生的最大功率通量密度, 在自由空间传播条件下, 在任何 1MHz 频带内, 不得超过 -129 dB (W/m²)。</p>	<p>В п.1 раздела "<i>рекомендует</i>" Рекомендации 608 (Пересм.ВКР-07) указывается, что при применении пункта 5 раздела "<i>решает</i>" Резолюции 609 (Пересм.ВКР-07) в полосе частот 1 164–1 215 МГц максимальная плотность потока мощности, создаваемая у поверхности Земли излучениями космической станции радионавигационной спутниковой службы, для всех углов прихода не должна превышать -129 дБ(Вт/м²) в любой полосе шириной 1 МГц при условиях распространения в свободном пространстве.</p>	<p>ينص البند <i>I</i> من "<i>يوصي</i>" في التوصية 608 (Rev.WRC-07) على أنه, في تطبيق البند <i>5</i> من منطوق القرار 609 (Rev.WRC-07), ينبغي ألا تتجاوز كثافة تدفق القدرة القصوى الناتجة عند سطح الأرض عن إرسالات محطة فضائية في خدمة الملاحة الراديوية الساتلية في نطاق الترددات 1 164 – 1 215 MHz، القيمة -129 dB(W/m²)، في أي نطاق يبلغ 1 MHz، لجميع زوايا الوصول، وفي ظروف الانتشار في الفضاء الحر.</p>

**Liste des systèmes du SRNS – Description des colonnes / List of the RNSS systems - Description of the columns /
Listas de los sistemas del SRNS - Descripción de las columnas**

Item	Description	Description	Descripción
ntc_id	Numéro d'identification du réseau à satellite	Identification number of the network	BR Número de identificación de la red
adm	Administration notificatrice (voir le Tableau 1 de la Préface)	Notifying administration (Refer to Table 1 of the Preface)	Administración notificante (véase el cuadro 1 del Prefacio)
ntw_org	Organisation Intergouvernementale de Satellite	Intergovernmental Satellite Organization	Organización Intergubernamental de Satélite
sat_name	Identité du réseau à satellite	Identity of the satellite network	Identidad de la red de satélite
long_nom	Longitude nominale d'une station spatiale géostationnaire (degré)	Nominal longitude of a geostationary space station (degree)	Longitud nominal de una estación espacial geoestacionaria (grado)
ntf_rsn	A = Réseau au stade API C = Réseau au stade de la coordination N = Réseau au stade de la notification	A = Network in API stage C = Network in coordination stage N = Network in notification stage	B = Red en etapa de API C = Red en etapa de coordinación N = Red en etapa de notificación
d_rcv	Date de réception	Date of receipt	Fecha de recepción
sns_ref+ssn_no	Référence aux Sections Spéciales	Reference to Special Sections	Referencia a las Secciones Especiales
ific_no	Numéro de la BR IFIC	BR IFIC number	Número de la BR IFIC
dBiU	Date of bringing into use	Date de mise en service	Fecha de puesta en servicio
Annex to RES-609	Systèmes du SRNS ayant des assignations de fréquence dans la bande 1 164 – 1 215 MHz pour lesquels les informations demandées dans l'Annexe de la Résolution 609 ont été fournies à la réunion de consultation.	RNSS systems with frequency assignments in the band 1 164-1 215 MHz for which Annex to Resolution 609 information has been provided to the Consultation meeting.	Sistemas del SRNS con asignaciones de frecuencias en la banda 1 164 - 1 215 MHz para los cuales se ha proporcionado la información de la Resolución 609 a la reunión de consulta.
BR Report (RES 609 instructs the Bureau 2)	Rapport du Bureau contenant des conclusions relatives à la détermination des valeurs de puissance surfacique indiquées sous <i>recommande 1</i> de la Recommendation 608 (Rév.CMR-07) en utilisant les informations demandées au titre de l'Annexe 1 de ladite Recommendation.	Bureau's Report with findings relating to determination of the PFD values indicated in <i>recommends 1</i> of Recommendation 608 (rev.WRC-07) using Annex 1 information of this Recommendation.	Informe de la Oficina con las conclusiones relativas a la determinación de los valores de DFP indicados en el <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) utilizando la información del Anexo 1 de esta Recomendación.

RNSS 系统列表 – 栏目描述 / Список систем РНСС – Описание столбцов /

قائمة بأنظمة خدمة الملاحة الراديوية الساتلية – وصف الأعمدة

Item	描述	Описание	الوصف
ntc_id	卫星网络标识号码	Идентификационный номер спутниковой сети	رقم هوية الشبكة الساتلية
adm	通知主管部门 (参阅前言表 1)	Заявляющая администрация (см. таблицу 1 Предисловия)	الإدارة المبلغة (انظر الجدول 1 في المقدمة)
ntw_org	政府间卫星组织	Межправительственная спутниковая организация	منظمة ساتلية دولية حكومية
sat_name	卫星网络的标识	Название спутниковой сети	هوية الشبكة الساتلية
long_nom	静止空间台站标称经度 (度)	Номинальная долгота геостационарной космической станции (градусы)	خط الطول الاسمي لخط فضاء مستقرة بالنسبة إلى الأرض (بالدرجات)
ntf_rsn	A= 处于 API 阶段的网络 C= 处于协调阶段的网络 N= 处于通知阶段的网络	A = Сеть на этапе API C = Сеть на этапе координации N = Сеть на этапе заявления	A = شبكة في مرحلة "معلومات النشر المسبق" C = شبكة في مرحلة التنسيق N = شبكة في مرحلة التبليغ
d_rcv	收到日期	Дата получения	تاريخ الاستلام
sns_ref+ssn_no	引证特节	Ссылка на Специальные секции	إحالة إلى الأقسام الخاصة
ific_no	无线电通信局国际频率信息通报编号	Номер ИФИК БР	رقم النشرة الإعلامية الدولية للترددات
dBiU	启用日期	Дата ввода в действие	تاريخ الدخول في الخدمة
Annex to RES-609	在 1164-1215MHz 频带内有频率指配的、第 609 号决议 (WRC-03) 附件中所要求的信息已提供给磋商会议的 RNSS 系统	Системы РНСС с присвоениями в полосе частот 1164–1215 МГц, по которым информация в соответствии с Дополнением к Резолюции 609 представлена консультативному собранию.	أنظمة خدمة الملاحة الراديوية الساتلية التي لها تخصيصات تردد في النطاق 1164 - 1215 MHz تم بشأنها تقديم المعلومات المطلوبة في الملحق بالقرار 609 إلى الاجتماع التشاوري.
BR Report (RES 609 instructs the Bureau 2)	无线电通信局的报告, 包括该局通过使用第 608 号建议 (WRC-07 修订版) 附件 1 建议 1 的信息做出的有关功率通量密度值的确定结果	Отчет Бюро с заключениями относительно определения значений ППМ, обозначенных в п. 1 раздела "рекомендует" Рекомендации 608 (rev.ВКР-07) с использованием информации Дополнения 1 к данной Рекомендации.	تقرير المكتب الذي يتضمن النتائج المحددة بشأن قيم كثافة تدفق القدرة المبينة في البند 1 من "بوصي" في التوصية (rev.WRC-07) 608، باستعمال المعلومات المطلوبة في الملحق 1 بالتوصية المذكورة.

Annex 1

List of the RNSS systems (as of 10.04.2013) with frequency assignments in the band 1 164-1 215 MHz that meet the criteria listed in Annex to RES 609 (Rev.WRC-07) and Bureau's Report with findings relating to determination of the PFD values

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	pub_ref	pub_no	ific_no	dB <i>i</i> U	Annex to RES-609	BR Report ** (instructs the Bureau 2 of RES 609)
112541248	ALG		ALCOMSAT-24.8W	-24.8	A	API/A	8114	2739	29.11.2019	NO Input DOC	A
112541249	ALG		ALCOMSAT-33.5W	-33.5	A	API/A	8115	2739	29.11.2019	NO Input DOC	A
109540423	ARG		ARSAT-B	-72	A	API/A	5684	2648	29.05.2016	NO Input DOC	A
109540424	ARG		ARSAT-C	-81	A	API/A	5685	2648	29.05.2016	NO Input DOC	A
110520406	ARG		ARSAT-C	-81	C	CR/C	2762	2707	29.05.2016	NO Input DOC	N
105540005	ARS	ARB	ARABSAT 5A-30.5E	30.5	A	API/A	3398	2698	01.01.2011	NO Input DOC	A
105520072	ARS	ARB	ARABSAT 5A-30.5E	30.5	C	CR/C	1626	2662	01.06.2011	NO Input DOC	Y
105540006	ARS	ARB	ARABSAT 5B-26E	26	A	API/A	3399	2698	01.01.2011	NO Input DOC	A
105520073	ARS	ARB	ARABSAT 5B-26E	26	C	CR/C	1627	2662	01.06.2011	NO Input DOC	Y
105540007	ARS	ARB	ARABSAT 5C-20E	20	A	API/A	3400	2698	01.01.2011	NO Input DOC	A
105520074	ARS	ARB	ARABSAT 5C-20E	20	C	CR/C	1628	2662	01.06.2010	NO Input DOC	Y
107540315	ARS	ARB	ARABSAT 5D-17E	17	A	API/A	4649	2644	11.06.2012	NO Input DOC	A
109520057	ARS	ARB	ARABSAT 5D-17E	17	C	CR/C	2388	2701	01.06.2011	NO Input DOC	Y

* Administrations that have submitted materials pursuant to §§ 11 b) and/or c) of the *RES-609 ToR* to one Consultation Meeting, and have had the subject RNSS system or network reflected in the aggregate sharing determination agreed by a Consultation Meeting, need not resubmit the same information to a subsequent Consultation Meeting under the timetable established in §§ 11 b) and/or c), provided that:

- a. The subject network or system remains on the list to be provided for the subsequent Consultation Meeting by the BR under § 11 a) above; and
- b. The administration that submitted the information provides to all administrations on the list provided by the BR in § 11 a) above, with a copy to the BR for information, on or before the deadline established under §§ 11 b) and c) for the subsequent Consultation Meeting, a statement that there have been no material changes in the information previously provided under §§ 11 b) and/or c) for the subject system or network.

** Characteristics of the satellite networks used by administrations were representative of intended or actual operating characteristics, and thus may be different from those characteristics that may be included in the corresponding Article 9 and/or Article 11 filings. These former characteristics were not made available to the Bureau in the standard electronic AP4 form necessary to perform PFD calculations. The Bureau therefore calculated PFD values based on information available to the BR in Article 9 or 11 submissions. “Y” in this column indicates PFD excess, “N” in this column indicates no PFD excess, “A” in this column indicates a short form **API** filing (Article 9, Sub-Section IB) for which the Bureau could not calculate PFD values.

PFD values calculated by administrations and submitted under § 1.4 and 1.5 of the Annex to REC 608 (Rev.WRC-07), that are separately available to the participating administrations on the RES-609 web page at: <http://groups.itu.int/res-609> show no PFD excess over the limit of REC 608 (Rev.WRC-07).

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	pub_ref	pub_no	ific_no	dBiu	Annex to RES-609	BR Report ** (instructs the Bureau 2 of RES 609)
105540008	ARS	ARB	ARABSAT 6D-7.5E	7.5	A	API/A	3401	2601	01.01.2011	NO Input DOC	A
105520075	ARS	ARB	ARABSAT 6D-7.5E	7.5	C	CR/C	1629	2662	01.06.2011	NO Input DOC	Y
105540009	ARS	ARB	ARABSAT 6E-34.5E	34.5	A	API/A	3402	2601	01.01.2011	NO Input DOC	A
105520076	ARS	ARB	ARABSAT 6E-34.5E	34.5	C	CR/C	1630	2662	01.06.2011	NO Input DOC	Y
105540010	ARS	ARB	ARABSAT 6F-44.5E	44.5	A	API/A	3403	2601	01.01.2011	NO Input DOC	A
105520077	ARS	ARB	ARABSAT 6F-44.5E	44.5	C	CR/C	1631	2662	01.06.2011	NO Input DOC	Y
108540663	ARS	ARB	ARABSAT 7A-30.5E	30.5	A	API/A	5397	2702	23.11.2015	NO Input DOC	A
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.5	C	CR/C	2406	2701	23.11.2015	NO Input DOC	Y
108540664	ARS	ARB	ARABSAT 7B-26E	26	A	API/A	5398	2702	23.11.2015	NO Input DOC	A
109520113	ARS	ARB	ARABSAT 7B-26E	26	C	CR/C	2407	2701	23.11.2015	NO Input DOC	Y
108540665	ARS	ARB	ARABSAT 7C-20E	20	A	API/A	5399	2702	23.11.2015	NO Input DOC	A
109520114	ARS	ARB	ARABSAT 7C-20E	20	C	CR/C	2408	2701	23.11.2015	NO Input DOC	Y
108540666	ARS	ARB	ARABSAT 7D-7.5E	7.5	A	API/A	5400	2702	23.11.2015	NO Input DOC	A
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.5	C	CR/C	2409	2701	23.11.2015	NO Input DOC	Y
108540667	ARS	ARB	ARABSAT 7E-34.5E	34.5	A	API/A	5401	2702	23.11.2015	NO Input DOC	A
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.5	C	CR/C	2410	2701	23.11.2015	NO Input DOC	Y
108540668	ARS	ARB	ARABSAT 7F-44.5E	44.5	A	API/A	5402	2702	23.11.2015	NO Input DOC	A
109520117	ARS	ARB	ARABSAT 7F-44.5E	44.5	C	CR/C	2411	2701	23.11.2015	NO Input DOC	Y
108540669	ARS	ARB	ARABSAT 7G-11E	11	A	API/A	5403	2702	23.11.2015	NO Input DOC	A
109520118	ARS	ARB	ARABSAT 7G-11E	11	C	CR/C	2412	2701	23.11.2015	NO Input DOC	Y
112540858	ARS	ARB	ARABSAT 8A-30.5E	30.5	A	API/A	7901	2729	01.01.2018	NO Input DOC	A
112540859	ARS	ARB	ARABSAT 8B-26E	26	A	API/A	7902	2729	01.01.2018	NO Input DOC	A
112540860	ARS	ARB	ARABSAT 8C-20E	20	A	API/A	7903	2729	01.01.2018	NO Input DOC	A
112540861	ARS	ARB	ARABSAT 8D-7.5E	7.5	A	API/A	7904	2729	01.01.2018	NO Input DOC	A
112540862	ARS	ARB	ARABSAT 8E-34.5E	34.5	A	API/A	7905	2729	01.01.2018	NO Input DOC	A
112540863	ARS	ARB	ARABSAT 8F-44.5E	44.5	A	API/A	7906	2729	01.01.2018	NO Input DOC	A
112540864	ARS	ARB	ARABSAT 8G-11E	11	A	API/A	7907	2729	01.01.2018	NO Input DOC	A
112540865	ARS	ARB	ARABSAT 8H-17E	17	A	API/A	7908	2729	01.01.2018	NO Input DOC	A
112541380	ARS	ARB	ARABSAT 8I-34E	34	A	API/A	8248	2741	01.01.2018	NO Input DOC	A
106540137	B		B-SAT-1W	-48	A	API/A	4090	2573	30.05.2013	NO Input DOC	A
106520232	B		B-SAT-1W	-48	C	CR/C	1913	2609	15.09.2009	NO Input DOC	N
111540849	B		B-SAT-1W-1	-48	A	API/A	7203	2710	07.10.2018	NO Input DOC	A
112520148	B		B-SAT-1W-1	-48	C	CR/C	3179	2742	07.10.2018	NO Input DOC	N
109540726	B		B-SAT-2E	-87	A	API/A	5878	2657	04.09.2016	NO Input DOC	A
110520001	B		B-SAT-2E	-87	C	CR/C	2620	2692	04.09.2016	NO Input DOC	N

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110540262	CHN		CGSAT-98W	-94.5	A	API/A	6257	2686	01.05.2017	NO Input DOC	A
112540382	CHN		CGSAT-A02	-104	A	API/A	7534	2721	01.07.2018	NO Input DOC	A
112540383	CHN		CGSAT-A03	-37	A	API/A	7535	2721	01.07.2018	NO Input DOC	A
112540384	CHN		CGSAT-A04	-23	A	API/A	7536	2721	01.07.2018	NO Input DOC	A
112540385	CHN		CGSAT-A05	-16	A	API/A	7537	2721	01.07.2018	NO Input DOC	A
112540386	CHN		CGSAT-A06	-2	A	API/A	7538	2721	01.07.2018	NO Input DOC	A
112540387	CHN		CGSAT-A07	1	A	API/A	7539	2721	01.07.2018	NO Input DOC	A
112540388	CHN		CGSAT-A08	13.5	A	API/A	7540	2721	01.07.2018	NO Input DOC	A
112540389	CHN		CGSAT-A09	35	A	API/A	7541	2721	01.07.2018	NO Input DOC	A
112540390	CHN		CGSAT-A10	75	A	API/A	7542	2721	01.07.2018	NO Input DOC	A
112540391	CHN		CGSAT-A11	82.5	A	API/A	7543	2721	01.07.2018	NO Input DOC	A
112540392	CHN		CGSAT-A12	131	A	API/A	7544	2721	01.07.2018	NO Input DOC	A
112540393	CHN		CGSAT-A13	142	A	API/A	7545	2721	01.07.2018	NO Input DOC	A
112540394	CHN		CGSAT-A14	158	A	API/A	7546	2721	01.07.2018	NO Input DOC	A
107540051	CHN		CHINASAT-ROUTE1	51.5	A	API/A	4509	2591	10.02.2014	NO Input DOC	A
107540065	CHN		CHINASAT-ROUTE15	163	A	API/A	4523	2591	10.02.2014	NO Input DOC	A
107540053	CHN		CHINASAT-ROUTE3	71.7	A	API/A	4511	2591	10.02.2014	NO Input DOC	A
107540055	CHN		CHINASAT-ROUTE5	92.2	A	API/A	4513	2603	10.02.2014	NO Input DOC	A
107540056	CHN		CHINASAT-ROUTE6	105	A	API/A	4514	2591	10.02.2014	NO Input DOC	A
107540057	CHN		CHINASAT-ROUTE7	115.5	A	API/A	4515	2591	10.02.2014	NO Input DOC	A
107540058	CHN		CHINASAT-ROUTE8	125	A	API/A	4516	2591	10.02.2014	NO Input DOC	A
100543887	CHN		COMPASS-110.5E	110.5	A	API/A	1302	2512	17.08.2006	9 th meeting DOC *	A
101520012	CHN		COMPASS-110.5E	110.5	C	CR/C	800	2543	31.12.2003	9 th meeting DOC *	N
103500418	CHN		COMPASS-110.5E	110.5	N	PART	II-S	2681	17.08.2006	9 th meeting DOC *	N
100543886	CHN		COMPASS-140E	140	A	API/A	1303	2570	17.04.2007	9 th meeting DOC *	A
101520013	CHN		COMPASS-140E	140	C	CR/C	801	2543	17.04.2007	9 th meeting DOC *	N
103500419	CHN		COMPASS-140E	140	N	PART	II-S	2684	17.10.2006	9 th meeting DOC *	N
103540921	CHN		COMPASS-160E	160	A	API/A	2996	2539	16.11.2010	9 th meeting DOC *	A
105520009	CHN		COMPASS-160E	160	C	CR/C	1526	2588	16.11.2010	9 th meeting DOC *	N
109500803	CHN		COMPASS-160E	160	N	PART	II-S	2701	16.11.2010	9 th meeting DOC *	N
100543884	CHN		COMPASS-58.75E	58.75	A	API/A	1300	2570	17.04.2007	9 th meeting DOC *	A
101520010	CHN		COMPASS-58.75E	58.75	C	CR/C	798	2543	17.04.2007	9 th meeting DOC *	N

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103500416	CHN		COMPASS-58.75E	58.75	N	PART	II-S	2687	08.12.2006	9 th meeting DOC *	N
112541042	CHN		COMPASS-80.3E	80.3	A	API/A	7978	2733	08.10.2014	NO Input DOC	A
100543885	CHN		COMPASS-80E	80	A	API/A	1301	2570	17.04.2007	9 th meeting DOC *	A
101520011	CHN		COMPASS-80E	80	C	CR/C	799	2543	17.04.2007	9 th meeting DOC *	N
103500417	CHN		COMPASS-80E	80	N	PART	II-S	2689	17.06.2006	9 th meeting DOC *	N
109540517	CHN		COMPASS-B-144.5E	144.5	A	API/A	5749	2650	10.07.2011	9 th meeting DOC *	A
111520204	CHN		COMPASS-B-144.5E	144.5	C	CR/C	2934	2702	10.07.2011	9 th meeting DOC *	Y
109540516	CHN		COMPASS-B-84E	84	A	API/A	5748	2650	10.07.2011	9 th meeting DOC *	A
111520203	CHN		COMPASS-B-84E	84	C	CR/C	2933	2702	10.07.2011	9 th meeting DOC *	Y
100543888	CHN		COMPASS-H	N-GSO	A	API/A	1305	2570	17.04.2007	9 th meeting DOC *	A
103500420	CHN		COMPASS-H	N-GSO	N	PART	II-S	2596	26.03.2007	9 th meeting DOC *	N
111540531	CHN		COMPASS-IGSO	N-GSO	A	API/A	7021	2714	20.04.2017	9 th meeting DOC *	A
112520031	CHN		COMPASS-IGSO	N-GSO	C	CR/C	3118	2741	20.04.2017	9 th meeting DOC *	N
100543882	CHN		COMPASS-M	N-GSO	A	API/A	1304	2570	17.04.2007	9 th meeting DOC *	A
103500421	CHN		COMPASS-M	N-GSO	N	PART	II-S	2596	16.04.2007	9 th meeting DOC *	N
110540190	CHN		COMPASS-MEO	N-GSO	A	API/A	6204	2683	10.12.2012	9 th meeting DOC *	A
110520285	CHN		COMPASS-MEO	N-GSO	C	CR/C	2740	2705	10.12.2012	9 th meeting DOC *	N
112540449	CHN		ITS-105E	105	A	API/A	7574	2742	01.01.2019	NO Input DOC	A
112540435	CHN		ITS-105W	-105	A	API/A	7560	2742	01.01.2019	NO Input DOC	A
112540441	CHN		ITS-10W	-10	A	API/A	7566	2742	01.01.2019	NO Input DOC	A
112540450	CHN		ITS-114.5E	114.5	A	API/A	7575	2742	01.01.2019	NO Input DOC	A
112540451	CHN		ITS-120.5E	120.5	A	API/A	7576	2742	01.01.2019	NO Input DOC	A
112540443	CHN		ITS-13.5E	13.5	A	API/A	7568	2742	01.01.2019	NO Input DOC	A
111540547	CHN		ITS-136E	136	A	API/A	7037	2704	07.07.2018	NO Input DOC	A
112540440	CHN		ITS-13W	-13	A	API/A	7565	2742	01.01.2019	NO Input DOC	A
112540444	CHN		ITS-23.5E	23.5	A	API/A	7569	2742	01.01.2019	NO Input DOC	A
112540445	CHN		ITS-36E	36	A	API/A	7570	2742	01.01.2019	NO Input DOC	A
112540439	CHN		ITS-48.5W	-48.5	A	API/A	7564	2742	01.01.2019	NO Input DOC	A
112540442	CHN		ITS-6E	6	A	API/A	7567	2742	01.01.2019	NO Input DOC	A
112540446	CHN		ITS-70.5E	70.5	A	API/A	7571	2742	01.01.2019	NO Input DOC	A
112540447	CHN		ITS-78.5E	78.5	A	API/A	7572	2742	01.01.2019	NO Input DOC	A

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112540438	CHN		ITS-85.5W	-85.5	A	API/A	7563	2742	01.01.2019	NO Input DOC	A
112540448	CHN		ITS-90.5E	90.5	A	API/A	7573	2742	01.01.2019	NO Input DOC	A
112540437	CHN		ITS-93W	-93	A	API/A	7562	2742	01.01.2019	NO Input DOC	A
112540436	CHN		ITS-97W	-97	A	API/A	7561	2742	01.01.2019	NO Input DOC	A
100544017	D	GLS	GALILEO-NAV-2004	N-GSO	A	API/A	1397	2562	01.05.2004	2 nd meeting DOC *	A
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	II-S	2582	03.03.2006	2 nd meeting DOC *	N
112540961	EGY		EGJAN10B	40	A	API/A	7956	2732	14.04.2019	NO Input DOC	A
112540962	EGY		EGJAN11B	46	A	API/A	7957	2732	14.04.2019	NO Input DOC	A
112540963	EGY		EGJAN12B	52	A	API/A	7958	2732	14.04.2019	NO Input DOC	A
112540964	EGY		EGJAN13B	58	A	API/A	7959	2732	14.04.2019	NO Input DOC	A
112540965	EGY		EGJAN14B	64	A	API/A	7960	2732	14.04.2019	NO Input DOC	A
112540952	EGY		EGJAN1B	-14	A	API/A	7947	2732	14.04.2019	NO Input DOC	A
112540953	EGY		EGJAN2B	-8	A	API/A	7948	2732	14.04.2019	NO Input DOC	A
112540954	EGY		EGJAN3B	-2	A	API/A	7949	2732	14.04.2019	NO Input DOC	A
112540955	EGY		EGJAN4B	4	A	API/A	7950	2732	14.04.2019	NO Input DOC	A
112540956	EGY		EGJAN5B	10	A	API/A	7951	2732	14.04.2019	NO Input DOC	A
112540957	EGY		EGJAN6B	16	A	API/A	7952	2732	14.04.2019	NO Input DOC	A
112540958	EGY		EGJAN7B	22	A	API/A	7953	2732	14.04.2019	NO Input DOC	A
112540959	EGY		EGJAN8B	28	A	API/A	7954	2732	14.04.2019	NO Input DOC	A
112540960	EGY		EGJAN9B	34	A	API/A	7955	2732	14.04.2019	NO Input DOC	A
109540384	EGY		NAVISAT-10A	22	A	API/A	5646	2647	01.01.2012	NO Input DOC	A
109540385	EGY		NAVISAT-11A	28.25	A	API/A	5647	2664	01.01.2012	NO Input DOC	A
109520317	EGY		NAVISAT-11A	28.25	C	CR/C	2533	2686	11.05.2016	NO Input DOC	N
109540386	EGY		NAVISAT-12A	35.5	A	API/A	5648	2664	01.01.2012	NO Input DOC	A
109520318	EGY		NAVISAT-12A	35.5	C	CR/C	2534	2686	11.05.2016	NO Input DOC	N
109540387	EGY		NAVISAT-13A	40	A	API/A	5649	2647	01.01.2012	NO Input DOC	A
109540388	EGY		NAVISAT-14A	44	A	API/A	5650	2664	01.01.2012	NO Input DOC	A
109520319	EGY		NAVISAT-14A	44	C	CR/C	2535	2686	11.05.2016	NO Input DOC	N
109540389	EGY		NAVISAT-15A	52	A	API/A	5651	2647	01.01.2012	NO Input DOC	A
109540390	EGY		NAVISAT-16A	58	A	API/A	5652	2647	01.01.2012	NO Input DOC	A
109540375	EGY		NAVISAT-1A	17	A	API/A	5637	2647	01.01.2012	NO Input DOC	A
109540376	EGY		NAVISAT-2A	21	A	API/A	5638	2647	01.01.2012	NO Input DOC	A
109520315	EGY		NAVISAT-2A	21	C	CR/C	2531	2686	11.05.2016	NO Input DOC	N
109540377	EGY		NAVISAT-3A	36.5	A	API/A	5639	2647	01.01.2012	NO Input DOC	A

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109540378	EGY		NAVISAT-4A	-14	A	API/A	5640	2647	01.01.2012	NO Input DOC	A
109540379	EGY		NAVISAT-5A	-8	A	API/A	5641	2647	01.01.2012	NO Input DOC	A
109540380	EGY		NAVISAT-6A	-2	A	API/A	5642	2647	01.01.2012	NO Input DOC	A
109540381	EGY		NAVISAT-7A	1	A	API/A	5643	2686	01.01.2012	NO Input DOC	A
110520449	EGY		NAVISAT-7A	1	C	CR/C	2780	2716	01.01.2012	NO Input DOC	N
109540382	EGY		NAVISAT-8A	10	A	API/A	5644	2647	01.01.2012	NO Input DOC	A
109540383	EGY		NAVISAT-9A	14	A	API/A	5645	2664	01.01.2012	NO Input DOC	A
109520316	EGY		NAVISAT-9A	14	C	CR/C	2532	2686	11.05.2016	NO Input DOC	N
109540489	F	GLS	GALILEO-2	N-GSO	A	API/A	5724	2651	22.04.2016	NO Input DOC	A
109520327	F	GLS	GALILEO-2	N-GSO	C	CR/C	2542	2686	22.04.2016	NO Input DOC	N
99543862	F	GLS	MSATNAV-2	N-GSO	A	API/A	1182	2562	12.09.2007	2 nd meeting DOC *	A
100500321	F	GLS	MSATNAV-2	N-GSO	N	PART	II-S	2588	03.03.2006	2 nd meeting DOC *	N
100543989	F	GLS	MSATNAV-3	N-GSO	A	API/A	1387	2562	12.09.2007	2 nd meeting DOC *	A
101500014	F	GLS	MSATNAV-3	N-GSO	N	PART	II-S	2588	03.03.2006	2 nd meeting DOC *	N
102540351	F	GLS	MSATNAV-4	N-GSO	A	API/A	2434	2562	12.09.2007	2 nd meeting DOC *	A
103500093	F	GLS	MSATNAV-4	N-GSO	N	PART	II-S	2588	03.03.2006	2 nd meeting DOC *	N
112540170	F		AST-W-115W	-115	A	API/A	7446	2719	01.01.2018	NO Input DOC	A
112540169	F		AST-W-121W	-121	A	API/A	7445	2719	01.01.2018	NO Input DOC	A
112540168	F		AST-W-127W	-127	A	API/A	7444	2719	01.01.2018	NO Input DOC	A
112540167	F		AST-W-132W	-132	A	API/A	7443	2719	01.01.2018	NO Input DOC	A
112540166	F		AST-W-135W	-135	A	API/A	7442	2719	01.01.2018	NO Input DOC	A
96540057	G		INMARSAT GSO-2H	65	A	API/A	1211	2586	01.05.2006	NO Input DOC	A
97520331	G		INMARSAT GSO-2H	65	C	CR/C	412	2548	01.05.2006	NO Input DOC	N
106500143	G		INMARSAT GSO-2H	65	N	PART	II-S	2658	28.05.2005	NO Input DOC	N
96540056	G		INMARSAT GSO-2J	-54	A	API/A	1213	2534	31.12.2004	NO Input DOC	A
97520322	G		INMARSAT GSO-2J	-54	C	CR/C	413	2548	31.12.2004	NO Input DOC	N
109500253	G		INMARSAT GSO-2J	-54	N	PART	II-S	2668	23.01.2006	NO Input DOC	N
101540210	G		INMARSAT GSO-2L	-53	A	API/A	2030	2534	31.12.2005	NO Input DOC	A
102520001	G		INMARSAT GSO-2L	-53	C	CR/C	1024	2555	23.01.2006	NO Input DOC	N
108501009	G		INMARSAT GSO-2L	-53	N	PART	II-S	2686	23.01.2006	NO Input DOC	N
102540249	G		INMARSAT GSO-2N	64	A	API/A	2379	2534	31.12.2005	NO Input DOC	A
102520123	G		INMARSAT GSO-2N	64	C	CR/C	1150	2558	31.12.2004	NO Input DOC	N
109500230	G		INMARSAT GSO-2N	64	N	PART	II-S	2696	31.12.2004	NO Input DOC	N

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103540559	G		INMARSAT-4 143.5E	143.5	A	API/A	2870	2504	01.07.2008	5 th meeting DOC *	A
104520036	G		INMARSAT-4 143.5E	143.5	C	CR/C	1358	2684	01.07.2008	5 th meeting DOC *	N
112500010	G		INMARSAT-4 143.5E	143.5	N	PART	II-S	2725	01.07.2008	5 th meeting DOC *	N
103540561	G		INMARSAT-4 25E	25	A	API/A	2872	2504	01.07.2008	5 th meeting DOC *	A
104520033	G		INMARSAT-4 25E	25	C	CR/C	1355	2684	01.07.2008	5 th meeting DOC *	N
110500192	G		INMARSAT-4 25E	25	N	PART	II-S	2723	01.07.2008	5 th meeting DOC *	N
104540442	G		INMARSAT-4 98W	-98	A	API/A	3269	2527	01.07.2008	5 th meeting DOC *	A
105520012	G		INMARSAT-4 98W	-98	C	CR/C	1530	2627	01.07.2008	5 th meeting DOC *	Y
110500194	G		INMARSAT-4 98W	-98	N	PART	II-S	2710	07.01.2009	5 th meeting DOC *	N
107540425	G		INMARSAT-4A 143.5E	143.5	A	API/A	4686	2600	24.06.2014	5 th meeting DOC *	A
107520300	G		INMARSAT-4A 143.5E	143.5	C	CR/C	2134	2649	01.05.2014	5 th meeting DOC *	Y
110540097	G		INMARSAT-4A 144W	-144	A	API/A	6136	2669	24.06.2014	NO Input DOC	A
107540427	G		INMARSAT-4A 15.5W	-15.5	A	API/A	4688	2600	24.06.2014	NO Input DOC	A
107520302	G		INMARSAT-4A 15.5W	-15.5	C	CR/C	2136	2635	01.05.2014	NO Input DOC	N
107540426	G		INMARSAT-4A 178E	178	A	API/A	4687	2600	24.06.2014	NO Input DOC	A
107520301	G		INMARSAT-4A 178E	178	C	CR/C	2135	2649	01.05.2014	NO Input DOC	N
107540423	G		INMARSAT-4A 25E	25	A	API/A	4684	2600	24.06.2014	5 th meeting DOC *	A
107520298	G		INMARSAT-4A 25E	25	C	CR/C	2132	2641	01.05.2014	5 th meeting DOC *	Y
107540428	G		INMARSAT-4A 53W	-53	A	API/A	4689	2600	24.06.2014	NO Input DOC	A
107520303	G		INMARSAT-4A 53W	-53	C	CR/C	2137	2635	01.05.2014	NO Input DOC	N
107540424	G		INMARSAT-4A 64E	64	A	API/A	4685	2600	24.06.2014	NO Input DOC	A
107520299	G		INMARSAT-4A 64E	64	C	CR/C	2133	2649	01.05.2014	NO Input DOC	N
107540429	G		INMARSAT-4A 98W	-98	A	API/A	4690	2600	24.06.2014	5 th meeting DOC *	A
107520304	G		INMARSAT-4A 98W	-98	C	CR/C	2138	2635	01.05.2014	5 th meeting DOC *	Y
106540128	G		INMARSAT-XL1	25	A	API/A	4078	2625	09.05.2013	5 th meeting DOC *	A
106520219	G		INMARSAT-XL1	25	C	CR/C	1908	2664	01.10.2013	5 th meeting DOC *	N
102540050	I	GLS	GALILEO-M-NAVSTAR	N-GSO	A	API/A	2259	2652	31.12.2006	2 nd meeting DOC *	A
103500082	I	GLS	GALILEO-M-NAVSTAR	N-GSO	N	PART	II-S	2639	03.03.2006	2 nd meeting DOC *	N
109540515	I		INTERACT-KA	9	A	API/A	5747	2650	15.06.2015	NO Input DOC	A
110520003	I		INTERACT-KA	9	C	CR/C	2550	2688	01.09.2012	NO Input DOC	N

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109540054	I		NEWSAT-1A	1	A	API/A	5539	2644	20.12.2015	NO Input DOC	A
110520097	I		NEWSAT-1A	1	C	CR/C	2619	2692	12.03.2016	NO Input DOC	N
109540055	I		NEWSAT-1B	30.8	A	API/A	5540	2644	20.12.2015	NO Input DOC	A
112540426	IND		CHANDRAYAAN-2	N-GSO	A	API/A	7529	2735	01.01.2014	NO Input DOC	A
107540729	IND		INSAT-NAV(131.5)	131.5	A	API/A	4795	2608	06.10.2014	10 th meeting DOC *	A
108520070	IND		INSAT-NAV(131.5)	131.5	C	CR/C	2204	2674	01.08.2014	10 th meeting DOC *	N
107540068	IND		INSAT-NAV(55)	55	A	API/A	4526	2592	28.09.2013	10 th meeting DOC *	A
107520285	IND		INSAT-NAV(55)	55	C	CR/C	2123	2635	27.02.2014	10 th meeting DOC *	N
112540966	IND		INSAT-NAV(93.5)	93.5	A	API/A	7965	2732	03.07.2019	NO Input DOC	A
107540527	IND		INSAT-NAV-A(132)	132	A	API/A	4719	2603	28.12.2013	10 th meeting DOC *	A
108520075	IND		INSAT-NAV-A(132)	132	C	CR/C	2198	2642	01.08.2014	10 th meeting DOC *	N
107540525	IND		INSAT-NAV-A(34)	34	A	API/A	4717	2603	28.12.2013	10 th meeting DOC *	A
108520073	IND		INSAT-NAV-A(34)	34	C	CR/C	2196	2674	01.08.2014	10 th meeting DOC *	N
107540526	IND		INSAT-NAV-A(83)	83	A	API/A	4718	2603	28.12.2013	10 th meeting DOC *	A
108520074	IND		INSAT-NAV-A(83)	83	C	CR/C	2197	2674	01.08.2014	10 th meeting DOC *	N
107540528	IND		INSAT-NAV-A-GS	N-GSO	A	API/A	4720	2684	01.08.2014	10 th meeting DOC *	A
108520024	IND		INSAT-NAV-A-GS	N-GSO	C	CR/C	2160	2674	01.08.2014	10 th meeting DOC *	N
112500274	IND		INSAT-NAV-A-GS	N-GSO	N	PART	I-S	2739	30.04.2012	10 th meeting DOC *	N
110540953	IND		INSAT-NAV-NGSA	N-GSO	A	API/A	6644	2688	30.11.2017	10 th meeting DOC *	A
112520043	IND		INSAT-NAV-NGSA	N-GSO	C	CR/C	3120	2724	30.11.2017	10 th meeting DOC *	N
111540558	IND		INSAT-NAVR(120.5)	120.5	A	API/A	7046	2705	30.06.2018	10 th meeting DOC *	A
112520046	IND		INSAT-NAVR(120.5)	120.5	C	CR/C	3124	2724	30.06.2018	10 th meeting DOC *	N
111540559	IND		INSAT-NAVR(121.5)	121.5	A	API/A	7047	2705	30.06.2018	10 th meeting DOC *	A
112520047	IND		INSAT-NAVR(121.5)	121.5	C	CR/C	3125	2724	30.06.2018	10 th meeting DOC *	N
111540560	IND		INSAT-NAVR(123.5)	123.5	A	API/A	7048	2705	30.06.2018	10 th meeting DOC *	A
112520048	IND		INSAT-NAVR(123.5)	123.5	C	CR/C	3126	2724	30.06.2018	10 th meeting DOC *	N
111540561	IND		INSAT-NAVR(124.5)	124.5	A	API/A	7049	2705	30.06.2018	NO Input DOC	A
111540562	IND		INSAT-NAVR(125.5)	125.5	A	API/A	7050	2705	30.06.2018	NO Input DOC	A
111540563	IND		INSAT-NAVR(126.5)	126.5	A	API/A	7051	2705	30.06.2018	10 th meeting DOC *	A

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112520049	IND		INSAT-NAVR(126.5)	126.5	C	CR/C	3127	2724	30.06.2018	10 th meeting DOC *	N
111540564	IND		INSAT-NAVR(127.5)	127.5	A	API/A	7052	2705	30.06.2018	10 th meeting DOC *	A
112520050	IND		INSAT-NAVR(127.5)	127.5	C	CR/C	3128	2724	30.06.2018	10 th meeting DOC *	N
111540565	IND		INSAT-NAVR(128.5)	128.5	A	API/A	7053	2705	30.06.2018	NO Input DOC	A
111540566	IND		INSAT-NAVR(129.5)	129.5	A	API/A	7054	2705	30.06.2018	10 th meeting DOC *	A
112520051	IND		INSAT-NAVR(129.5)	129.5	C	CR/C	3129	2724	30.06.2018	10 th meeting DOC *	N
111540567	IND		INSAT-NAVR(130.5)	130.5	A	API/A	7055	2705	30.06.2018	NO Input DOC	A
111540556	IND		INSAT-NAVR(32.5)	32.5	A	API/A	7044	2705	30.06.2018	10 th meeting DOC *	A
112520044	IND		INSAT-NAVR(32.5)	32.5	C	CR/C	3122	2724	30.06.2018	10 th meeting DOC *	N
111540557	IND		INSAT-NAVR(83)	83	A	API/A	7045	2705	30.06.2018	10 th meeting DOC *	A
112520045	IND		INSAT-NAVR(83)	83	C	CR/C	3123	2724	30.06.2018	10 th meeting DOC *	N
111540555	IND		INSAT-NAVR-GS	N-GSO	A	API/A	7043	2709	30.06.2018	10 th meeting DOC *	A
112520052	IND		INSAT-NAVR-GS	N-GSO	C	CR/C	3121	2724	30.06.2018	10 th meeting DOC *	N
112541059	INS		PSN-146E	146	A	API/A	8013	2734	30.12.2015	NO Input DOC	A
106540299	J		MTSAT-C-135E	135	A	API/A	4275	2578	18.10.2008	NO Input DOC	A
107520018	J		MTSAT-C-135E	135	C	CR/C	1945	2631	18.10.2008	NO Input DOC	Y
106540300	J		MTSAT-C-140E	140	A	API/A	4276	2578	18.10.2008	NO Input DOC	A
107520019	J		MTSAT-C-140E	140	C	CR/C	1946	2615	18.10.2008	NO Input DOC	Y
106540301	J		MTSAT-C-145E	145	A	API/A	4277	2578	18.10.2008	NO Input DOC	A
107520020	J		MTSAT-C-145E	145	C	CR/C	1947	2615	18.10.2008	NO Input DOC	Y
102540482	J		N-SAT-HEO2	N-GSO	A	API/A	2471	2599	01.10.2007	10 th meeting DOC *	A
104500548	J		N-SAT-HEO2	N-GSO	N	PART	II-S	2603	28.12.2007	10 th meeting DOC *	Y
112540399	J		QZSS	N-GSO	A	API/A	7594	2722	01.03.2019	10 th meeting DOC *	A
106540481	J		QZSS-1	N-GSO	A	API/A	4295	2581	31.08.2013	10 th meeting DOC *	A
107520015	J		QZSS-1	N-GSO	C	CR/C	1952	2623	31.08.2013	10 th meeting DOC *	Y
110500199	J		QZSS-1	N-GSO	N	PART	II-S	2724	31.08.2013	10 th meeting DOC *	Y
112540400	J		QZSS-GS1	90.5	A	API/A	7595	2742	01.03.2019	10 th meeting DOC *	A
112540401	J		QZSS-GS2	108	A	API/A	7596	2722	01.03.2019	10 th meeting DOC *	A
112540402	J		QZSS-GS3	123	A	API/A	7597	2742	01.03.2019	10 th meeting DOC *	A
112540403	J		QZSS-GS4	127	A	API/A	7598	2742	01.03.2019	10 th meeting DOC *	A

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112540404	J		QZSS-GS5	137	A	API/A	7599	2722	01.03.2019	10 th meeting DOC *	A
112540405	J		QZSS-GS6	146	A	API/A	7600	2722	01.03.2019	10 th meeting DOC *	A
112540406	J		QZSS-GS7	157	A	API/A	7601	2722	01.03.2019	10 th meeting DOC *	A
112540407	J		QZSS-GS8	168	A	API/A	7602	2742	01.03.2019	10 th meeting DOC *	A
109540048	LUX		LUX-G6-2-E	5	A	API/A	5535	2642	01.03.2016	7 th meeting DOC *	A
109520247	LUX		LUX-G6-2-E	5	C	CR/C	2483	2683	01.01.2014	7 th meeting DOC *	N
110540193	LUX		LUX-G7-9-E	31.5	A	API/A	6207	2673	20.04.2017	NO Input DOC	A
111540108	LUX		LUX-G7-9-E2	31.5	A	API/A	6760	2693	10.02.2018	9 th meeting DOC *	A
111520428	LUX		LUX-G7-9-E2	31.5	C	CR/C	3062	2718	10.02.2018	9 th meeting DOC *	N
107540142	NIG		NIGCOMSAT-1A	-19.2	A	API/A	4605	2596	01.10.2008	NO Input DOC	A
109520079	NIG		NIGCOMSAT-1A	-19.2	C	CR/C	2399	2667	23.02.2011	NO Input DOC	N
107540143	NIG		NIGCOMSAT-1D	22	A	API/A	4606	2596	01.10.2008	NO Input DOC	A
105540190	NIG		NIGCOMSAT-1G	42.5	A	API/A	3567	2613	01.10.2006	NO Input DOC	A
106520040	NIG		NIGCOMSAT-1G	42.5	C	CR/C	1796	2606	01.06.2008	NO Input DOC	N
108540730	NIG		NIGCOMSAT-1R	42.5	A	API/A	5429	2702	08.12.2010	NO Input DOC	A
109520005	NIG		NIGCOMSAT-1R	42.5	C	CR/C	2425	2688	23.02.2011	NO Input DOC	N
112541254	PAK		PAKSAT-MM1-38.2E	38.2	A	API/A	8119	2740	30.11.2019	NO Input DOC	A
110540214	PNG		KUMUL-1	161	A	API/A	6217	2674	28.04.2017	NO Input DOC	A
110540113	PNG		RAGGIANA-1	-59	A	API/A	6151	2680	15.02.2017	NO Input DOC	A
111540204	PNG		RAGGIANA-10	88	A	API/A	6815	2703	25.02.2018	NO Input DOC	A
111540169	PNG		RAGGIANA-11	134	A	API/A	6792	2703	25.02.2018	NO Input DOC	A
111540170	PNG		RAGGIANA-12	97.5	A	API/A	6793	2703	25.02.2018	NO Input DOC	A
111540171	PNG		RAGGIANA-13	108	A	API/A	6794	2703	25.02.2018	NO Input DOC	A
111540730	PNG		RAGGIANA-14	-63	A	API/A	7162	2706	25.02.2018	NO Input DOC	A
111540731	PNG		RAGGIANA-15	-71	A	API/A	7163	2706	25.02.2018	NO Input DOC	A
111540732	PNG		RAGGIANA-16	-79	A	API/A	7164	2706	25.02.2018	NO Input DOC	A
111540733	PNG		RAGGIANA-17	-91	A	API/A	7165	2706	25.02.2018	NO Input DOC	A
111540734	PNG		RAGGIANA-18	-117	A	API/A	7166	2706	25.02.2018	NO Input DOC	A
110540114	PNG		RAGGIANA-2	-65	A	API/A	6152	2680	15.02.2017	NO Input DOC	A
110540115	PNG		RAGGIANA-3	-75	A	API/A	6153	2680	15.02.2017	NO Input DOC	A
110540116	PNG		RAGGIANA-4	-89	A	API/A	6154	2670	15.02.2017	NO Input DOC	A
110540117	PNG		RAGGIANA-5	-97	A	API/A	6155	2680	15.02.2017	NO Input DOC	A
110540118	PNG		RAGGIANA-6	-113	A	API/A	6156	2670	15.02.2017	NO Input DOC	A

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111540167	PNG		RAGGIANA-7	37	A	API/A	6790	2703	25.02.2018	NO Input DOC	A
111540203	PNG		RAGGIANA-8	55	A	API/A	6814	2703	25.02.2018	NO Input DOC	A
111540168	PNG		RAGGIANA-9	78.5	A	API/A	6791	2695	25.02.2018	NO Input DOC	A
92540003	RUS		GLONASS-M	N-GSO	A	API/A	2264	2476	01.01.2003	4 th meeting DOC *	A
97500304	RUS		GLONASS-M	N-GSO	N	PART	II-S	2645	17.01.2009	4 th meeting DOC *	N
112540828	TUR		TURKSAT-16.5W-A	-16.5	A	API/A	7897	2729	01.01.2019	NO Input DOC	A
107540532	TUR		TURKSAT-17E-B	17.3	A	API/A	4692	2612	01.02.2010	NO Input DOC	A
112540829	TUR		TURKSAT-19W-A	-19	A	API/A	7898	2729	01.01.2019	NO Input DOC	A
112540825	TUR		TURKSAT-2.5W-A	-2.5	A	API/A	7894	2729	01.01.2019	NO Input DOC	A
111540186	TUR		TURKSAT-25E-C	25	A	API/A	6798	2696	01.02.2010	NO Input DOC	A
111540187	TUR		TURKSAT-31E-C	31	A	API/A	6799	2696	01.02.2010	NO Input DOC	A
107540536	TUR		TURKSAT-42E-B	42	A	API/A	4696	2604	01.02.2010	NO Input DOC	A
111540188	TUR		TURKSAT-42E-C	42	A	API/A	6800	2696	01.02.2010	NO Input DOC	A
110540080	TUR		TURKSAT-42E-N	42	A	API/A	6126	2668	01.01.2017	NO Input DOC	A
111540189	TUR		TURKSAT-50E-C	50	A	API/A	6801	2696	01.01.2017	NO Input DOC	A
111540190	TUR		TURKSAT-56E-C	56	A	API/A	6802	2696	01.01.2017	NO Input DOC	A
110540081	TUR		TURKSAT-73.25E-N	73.25	A	API/A	6127	2668	01.01.2017	NO Input DOC	A
107540539	TUR		TURKSAT-73.5E-B	73.5	A	API/A	4699	2604	01.02.2010	NO Input DOC	A
112540826	TUR		TURKSAT-8.5E-A	8.5	A	API/A	7895	2729	01.01.2019	NO Input DOC	A
107540531	TUR		TURKSAT-8.5E-B	8.5	A	API/A	4691	2604	01.02.2010	NO Input DOC	A
111540185	TUR		TURKSAT-8.5E-C	8.5	A	API/A	6797	2696	01.02.2010	NO Input DOC	A
110540079	TUR		TURKSAT-8.5E-N	8.5	A	API/A	6125	2668	01.01.2017	NO Input DOC	A
112540827	TUR		TURKSAT-9.5W-A	-9.5	A	API/A	7896	2729	01.01.2019	NO Input DOC	A
105540827	TUR		TURKSAT-EUX31	31	A	API/A	3928	2605	01.04.2012	NO Input DOC	A
105540829	TUR		TURKSAT-EUX42	42	A	API/A	3930	2605	01.04.2012	NO Input DOC	A
105540830	TUR		TURKSAT-EUX50	50	A	API/A	3931	2605	01.04.2012	NO Input DOC	A
101540300	USA		INTNL SPACE STATION	N-GSO	A	API/A	1804	2442	01.02.2001	NO Input DOC	A
101500582	USA		INTNL SPACE STATION	N-GSO	N	PART	II-S	2592	01.02.2001	NO Input DOC	N
100544007	USA		LM-RPS-107.3W	-107.3	A	API/A	1385	2515	01.06.2005	2 nd meeting DOC *	A
100520444	USA		LM-RPS-107.3W	-107.3	C	CR/C	770	2666	01.06.2005	2 nd meeting DOC *	Y
109500412	USA		LM-RPS-107.3W	-107.3	N	PART	II-S	2665	20.01.2006	2 nd meeting DOC *	Y
100544008	USA		LM-RPS-133W	-133	A	API/A	1386	2515	01.06.2005	2 nd meeting DOC *	A
100520445	USA		LM-RPS-133W	-133	C	CR/C	771	2666	01.06.2005	2 nd meeting DOC *	Y

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109500413	USA		LM-RPS-133W	-133	N	PART	II-S	2663	03.11.2006	2 nd meeting DOC *	Y
102540320	USA		NAVSTAR GPS-IIRF	N-GSO	A	API/A	2429	2578	26.08.2009	7 th meeting DOC *	A
103500110	USA		NAVSTAR GPS-IIRF	N-GSO	N	PART	II-S	2645	10.04.2009	7 th meeting DOC *	N
102540090	USA		NPP	N-GSO	A	API/A	2271	2576	01.09.2008	NO Input DOC	A
101544545	USA		SPACE SHUTTLE	N-GSO	A	API/A	1806	2446	01.02.2001	NO Input DOC	A
90504637	USA		SPACE SHUTTLE	N-GSO	N	PART	II-S	2608	01.02.2001	NO Input DOC	N
109540506	USA		USRSR	N-GSO	A	API/A	5741	2695	01.03.2016	7 th meeting DOC *	A
110520280	USA		USRSR	N-GSO	C	CR/C	2729	2705	01.03.2016	7 th meeting DOC *	Y

PARTIE B	PART B	PARTE B
Renseignements publiés conformément au <i>point 8 du décide</i> de la Résolution 609 (Rév.CMR-07), en tant que résultats concernant la répartition du brouillage cumulatif en application du <i>point 2 du décide</i> de la Résolution 609 (Rév.CMR-07), que ces résultats correspondent ou non à des modifications éventuelles des caractéristiques publiées de leurs systèmes ou réseaux respectifs.	Information referred to in <i>resolves 8</i> of the Resolution 609 (Rev.WRC-07), as results of any aggregate sharing determinations made in application of <i>resolves 2</i> of the Resolution 609 (Rev.WRC-07), without regard to whether such determinations result in any modifications to the published characteristics of their respective systems or networks.	Información publicada con arreglo al <i>resuelve 8</i> de la Resolución 609 (Rev.CMR-07), como resultado de cualquier decisión sobre compartición combinada tomada en aplicación del <i>resuelve 2</i> de la Resolución 609 (Rev.CMR-07), sin tener en cuenta si dichas decisiones tienen como resultado cualquier modificación en las características publicadas de sus respectivos sistemas o redes.
Ces renseignements ont été communiqués au Bureau par l'Administration japonaise le 18.09.2013 , en application des Sections 2 et 14 du mandat de la réunion de consultation organisée conformément à la Résolution 609 (Rév.CMR-07).	This information was communicated to the Bureau by the administration of Japan on 18.09.2013 , pursuant to Section 2 and Section 14 of the Resolution 609 (Rev.WRC-07) Consultation Meeting Terms of Reference.	Esta información fue comunicada a la Oficina por la Administración de Japón el 18.09.2013 con arreglo al punto 2 y al punto 14 del mandato de la reunión de consulta de la Resolución 609 (Rev.CMR-07).

B 部分	ЧАСТЬ В	الجزء B
第 609 号决议 (WRC-07 修订版) 做出决议第 8 段所列的信息, 即有关执行第 609 号决议 (WRC-07 修订版) 作出决议第 2 段的集总干扰分摊的确定结果, 不论这一确定结果是否修改其各自系统或网络的已公布特性。	Информация, о которой идет речь в п.8 раздела " <i>решает</i> " Резолюции 609 (Пересм.ВКР-07) и которая является результатом любого определения условий совместного использования суммарного допустимого уровня согласно пункту 2 раздела " <i>решает</i> " Резолюции 609 (Пересм.ВКР-07), независимо от того, достигнуты ли эти результаты путем изменения объявленных характеристик их соответствующих систем или сетей или нет.	المعلومات المشار إليها في البند 8 من منطوق القرار (Rev.WRC-07) 609 , أي نتائج ترتيبات التقاسم التراكمي التي يتم التوصل إليها تنفيذاً للبند 2 من منطوق القرار (Rev.WRC-07) 609 , بغض النظر عما إذا كانت هذه الترتيبات سيسفر عنها أي تعديلات في الخصائص المنشورة لأنظمة الإدارات المعنية وشبكاتهما.
本资料由日本主管部门根据第 609 号决议 (WRC-07, 修订版) 磋商会议职责范围第 2 节和第 14 节, 于 2013 年 09 月 18 日提交无线电通信局。	Настоящая информация направлена в Бюро администрацией Японии 18.09.2013 года в соответствии с разделом 2 и разделом 14 круга ведения консультативного собрания по Резолюции 609 (Пересм.ВКР-07).	أبلغت إدارة اليابان المكتب بهذه المعلومات في 2013.09.18 , تطبيقاً للقسمين 2 و 14 من اختصاصات الاجتماع التشاوري المنظم وفقاً للقرار 609 (Rev.WRC-07).

Report of the Tenth Resolution 609 (Rev WRC-07) Consultation Meeting to the ITU Radiocommunication Bureau

1.0 Introduction

Resolution 609 (Rev WRC-07) is titled “Protection of aeronautical radionavigation service systems from the equivalent power flux-density (epfd) produced by radionavigation satellite service networks and systems in the 1164-1215 MHz frequency band.”

The resolves: establish the aggregate protection criterion of $-121.5\text{dB(W/m}^2\text{/MHz)}$, (resolves 1), establish the basis for Consultation Meetings to achieve this objective (resolves 6); and identify the ITU-R Recommendation M.1642-2 to use to conduct the aggregate calculations (resolves 10).

This report reflects the results of the tenth Resolution 609 Consultation Meeting (CM) and is provided in accordance with the provisions of resolves 8 of Resolution 609.

2.0 Prior Consultation Meetings (CM)

2.1 First Consultation Meeting (Geneva, 2003)

The first CM, held in Geneva, Switzerland, December 8-9, 2003, agreed on Terms of Reference for the operation of future CMs. Among other things the Terms of Reference establish specific timelines for the submission of information in satisfaction of the Criteria in the Annex to Resolution 609, for the submission of technical information on individual systems and networks in an agreed format, and for the exchange of aggregate interference calculations among the participants. No aggregate sharing determination was made at the first CM.

2.2 Second Consultation Meeting (Ottawa, 2004)

At the second CM a determination of the epfd level produced by all space stations of 15 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7\text{ dB(W/m}^2\text{/MHz)}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5\text{ dB(W/m}^2\text{/MHz)}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.3 Third Consultation Meeting (Munich, 2005)

At the Third CM a determination of the epfd level produced by all space stations of 19 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7\text{ dB(W/m}^2\text{/MHz)}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5\text{ dB(W/m}^2\text{/MHz)}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.4 Fourth Consultation Meeting (Bangalore, 2006)

At the Fourth CM a determination of the epfd level produced by all space stations of 22 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7\text{ dB(W/m}^2\text{/MHz)}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5\text{ dB(W/m}^2\text{/MHz)}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.5 Fifth Consultation Meeting (Xi'an, May 2008)

At the Fifth CM a determination of the epfd level produced by all space stations of 26 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.33 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 0.83 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.6 Sixth Consultation Meeting (By correspondence, June 2009)

At the Sixth CM a determination of the epfd level produced by all space stations of 25 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.82 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 1.32 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.7 Seventh Consultation Meeting (Toulouse, June 2010)

At the Seventh CM a determination of the epfd level produced by all space stations of 25 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.58 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 1.08 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.8 Eighth Consultation Meeting (Geneva, September 2011)

At the Eighth CM a determination of the epfd level produced by all space stations of 23 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-122.64 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 1.14 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.9 Ninth Consultation Meeting (Tokyo, October 2012)

At the Ninth CM a determination of the epfd level produced by all space stations of 23 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.93 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 0.43 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS

3.0 Tenth Consultation Meeting (Los Angeles, September 2013)

In conformity with the 10 May 2013 deadline established at the Ninth CM, some administrations submitted updated or new technical characteristics for some RNSS systems and networks. The RNSS systems and networks which provided submissions to this CM in accordance with the criteria defined in the Terms of Reference are listed in Table 1 of the attachment.

Calculations of the epfd level produced by space stations of the referenced RNSS systems and networks from Table 1 were compared and agreed at the Tenth Consultation Meeting, September, 2013. The agreed calculations by the participants can be found in Table 2 along with the aggregate spectral emissions profile in Figure 1. The calculated results were determined to be below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$, but within 2 dB of that level and therefore, according to the CM Terms of Reference, the calculations were performed using data with a 1-degree latitude / longitude resolution.

4.0 Conclusion

The maximum efd of satellites associated with the referenced RNSS networks and systems in Table 1 is determined to be no greater than $-121.93 \text{ dB(W/m}^2\text{/MHz)}$, i.e. 0.43 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/m}^2\text{/MHz)}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

Attachment

1 Results of the Calculation of the Maximum RNSS Aggregate epfd per Megahertz

Within this Attachment is the description of results of calculating the maximum RNSS aggregate epfd for every one megahertz within the band 1 164 – 1 215 MHz. The methodology for the calculation of the aggregate epfd of an RNSS system, which was used, is described in ITU-R Recommendation M.1642-2, “Methodology for assessing the maximum aggregate epfd at an aeronautical radionavigation service station from all radionavigation satellite service systems operating in the 1 164-1 215 MHz band”.

2 Results of the Calculation

For the purpose of the calculation, data given by the following RNSS system providers was used:

Table 1: RNSS systems having provided characteristics to the Tenth Consultation Meeting

nr	ntc_id	Adm	twk_org	sat_name	long_nom	ntf_rsn	d_rcv	ssn_ref	ssn_no	ific_no	ntc_type
1	103500418	CHN		COMPASS-110.5E	110.5	N	31.12.2003	PART	2	2681	G
2	103500419	CHN		COMPASS-140E	140	N	31.12.2003	PART	2	2684	G
3	105520009	CHN		COMPASS-160E	160	C	07.01.2005	/C/CR	1526	2552	G
4	103500416	CHN		COMPASS-58.75E	58.75	N	31.12.2003	PART	2	2681	G
5	103500417	CHN		COMPASS-80E	80	N	31.12.2003	PART	2	2658	G
6	111520203	CHN		COMPASS-B-84E	84	A	31.05.2011	CR/C	2933	2702	G
7	111520204	CHN		COMPASS-B-144.5E	144.5	A	31.05.2011	CR/C	2934	2702	G
8	103500420	CHN		COMPASS-H ¹	N-GSO	N	31.12.2003	PART	2	2563	N
8	103500421	CHN		COMPASS-M ¹	N-GSO	N	31.12.2003	PART	2	2563	N
8	110520285	CHN		COMPASS-MEO ¹	N-GSO	C	01.10.2010	CR/C	2740	2686	N
8	112520031	CHN		COMPASS-IGSO ¹	N-GSO	C	18.01.2012	CR/C	3118	2724	N
9	100500321	F	GLS	MSATNAV-2 ²	N-GSO	N	04.10.2000	PART	2	2536	N
10	104520033	G		INMARSAT-4 25E ³	25	C	11.01.2004	CR/C	1355	2537	G
10	107520298	G		INMARSAT-4A 25E ³	25	C	25.12.2007	CR/C	2132	2635	G
10	106520219	G		INMARSAT-XL1 ³	25	C	21.11.2006	CR/C	1908	2609	G
11	104520036	G		INMARSAT-4 143.5E ³	143.5	C	11.01.2004	CR/C	1358	2537	G
11	107520300	G		INMARSAT-4A 143.5E ³	143.5	C	25.12.2007	CR/C	2134	2635	G
12	105520012	G		INMARSAT-4 98W ³	-98	C	20.01.2005	CR/C	1530	2553	G
12	107520304	G		INMARSAT-4A 98W ³	-98	C	25.12.2007	CR/C	2138	2635	G
13	108520073	IND		INSAT-NAV-A(34) ⁶	34	C	01.04.2008	CR/C	2196	2674	G
14	107520285	IND		INSAT-NAV(55)	55	C	12.12.2007	CR/C	2123	2635	G
15	108520074	IND		INSAT-NAV-A(83) ⁶	83	C	01.04.2008	CR/C	2197	2674	G
16	106520155	IND		INSAT-NAV(132) ⁶	132	C	25.09.2006	CR/C	1887	2586	G
17	108520024	IND		INSAT-NAV-A-GS ⁶	N-GSO	C	17.02.2008	CR/C	2160	2674	N
18	110540953	IND		INSAT-NAV-NGSA ⁶	N-GSO	A	08.12.2010	API/A	6644	2688	N
18	104500548	J		N-SAT-HEO2 ⁴	N-GSO	N	28.12.2004	PART	2	2603	N
19	112500018/1 10500199	J		QZSS-1 ⁴	N-GSO	N	27.01.2012	PART	2	2724	N
20	112520494	J		QZSS ⁴	N-GSO	C	28.12.2012	CR/C	3322	2743	N

nr	ntc_id	Adm	twk_org	sat_name	long_nom	ntf_rsn	d_rcv	ssn_ref	ssn_no	ific_no	ntc_type
21	112520496	J		QZSS-GS3 ⁴	123	C	28.12.2012	CR/C	3318	2743	G
22	112520497	J		QZSS-GS4 ⁴	127	C	28.12.2013	CR/C	3319	2743	G
22	97500304	RUS		GLONASS-M	N-GSO	N	21.05.2003	PART	2	2578	N
23	107500170	USA		LM-RPS-107.3W	-107.3	N	31.05.2007	PART	1	2598	G
24	107500171	USA		LM-RPS-133W	-133	N	31.05.2007	PART	1	2598	G
25	103500110	USA		NAVSTAR GPS-IIRF ⁵	N-GSO	N	02.05.2003	PART	2	2538	N
26	109520247	LUX		LUX-G6-2-E	5	C	22.10.2009	CR/C	2483	2663	G
27	111520428	LUX		LUX-G7-9-E2	31.5	C	01.12.2011	CR/C	3062	2718	G

¹ COMPASS-M, COMPASS-MEO, COMPASS-H and COMPASS-IGSO represent a single system for purposes of the Resolution 609 (Rev. WRC-07) consultation process.

² In accordance with § 5 of Terms of Reference for the Resolution 609 (Rev. WRC-07) Consultation Meetings, the following filings remain available for Galileo and shall be treated with MSATNAV-2 filing as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document: MSATNAV-3 and 4, GALILEO-NAV-2004, GALILEO-M-NAVSTAR and GALILEO-2.

³ where multiple INMARSAT filings are shown for the same orbital location, these represent a single network for the purposes of the Resolution 609 (Rev. WRC-07) consultation process.

⁴ In accordance with item 5 of the Resolution 609 (Rev. WRC-07) Consultation Meeting Terms of Reference (MOD September 2006, Bangalore), the following filings remain available for the Quasi-Zenith Satellite System (QZSS) and shall be treated with the N-SAT-HEO2 filing as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document: QZSS-1 (BR Network ID: 107520015 and 110500199, ITU Publication Reference: CR/C/1952 and Part II-S, IFIC: 2597 and 2724, respectively), QZSS (BR Network ID: 112520494, ITU Publication Reference: CR/C/3322, IFIC: 2743), QZSS-GS1 (BR Network ID: 112520495, ITU Publication Reference: CR/C/3317, IFIC: 2743) QZSS-GS2 (BR Network ID: 112540401, ITU Publication Reference: API/A/7596, IFIC: 2597) QZSS-GS3 (BR Network ID: 112520496, ITU Publication Reference: CR/C/3318, IFIC: 2743) QZSS-GS4 (BR Network ID: 112520497, ITU Publication Reference: CR/C/3319, IFIC: 2743) QZSS-GS5 (BR Network ID: 112520498, ITU Publication Reference: CR/C/3320, IFIC: 2743) QZSS-GS6 (BR Network ID: 112540405, ITU Publication Reference: API/A/7600, IFIC: 2597) QZSS-GS7 (BR Network ID: 112540406, ITU Publication Reference: API/A/7601, IFIC: 2597) QZSS-GS8 (BR Network ID: 112520499, ITU Publication Reference: CR/C/3321, IFIC: 2743).

⁵ In accordance with item 5 of the Resolution 609 (Rev. WRC-07) Consultation Meeting Terms of Reference, the following filings remain available for NAVSTAR GPS system and shall be treated with the NAVSTAR GPS-IIRF filings as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document: USRSR (BR Network ID: 109540048 and 110520280, ITU Publication Reference: API/A/5535 and CR/C/2729, IFIC: 2642 and 2685, respectively)

⁶ In accordance with item 5 of the Resolution 609 (Rev. WRC-07) Consultation Meeting Terms of Reference, INSAT-NAVR(32.5) and INSAT-NAV-A(34) shall be treated as a single planned RNSS network for purposes of performing the epfd calculations having the characteristics presented in this document. INSAT-NAV-A(83) and INSAT-NAVR(83) shall be treated as a single planned RNSS network for purposes of performing the epfd calculations having the characteristics presented in this document. INSAT-NAVR(120.5), INSAT-NAVR(121.5), INSAT-NAVR(123.5), INSAT-NAVR(126.5), INSAT-NAVR(127.5), INSAT-NAVR(129.5), INSAT-NAVR(131.5) and INSAT-

NAV-A(132) shall be treated as a single planned RNSS network for purposes of performing the epfd calculations having the characteristics presented in this document. INSAT-NAV-A-GS, INSAT-NAVR-GS and INSAT-NAVR-NGSA shall be treated as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document.

Detailed characteristics of these systems, which were used for the aggregate computation, are available on the Resolution 609 Forum page within the ITU web site (<http://www.itu.int/ITU-R/space/res609/>): see attachment 3 to the Record of Decisions from the Eighth Consultation Meeting.

Table 2 and Figure 1 give the results of the maximum aggregate epfd values per MHz, calculated using 1-degree steps in latitude/longitude based on the RNSS systems in Table 1.

Table 2: Maximum RNSS aggregate epfd values per MHz with 1° steps

Center Frequency (MHz)	Max RNSS Agg epfd (dB(W/m ² /MHz))	Center Frequency (MHz)	Max RNSS Agg epfd (dB(W/m ² /MHz))	Center Frequency (MHz)	Max RNSS Agg epfd (dB(W/m ² /MHz))	Center Frequency (MHz)	Max RNSS Agg epfd (dB(W/m ² /MHz))
1164	-139.65	1177	-122.98	1190	-135.64	1203	-125.98
1165	-143.06	1178	-123.42	1191	-134.57	1204	-124.92
1166	-151.89	1179	-124.28	1192	-134.56	1205	-124.51
1167	-144.16	1180	-124.70	1193	-135.43	1206	-123.49
1168	-137.14	1181	-125.87	1194	-136.60	1207	-121.93
1169	-132.85	1182	-127.66	1195	-139.42	1208	-123.16
1170	-129.38	1183	-130.11	1196	-143.15	1209	-125.02
1171	-126.87	1184	-132.94	1197	-147.88	1210	-125.55
1172	-126.09	1185	-137.39	1198	-140.49	1211	-126.70
1173	-124.76	1186	-144.70	1199	-135.74	1212	-127.94
1174	-124.13	1187	-150.41	1200	-131.84	1213	-129.83
1175	-123.26	1188	-141.46	1201	-129.27	1214	-132.13
1176	-121.93	1189	-137.89	1202	-127.27	1215	-135.54

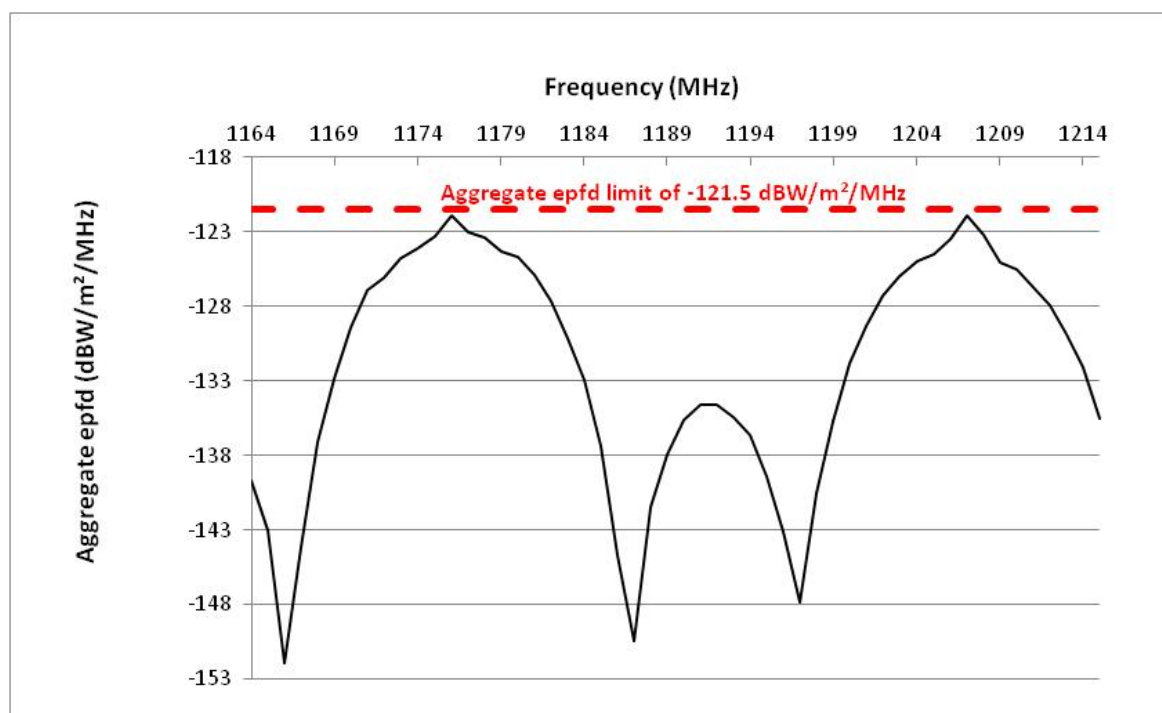


Figure 1: Plot of Table 2 (Maximum RNSS Aggregate epfd per MHz with 1° steps)