Suruhanjaya Komunikasi dan Multimedia Malaysia
Malaysian Communications and Multimedia Commission
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Selangor Darul Ehsan
MALAYSIA

Our Ref.: SKMM (T)03-ISC/150.003/Jld.01 (009)

30 April 2021

Mr. Nick Sinanis
Head Validation Group
Radiocommunication Bureau
International Telecommunication Union
Place des Nations
CH-1211 Geneva 20
Switzerland

Dear Sir,

SUBMISSION OF INFORMATION FOR MEASAT-1C (91.5E) SATELLITE NETWORK TO BE TAKEN INTO ACCOUNT AT THE 18th RESOLUTION 609 (REV.WRC-07) CONSULTATION MEETING

In accordance with the Terms of Reference 11 b) and c) adopted by Resolution 609 (Rev.WRC-07), the Administration of Malaysia would like to provide required information for MEASAT-1C (91.5E) satellite network to the participating administrations in the Resolution 609 process, and those included in the most recent BR list of all the Article 9/11 filings for RNSS frequency assignments in the 1164-1215 MHz frequency band.

2. The Administration of Malaysia would like to inform that further to the information provided during the 17th Resolution 609 Consultation Meeting, the system information in Attachment I of the Record of Decisions has been updated. The launch of the MEASAT-3d satellite to be located at 91.5E containing a navigation payload with the frequencies included in MEASAT-1C (91.5E) satellite network is anticipated to take place within 18 months of the 18th Resolution 609 Consultation Meeting.

3. The system information of MEASAT-1C (91.5E) satellite network in the **Attachment I** of this letter will be provided through the RES-609 SharePoint prior to 8th May 2021 deadline.

4. The Administration of Malaysia kindly request the MEASAT-1C (91.5E) satellite network be included and considered in the 18th Resolution 609 consultation process.

Your kind attention on the above matter is highly appreciated.

Thank you.

Yours sincerely,

SYED KHAIRULAZRIN SYED KHAIRULDIN
Head
Spectrum Planning Division
On behalf of the Chairman

Copy:

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ATTACHMENT I

List of RNSS system characteristics to be provided to the Consultation Meeting per Item 11 c) of the Terms of Reference

I RNSS systems characteristics

I-1 RNSS ITU publication reference

RNSS network name	BR network ID	ITU publication reference	IFIC
MEASAT-1C	119520055	CR/C 4974	2900
MEASAT-1C	120500262	PART I-S	2941

I-2 Non-GSO satellite system constellation parameters

N/A

I-3 GSO satellites

I-3A GSO satellite system longitude

Longitude (deg)	Network name
91.5E	MEASAT-1C

I-3B GSO satellite system brought into use status

It is anticipated to bring into use the satellite frequency assignments in the 1164-1215 MHz band for the GSO network within 18 months after the start of the tentatively-scheduled Consultation Meeting.

I-4 Maximum circular orbit non-GSO space station (with non-steerable beams) pfd versus the elevation angle at 40,000 feet above the Earth's surface (worst 1 MHz)

N/A

I-5 GSO space station maximum pfd versus latitude and longitude at 40,000 feet above the Earth's surface (worst 1 MHz)

Values for 1° lat/long spacing are included in the spreadsheet below.

Measat-1C PFD
18th-CM.xlsx

I-6 Maximum off-axis EIRP density for non-GSO space stations with steerable beams, and antenna pointing information (worst 1MHz)

N/A

I-7 Frequency/Satellite Matrix

N/A

I-8 GSO/non-GSO satellite network spectrum

The level of spectrum emission in each 1 MHz relative to the spectrum value at the worst 1 MHz of the whole band (1 164-1 215 MHz) is provided below as the Spectral Adjustment Factor (SAF) in dB.

Normalized Signal Power Spectrum

Center Frequency (MHz)	SAF (dB)	Center Frequency (MHz)	SAF (dB)	Center Frequency (MHz)	SAF (dB)	Center Frequency (MHz)	SAF (dB)
1164	-17	1177	-0,1	1190	-13	1203	-27,8
1165	-21,6	1178	-0,5	1191	-15	1204	-28,8
1166	-28,68	1179	-1,1	1192	-16,9	1205	-33,2
1167	-17	1180	-2	1193	-19,4	1206	-37,8
1168	-12,8	1181	-3,5	1194	-20,4	1207	-49,4
1169	-8,8	1182	-5,35	1195	-25	1208	-41,8
1170	-6,1	1183	-7,8	1196	-28,83	1209	-37,8
1171	-4	1184	-11,3	1197	-33,5	1210	-35
1172	-2	1185	-16,1	1198	-29,05	1211	-35,2
1173	-1,4	1186	-23,3	1199	-26,67	1212	-35
1174	-0,7	1187	-23	1200	-25,28	1213	-37
1175	-0,16	1188	-17	1201	-23,02	1214	-37,6
1176	0	1189	-15	1202	-25,6	1215	-41,6

I-9 Results of the epfd calculation for an individual system in the worst 1 MHz of the 1 164-1 215 MHz band

Values for 1° lat/long spacing are included in the spreadsheet below.



Measat-1C EPFD 18th-CM.xlsx

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