

E_TSUM Requested by: RICHARD.		Date: 21.03.2019 1:14:43 PM		DB: SPACECAP_V8_TYVAK-0129_~		Plan Id.:		Notice type: NONGEO		
A	A1a Sat. Network TYVAK-0129		A1f1 Notif. adm. USA		A1f3 Inter. sat. org.		BR1 Date of receipt 11.12.2018		BR20 BR IFIC no.	
BR6a/BR6b Id. no.		4		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
RXUHF	R		8		401.1906 - 401.2194	EW
SBANDTX	E		10		2233.6 - 2236.4	ET
TXUHF	E		9		400.7256 - 400.7544	ET

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BR6a/BR6b Id. no.		4	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		RXUHF	R

A1f2 Submitted on behalf

A4b1 No. of orbital planes 1 A4b2 Ref. body T BR43 Orbital configuration 0

A4b3a No. of space stations simult. trans. on Northern Hemisphere 1 A4b3b No. of space stations simult. trans. on Southern Hemisphere 1

Orbital plane id. no.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4e Perigee	A4b4f Min. altitude
1	98	1	0-01:35	500e0	500e0	500e0

Orbital plane no.	Satellite no.
1	1

☐	B1a/BR17 Beam designation	RXUHF	B1b Steerable		B2 Emi-Rcp	R	B3a1 Max. co-polar gain	0
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B2bis.a Transmit only when visible from notified service area B2bis.b Min. Elev. Angle

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
					2

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

☐	BR7a/BR7b Group id.	8	BR1 Date of receipt	11.12.2018	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station EW C3a Assigned freq. band

C5a Noise temperature 303

C4b Nature of service CR C6a Polarization type CR

C6b Polarization angle

C11a2 Service area	ALS	BVT	GUM	HWA	HWL	I	JAR	JON
	MDW	MRA	NOR	PLM	PTR	SMA	USA	VIR
	WAK							

C11a3 Service area diagram

A2b Period of valid. 2 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit	C1b Upper limit		
401.1906 MHz	401.2194 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 28K8G1D--	22.6	-19.6	13		-29.2			85	1

C7b Carrier frequency of the emissions (28K8G1D--)											
401.205	MHz										

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth						
ORBEX1	T			1 TW CR	20.2	40						

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BR6a/BR6b Id. no.		4	BR3a Provision reference		9.1/IA		BR2 Adm. serial no.		RXUHF R

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
ORBEX1						
						1

13C Remarks

B1a/BR17 Beam designation	SBANDTX	B1b Steerable		B2 Emi-Rcp	E	B3a1 Max. co-polar gain	5
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B2bis.a Transmit only when visible from notified service area

Y

B2bis.b Min. Elev. Angle

0

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

List of orbital planes

ALL

B4a3a1 Angle alpha

B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.	10	BR1 Date of receipt	11.12.2018	C2c RR No. 4.4	
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BR14 Special Section

C4a Class of station

ET

C3a Assigned freq. band

C4b Nature of service

CR

C6a Polarization type

CR

C6b Polarization angle

C8d1 Max. tot. peak pwr.

C8d2 Contiguous bandwidth

C11a2 Service area

XAA

C11a3 Service area diagram

A2b Period of valid.

2

A3a Op. agency

560

A3b Adm. resp.

A

BR16 Value of type C8b

BR60 Regulatory deadline(s) 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit	C1b Upper limit		
2233.6	MHz	2236.4	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.	C8f1 E.i.r.p. on the beam axis
1 2M80G1D--	3	-58	-3		-64		80		3

C7b Carrier frequency of the emissions (2M80G1D--)											
2235	MHz										

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth	C10d6 Noise temp.
ORBOPEX	T			1 TT CR	40	1.6	150

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
ORBOPEX	REC-580-6					

13C Remarks

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BR6a/BR6b Id. no. 4			BR3a Provision reference 9.1/IA			BR2 Adm. serial no.			TXUHF E	

B1a/BR17 Beam designation TXUHF		B1b Steerable		B2 Emi-Rcp E		B3a1 Max. co-polar gain 0	
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B2bis.a Transmit only when visible from notified service area ☐ Y B2bis.b Min. Elev. Angle ☐ 0

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						2

List of orbital planes
1

B4a3a1 Angle alpha ☐ B4a3a2 Angle beta ☐

BR92 Attach. for missing angle alpha/beta ☐

BR7a/BR7b Group id. 9 BR1 Date of receipt 11.12.2018 C2c RR No. 4.4 ☐

BR14 Special Section ☐

C4a Class of station ET C3a Assigned freq. band ☐

C4b Nature of service CR C6a Polarization type CR

C6b Polarization angle ☐

C8d1 Max. tot. peak pwr. ☐ C8d2 Contiguous bandwidth ☐

C11a2 Service area	ALS	BVT	GUM	HWA	HWL	I	JAR	JON
	MDW	MRA	NOR	PLM	PTR	SMA	USA	VIR
	WAK							

C11a3 Service area diagram ☐

A2b Period of valid. 2 A3a Op. agency 560 A3b Adm. resp. A BR16 Value of type C8b ☐

BR60 Regulatory deadline(s) 11.44/11.44.1 ☐

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
400.7256 MHz	400.7544 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 28K8G1D--	3	-41.6	0.5		-47.6		57		1

C7b Carrier frequency of the emissions (28K8G1D--)
400.74 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.		
ORBEX1	T			1 TT CR	20.2	40	303		

C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1
ORBEX1						1

13C Remarks ☐

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BR6a/BR6b Id. no.		4	BR3a Provision reference		9.1/IA	BR2 Adm. serial no.	
						TXUHF	E

C9 Modulation characteristics	C7a Designation of emission 28K8G1D--
C9a1 Type of modulation	
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 attch. 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 attch. no.)	
C9a9 TV standard	
BR7a Group id.	8, 9

C9 Modulation characteristics	C7a Designation of emission 2M80G1D--
C9a1 Type of modulation	
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 attch. 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 attch. no.)	
C9a9 TV standard	
BR7a Group id.	10

BR22 Administration remarks

BR23 Radiocommunication Bureau comments