

Adjacent Channel Waiver

According to the new FCC rule 74.707 (d)(4)

Subpart G--Low Power TV, TV Translator, and TV Booster Stations

Sec. 74.707 Low power TV and TV translator station protection.

(d) A low power TV, TV translator, or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the authorized low power TV, TV translator, or TV booster station at its protected contour fails to meet the following:

(4) 15 dB when the protected low power TV or TV translator station operates on a UHF channel that is one channel above or below the requested channel.

Please find attached a study which shows the proposed signal does not exceed a ratio of desired to undesired that exceeds the required +15 db within the TV translators 74 dBu protected contour, therefore, the station complies with the FCC rule and does not cause harmful interference to BNPTTL-20000804ACE, Channel 22.

At points where HAAT are less than 30.5, 30.5 was used per FCC rule 73.684. For close in calculations (1.5 – 5 Km), the Center of Radiation Above Ground is used unless the HAAT is higher for increased accuracy.

Contour At A Bearing of 000 Degrees From Proposed Station

-TX Distance-Km	1.52	1.74	2.45	3.31	4.23	9.10	14.05
Bearing-Deg	288.55	304.35	324.06	334.27	340.16	350.91	354.14
ERP-dBk	10.73	9.50	6.27	3.67	1.98	-1.69	-1.94
HAAT-m	74.61	91.17	89.90	104.79	120.46	101.47	102.02
Field Strength	110.43	107.83	99.28	93.13	88.64	70.60	62.87
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	8.27	6.22	4.16	3.12	2.50	1.25	.83
ERP-dBk	-11.43	-5.48	.38	2.34	7.43	12.45	13.01
HAAT-m	218.12	218.12	218.12	218.12	218.12	218.12	218.12
Field Strength	91.14	93.74	94.88	93.18	95.33	89.53	83.26
Difference	-19.29	-14.09	-4.40	.05	6.69	18.93	20.39

Contour At A Bearing of 030 Degrees From Proposed Station

-TX Distance-Km	.74	.84	1.58	2.51	3.48	8.43	13.42
Bearing-Deg	292.26	328.52	2.27	12.95	17.78	24.98	26.84
ERP-dBk	10.53	5.06	-2.32	-1.89	-1.71	-1.81	-1.89
HAAT-m	76.55	92.15	97.05	72.28	65.06	68.10	70.47
Field Strength	120.04	113.52	97.73	89.42	83.44	68.34	60.52
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.27	5.46	3.65	2.74	2.19	1.10	.73
ERP-dBk	-5.00	-3.01	1.34	5.43	9.45	12.80	13.01
HAAT-m	191.32	191.32	191.32	191.32	191.32	191.32	191.32
Field Strength	97.42	95.93	95.37	95.65	96.61	88.91	82.19
Difference	-22.62	-17.59	-2.36	6.23	13.17	20.57	21.67

Contour At A Bearing of 060 Degrees From Proposed Station

-TX Distance-Km	.30	.30	1.26	2.25	3.25	8.25	13.24
Bearing-Deg	207.34	93.41	67.43	64.14	62.87	61.13	60.70
ERP-dBk	11.01	9.26	4.05	3.27	2.92	2.40	2.26
HAAT-m	72.67	82.04	46.79	48.73	49.48	50.51	50.76
Field Strength	128.35	126.78	108.99	93.49	86.95	70.30	62.01
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.04	5.29	3.53	2.65	2.12	1.06	.71
ERP-dBk	-3.69	-2.20	1.57	6.20	9.85	12.88	13.01
HAAT-m	185.27	185.27	185.27	185.27	185.27	185.27	185.27
Field Strength	98.70	96.67	95.49	96.27	96.83	88.75	81.93
Difference	-29.65	-30.11	-13.50	2.78	9.88	18.45	19.92

Contour At A Bearing of 090 Degrees From Proposed Station

-TX Distance-Km	1.02	1.16	1.86	2.76	3.71	8.62	13.60
Bearing-Deg	176.48	151.06	123.07	111.65	105.93	96.77	94.29
ERP-dBk	10.69	10.59	10.99	10.74	10.40	9.61	9.36
HAAT-m	77.37	59.27	37.37	50.78	73.77	93.55	85.04
Field Strength	117.44	116.20	102.19	97.83	95.42	82.13	73.15
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.90	5.94	3.97	2.98	2.38	1.19	.79
ERP-dBk	-10.18	-5.74	.68	2.84	8.24	12.58	13.01
HAAT-m	208.06	208.06	208.06	208.06	208.06	208.06	208.06
Field Strength	92.34	93.38	95.01	93.46	95.88	89.31	82.88
Difference	-25.10	-22.82	-7.18	-4.37	.46	7.18	9.73

Contour At A Bearing of 120 Degrees From Proposed Station

-TX Distance-Km	1.77	2.04	2.77	3.64	4.55	9.40	14.36
Bearing-Deg	184.48	171.69	155.24	146.10	140.56	129.78	126.38
ERP-dBk	10.87	10.56	10.55	10.71	10.86	11.05	11.02
HAAT-m	80.47	72.01	60.07	56.38	52.57	30.50	33.09
Field Strength	108.36	105.26	99.00	93.94	89.57	72.61	65.60
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	5.94	4.47	2.98	2.24	1.79	.90	.60
ERP-dBk	-5.77	-.09	2.81	9.18	11.10	13.01	13.01
HAAT-m	156.17	156.17	156.17	156.17	156.17	156.17	156.17
Field Strength	96.33	98.30	95.94	98.27	96.93	87.41	80.42
Difference	-12.03	-6.96	-3.06	4.33	7.36	14.80	14.82

Contour At A Bearing of 150 Degrees From Proposed Station

-TX Distance-Km	2.42	2.78	3.62	4.52	5.45	10.31	15.26
Bearing-Deg	196.53	189.04	179.01	172.84	168.76	159.78	156.58
ERP-dBk	11.08	10.95	10.76	10.59	10.51	10.51	10.54
HAAT-m	79.26	79.63	80.19	73.30	68.99	60.94	60.33
Field Strength	103.56	101.19	96.81	92.23	88.45	76.22	69.36
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	6.95	5.22	3.49	2.62	2.09	1.05	.70
ERP-dBk	-3.58	-1.90	1.66	6.49	10.00	12.91	13.01
HAAT-m	182.88	182.88	182.88	182.88	182.88	182.88	182.88
Field Strength	98.79	96.94	95.53	96.49	96.91	88.68	81.82
Difference	-4.77	-4.25	-1.28	4.26	8.46	12.46	12.46

Contour At A Bearing of 180 Degrees From Proposed Station

-TX Distance-Km	2.90	3.34	4.27	5.22	6.19	11.11	16.08
Bearing-Deg	209.73	205.48	199.69	195.99	193.44	187.44	185.13
ERP-dBk	10.97	11.04	11.13	11.07	11.03	10.92	10.88
HAAT-m	70.57	74.32	79.17	79.27	79.35	79.92	80.35
Field Strength	99.76	97.85	94.34	90.92	87.99	77.68	71.28
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.46	5.61	3.75	2.81	2.25	1.13	.75
ERP-dBk	-6.28	-3.75	1.15	4.71	9.10	12.73	13.01
HAAT-m	196.42	196.42	196.42	196.42	196.42	196.42	196.42
Field Strength	96.17	95.24	95.27	95.06	96.41	89.04	82.40
Difference	-3.59	-2.61	.93	4.14	8.42	11.36	11.12

Contour At A Bearing of 210 Degrees From Proposed Station

-TX Distance-Km	3.19	3.67	4.66	5.65	6.64	11.62	16.62
Bearing-Deg	223.37	221.56	219.10	217.50	216.38	213.65	212.57
ERP-dBk	10.69	10.74	10.80	10.83	10.85	10.90	10.92
HAAT-m	84.65	80.43	76.18	75.15	74.43	72.68	71.98
Field Strength	99.23	96.55	92.24	88.88	86.03	76.05	69.76
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.21	5.42	3.62	2.72	2.17	1.09	.73
ERP-dBk	-4.66	-2.80	1.40	5.62	9.55	12.82	13.01
HAAT-m	189.85	189.85	189.85	189.85	189.85	189.85	189.85
Field Strength	97.75	96.12	95.40	95.80	96.67	88.87	82.13
Difference	-1.48	-.43	3.16	6.92	10.64	12.82	12.37

Contour At A Bearing of 240 Degrees From Proposed Station

-TX Distance-Km	3.26	3.76	4.76	5.76	6.76	11.76	16.76
Bearing-Deg	237.15	237.53	238.05	238.39	238.63	239.22	239.46
ERP-dBk	10.51	10.51	10.51	10.51	10.51	10.51	10.51
HAAT-m	97.38	97.23	97.03	96.89	96.80	96.57	96.47
Field Strength	99.70	97.39	93.58	90.39	87.65	77.93	71.73
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.99	6.01	4.02	3.01	2.41	1.21	.80
ERP-dBk	-11.33	-6.13	.59	2.53	8.04	12.55	13.01
HAAT-m	210.60	210.60	210.60	210.60	210.60	210.60	210.60
Field Strength	91.20	93.02	94.96	93.20	95.75	89.37	82.98
Difference	-8.50	-4.37	1.38	2.81	8.10	11.44	11.25

Contour At A Bearing of 270 Degrees From Proposed Station

-TX Distance-Km	3.11	3.59	4.55	5.53	6.52	11.48	16.47
Bearing-Deg	250.90	253.52	257.09	259.41	261.02	264.92	266.46
ERP-dBk	10.63	10.70	10.80	10.86	10.89	10.96	10.99
HAAT-m	91.98	93.16	94.78	95.83	95.02	90.92	89.30
Field Strength	100.13	98.02	94.38	91.31	88.52	78.27	71.87
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.60	5.71	3.82	2.86	2.29	1.15	.76
ERP-dBk	-7.34	-4.34	1.00	4.16	8.84	12.69	13.01
HAAT-m	200.13	200.13	200.13	200.13	200.13	200.13	200.13
Field Strength	95.13	94.70	95.19	94.59	96.25	89.13	82.56
Difference	-5.00	-3.32	.81	3.28	7.73	10.86	10.69

Contour At A Bearing of 300 Degrees From Proposed Station

-TX Distance-Km	2.75	3.17	4.06	5.00	5.95	10.85	15.81
Bearing-Deg	264.42	269.69	276.81	281.33	284.41	291.52	294.20
ERP-dBk	10.95	11.05	10.99	10.93	10.85	10.59	10.39
HAAT-m	91.45	85.90	80.90	78.08	76.60	75.69	78.81
Field Strength	102.30	99.77	95.18	91.38	88.16	77.28	70.92
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	7.96	5.98	4.00	3.00	2.40	1.20	.80
ERP-dBk	-10.88	-6.05	.62	2.55	8.12	12.56	13.01
HAAT-m	209.65	209.65	209.65	209.65	209.65	209.65	209.65
Field Strength	91.64	93.08	94.98	93.21	95.80	89.35	82.94
Difference	-10.66	-6.69	-.20	1.83	7.64	12.07	12.02

Contour At A Bearing of 330 Degrees From Proposed Station

-TX Distance-Km	2.21	2.54	3.34	4.22	5.14	9.99	14.94
Bearing-Deg	277.33	286.33	298.28	305.44	310.08	319.90	323.28
ERP-dBk	10.99	10.79	10.07	9.39	8.86	7.15	6.44
HAAT-m	80.55	75.68	83.56	92.58	98.37	87.96	89.51
Field Strength	105.01	102.19	97.77	94.02	90.74	76.58	69.06
Proposed Distance-Km	1.50	2.00	3.00	4.00	5.00	10.00	15.00
Tilt (Deg)	8.33	6.26	4.19	3.14	2.51	1.26	.84
ERP-dBk	-11.43	-5.36	.34	2.30	7.30	12.43	13.01
HAAT-m	219.55	219.55	219.55	219.55	219.55	219.55	219.55
Field Strength	91.15	93.87	94.86	93.18	95.25	89.56	83.32
Difference	-13.86	-8.32	-2.91	-.84	4.51	12.98	14.26