E_TSUM Requested by: THOMASSA	Date: 18.01.2024 9:58:40 PM	DB: APEX ARIES 1 - ITU API ~	Plan Id.:	Notice type: NONGEO

A	*A1a* Sat. Network: APEX ARIES 1	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 21.09.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1	*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)	BR62 Expiry date for bringing into use	C4a Class of station
SUA	R		6		2025 - 2110		ET
SUB	R		7		2025 - 2110		ET
SDA	E		4		2200 - 2290		ET
SDB	E		5		2200 - 2290		ET
UDA	E		1		400.15 - 401		ET
			12		401 - 402		ET
UDB	E		2		400.15 - 401		ET
			13		401 - 402		ET

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: SUA R

A1f2 Submitted on behalf: USA

A1g Short Mission Duration Res 32: N

A4b1 No. of orbital planes: 1 *A4b2* Ref. body: T *BR99* Total number of satellites: 1

A4b1a Constellation: N *A4b1b* Configuration type: *A4b1c* Number of sub-sets mutually exclusive:

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

Action code	*Orbital plane id. no.*	*A4b1d Orbit set id.*	*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	*Reference node*	*Node local time*
	1		97.5	1	0-01:35	5.25e2	5.25e2	5.25e2			Y	D	13:00:00

Les renseignements figurant dans le tableau «PHASE» (éléments A.4.b.4.j, A.4.b.4.h et A.4.b.4.l de l'Appendice 4) ne sont pas inclus dans le présent fichier et peuvent être consultés directement dans la base de données mdb, si besoin est.	Information from the "PHASE" table (A.4.b.4.j, A.4.b.4.h and A.4.b.4.l of Appendix 4) is not included in this file and may be consulted directly from the mdb database if needed.	En este archivo no se incluye información del Cuadro «FASE» (A.4.b.4.j, A.4.b.4.h y A.4.b.4.l del Apéndice 4) que, en caso necesario, puede consultarse directamente en la base de datos mdb.

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

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

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.: 6 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band: *C5a* Noise temperature: 579

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

C11a2 Service area: XAA *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

BR62 Expiry date for bringing into use 11.44/11.44.1:

C1 Frequency Range

C1a Lower limit		*C1b* Upper limit	
2025	MHz	2110	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	168KG1D--	20	-32.3	20		-32.3		42.1		

C7b Carrier frequency of the emissions (168KG1D--)

2049	MHz																		

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: SUA R

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth
BODEN	T				1	TT	OT	39	1.5
PRETORIA	T				1	TT	OT	39	1.5

	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.
BODEN	REC-465-5						
PRETORIA	REC-465-5						

13C Remarks:

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

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

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.: 7 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band: *C5a* Noise temperature: 579

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

C11a2 Service area: XAA *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

BR62 Expiry date for bringing into use: 11.44/11.44.1:

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
2025	MHz	2110	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 1M00G1D--	16	-44	16		-44		42.1		0

C7b Carrier frequency of the emissions (1M00G1D--)																			
2049	MHz																		

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth
PETERBOROUGH	T				1	TT	OT	35	2.67
NANGETTY	T				1	TT	OT	35	2.67
ABSHERON	T				1	TT	OT	35	2.67
BLONDUOS	T				1	TT	OT	35	2.67

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: SUB R

KANDY	T				1	TT	OT	35	2.67						
AWARUA	T				1	TT	OT	35	2.67						
SANTA MARIA	T				1	TT	OT	35	2.67						
UNST	T				1	TT	OT	35	2.67						
PLANA	T				1	TT	OT	35.8	2.2						
PUERTOLLANO	T				1	TT	OT	34.3	3.2						
VIMERCATE	T				1	TT	OT	34.3	3.2						
AUSTRALIA	T				1	TT	OT	16	32						
BAHRAIN	T				1	TT	OT	16	32						
IRELAND	T				1	TT	OT	16	32						

	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.
PETERBOROUGH	REC-465-5						
NANGETTY	REC-465-5						
ABSHERON	REC-465-5						
BLONDUOS	REC-465-5						
KANDY	REC-465-5						
AWARUA	REC-465-5						
SANTA MARIA	REC-465-5						
UNST	REC-465-5						
PLANA	REC-465-5						
PUERTOLLANO	REC-465-5						
VIMERCATE	REC-465-5						
AUSTRALIA	REC-465-5						
BAHRAIN	REC-465-5						
IRELAND	REC-465-5						

13C Remarks:

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

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

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.: 4 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band:

C4b Nature of service: OT *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.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A | *A1a* Sat. Network: APEX ARIES 1 | *A1f1* Notif. adm.: USA | *A1f3* Inter. sat. org.: | *BR1* Date of receipt: 21.09.2023 | *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 | *BR3a* Provision reference: 9.1/IA | *BR2* Adm. serial no.: | SDA | E

BR62 Expiry date for bringing into use 11.44/11.44.1:

C1 Frequency Range	
C1a Lower limit	*C1b* Upper limit
2200 MHz	2290 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	168KG1D--	-8.5	-60.7	-8.5		-60.7		30.9		-4.6

C7b Carrier frequency of the emissions (168KG1D--)

2287.5 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.		
PETERBOROUGH	T				1	TT	OT	34.6	2.4	141		
NANGETTY	T				1	TT	OT	34.6	2.4	141		
ABSHERON	T				1	TT	OT	34.6	2.4	141		
BLONDUOS	T				1	TT	OT	34.6	2.4	141		
KANDY	T				1	TT	OT	34.6	2.4	141		
AWARUA	T				1	TT	OT	34.6	2.4	141		
SANTA MARIA	T				1	TT	OT	34.6	2.4	141		
UNST	T				1	TT	OT	34.6	2.4	141		
PLANA	T				1	TT	OT	35.8	2.2	135		
VIMERCATE	T				1	TT	OT	35	3.1	284		
AUSTRALIA	T				1	TT	OT	16	1.83	220		
BAHRAIN	T				1	TT	OT	16	1.83	220		
IRELAND	T				1	TT	OT	16	1.83	220		
BODEN	T				1	TT	OT	40	0.97	200		
PRETORIA	T				1	TT	OT	40	0.97	200		

	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.
PETERBOROUGH	REC-465-5						
NANGETTY	REC-465-5						
ABSHERON	REC-465-5						
BLONDUOS	REC-465-5						
KANDY	REC-465-5						
AWARUA	REC-465-5						
SANTA MARIA	REC-465-5						
UNST	REC-465-5						
PLANA	REC-465-5						
VIMERCATE	REC-465-5						
AUSTRALIA	REC-465-5						
BAHRAIN	REC-465-5						
IRELAND	REC-465-5						
BODEN	REC-465-5						
PRETORIA	REC-465-5						

13C Remarks:

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

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle:

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: SDB E

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.: 5 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band:

C4b Nature of service: OT *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.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

BR62 Expiry date for bringing into use 11.44/11.44.1:

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
2200	MHz	2290	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	1M00G1D--	-0.7	-60.7	-0.7		-60.7		30.9		4.3

C7b Carrier frequency of the emissions (1M00G1D--)																			
2287.5	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.		
	PETERBOROUGH	T				1	TT	OT	34.6	2.4	141		
	NANGETTY	T				1	TT	OT	34.6	2.4	141		
	ABSHERON	T				1	TT	OT	34.6	2.4	141		
	BLONDUOS	T				1	TT	OT	34.6	2.4	141		
	KANDY	T				1	TT	OT	34.6	2.4	141		
	AWARUA	T				1	TT	OT	34.6	2.4	141		
	SANTA MARIA	T				1	TT	OT	34.6	2.4	141		
	UNST	T				1	TT	OT	34.6	2.4	141		
	PLANA	T				1	TT	OT	35.8	2.2	135		
	VIMERCATE	T				1	TT	OT	35	3.1	284		
	BODEN	T				1	TT	OT	40	0.97	200		
	PRETORIA	T				1	TT	OT	40	0.97	200		
	AUSTRALIA	T				1	TT	OT	16	1.83	220		
	BAHRAIN	T				1	TT	OT	16	1.83	220		
	IRELAND	T				1	TT	OT	16	1.83	220		

	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.
PETERBOROUGH	REC-465-5						

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network APEX ARIES 1 *A1f1* Notif. adm. USA *A1f3* Inter. sat. org. *BR1* Date of receipt 21.09.2023 *BR20* BR IFIC no.

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

NANGETTY	REC-465-5						
ABSHERON	REC-465-5						
BLONDUOS	REC-465-5						
KANDY	REC-465-5						
AWARUA	REC-465-5						
SANTA MARIA	REC-465-5						
UNST	REC-465-5						
PLANA	REC-465-5						
VIMERCATE	REC-465-5						
BODEN	REC-465-5						
PRETORIA	REC-465-5						
AUSTRALIA	REC-465-5						
BAHRAIN	REC-465-5						
IRELAND	REC-465-5						

13C Remarks

B1a/BR17 Beam designation UDA *B1b* Steerable *B2* Emi-Rcp E *B3a1* Max. co-polar gain 0

B2a1 Transmit only when visible from notified service area Y *B2a2* Min. Elev. Angle

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. 1 *BR1* Date of receipt 21.09.2023 *C2c* RR No. 4.4

BR14 Special Section

C4a Class of station ET *C3a* Assigned freq. band

C4b Nature of service OT *C6a* Polarization type SL *C6b* Polarization angle

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

C11a2 Service area XAA *C11a3* Service area diagram

A2b Period of valid. 5 *A3a* Op. agency 999 *A3b* Adm. resp. A *BR16* Value of type C8b

BR96 Start date for 9.1/9.1A

BR62 Expiry date for bringing into use 11.44/11.44.1

C1 Frequency Range

C1a Lower limit		*C1b* Upper limit	
400.15	MHz	401	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	2K64F1D--	0.8	-33.4	0.8		-33.4		30.5		0.8

C7b Carrier frequency of the emissions (2K64F1D--)

400.5	MHz																		

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: UDA E

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.		
BODEN	T				1	TT	OT	16.2	22	290		
PRETORIA	T				1	TT	OT	16.2	22	290		
PUERTOLLANO	T				1	TT	OT	14.8	40	290		
VIMERCATE	T				1	TT	OT	14.8	40	290		
LOMAZZO	T				1	TT	OT	14.8	40	290		
UNST	T				1	TT	OT	14.8	40	290		

	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.
BODEN							1
PRETORIA							1
PUERTOLLANO							2
VIMERCATE							2
LOMAZZO							2
UNST							3

13C Remarks:

BR7a/BR7b Group id.: 12 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band:

C4b Nature of service: OT *C6a* Polarization type: L *C6b* Polarization angle: 0

C8d1 Max. tot. peak pwr.: *C8d2* Contiguous bandwidth:

C11a2 Service area: XAA *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

BR62 Expiry date for bringing into use 11.44/11.44.1:

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
401	MHz	402	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	2K64F1D--	1.2	-33	1.2		-33		30.5		0.8

C7b Carrier frequency of the emissions (2K64F1D--)																			
401.5	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.		
BODEN	T				1	TT	OT	16.2	22	200		
PRETORIA	T				1	TT	OT	16.2	22	200		
PUERTOLLANO	T				1	TT	OT	14.8	40	290		
VIMERCATE	T				1	TT	OT	14.8	40	290		
LOMAZZO	T				1	TT	OT	14.8	40	290		
UNST	T				1	TT	OT	14.8	40	290		

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network: APEX ARIES 1 *A1f1* Notif. adm.: USA *A1f3* Inter. sat. org.: *BR1* Date of receipt: 21.09.2023 *BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1 *BR3a* Provision reference: 9.1/IA *BR2* Adm. serial no.: UDA E

	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.
BODEN							1
PRETORIA							1
PUERTOLLANO							2
VIMERCATE							2
LOMAZZO							2
UNST							3

13C Remarks:

B1a/BR17 Beam designation: UDB *B1b* Steerable: *B2* Emi-Rcp: E *B3a1* Max. co-polar gain: 0

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

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.: 2 *BR1* Date of receipt: 21.09.2023 *C2c* RR No. 4.4:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band:

C4b Nature of service: OT *C6a* Polarization type: L *C6b* Polarization angle: 0

C8d1 Max. tot. peak pwr.: *C8d2* Contiguous bandwidth:

C11a2 Service area: XAA *C11a3* Service area diagram:

A2b Period of valid.: 5 *A3a* Op. agency: 999 *A3b* Adm. resp.: A *BR16* Value of type C8b:

BR96 Start date for 9.1/9.1A:

BR62 Expiry date for bringing into use: 11.44/11.44.1:

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
400.15	MHz	401	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	65K2F1D--	3	-45.1	3		-45.1		30.5		3

C7b Carrier frequency of the emissions (65K2F1D--)																			
400.5	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.		
BODEN	T				1	TT	OT	16.2	22	200		
PRETORIA	T				1	TT	OT	16.2	22	200		
PUERTOLLANO	T				1	TT	OT	14.8	40	290		
VIMERCATE	T				1	TT	OT	14.8	40	290		

E_TSUM Requested by: THOMASSA Date: 18.01.2024 9:58:40 PM DB: APEX ARIES 1 - ITU API ~ Plan Id.: Notice type: NONGEO

A *A1a* Sat. Network APEX ARIES 1 *A1f1* Notif. adm. USA *A1f3* Inter. sat. org. *BR1* Date of receipt 21.09.2023 *BR20* BR IFIC no.

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

	LOMAZZO	T				1	TT	OT	14.8	40	290		
	UNST	T				1	TT	OT	14.8	40	290		

	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.
BODEN							4
PRETORIA							4
PUERTOLLANO							5
VIMERCATE							5
LOMAZZO							5
UNST							6

13C Remarks

BR7a/BR7b Group id. 13 *BR1* Date of receipt 21.09.2023 *C2c* RR No. 4.4

BR14 Special Section

C4a Class of station ET *C3a* Assigned freq. band

C4b Nature of service OT *C6a* Polarization type L *C6b* Polarization angle 0

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

C11a2 Service area XAA *C11a3* Service area diagram

A2b Period of valid. 5 *A3a* Op. agency 999 *A3b* Adm. resp. A *BR16* Value of type C8b

BR96 Start date for 9.1/9.1A

BR62 Expiry date for bringing into use 11.44/11.44.1

C1 Frequency Range			
C1a Lower limit		*C1b* Upper limit	
401	MHz	402	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	65K2F1D--	2	-46.1	2		-46.1		30.5		3

C7b Carrier frequency of the emissions (65K2F1D--)	
401.5	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.		
	PUERTOLLANO	T				1	TT	OT	14.8	40	290		
	VIMERCATE	T				1	TT	OT	14.8	40	290		
	LOMAZZO	T				1	TT	OT	14.8	40	290		
	UNST	T				1	TT	OT	14.8	40	290		
	BODEN	T				1	TT	OT	16.2	22	200		
	PRETORIA	T				1	TT	OT	16.2	22	200		

	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.
PUERTOLLANO	APEREC028V01						
VIMERCATE	APEREC028V01						
LOMAZZO	APEREC028V01						
UNST	APEREC028V01						
BODEN	APEREC028V01						
PRETORIA	APEREC028V01						

E_TSUM Requested by: THOMASSA	Date: 18.01.2024 9:58:40 PM	DB: APEX ARIES 1 - ITU API ~	Plan Id.:	Notice type: NONGEO

A	*A1a* Sat. Network: APEX ARIES 1	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 21.09.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1	*BR3a* Provision reference: 9.1/IA	*BR2* Adm. serial no.:	UDB	E

13C Remarks:

***C9* Modulation characteristics**	***C7a* Designation of emission 168KG1D--**
C9a1 Type of modulation	
C9a2a Lowest frequency	2025
C9a2b Highest frequency	2110
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.	6

***C9* Modulation characteristics**	***C7a* Designation of emission 168KG1D--**
C9a1 Type of modulation	BPSK
C9a2a Lowest frequency	2200
C9a2b Highest frequency	2290
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.	4

E_TSUM Requested by: THOMASSA	Date: 18.01.2024 9:58:40 PM	DB: APEX ARIES 1 - ITU API ~	Plan Id.:	Notice type: NONGEO

A	*A1a* Sat. Network: APEX ARIES 1	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 21.09.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1	*BR3a* Provision reference: 9.1/IA	*BR2* Adm. serial no.:	UDB	E

***C9* Modulation characteristics**	***C7a* Designation of emission 1M00G1D--**
C9a1 Type of modulation	
C9a2a Lowest frequency	2025
C9a2b Highest frequency	2110
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.	7

***C9* Modulation characteristics**	***C7a* Designation of emission 1M00G1D--**
C9a1 Type of modulation	QPSK
C9a2a Lowest frequency	2200
C9a2b Highest frequency	2290
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.	5

E_TSUM Requested by: THOMASSA	Date: 18.01.2024 9:58:40 PM	DB: APEX ARIES 1 - ITU API ~	Plan Id.:	Notice type: NONGEO

A	*A1a* Sat. Network: APEX ARIES 1	*A1f1* Notif. adm.: USA	*A1f3* Inter. sat. org.:	*BR1* Date of receipt: 21.09.2023	*BR20* BR IFIC no.:

BR6a/BR6b Id. no.: 1	*BR3a* Provision reference: 9.1/IA	*BR2* Adm. serial no.:	UDB	E

***C9* Modulation characteristics**	***C7a* Designation of emission 2K64F1D--**
C9a1 Type of modulation	FM
C9a2a Lowest frequency	400
C9a2b Highest frequency	401
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.	1, 12

***C9* Modulation characteristics**	***C7a* Designation of emission 65K2F1D--**
C9a1 Type of modulation	FM
C9a2a Lowest frequency	400
C9a2b Highest frequency	401
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.	2, 13

BR22 Administration remarks

BR23 Radiocommunication Bureau comments