

## 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	↑	12750	13250	All
2	↑	13750	14500	All
3	↓	10700	11700	All
4	↓	11700	12750	All
5	↔	10700	12750	All
6	↑	17300	17700	All
7	↑	27500	30000	All
8	↓	17800	18600	All
9	↓	19700	20200	All
10	↔	17800	18400	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)	5

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1280/1280/42 1290/1290/63	No keeping	Default

##### Uplink

A.4.b.7.b Earth station density (1/km <sup>2</sup> )	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
3.08642E-05	180	1

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	1

##### Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
KUTR	R	13850	14000	25
KUR	R	12750	14500	25
KAR	R	17300	30000	25
KUTD	E	12150	12250	25
KUD	E	10700	12750	25
KAD	E	17700	20200	25

### 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
KAR	R	321771378 / 121716482 321771379 / 121716483 321771380 / 121716484 321771381 / 121716485 321771382 / 121716486 321771383 / 121716487 321771384 / 121716488	17.3-17.7	1 - 44	6	TABLE 22-2	Pass	Favorable
KAR	R	321771385 / 121716489 321771386 / 121716490 321771387 / 121716491	27.5-28.6	1 - 44	7	TABLE 22-2	Pass	Favorable

		321771388 / 121716492 321771389 / 121716493 321771390 / 121716494 321771391 / 121716495						
KAR	R	321771392 / 121716510 321771393 / 121716511 321771394 / 121716512 321771395 / 121716513 321771396 / 121716514 321771397 / 121716515 321771398 / 121716516	29.5-30	1 - 44	7	TABLE 22-2	Pass	Favorable
KUR	R	321771399 / 121716435 321771400 / 121716436 321771401 / 121716437 321771402 / 121716438 321771403 / 121716439 321771404 / 121716440	12.75- 13.25	1 - 44	1	TABLE 22-2	Pass	Favorable
KUR	R	321771405 / 121716441	13.75-14	1 - 44	2	TABLE 22-2	Pass	Favorable
KUR	R	321771406 / 121716442 321771407 / 121716443 321771408 / 121716444 321771409 / 121716445 321771410 / 121716446 321771411 / 121716447	14-14.5	1 - 44	2	TABLE 22-2	Pass	Favorable
KUTR	R	321771412 / 121716448 321771413 / 121716449	13.85-14	1 - 44	2	TABLE 22-2	Pass	Favorable
KAD	E	321771325 / 121716517 321771326 / 121716518 321771327 / 121716519 321771328 / 121716520 321771329 / 121716521 321771330 / 121716522 321771331 / 121716523	17.7-18.2	1 - 44	8, 10	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD	E	321771332 / 121716524 321771333 / 121716525 321771334 / 121716526 321771335 / 121716527 321771336 / 121716528 321771337 / 121716529 321771338 / 121716530	18.2-18.6	1 - 44	8, 10	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KAD	E	321771339 / 121716545 321771340 / 121716546 321771341 / 121716547 321771342 / 121716548 321771343 / 121716549 321771344 / 121716550 321771345 / 121716551	19.7-20.2	1 - 44	9	TABLE 22-1C	Pass	Favorable
KUD	E	321771346 / 121716450 321771347 / 121716451 321771348 / 121716452 321771349 / 121716453 321771350 / 121716454 321771351 / 121716455	10.7-11.2	1 - 44	3, 5	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD	E	321771352 / 121716456 321771353 / 121716457 321771354 / 121716458 321771355 / 121716459 321771356 / 121716460 321771357 / 121716461	11.2-11.7	1 - 44	3, 5	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUD	E	321771358 / 121716462 321771359 / 121716463 321771360 / 121716464 321771361 / 121716465 321771362 / 121716466 321771363 / 121716467	11.7-12.2	1 - 44	4	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUD	E	321771364 / 121716468 321771365 / 121716469 321771366 / 121716470 321771367 / 121716471 321771368 / 121716472 321771369 / 121716473	12.2-12.7	1 - 44	4, 5	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUD	E	321771370 / 121716474 321771371 / 121716475	12.7-12.75	1 - 44	4, 5	RR 22.5C4 RR 22.5C8	Pass Pass	Favorable

		321771372 / 121716476 321771373 / 121716477 321771374 / 121716478 321771375 / 121716479				TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass	
KUTD	E	321771376 / 121716480	12.15-12.2	1 - 44	4	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUTD	E	321771377 / 121716481	12.2-12.25	1 - 44	4	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass 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.