

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.	
BR6a/BR6b Id. no.		4	BR3a Provision reference		9.1/IA	BR1 Date of receipt
						11.12.2018
						BR20 BR IFIC no.
						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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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. 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

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

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 Bmwidth					
ORBEX1	T			1 TW CR	20.2	40					

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 A 1A1 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. 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	Co-polar rad. diag.
ORBEX1							1

13C Remarks

B1a/BR17 Beam designation SBANDTX B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain 5

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

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 Attach.	C8c3 Min. pwr dens.	C8c4 Attach.	C8e1 C/N ratio	C8e2 Attach.	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	Co-polar rad. diag.
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

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
 C8d1 Max. tot. peak pwr. C8d2 Contiguous bandwidth

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
400.7256 MHz	400.7544 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 28K8G1D--	3	-41.6	0.5		-47.6		57		1

C7b Carrier frequency of the emissions (28K8G1D--)
400.74 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.
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	Co-polar rad. diag.
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	