E_TSUM Requested by: RICKY	Date: 11.12.2018 5:21:16 PM	DB: SPACECAP_V8.MDB	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	0-01:36	500e0	500e0	500e0

B1a/BR17 Beam designation: RXUHF *B1b* Steerable: *B2* Emi-Rcp: R *B3a1* Max. co-polar gain: 2

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
1

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* Bmwdth						
ORBEX1	T				1	TW	CR	16.8	40						

	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

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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

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

1

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* 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	Co-polar rad. diag.
ORBOPEX	REC-580-6						

13C Remarks:

B1a/BR17 Beam designation: TXUHF *B1b* Steerable: *B2* Emi-Rcp: E *B3a1* Max. co-polar gain: 2

B2bis.a Transmit only when visible from notified service area: Y *B2bis.b* Min. Elev. Angle: 0

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

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 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	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* Bmwdth	*C10d6* Noise temp.		
	ORBEX1	T				1	TT	CR	16.8	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