

Engineering Statement

In Support of an Amendment to a Pending Application

WFSF(FM), Marion, South Carolina Channel 263C3

WFSF Modified Terrain-Contour Study

Reference Coordinates:

North Latitude: 34-23-26

West Longitude: 79-35-25

Azimuth °T.	ERP = 25 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 70 dBu Contour km	F(50-50) Distance to 60 dBu Contour km
	Meters AMSL	Meters AAT			
0.0	27.2	94.4	13.979	22.6	38.1
5.0	29.2	92.4	13.979	22.4	37.8
10.0	31.8	89.8	13.979	22.0	37.3
15.0	34.5	87.1	13.979	21.7	36.8
20.0	35.5	86.1	13.979	21.6	36.6
25.0	34.6	87.0	13.979	21.7	36.8
30.0	34.5	87.1	13.979	21.7	36.8
35.0	34.6	87.0	13.979	21.7	36.8
40.0	34.9	86.7	13.979	21.7	36.7
45.0	35.3	86.3	13.979	21.6	36.6
50.0	34.2	87.4	13.979	21.7	36.8
55.0	33.5	88.1	13.979	21.8	37.0
60.0	33.0	88.6	13.979	21.9	37.1
65.0	32.5	89.1	13.979	22.0	37.2
70.0	31.3	90.3	13.979	22.1	37.4
75.0	29.6	92.0	13.979	22.3	37.7
80.0	28.1	93.5	13.979	22.5	38.0
85.0	27.0	94.6	13.979	22.6	38.2
90.0	26.5	95.1	13.979	22.7	38.3
95.0	26.1	95.5	13.979	22.7	38.3
100.0	25.3	96.3	13.979	22.8	38.5
105.0	25.1	96.5	13.979	22.8	38.5
110.0	26.8	94.8	13.979	22.6	38.2
115.0	25.8	95.8	13.979	22.8	38.4
120.0	22.7	98.9	13.979	23.1	38.9
125.0	24.5	97.1	13.979	22.9	38.6
130.0	24.6	97.0	13.979	22.9	38.6
135.0	22.6	99.0	13.979	23.1	38.9
140.0	22.0	99.6	13.979	23.2	39.0
145.0	21.7	99.9	13.979	23.2	39.1
150.0	21.8	99.8	13.979	23.2	39.1
155.0	21.7	99.9	13.979	23.2	39.1

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Exhibit E, Figure 2

ERP = 25 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth	Ave. Elev.	Effective	ERP	Distance to	Distance to
°T.	3 to 16 km	Antenna Height	(dBk)	70 dBu Contour	60 dBu Contour
	Meters AMSL	Meters AAT		km	km
160.0	20.2	101.4	13.979	23.4	39.3
165.0	18.3	103.3	13.979	23.6	39.6
170.0	16.2	105.4	13.979	23.8	39.9
175.0	14.5	107.1	13.979	24.0	40.2
180.0	13.1	108.5	13.979	24.2	40.4
185.0	12.7	108.9	13.979	24.2	40.5
190.0	12.5	109.1	13.979	24.2	40.5
195.0	12.8	108.8	13.979	24.2	40.5
200.0	13.1	108.5	13.979	24.2	40.4
205.0	14.4	107.2	13.979	24.0	40.2
210.0	16.3	105.3	13.979	23.8	39.9
215.0	15.2	106.4	13.979	23.9	40.1
220.0	15.1	106.5	13.979	23.9	40.1
225.0	13.6	108.0	13.979	24.1	40.3
230.0	13.7	107.9	13.979	24.1	40.3
235.0	13.3	108.3	13.979	24.1	40.4
240.0	13.7	107.9	13.979	24.1	40.3
245.0	16.5	105.1	13.740	23.5	39.5
250.0	19.3	102.3	13.500	22.9	38.6
255.0	19.7	101.9	12.550	21.8	36.9
260.0	19.4	102.2	11.600	20.6	35.1
265.0	16.3	105.3	11.285	20.6	35.0
270.0	15.0	106.6	10.969	20.4	34.6
275.0	15.0	106.6	10.969	20.4	34.6
280.0	14.3	107.3	10.969	20.4	34.7
285.0	13.7	107.9	11.285	20.8	35.4
290.0	13.9	107.7	11.600	21.2	35.9
295.0	14.5	107.1	12.550	22.3	37.7
300.0	15.0	106.6	13.500	23.4	39.2
305.0	16.1	105.5	13.740	23.5	39.5
310.0	17.4	104.2	13.979	23.7	39.8
315.0	19.7	101.9	13.979	23.5	39.4
320.0	21.5	100.1	13.979	23.2	39.1
325.0	23.8	97.8	13.979	23.0	38.7
330.0	24.0	97.6	13.979	23.0	38.7
335.0	25.6	96.0	13.979	22.8	38.4
340.0	27.2	94.4	13.979	22.6	38.1
345.0	27.4	94.2	13.979	22.6	38.1
350.0	27.8	93.8	13.979	22.5	38.0
355.0	27.3	94.3	13.979	22.6	38.1