

## 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	↓	17800	18600	1 - 27 (sat IDs: All)
2	↓	17800	18600	28 - 67 (sat IDs: All)
3	↔	17800	18400	All
4	↓	19700	20200	1 - 27 (sat IDs: All)
5	↓	19700	20200	28 - 67 (sat IDs: All)
6	↑	27500	28600	All
7	↑	29500	30000	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)	0

##### Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1015/1015/99 1325/1325/50.9	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
7E-06	378	105

##### Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	105

##### Group table

Beam(s)	Direction	Minimum frequency, MHz	Maximum frequency, MHz	A.4.b.7.cbis Minimum elevation angle
KUI1, KUI2, KUP1, KUP2	R	27500	30000	30
KDI1, KDI2, KDP1, KDP2	E	17700	20200	30

### 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
KUI1	R	321768949 / 121710010 321768950 / 121710011 321768951 / 121710012 321768952 / 121710013 321768953 / 121710014	27.5-28.6	28 - 67	6	TABLE 22-2	Pass	Favorable
KUI1	R	321768954 / 121710034 321768955 / 121710035 321768956 / 121710036	27.5-28.3	28 - 67	6	TABLE 22-2	Pass	Favorable

		321768957 / 121710037 321768958 / 121710038						
KUI1	R	321768959 / 121710143 321768960 / 121710145 321768961 / 121710147 321768962 / 121710149 321768963 / 121710151 321768965 / 121710203 321768967 / 121710205 321768969 / 121710207 321768971 / 121710209 321768973 / 121710211	29.5-30	28 - 67	7	TABLE 22-2	Pass	Favorable
KUI1	R	321768964 / 121710202 321768966 / 121710204 321768968 / 121710206 321768970 / 121710208 321768972 / 121710210	28.3-29.5	28 - 67	6	TABLE 22-2	Pass	Favorable
KUI2	R	321768974 / 121710015	27.5-28.6	28 - 67	6	TABLE 22-2	Pass	Favorable
KUI2	R	321768975 / 121710039	27.5-28.3	28 - 67	6	TABLE 22-2	Pass	Favorable
KUI2	R	321768976 / 121710153 321768978 / 121710213	29.5-30	28 - 67	7	TABLE 22-2	Pass	Favorable
KUI2	R	321768977 / 121710212	28.3-29.5	28 - 67	6	TABLE 22-2	Pass	Favorable
KUP1	R	321768979 / 121710016 321768980 / 121710017 321768981 / 121710018 321768982 / 121710019 321768983 / 121710020	27.5-28.6	1 - 27	6	TABLE 22-2	Pass	Favorable
KUP1	R	321768984 / 121710040 321768985 / 121710041 321768986 / 121710042 321768987 / 121710043 321768988 / 121710044	27.5-28.3	1 - 27	6	TABLE 22-2	Pass	Favorable
KUP1	R	321768989 / 121710155 321768990 / 121710157 321768991 / 121710159 321768992 / 121710161 321768993 / 121710163 321768995 / 121710215 321768997 / 121710217 321768999 / 121710219 321769001 / 121710221 321769003 / 121710223	29.5-30	1 - 27	7	TABLE 22-2	Pass	Favorable
KUP1	R	321768994 / 121710214 321768996 / 121710216 321768998 / 121710218 321769000 / 121710220 321769002 / 121710222	28.3-29.5	1 - 27	6	TABLE 22-2	Pass	Favorable
KUP2	R	321769004 / 121710021	27.5-28.6	1 - 27	6	TABLE 22-2	Pass	Favorable
KUP2	R	321769005 / 121710045	27.5-28.3	1 - 27	6	TABLE 22-2	Pass	Favorable
KUP2	R	321769006 / 121710165 321769008 / 121710225	29.5-30	1 - 27	7	TABLE 22-2	Pass	Favorable
KUP2	R	321769007 / 121710224	28.3-29.5	1 - 27	6	TABLE 22-2	Pass	Favorable
KDI1	E	321768865 / 121710022 321768866 / 121710023 321768867 / 121710024 321768868 / 121710025 321768869 / 121710026	17.7-18.1	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDI1	E	321768870 / 121710094 321768873 / 121710098 321768876 / 121710102 321768879 / 121710106 321768882 / 121710110 321768895 / 121710286 321768896 / 121710287 321768897 / 121710288 321768898 / 121710289 321768899 / 121710290	17.8-18.1	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDI1	E	321768871 / 121710095 321768874 / 121710099 321768877 / 121710103 321768880 / 121710107 321768883 / 121710111	18.1-18.6	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		321768885 / 121710166 321768887 / 121710169 321768889 / 121710172 321768891 / 121710175 321768893 / 121710178						
KDI1	E	321768872 / 121710097 321768875 / 121710101 321768878 / 121710105 321768881 / 121710109 321768884 / 121710113 321768886 / 121710168 321768888 / 121710171 321768890 / 121710174 321768892 / 121710177 321768894 / 121710180	19.7-20.2	28 - 67	4, 5	TABLE 22-1C	Pass	Favorable
KDI2	E	321768900 / 121710027	17.7-18.1	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDI2	E	321768901 / 121710114 321768906 / 121710291	17.8-18.1	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDI2	E	321768902 / 121710115 321768904 / 121710181	18.1-18.6	28 - 67	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDI2	E	321768903 / 121710117 321768905 / 121710183	19.7-20.2	28 - 67	4, 5	TABLE 22-1C	Pass	Favorable
KDP1	E	321768907 / 121710028 321768908 / 121710029 321768909 / 121710030 321768910 / 121710031 321768911 / 121710032	17.7-18.1	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP1	E	321768912 / 121710118 321768915 / 121710122 321768918 / 121710126 321768921 / 121710130 321768924 / 121710134 321768937 / 121710292 321768938 / 121710293 321768939 / 121710294 321768940 / 121710295 321768941 / 121710296	17.8-18.1	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP1	E	321768913 / 121710119 321768916 / 121710123 321768919 / 121710127 321768922 / 121710131 321768925 / 121710135 321768927 / 121710184 321768929 / 121710187 321768931 / 121710190 321768933 / 121710193 321768935 / 121710196	18.1-18.6	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP1	E	321768914 / 121710121 321768917 / 121710125 321768920 / 121710129 321768923 / 121710133 321768926 / 121710137 321768928 / 121710186 321768930 / 121710189 321768932 / 121710192 321768934 / 121710195 321768936 / 121710198	19.7-20.2	1 - 27	4, 5	TABLE 22-1C	Pass	Favorable
KDP2	E	321768942 / 121710033	17.7-18.1	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP2	E	321768943 / 121710138 321768948 / 121710297	17.8-18.1	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP2	E	321768944 / 121710139 321768946 / 121710199	18.1-18.6	1 - 27	1 - 3	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KDP2	E	321768945 / 121710141 321768947 / 121710201	19.7-20.2	1 - 27	4, 5	TABLE 22-1C	Pass	Favorable

Notes:

- 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.