

Description of EPFD validation and results of examination

Input parameters

Mask link data

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↑	27500	30000	6 - 9 (sat IDs: All)
2	↔	17800	18400	6 - 9 (sat IDs: All)
3	↓	17800	18600	6 - 9 (sat IDs: All)
4	↑	27500	30000	10 (sat IDs: All)
5	↔	17800	18400	10 (sat IDs: All)
6	↓	17800	18600	10 (sat IDs: All)
7	↑	27500	30000	2 - 5 (sat IDs: All)
8	↔	17800	18400	2 - 5 (sat IDs: All)
9	↓	17800	18600	2 - 5 (sat IDs: All)
10	↓	19700	20200	6 - 9 (sat IDs: All)
11	↓	19700	20200	10 (sat IDs: All)
12	↓	19700	20200	2 - 5 (sat IDs: All)

Common SNS Data

Common

A.4.b.7.d.1 Exclusion zone type	A.4.b.7.d.1 Exclusion zone size, degrees
Y - topocentric angle (earth based)	4

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
8062/8062/90 507/507/97.4 8062/8062/0	Keeping	Default

Uplink

A.4.b.7.b Earth station density (1/km ²)	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
2.8182E-07	1883	1

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range

From latitude	To latitude	Number
-90	90	2

Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
RKA1R, RKA2R	R	27500	30000	5
TKA1R, TKA2R	E	17800	20200	5

Results

B1A Beam designation	B2 Emi-Rcp	BR7a Group id./ Target Group id.	GHz	Orbital planes id. no.	Mask ID	Article 22 Limit	Result	Article 22 Examination
RKA1R	R	320762511 / 120648942 320762512 / 120648943 320762513 / 120648944 320762514 / 120648945 320762515 / 120648946 320762524 / 120648965 320762525 / 120648966 320762526 / 120648967 320762527 / 120648968 320762528 / 120648969	27.5-28.6	10, 2 - 5	1, 4, 7	TABLE 22-2	Pass	Favorable
RKA1R	R	320762516 / 120648957 320762517 / 120648958 320762518 / 120648959 320762519 / 120648960 320762520 / 120648961 320762521 / 120648962 320762522 / 120648963 320762523 / 120648964 320762529 / 120648980 320762530 / 120648981	29.5-30	10, 2 - 5	1, 4, 7	TABLE 22-2	Pass	Favorable
RKA2R	R	320762531 / 120648988 320762532 / 120648989 320762533 / 120648990 320762540 / 120649003 320762541 / 120649004 320762542 / 120649005	27.5-28.6	6 - 9	1, 4, 7	TABLE 22-2	Pass	Favorable
RKA2R	R	320762534 / 120648997 320762535 / 120648998 320762536 / 120648999 320762537 / 120649000 320762538 / 120649001 320762539 / 120649002	29.5-30	6 - 9	1, 4, 7	TABLE 22-2	Pass	Favorable
TKA1R	E	320762463 / 120648855 320762464 / 120648856 320762465 / 120648857 320762466 / 120648858 320762467 / 120648859 320762481 / 120648883 320762482 / 120648884 320762483 / 120648885 320762484 / 120648886 320762485 / 120648887	17.8-18.1	10, 2 - 5	2, 3, 5, 6, 8, 9	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TKA1R	E	320762468 / 120648865 320762469 / 120648866 320762470 / 120648867 320762471 / 120648868 320762472 / 120648869 320762478 / 120648875 320762479 / 120648876 320762480 / 120648877 320762486 / 120648893 320762487 / 120648894	19.7-20.2	10, 2 - 5	10 - 12	TABLE 22-1C	Fail	Qualified favourable
TKA1R	E	320762473 / 120648870 320762474 / 120648871 320762475 / 120648872	18.1-18.6	10, 2 - 5	2, 3, 5, 6, 8, 9	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		320762476 / 120648873 320762477 / 120648874 320762488 / 120648895 320762489 / 120648896 320762490 / 120648897 320762491 / 120648898 320762492 / 120648899						
TKA2R	E	320762493 / 120648909 320762494 / 120648910 320762495 / 120648911 320762505 / 120648927 320762506 / 120648928 320762507 / 120648929	17.8-18.1	6 - 9	2, 3, 5, 6, 8, 9	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
TKA2R	E	320762496 / 120648915 320762497 / 120648916 320762498 / 120648917 320762502 / 120648921 320762503 / 120648922 320762504 / 120648923	19.7-20.2	6 - 9	10 - 12	TABLE 22-1C	Fail	Qualified favourable
TKA2R	E	320762499 / 120648918 320762500 / 120648919 320762501 / 120648920 320762508 / 120648933 320762509 / 120648934 320762510 / 120648935	18.1-18.6	6 - 9	2, 3, 5, 6, 8, 9	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

Notes:

1. Findings are promulgated as favorable when all applicable limits in Article 22 are met for given group of frequency assignments in all applicable scenarios.
2. The Result column can be either Pass or Fail (see Rec. ITU-R S.1503-2). N/A (Non Applicable) refers to the case when an applicable Article 22 limit is not examined in the current scenario.
3. Qualified Favorable is established due to continuous application of Resolution 85 (WRC-03) on request by the notifying administration.