

# FMOver Analysis

## Detailed Clearance to WFSH-FM

01-02-2017

Terrain Data: USGS 03 SEC

WFSH-FM BMLH20060726APQ

W285FH

Channel = 284C1  
Max ERP = 24 kW  
RCAMSL = 772 m  
N. Lat. 33 52 02.0  
W. Lng. 83 49 44.0  
Protected  
60 dBu

Channel = 283D  
Max ERP = 0.25 kW  
RCAMSL = 387 m  
N. Lat. 33 45 48.0  
W. Lng. 84 44 28.0  
Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
202.0	024.0000	0507.5	072.1	133.7	000.2500	0110.3	079.9	28.59	
203.0	024.0000	0507.2	072.1	134.0	000.2500	0110.6	078.7	28.94	
204.0	024.0000	0506.7	072.1	134.3	000.2500	0110.8	077.5	29.29	
205.0	024.0000	0503.9	071.9	134.5	000.2500	0110.8	076.3	29.65	
206.0	024.0000	0501.0	071.7	134.7	000.2500	0110.7	075.1	30.01	
207.0	024.0000	0501.4	071.7	135.0	000.2500	0110.6	073.9	30.35	
208.0	024.0000	0505.8	072.0	135.6	000.2500	0110.8	072.8	30.69	
209.0	024.0000	0510.4	072.3	136.1	000.2500	0111.4	071.7	31.05	
210.0	024.0000	0513.3	072.5	136.6	000.2500	0112.1	070.5	31.43	
211.0	024.0000	0514.5	072.6	136.9	000.2500	0112.7	069.3	31.82	
212.0	024.0000	0517.1	072.8	137.3	000.2500	0113.4	068.2	32.22	
213.0	024.0000	0515.8	072.7	137.6	000.2500	0113.6	066.9	32.62	
214.0	024.0000	0512.1	072.4	137.6	000.2500	0113.7	065.6	33.03	
215.0	024.0000	0512.0	072.4	137.9	000.2500	0114.0	064.4	33.43	
216.0	024.0000	0511.3	072.4	138.1	000.2500	0114.2	063.1	33.85	
217.0	024.0000	0509.0	072.2	138.2	000.2500	0114.4	061.9	34.29	
218.0	024.0000	0506.7	072.1	138.3	000.2500	0114.6	060.6	34.74	
219.0	024.0000	0506.6	072.1	138.5	000.2500	0115.0	059.4	35.22	
220.0	024.0000	0507.3	072.1	138.8	000.2500	0115.5	058.1	35.70	
221.0	024.0000	0507.6	072.1	139.0	000.2500	0116.0	056.9	36.20	
222.0	024.0000	0506.8	072.1	139.1	000.2500	0116.3	055.6	36.69	
223.0	024.0000	0505.1	072.0	139.1	000.2500	0116.4	054.4	37.19	
224.0	024.0000	0502.5	071.8	139.1	000.2500	0116.3	053.1	37.67	
225.0	024.0000	0501.4	071.7	139.1	000.2500	0116.4	051.9	38.17	
226.0	024.0000	0501.8	071.8	139.3	000.2500	0116.7	050.6	38.68	
227.0	024.0000	0501.1	071.7	139.3	000.2500	0116.7	049.4	39.17	
228.0	024.0000	0500.2	071.6	139.3	000.2500	0116.7	048.1	39.65	
229.0	024.0000	0499.6	071.6	139.3	000.2500	0116.7	046.9	40.14	
230.0	024.0000	0498.8	071.5	139.2	000.2500	0116.5	045.6	40.62	
231.0	024.0000	0498.4	071.5	139.1	000.2500	0116.4	044.4	41.12	
232.0	024.0000	0497.5	071.5	139.0	000.2500	0116.1	043.1	41.61	
233.0	024.0000	0496.1	071.4	138.8	000.2500	0115.6	041.9	42.10	
234.0	024.0000	0494.7	071.3	138.5	000.2500	0115.0	040.7	42.60	
235.0	024.0000	0492.9	071.1	138.2	000.2500	0114.3	039.4	43.08	
236.0	024.0000	0491.9	071.1	137.8	000.2500	0113.9	038.2	43.60	
237.0	024.0000	0491.0	071.0	137.5	000.2500	0113.5	037.0	44.12	
238.0	024.0000	0490.3	070.9	137.1	000.2500	0112.9	035.8	44.63	

239.0	024.0000	0491.8	071.1	136.8	000.2500	0112.6	034.5	45.19
240.0	024.0000	0493.1	071.1	136.6	000.2500	0112.1	033.3	45.74
241.0	024.0000	0493.5	071.2	136.1	000.2500	0111.4	032.1	46.27
242.0	024.0000	0492.1	071.1	135.3	000.2500	0110.7	030.9	46.82
243.0	024.0000	0488.5	070.8	134.2	000.2500	0110.7	029.8	47.43
244.0	024.0000	0485.2	070.6	132.9	000.2500	0110.3	028.7	48.03
245.0	024.0000	0482.8	070.4	131.7	000.2500	0110.1	027.7	48.68
246.0	024.0000	0481.4	070.3	130.4	000.2500	0108.8	026.6	49.27
247.0	024.0000	0481.7	070.3	129.3	000.2433	0108.9	025.5	49.92
248.0	024.0000	0482.3	070.4	128.0	000.2317	0110.3	024.4	50.59
249.0	024.0000	0482.4	070.4	126.5	000.2187	0109.7	023.3	51.06
250.0	024.0000	0482.2	070.4	124.8	000.2037	0108.2	022.3	51.38
251.0	024.0000	0481.8	070.3	122.9	000.1873	0104.6	021.3	51.46
252.0	024.0000	0481.6	070.3	120.7	000.1702	0105.7	020.4	51.87
253.0	024.0000	0481.8	070.3	118.3	000.1566	0104.6	019.5	52.14
254.0	024.0000	0482.3	070.4	115.8	000.1443	0104.3	018.6	52.48
255.0	024.0000	0482.9	070.4	112.9	000.1313	0104.0	017.8	52.71
256.0	024.0000	0483.0	070.4	109.6	000.1179	0108.9	017.0	53.26
257.0	024.0000	0482.4	070.4	106.0	000.1108	0110.8	016.4	53.66
258.0	024.0000	0481.8	070.3	102.0	000.1034	0105.1	015.9	53.32
259.0	024.0000	0482.1	070.4	097.9	000.0972	0104.9	015.4	53.44
260.0	024.0000	0482.8	070.4	093.5	000.0921	0108.4	015.0	53.84
261.0	024.0000	0483.1	070.4	088.9	000.0886	0099.8	014.8	53.07
262.0	024.0000	0482.5	070.4	084.1	000.0909	0100.4	014.7	53.32
263.0	024.0000	0481.3	070.3	079.3	000.0948	0101.6	014.8	53.50
264.0	024.0000	0479.2	070.2	074.7	000.1099	0097.9	015.1	53.68
265.0	024.0000	0476.9	070.0	070.3	000.1253	0097.0	015.5	53.82
266.0	024.0000	0476.4	070.0	066.1	000.1389	0093.6	015.9	53.62
267.0	024.0000	0476.8	070.0	062.0	000.1525	0094.7	016.3	53.77
268.0	024.0000	0477.2	070.0	058.2	000.1667	0094.4	016.8	53.68
269.0	024.0000	0478.0	070.1	054.6	000.1810	0095.2	017.4	53.62
270.0	024.0000	0479.0	070.1	051.2	000.1948	0098.2	018.1	53.68
271.0	024.0000	0478.8	070.1	048.4	000.2077	0100.1	018.9	53.47
272.0	024.0000	0478.1	070.1	045.8	000.2198	0098.2	019.7	52.84
273.0	024.0000	0477.4	070.0	043.6	000.2314	0101.2	020.7	52.60
274.0	024.0000	0477.9	070.1	041.4	000.2425	0103.7	021.6	52.31
275.0	024.0000	0478.8	070.1	039.4	000.2500	0106.7	022.5	51.98
276.0	024.0000	0480.0	070.2	037.5	000.2500	0109.8	023.5	51.52
277.0	024.0000	0480.8	070.3	035.9	000.2500	0110.1	024.5	50.81
278.0	024.0000	0481.0	070.3	034.6	000.2500	0110.3	025.6	50.07
279.0	024.0000	0480.3	070.2	033.5	000.2500	0110.0	026.7	49.29
280.0	024.0000	0480.7	070.3	032.4	000.2500	0108.2	027.8	48.43
281.0	024.0000	0480.1	070.2	031.5	000.2500	0107.8	029.0	47.70
282.0	024.0000	0479.1	070.1	030.9	000.2500	0107.4	030.1	46.98
283.0	024.0000	0477.6	070.0	030.3	000.2500	0107.0	031.3	46.31
284.0	024.0000	0476.3	069.9	029.8	000.2500	0107.0	032.5	45.72
285.0	024.0000	0474.5	069.8	029.5	000.2500	0106.9	033.7	45.13
286.0	024.0000	0472.6	069.7	029.2	000.2500	0106.8	034.9	44.55
287.0	024.0000	0471.0	069.6	028.9	000.2500	0106.7	036.1	43.99
288.0	024.0000	0469.8	069.5	028.7	000.2500	0106.5	037.3	43.43
289.0	024.0000	0468.9	069.4	028.5	000.2500	0106.5	038.5	42.89
290.0	024.0000	0468.1	069.4	028.2	000.2500	0106.5	039.8	42.37
291.0	024.0000	0468.3	069.4	028.0	000.2500	0106.5	040.9	41.86
292.0	024.0000	0469.4	069.4	027.7	000.2500	0106.5	042.1	41.36
293.0	024.0000	0470.9	069.6	027.4	000.2500	0106.6	043.3	40.87
294.0	024.0000	0471.9	069.6	027.2	000.2500	0106.6	044.5	40.39
295.0	024.0000	0472.7	069.7	027.0	000.2500	0106.7	045.7	39.91
296.0	024.0000	0473.3	069.7	026.9	000.2500	0106.7	047.0	39.44
297.0	024.0000	0473.6	069.8	026.8	000.2500	0106.7	048.2	38.97
298.0	024.0000	0474.3	069.8	026.8	000.2500	0106.7	049.4	38.51

299.0	024.0000	0475.2	069.9	026.7	000.2500	0106.7	050.6	38.04
300.0	024.0000	0477.0	070.0	026.7	000.2500	0106.7	051.8	37.57
301.0	024.0000	0478.7	070.1	026.6	000.2500	0106.7	053.1	37.10
302.0	024.0000	0479.6	070.2	026.6	000.2500	0106.7	054.3	36.63
303.0	024.0000	0480.7	070.3	026.7	000.2500	0106.7	055.5	36.16
304.0	024.0000	0482.0	070.4	026.7	000.2500	0106.7	056.7	35.69
305.0	024.0000	0482.8	070.4	026.8	000.2500	0106.7	058.0	35.23
306.0	024.0000	0483.1	070.4	027.0	000.2500	0106.7	059.2	34.78
307.0	024.0000	0485.1	070.6	027.0	000.2500	0106.7	060.4	34.34
308.0	024.0000	0488.6	070.8	027.0	000.2500	0106.7	061.7	33.90
309.0	024.0000	0491.5	071.0	027.0	000.2500	0106.7	062.9	33.48
310.0	024.0000	0493.9	071.2	027.1	000.2500	0106.7	064.2	33.08
311.0	024.0000	0495.9	071.3	027.2	000.2500	0106.6	065.4	32.69
312.0	024.0000	0494.0	071.2	027.6	000.2500	0106.6	066.6	32.32
313.0	024.0000	0493.7	071.2	027.9	000.2500	0106.5	067.8	31.95
314.0	024.0000	0495.7	071.3	028.0	000.2500	0106.5	069.0	31.58
315.0	024.0000	0498.6	071.5	028.1	000.2500	0106.5	070.3	31.20
316.0	024.0000	0503.6	071.9	028.2	000.2500	0106.5	071.6	30.81
317.0	024.0000	0504.9	072.0	028.4	000.2500	0106.5	072.8	30.45
318.0	024.0000	0503.2	071.9	028.8	000.2500	0106.6	074.0	30.12
319.0	024.0000	0501.1	071.7	029.2	000.2500	0106.8	075.1	29.80
320.0	024.0000	0502.6	071.8	029.5	000.2500	0106.9	076.3	29.45
321.0	024.0000	0502.5	071.8	029.8	000.2500	0106.9	077.5	29.12

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At all points on the WFSH-FM protected 60dBu (50,50) this proposal delivers a signal of less than 54 dBu interfering (50,10).

**Bromo Communications, Inc.**