

Description of EPFD validation and results of examination

Input parameters

Mask link data

<i>Mask Id.</i>	<i>Direction</i>	<i>Minimum frequency, MHz</i>	<i>Maximum frequency, MHz</i>	<i>Linked orbit IDs / Satellite IDs</i>
1	↑	12750	13250	All
2	↑	13750	14000	All
3	↑	14000	14500	All
4	↑	27500	30000	All
5	↔	10700	11700	All
8	↔	12500	12750	All
9	↓	10700	11700	1 - 32 (sat IDs: All)
10	↓	10700	11700	39 - 43 (sat IDs: All)
11	↓	10700	11700	33 - 38 (sat IDs: All)
12	↓	11700	12200	1 - 32 (sat IDs: All)
13	↓	11700	12200	39 - 43 (sat IDs: All)
14	↓	11700	12200	33 - 38 (sat IDs: All)
15	↓	12200	12500	1 - 32 (sat IDs: All)
16	↓	12200	12500	39 - 43 (sat IDs: All)
17	↓	12200	12500	33 - 38 (sat IDs: All)
18	↓	12500	12750	1 - 32 (sat IDs: All)
19	↓	12500	12750	39 - 43 (sat IDs: All)
20	↓	12500	12750	33 - 38 (sat IDs: All)
21	↓	19700	20200	1 - 32 (sat IDs: All)
22	↓	19700	20200	39 - 43 (sat IDs: All)
23	↓	19700	20200	33 - 38 (sat IDs: All)

Common SNS Data

<i>Common</i>	
<i>A.4.b.7.d.1</i> <i>Exclusion zone type</i>	<i>A.4.b.7.d.1</i> <i>Exclusion zone size, degrees</i>
Y - topocentric angle (earth based)	22

Orbits		
<i>Apogee/Perigee/Inclination</i>	<i>A.4.b.6.d Uses station keeping</i>	<i>A.4.b.6.e Uses specific precession</i>
1150/1150/53 1325/1325/70 1275/1275/81	No keeping	Default

Uplink		
<i>A.4.b.7.b Earth station density (1/km²)</i>	<i>A.4.b.7.c Average distance (km)</i>	<i>A.4.b.7.a number of satellites receiving simultaneously</i>
7.716E-08	3600	5

Downlink		
<i>A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range</i>		
<i>From latitude</i>	<i>To latitude</i>	<i>Number</i>
-90	90	5

Group table				
<i>Beam(s)</i>	<i>Direction</i>	<i>Minimum frequency, MHz</i>	<i>Maximum frequency, MHz</i>	<i>A.4.b.7.cbis Minimum elevation angle</i>
UB10, UB5, UB6, UB7, UB8, UB9	R	27500	28600	40
UB1, UB2, UB3, UB4	R	17300	17700	40
UB17, UB18, UB19, UB20, UB21, UB22	R	29500	30000	40
UATTC	R	13850	14000	40
UA10, UA11, UA12, UA7, UA8, UA9	R	13750	14000	40
UA1, UA2, UA3, UA4, UA5, UA6	R	12750	13250	40
UA13, UA14, UA15, UA16, UA17, UA18	R	14000	14500	40

Results

<i>B1A Beam designation</i>	<i>B2 Emi-Rcp</i>	<i>BR7a Group id./ Target Group id.</i>	<i>GHz</i>	<i>Orbital planes id. no.</i>	<i>Mask ID</i>	<i>Article 22 Limit</i>	<i>Result</i>	<i>Article 22 Examination</i>
UA1	R	319841637 / 119747946 319841638 / 119747947 319841639 / 119747948 319841640 / 119747949 319841641 / 119747950 319841642 / 119747951 319841643 / 119747952	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA10	R	319841644 / 119747991	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UA11	R	319841645 / 119747992	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UA12	R	319841646 / 119747993	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UA13	R	319841647 / 119747994 319841648 / 119747995 319841649 / 119747996 319841650 / 119747997 319841651 / 119747998 319841652 / 119747999 319841653 / 119748000	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A
UA14	R	319841654 / 119748001 319841655 / 119748002 319841656 / 119748003 319841657 / 119748004 319841658 / 119748005 319841659 / 119748006 319841660 / 119748007	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A
UA15	R	319841661 / 119748008 319841662 / 119748009 319841663 / 119748010 319841664 / 119748011	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A

		319841665 / 119748012 319841666 / 119748013 319841667 / 119748014						
UA16	R	319841668 / 119748015 319841669 / 119748016 319841670 / 119748017 319841671 / 119748018 319841672 / 119748019 319841673 / 119748020 319841674 / 119748021	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A
UA17	R	319841675 / 119748022 319841676 / 119748023 319841677 / 119748024 319841678 / 119748025 319841679 / 119748026 319841680 / 119748027 319841681 / 119748028	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A
UA18	R	319841682 / 119748029 319841683 / 119748030 319841684 / 119748031 319841685 / 119748032 319841686 / 119748033 319841687 / 119748034 319841688 / 119748035	14-14.5	1 - 43	3	TABLE 22-2	N/A	N/A
UA2	R	319841689 / 119747953 319841690 / 119747954 319841691 / 119747955 319841692 / 119747956 319841693 / 119747957 319841694 / 119747958 319841695 / 119747959	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA3	R	319841696 / 119747960 319841697 / 119747961 319841698 / 119747962 319841699 / 119747963 319841700 / 119747964 319841701 / 119747965 319841702 / 119747966	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA4	R	319841703 / 119747967 319841704 / 119747968 319841705 / 119747969 319841706 / 119747970 319841707 / 119747971 319841708 / 119747972 319841709 / 119747973	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA5	R	319841710 / 119747974 319841711 / 119747975 319841712 / 119747976 319841713 / 119747977 319841714 / 119747978 319841715 / 119747979 319841716 / 119747980	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA6	R	319841717 / 119747981 319841718 / 119747982 319841719 / 119747983 319841720 / 119747984 319841721 / 119747985 319841722 / 119747986 319841723 / 119747987	12.75- 13.25	1 - 43	1	TABLE 22-2	Pass	Favorable
UA7	R	319841724 / 119747988	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UA8	R	319841725 / 119747989	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UA9	R	319841726 / 119747990	13.75-14	1 - 43	2	TABLE 22-2	N/A	N/A
UATTC	R	319841727 / 119748037 319841728 / 119748038 319841729 / 119748039 319841730 / 119748040	13.85-14	1 - 43	2	TABLE 22-2	N/A	N/A
UB1	R	319841731 / 119747447 319841732 / 119747448 319841733 / 119747449	17.3-17.7	1 - 43		TABLE 22-2	N/A	N/A
UB10	R	319841734 / 119747494 319841735 / 119747495 319841736 / 119747496 319841737 / 119747497	27.5-28.6	1 - 43	4	TABLE 22-2	Pass	Favorable

		319841738 / 119747498 319841739 / 119747499 319841740 / 119747500						
UB17	R	319841741 / 119747543 319841742 / 119747544 319841743 / 119747545 319841744 / 119747546 319841745 / 119747547 319841746 / 119747548 319841747 / 119747549	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB18	R	319841748 / 119747550 319841749 / 119747551 319841750 / 119747552 319841751 / 119747553 319841752 / 119747554 319841753 / 119747555 319841754 / 119747556	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB19	R	319841755 / 119747561 319841756 / 119747562 319841757 / 119747563 319841758 / 119747564 319841759 / 119747565 319841760 / 119747566 319841761 / 119747567	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB2	R	319841762 / 119747450 319841763 / 119747451 319841764 / 119747452	17.3-17.7	1 - 43		TABLE 22-2	N/A	N/A
UB20	R	319841765 / 119747568 319841766 / 119747569 319841767 / 119747570 319841768 / 119747571 319841769 / 119747572 319841770 / 119747573 319841771 / 119747574	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB21	R	319841772 / 119747575 319841773 / 119747576 319841774 / 119747577 319841775 / 119747578 319841776 / 119747579 319841777 / 119747580 319841778 / 119747581	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB22	R	319841779 / 119747586 319841780 / 119747587 319841781 / 119747588 319841782 / 119747589 319841783 / 119747590 319841784 / 119747591 319841785 / 119747592	29.5-30	1 - 43	4	TABLE 22-2	Pass	Favorable
UB3	R	319841786 / 119747453 319841787 / 119747454 319841788 / 119747455	17.3-17.7	1 - 43		TABLE 22-2	N/A	N/A
UB4	R	319841789 / 119747456 319841790 / 119747457 319841791 / 119747458	17.3-17.7	1 - 43		TABLE 22-2	N/A	N/A
UB5	R	319841792 / 119747459 319841793 / 119747460 319841794 / 119747461 319841795 / 119747462 319841796 / 119747463 319841797 / 119747464 319841798 / 119747465	27.5-28.6	1 - 43	4	TABLE 22-2	Pass	Favorable
UB6	R	319841799 / 119747466 319841800 / 119747467 319841801 / 119747468 319841802 / 119747469 319841803 / 119747470 319841804 / 119747471 319841805 / 119747472	27.5-28.6	1 - 43	4	TABLE 22-2	Pass	Favorable
UB7	R	319841806 / 119747473 319841807 / 119747474 319841808 / 119747475 319841809 / 119747476 319841810 / 119747477	27.5-28.6	1 - 43	4	TABLE 22-2	Pass	Favorable

		319841811 / 119747478 319841812 / 119747479						
UB8	R	319841813 / 119747480 319841814 / 119747481 319841815 / 119747482 319841816 / 119747483 319841817 / 119747484 319841818 / 119747485 319841819 / 119747486	27.5-28.6	1 - 43	4	TABLE 22-2	Pass	Favorable
UB9	R	319841820 / 119747487 319841821 / 119747488 319841822 / 119747489 319841823 / 119747490 319841824 / 119747491 319841825 / 119747492 319841826 / 119747493	27.5-28.6	1 - 43	4	TABLE 22-2	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.