

Engineering Statement in Support of Special Temporary Authority Request

The Special Temporary Authority request is to relocate WMWK to a common antenna that is replacing WMWK's existing antenna. WMWK currently operates with .170 kW ERP (Horizontal only) at 476 meters COR AMSL. The new antenna height will be 480 meters COR AMSL. Including the coordinate correction in order to be in accordance with ASRN 1056835, it is proposed to operate WMWK at the new height with .160 kW ERP (Circular), which will not exceed WMWK's authorized 1 mV/m contour service area in any direction, as is demonstrated in the below tabulations.

Existing

.170 kW 476 M COR AMSL 43 05 24 / 87 53 47

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	188.7	287.3	0.1700	-7.70	1.000	20.13
010	177.2	298.8	0.1700	-7.70	1.000	20.52
020	177.0	299.0	0.1700	-7.70	1.000	20.53
030	177.0	299.0	0.1700	-7.70	1.000	20.53
040	177.0	299.0	0.1700	-7.70	1.000	20.53
050	177.0	299.0	0.1700	-7.70	1.000	20.53
060	177.0	299.0	0.1700	-7.70	1.000	20.53
070	177.0	299.0	0.1700	-7.70	1.000	20.53
080	177.0	299.0	0.1700	-7.70	1.000	20.53
090	177.0	299.0	0.1700	-7.70	1.000	20.53
100	177.0	299.0	0.1700	-7.70	1.000	20.53
110	177.0	299.0	0.1700	-7.70	1.000	20.53
120	177.0	299.0	0.1700	-7.70	1.000	20.53
130	177.1	298.9	0.1700	-7.70	1.000	20.52
140	177.6	298.4	0.1700	-7.70	1.000	20.50
150	178.1	297.9	0.1700	-7.70	1.000	20.49
160	178.6	297.4	0.1700	-7.70	1.000	20.47
170	189.3	286.7	0.1700	-7.70	1.000	20.11
180	194.2	281.8	0.1700	-7.70	1.000	19.93
190	196.3	279.7	0.1700	-7.70	1.000	19.86
200	199.7	276.3	0.1700	-7.70	1.000	19.74
210	206.4	269.6	0.1700	-7.70	1.000	19.50
220	211.1	264.9	0.1700	-7.70	1.000	19.33
230	215.6	260.4	0.1700	-7.70	1.000	19.17
240	218.1	257.9	0.1700	-7.70	1.000	19.08
250	220.5	255.5	0.1700	-7.70	1.000	18.98
260	222.4	253.6	0.1700	-7.70	1.000	18.91
270	218.2	257.8	0.1700	-7.70	1.000	19.07
280	213.4	262.6	0.1700	-7.70	1.000	19.25
290	216.0	260.0	0.1700	-7.70	1.000	19.15
300	215.1	260.9	0.1700	-7.70	1.000	19.19
310	212.2	263.8	0.1700	-7.70	1.000	19.29
320	208.2	267.8	0.1700	-7.70	1.000	19.44
330	200.2	275.8	0.1700	-7.70	1.000	19.72
340	205.6	270.4	0.1700	-7.70	1.000	19.53
350	204.8	271.2	0.1700	-7.70	1.000	19.56

Proposed

.160 kW 480 M COR AMSL 43 05 26 / 87 53 50

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	189.8	290.2	0.1600	-7.96	1.000	19.93
010	177.3	302.7	0.1600	-7.96	1.000	20.35
020	177.0	303.0	0.1600	-7.96	1.000	20.36
030	177.0	303.0	0.1600	-7.96	1.000	20.36
040	177.0	303.0	0.1600	-7.96	1.000	20.36
050	177.0	303.0	0.1600	-7.96	1.000	20.36
060	177.0	303.0	0.1600	-7.96	1.000	20.36
070	177.0	303.0	0.1600	-7.96	1.000	20.36
080	177.0	303.0	0.1600	-7.96	1.000	20.36
090	177.0	303.0	0.1600	-7.96	1.000	20.36
100	177.0	303.0	0.1600	-7.96	1.000	20.36
110	177.0	303.0	0.1600	-7.96	1.000	20.36
120	177.0	303.0	0.1600	-7.96	1.000	20.36
130	177.1	302.9	0.1600	-7.96	1.000	20.36
140	177.8	302.2	0.1600	-7.96	1.000	20.33
150	178.3	301.7	0.1600	-7.96	1.000	20.32
160	178.8	301.2	0.1600	-7.96	1.000	20.30
170	189.2	290.8	0.1600	-7.96	1.000	19.95
180	194.2	285.8	0.1600	-7.96	1.000	19.78
190	196.2	283.8	0.1600	-7.96	1.000	19.71
200	200.1	279.9	0.1600	-7.96	1.000	19.57
210	206.5	273.5	0.1600	-7.96	1.000	19.35
220	211.3	268.7	0.1600	-7.96	1.000	19.18
230	216.0	264.0	0.1600	-7.96	1.000	19.01
240	218.6	261.4	0.1600	-7.96	1.000	18.91
250	220.4	259.6	0.1600	-7.96	1.000	18.85
260	222.4	257.6	0.1600	-7.96	1.000	18.77
270	218.1	261.9	0.1600	-7.96	1.000	18.93
280	213.6	266.4	0.1600	-7.96	1.000	19.09
290	216.3	263.7	0.1600	-7.96	1.000	19.00
300	215.4	264.6	0.1600	-7.96	1.000	19.03
310	212.5	267.5	0.1600	-7.96	1.000	19.13
320	208.4	271.6	0.1600	-7.96	1.000	19.28
330	200.4	279.6	0.1600	-7.96	1.000	19.56
340	205.0	275.0	0.1600	-7.96	1.000	19.40
350	205.3	274.7	0.1600	-7.96	1.000	19.39



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