

Latitude: 30-41-29.50 N - Longitude: 088-10-56.30 W
Channel: 246 - Frequency: 97.1 MHz
ERP: 0.022 kW - AMSL Height: 95.7 m

Latitude: 30-41-20 N - Longitude: 087-49-49 W
Channel: 248 - Frequency: 97.5 MHz
ERP: 100.00 kW - AMSL Height: 507.0 m

BROADCAST TECHNICAL CONSULTANTS

- WJGR-LP Proposed 123.3 dBu (50/10)
- WABD License 83.3 dBu (50/50)

EXHIBIT B1
MINOR CHANGE APPLICATION
UNIVERSITY OF SOUTH ALABAMA
WJGR-LP RADIO STATION
CH 246L1 - 97.1 MHz
MOBILE, ALABAMA
March 2016

Scale 1:24,000

0 0.33 0.67 1.0 km

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EXHIBIT B2

WJGR-LP Mobile, Alabama
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.022
 Translator or LPFM Antenna Height AG = 30 Meters
 WJGR-LP Antenna Model = SHIVELY 68-- -1

Protected Station's Contour = 83.3 dBu
 Translator's or LPFM's full Interference contour 123.3

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.022 kW
 Distance between stations = 33.7 km
 Protected Station= WABD, 100 kW, 507 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0220	022.5015	022.5015	030.000
05.00	0.996	1.0	0.0218	022.4115	022.3262	028.047
10.00	0.985	1.0	0.0213	022.1640	021.8273	026.151
15.00	0.967	1.0	0.0206	021.7589	021.0175	024.368
20.00	0.942	1.0	0.0195	021.1964	019.9181	022.750
25.00	0.91	1.0	0.0182	020.4764	018.5579	021.346
30.00	0.871	1.0	0.0167	019.5988	016.9731	020.201
35.00	0.826	1.0	0.0150	018.5862	015.2250	019.339
40.00	0.774	1.0	0.0132	017.4162	013.3415	018.805
45.00	0.717	1.0	0.0113	016.1336	011.4082	018.592
50.00	0.654	1.0	0.0094	014.7160	009.4592	018.727
55.00	0.586	1.0	0.0076	013.1859	007.5631	019.199
60.00	0.514	1.0	0.0058	011.5658	005.7829	019.984
65.00	0.437	1.0	0.0042	009.8332	004.1557	021.088
70.00	0.357	1.0	0.0028	008.0330	002.7475	022.451
75.00	0.273	1.0	0.0016	006.1429	001.5899	024.066
80.00	0.186	1.0	0.0008	004.1853	000.7268	025.878
85.00	0.096	1.0	0.0002	002.1601	000.1883	027.848
90.00	0.0	1.0	0.0000	000.0113	000.0000	029.989

X-Field™ By V-Soft Communications©LLC

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EXHIBIT B3

North Latitude: 30° 41' 29.5" - Tabulated Service Contour Data
West Longitude: 88° 10' 56.3" - WJGR-LP LPFM Station, Mobile, Alabama

HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	123.3-F1	100-F1	60-F5	54-F1	40-F1
000	33.3	62.4	0.0220	-16.58	1.000	0.02	0.33	5.59	7.85	18.41
010	27.9	67.8	0.0220	-16.58	1.000	0.02	0.33	5.81	8.19	19.20
020	28.7	67.0	0.0220	-16.58	1.000	0.02	0.33	5.78	8.14	19.08
030	18.6	77.1	0.0220	-16.58	1.000	0.02	0.33	6.19	8.77	20.53
040	18.0	77.7	0.0220	-16.58	1.000	0.02	0.33	6.21	8.80	20.62
050	15.5	80.2	0.0220	-16.58	1.000	0.02	0.33	6.31	8.94	20.97
060	10.4	85.3	0.0220	-16.58	1.000	0.02	0.33	6.51	9.23	21.68
070	9.5	86.2	0.0220	-16.58	1.000	0.02	0.33	6.55	9.28	21.81
080	9.3	86.4	0.0220	-16.58	1.000	0.02	0.33	6.56	9.29	21.83
090	8.8	86.9	0.0220	-16.58	1.000	0.02	0.33	6.58	9.32	21.90
100	8.2	87.5	0.0220	-16.58	1.000	0.02	0.33	6.60	9.35	21.98
110	7.6	88.1	0.0220	-16.58	1.000	0.02	0.33	6.63	9.38	22.06
120	8.3	87.4	0.0220	-16.58	1.000	0.02	0.33	6.60	9.35	21.97
130	8.7	87.0	0.0220	-16.58	1.000	0.02	0.33	6.58	9.33	21.92
140	15.7	80.0	0.0220	-16.58	1.000	0.02	0.33	6.30	8.93	20.94
150	15.6	80.1	0.0220	-16.58	1.000	0.02	0.33	6.31	8.94	20.95
160	17.5	78.2	0.0220	-16.58	1.000	0.02	0.33	6.23	8.83	20.69
170	22.6	73.1	0.0220	-16.58	1.000	0.02	0.33	6.02	8.52	19.96
180	30.2	65.5	0.0220	-16.58	1.000	0.02	0.33	5.72	8.04	18.87
190	31.6	64.1	0.0220	-16.58	1.000	0.02	0.33	5.66	7.95	18.66
200	28.3	67.4	0.0220	-16.58	1.000	0.02	0.33	5.80	8.17	19.15
210	35.7	60.0	0.0220	-16.58	1.000	0.02	0.33	5.50	7.70	18.06
220	41.2	54.5	0.0220	-16.58	1.000	0.02	0.33	5.25	7.33	17.11
230	46.6	49.1	0.0220	-16.58	1.000	0.02	0.33	4.97	6.94	15.99
240	44.5	51.2	0.0220	-16.58	1.000	0.02	0.33	5.08	7.09	16.45
250	51.1	44.6	0.0220	-16.58	1.000	0.02	0.33	4.70	6.59	14.80
260	46.6	49.1	0.0220	-16.58	1.000	0.02	0.33	4.97	6.94	15.99
270	42.3	53.4	0.0220	-16.58	1.000	0.02	0.33	5.20	7.25	16.89
280	49.8	45.9	0.0220	-16.58	1.000	0.02	0.33	4.78	6.70	15.26
290	47.8	47.9	0.0220	-16.58	1.000	0.02	0.33	4.90	6.85	15.72
300	57.6	38.1	0.0220	-16.58	1.000	0.02	0.33	4.31	6.09	13.65
310	58.1	37.6	0.0220	-16.58	1.000	0.02	0.33	4.28	6.05	13.56
320	61.5	34.2	0.0220	-16.58	1.000	0.02	0.33	4.07	5.79	12.99
330	58.0	37.7	0.0220	-16.58	1.000	0.02	0.33	4.29	6.06	13.59
340	49.8	45.9	0.0220	-16.58	1.000	0.02	0.33	4.78	6.70	15.25
350	42.7	53.0	0.0220	-16.58	1.000	0.02	0.33	5.18	7.23	16.82

AMSL= 95.7 M