

E TSUM Requested by: STEVE		Date: 30.11.2020 4:45:17 PM		DB: ATHENA API MOD_V9.MDB		Plan Id.:		Notice type: NONGEO		
M	A1a Sat. Network ATHENA		A1f1 Notif. adm. USA		A1f3 Inter. sat. org.		BR1 Date of receipt 30.11.2019		BR20 BR IFIC no.	
BR6a/BR6b Id. no.		1 119545162		BR3a Provision reference 9.1/IA		BR2 Adm. serial no.				

Résumé / Summary / Resumen

Article 9, sous-section IA / Article 9, sub-section IA / Artículo 9, sub-sección IA
第9条第1A分节 / Статья 9, подраздел IA / المادة 9، القسم الفرعي IA

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	BR47 Frequency band (MHz)		C4a Class of station
SUP	R	M	1	A	2081.25	– 2082.75	ED, EK
			6	A	2081.25	– 2082.75	ED, EK
XDOWN	E	M	2	A	8494.75	– 8497.75	EK, ER
			7	A	8494.75	– 8497.75	EK, ER

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BR6a/BR6b Id. no. 1 119545162			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.			SUP R	

A1f2 Submitted on behalf

A1g Short Mission Duration Res 32 N

A4b1 No. of orbital planes 1 A4b2 Ref. body T BR43 Orbital configuration

A4b1a Constellation N A4b1b Configuration type A4b1c Number of sub-sets mutually exclusive A4b1d Attachment no.

A4b3a No. of space stations simult. trans. on Northern Hemisphere A4b3b No. of space stations simult. trans. on Southern Hemisphere

Orbital plane id. no.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4e Perigee	A4b4f Min. altitude	A4b4i Arg. of perigee	A4b4j Long. asc. node	A4b4m,n,o Sun synchronous		
									Y/N	Node reference time	Node local time
1	97.4	1	0-01:35	500e0	500e0	500e0		0	Y		

Orbital plane no.	Satellite no.	A4b4h Initial phase angle	A4b4k Date	A4b4l Time	B4a Orbit link / List of beams
1	1	0			

M	B1a/BR17 Beam designation	SUP	B1b Steerable	B2 Emi-Rcp R	B3a1 Max. co-polar gain	6.8
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B2a1 Transmit only when visible from notified service area B2a2 Min. Elev. Angle

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
					4

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

A	BR7a/BR7b Group id.	1	BR1 Date of receipt	30.11.2019	C2c RR No. 4.4
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BR14 Special Section

C4a Class of station ED EK C3a Assigned freq. band

C5a Noise temperature 725

C4b Nature of service OT OT C6a Polarization type CR

C6b Polarization angle

C11a2 Service area HWA C11a3 Service area diagram

A2b Period of valid. 20 A3a Op. agency 023 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit	C1b Upper limit		
2081.25 MHz	2082.75 MHz		

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f2 E.i.r.p. on the beam axis
1 1M50G7W--	23	-38.8	1		-60.8		7		

C7b Carrier frequency of the emissions (1M50G7W--)											
2082	MHz										

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BR6a/BR6b Id. no.		1 119545162	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		SUP	R

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.			C10d3 Max. iso. gain	C10d4 Bmwidth						
NEELAHU	S	155W39 47	19N00 50	HWA	1	TD	OT	45.9	0.76						
					2	TK	OT								

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NEELAHU	REC-465-5						

13C Remarks

A	BR7a/BR7b Group id.	6	BR1 Date of receipt	30.11.2019	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station

ED	EK
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C3a Assigned freq. band

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C5a Noise temperature

725

C4b Nature of service

OT	OT
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C6a Polarization type

CR

C6b Polarization angle

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C11a2 Service area

ALS

C11a3 Service area diagram

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A2b Period of valid.

20

A3a Op. agency

023

A3b Adm. resp.

A

BR16 Value of type C8b

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BR96 Start date for 9.1/9.1A

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BR60 Regulatory deadline(s)

11.44/11.44.1

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C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
2081.25	MHz	2082.75	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.	C8f2 E.i.r.p. on the beam axis
1 1M50G7W--	23	-38.8	1		-60.8		7		

C7b Carrier frequency of the emissions (1M50G7W--)															
2082	MHz														

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.			C10d3 Max. iso. gain	C10d4 Bmwidth						
NORTHPOLE	S	147W30 01	64N48 15	ALS	1	TD	OT	45.9	0.76						
					2	TK	OT								

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NORTHPOLE	REC-465-5						

13C Remarks

M	B1a/BR17 Beam designation	XDOWN	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	5.5
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B2a1 Transmit only when visible from notified service area

Y

B2a2 Min. Elev. Angle

5

B3c1 Co-polar antenna pattern							
Co-polar ref. pattern	Coef. A	Coef. B					Co-polar rad. diag.
							7

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BR6a/BR6b Id. no.		1 119545162	BR3a Provision reference		9.1/IA	BR20 BR IFIC no.	
			BR2 Adm. serial no.			XDOWN	E

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

A	BR7a/BR7b Group id.	2	BR1 Date of receipt	30.11.2019	C2c RR No. 4.4	Y
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BR14 Special Section

C4a Class of station EK ER C3a Assigned freq. band

C4b Nature of service OT OT C6a Polarization type CR C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area HWA C11a3 Service area diagram

A2b Period of valid. 20 A3a Op. agency 023 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
8494.75	MHz	8497.75	MHz

C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2	C8f1
Design. of emission	Max. peak pwr	Max. pwr dens.	Min. peak pwr	Attch.	Min. pwr dens.	Attch.	C/N ratio	Attch.	E.i.r.p. on the beam axis
1 2M30G7W--	-1.8	-65.4	-11.8		-75.4		7		

C7b Carrier frequency of the emissions (2M30G7W--)											
8496.25	MHz										

C10b1	C10b2	C10c1		C10c2	C10d1/C10d2			C10d3	C10d4	C10d6	
Assoc. earth station id.	Type	Geographical coord.		Ctry	Cls. / Nat.			Max. iso. gain	Bmwidth	Noise temp.	
NEELAHU	S	155W39 47	19N00 50	HWA	1	TR	OT	58.1	0.19	150	
					2	TK	OT				

C10d5a Co-polar antenna pattern							
C10b1	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
NEELAHU	REC-465-5						

13C Remarks

A	BR7a/BR7b Group id.	7	BR1 Date of receipt	30.11.2019	C2c RR No. 4.4	Y
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BR14 Special Section

C4a Class of station EK ER C3a Assigned freq. band

C4b Nature of service OT OT C6a Polarization type CR C6b Polarization angle

C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

C11a2 Service area ALS C11a3 Service area diagram

A2b Period of valid. 20 A3a Op. agency 023 A3b Adm. resp. A BR16 Value of type C8b

BR96 Start date for 9.1/9.1A

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BR6a/BR6b Id. no.		1 119545162	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.	
						XDOWN	E

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		C1b Upper limit	
8494.75	MHz	8497.75	MHz

C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.	C8f1 E.i.r.p. on the beam axis
1 2M30G7W--	-1.8	-65.4	-11.8		-75.4		7		

C7b Carrier frequency of the emissions (2M30G7W--)											
8496.25	MHz										

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.			C10d3 Max. iso. gain	C10d4 Bmwidth	C10d6 Noise temp.		
NORTHPOLE	S	147W30 01	64N48 15	ALS	1	TR	OT	58.1	0.19	150		
					2	TK	OT					

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
NORTHPOLE	REC-465-5					

13C Remarks

C9 Modulation characteristics	C7a Designation of emission 2M30G7W--
C9a1 Type of modulation	BPSK
C9a2a Lowest frequency	
C9a2b Highest frequency	
C9a2c Frequency deviation	
C9a3a Freq. deviation of the pre-emphasized signal	
C9a3b Pre-emphasis characteristics	
C9a3c Type of multiplexing	
C9a4a Bit rate	
C9a4b Number of phases	
C9a5a Modulating signal attached (see atch. no.)	
C9a5b Amplitude modulation	
C9a6a Peak-to-peak freq. dev.	
C9a6b Sweep frequency	
C9a6c Energy dispersal waveform	
C9a7 Type of energy dispersal	
C9a8 Other types of modulation (see atch. no.)	
C9a9 TV standard	
BR7a Group id.	2, 7

BR22 Administration remarks	
BR23 Radiocommunication Bureau comments	