

RFR Compliance

FCC Form 302-FM Section III Item 8

EXHIBIT 10

Attachment 10

Measurements were made September 20 and 21 using a NARDA Model 8520 Radio Frequency Radiation Meter, Serial 06030. Both transmitters were operated at 60% of the authorized power to prevent possible overexposure to the personnel taking the measurements, while the measurements were being made. The Radiation meter is calibrated to read directly in milliwatts per square centimeter. Measurements were made facing the antenna, and at each measurement location the detector probe was moved between ground level and two meters above ground level, with the highest level in that elevation range being recorded. Readings were recorded both with the instrument set to read the Magnetic (H) field and the Electric (E) field. Each reading was multiplied by the calibration factor given by instrument manufacturer for the mode used and then divided by 0.60 to give the reading that would have been obtained had the stations been operating at full power. The highest corrected reading for each location, for whichever mode (E or H) had the highest indication, is given in the table below. Note that for most locations where it was indicated that the "Casual Limit" would be exceeded at some elevation between zero and two meters, the spatial average from zero to two meters did not exceed the "Casual Limit." Nevertheless, areas where a reading in excess of the corrected 0.200 milliwatt per square centimeter casual limit per ANSI C95.1-1991 was obtained, "Notice" (Hutton # TLL NOTICE 12X18) signs were installed. On the tower itself "Caution" and "Warning" signs were installed to warn workmen to make arrangements to have the power reduced or emissions terminated before working at levels where the "Occupational" Limit would be exceeded.

Note that to the West and West-Northwest the elevation of the ground rises, with the result that RFR levels are higher for some distance. To the East-Northeast down the mountain ridge, levels fall off more rapidly, and in other directions the elevation and RFR levels fall off very rapidly.

Sign locations were determined by approaching the antenna from some distance while operating Radio Frequency Radiation Meter. At locations where initially the reading became high enough to indicate that the "Casual Limit" could be exceeded, the location was marked and a sign placed.

Feet from Tower	Distance from Tower	Maximum Density E or H	RF Power Density Status
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E.E.N.E. From Tower Along Ridge

		mw/cm ²				
2.5 ft.	0.8 m.	0.330	Occupational Compliance	Notice Signed Area	See Note 2	
5	1.5	0.200	Occupational Compliance	" " "	See Note 2	
7.5	2.3	0.172	Casual Compliance			
10	3.0	0.130	Casual Compliance			
15	4.6	0.260	Occupational Compliance	Notice Signed Area	See Note 2	
20	6.1	0.163	Casual Compliance			
25	7.6	0.092	Casual Compliance			
30	9.1	0.075	Casual Compliance			
35	10.7	0.097	Casual Compliance			
40	12.2	0.130	Casual Compliance			
45	13.7	0.242	Occupational Compliance	Notice Signed Area	See Note 2	
50	15.2	0.268	Occupational Compliance	Notice Signed Area	See Note 2	
55	16.8	0.176	Casual Compliance	Elevation Step		
60	18.3	0.103	Casual Compliance			
65	19.8	0.064	Casual Compliance			
70	21.3	0.044	Casual Compliance			
75	22.9	0.029	Casual Compliance			
80	24.4	0.020	Casual Compliance			
85	25.9	0.015	Casual Compliance			
90	27.4	0.018	Casual Compliance			
95	29.0	0.022	Casual Compliance			
100	30.5	0.029	Casual Compliance			
105	32.0	0.044	Casual Compliance			
110	33.5	0.062	Casual Compliance			
115	35.1	0.055	Casual Compliance			
120	36.6	0.070	Casual Compliance			
125	38.1	0.070	Casual Compliance			
130	39.6	0.097	Casual Compliance			
135	41.1	0.108	Casual Compliance			
140	42.7	0.128	Casual Compliance			
145	44.2	0.123	Casual Compliance			
150	45.7	0.132	Casual Compliance			
155	47.2	0.130	Casual Compliance			
160	48.8	0.147	Casual Compliance			
165	50.3	0.141	Casual Compliance			
170	51.8	0.121	Casual Compliance			
175	53.3	0.134	Casual Compliance			
180	54.9	0.132	Casual Compliance			
185	56.4	0.136	Casual Compliance			
190	57.9	0.132	Casual Compliance			
195	59.4	0.132	Casual Compliance			
200 ft.	61.0 m.	0.115	Casual Compliance			

North from Tower Along Ridge

Feet from Tower Location	Meters from Antenna	Maximum Density	RF Power Density Status			
2.5 ft.	0.8 m.	0.238	Occupational Compliance	Notice Signed Area	See Note 2	
5 ft.	1.5 m.	0.308	Occupational Compliance	" " "	See Note 2	
7.5 ft.	2.3 m.	0.260	Occupational Compliance	" " "	See Note 2	
10 ft.	3.0 m.	0.277	Occupational Compliance	" " "	See Note 2	
15 ft.	4.6 m.	0.257	Occupational Compliance	" " "	See Note 2	
20 ft.	6.1 m.	0.396	Occupational Compliance	21.5 ft. NOTICE sign		
25 ft.	7.6 m.	0.275	Occupational Compliance	Notice Signed Area	See Note 2	
30 ft.	9.1 m.	0.462	Occupational Compliance	" " "		
35 ft.	10.7 m.	0.418	Occupational Compliance	" " "		
40 ft.	12.2 m.	0.396	Occupational Compliance	" " "		
45 ft.	13.7 m.	0.385	Occupational Compliance	" " "		
50 ft.	15.2 m.	0.374	Occupational Compliance	" " "		
55 ft.	16.8 m.	0.264	Occupational Compliance	" " "	See Note 2	
60 ft.	18.3 m.	0.251	Occupational Compliance	" " "	See Note 2	
65 ft.	19.8 m.	0.207	Occupational Compliance	NOTICE Sign	See Note 2	

70 ft.	21.3 m.	0.163	Casual Compliance		
75 ft.	22.9 m.	0.143	Casual Compliance		
80 ft.	24.4 m.	0.110	Casual Compliance		
85 ft.	25.9 m.	0.086	Casual Compliance		
90 ft.	27.4 m.	0.077	Casual Compliance		
95 ft.	29.0 m.	0.075	Casual Compliance		
100 ft.	30.5 m.	0.092	Casual Compliance		
105 ft.	32.0 m.	0.110	Casual Compliance		
110 ft.	33.5 m.	0.147	Casual Compliance		
115 ft.	35.1 m.	0.179	Casual Compliance		
120 ft.	36.6 m.	0.211	Occupational Compliance		See Note 2
125 ft.	38.1 m.	0.253	Occupational Compliance		See Note 2
130 ft.	39.6 m.	0.242	Occupational Compliance		See Note 2
135 ft.	41.1 m.	0.299	Occupational Compliance	Elevation drop	See Note 2
140 ft.	42.7 m.	0.211	Occupational Compliance	Elevation jump	See Note 2
145 ft.	44.2 m.	0.196	Casual Compliance	Elevation drop	
150 ft.	45.7 m.	0.143	Casual Compliance	Elevation jump	
155 ft.	47.2 m.	0.112	Casual Compliance		
160 ft.	48.8 m.	0.110	Casual Compliance	Elevation drop 3 ft	
165 ft.	50.3 m.	0.131	Casual Compliance	Elevation jump 3 ft.	
170 ft.	51.8 m.	0.154	Casual Compliance		
175 ft.	53.3 m.	0.169	Casual Compliance		
180 ft.	54.9 m.	0.202	Occupational Compliance		See Note 2
185 ft.	56.4 m.	0.224	Occupational Compliance		See Note 2
190 ft.	57.9 m.	0.229	Occupational Compliance		See Note 2
195 ft.	59.4 m.	0.194	Casual Compliance		
200 ft.	61.0 m.	0.207	Occupational Compliance	221 ft NOTICE sign	See Note 2
205 ft.	62.5 m.	0.132	Casual Compliance		
210 ft.	64.0 m.	0.130	Casual Compliance		
215 ft.	65.5 m.	0.121	Casual Compliance		
220 ft.	67.1 m.	0.114	Casual Compliance		
225 ft.	68.6 m.	0.132	Casual Compliance		
230 ft.	70.1 m.	0.163	Casual Compliance		
235 ft.	71.6 m.	0.158	Casual Compliance		
240 ft.	73.2 m.	0.163	Casual Compliance		
245 ft.	74.7 m.	0.154	Casual Compliance		
250 ft.	76.2 m.	0.172	Casual Compliance		
255 ft.	77.7 m.	0.161	Casual Compliance		
260 ft.	79.2 m.	0.176	Casual Compliance		
265 ft.	80.8 m.	0.176	Casual Compliance		
270 ft.	82.3 m.	0.165	Casual Compliance		
280 ft.	0.0 m.	0.163	Casual Compliance		
290 ft.	88.4 m.	0.114	Casual Compliance		
300 ft.	91.4 m.	0.110	Casual Compliance		
325 ft.	99.1 m.	0.075	Casual Compliance		
350 ft.	106.7 m.	0.055	Casual Compliance		
375 ft.	114.3 m.	0.037	Casual Compliance		
400 ft.	121.9 m.	0.033	Casual Compliance		

NOTES:

Note 1: Only authorized and RFR trained persons are allowed access to this area.

Note 2: Although a spot was found where the casual limit was exceeded at an elevation less than 2 m. above the surface at this location, the spatial average from foot to head level did not exceed the Casual Limit.