

ENGINEERING EXHIBIT

Application for Modification of Construction Permit

prepared for

Delta Media Corporation

W260CK Lafayette, LA

Facility ID 153132

Ch. 249 97.7 MHz 0.25 kW

Delta Media Corporation (“Delta”) is the permittee of the Construction Permit (“CP” BNPFT-20130809AAM) for unbuilt FM translator station W260CK, Channel 260, Fac ID 153132, Slidell, LA. Pursuant to the procedures described in FCC 15-142 (FM translator filing window for AM licensees),¹ *Delta* herein proposes to relocate W260CK to Lafayette, LA, change to Channel 249, and associate the facility with station KVOL(AM) (Class B, 1330 kHz, Fac ID 9415, Lafayette, LA). *Delta* is also the licensee of KVOL. Accordingly, the proposal is a “250-mile window application.”²

The proposed translator site is an existing tower structure associated with FCC Antenna Structure Registration number 1251823. The proposed site is located 132.7 miles (213.5 km) from the authorized W260CK site and therefore complies with the filing window’s maximum relocation distance of 250 miles. The proposed transmitting antenna will be side-mounted on the tower structure and no change to the overall structure height will result from this proposal.

¹*Revitalization of the AM Radio Service*, First Report and Order, Further Notice of Proposed Rule Making, and Notice of Inquiry, FCC 15-142, released October 23, 2015.

²See Public Notices: *Media Bureau Initiates AM Revitalization Outreach Efforts; Modification Window Procedures and Requirements Announced*, DA 15-1215, released October 26, 2015; and *Media Bureau Announces Filing Dates And Procedures For AM Station Filing Window for FM Translator Modifications and Availability of FM Translator Technical Tools*, DA 15-1491, released December 23, 2015.

Fill-In Compliance

W260CK will be a fill-in translator for station KVOL(AM). The 60 dB μ contour of the proposed W260CK is encompassed by the lesser of the KVOL daytime 2 mV/m contour and a 25 mile radius from KVOL's transmitter site as depicted in Figure 1. As a fill-in translator, the proposed 0.25 kW ERP complies with §74.1235(a). Final signal delivery of the audio programming material to the translator will be accomplished via microwave.

§74.1204 Interference Protection

Table 1 supplies a summary of the proposal's compliance with the interference protection requirements of §74.1204(a) and (g). The proposed facility complies with the prohibited contour overlap requirements of 74.1204(a) regarding all other FM full power, low power, and translator stations except for two full power stations, KMDL(FM) (Ch. 247C2 Kaplan, LA) and WDGL(FM) (Ch. 251C Baton Rouge, LA). The proposal complies with §74.1204(d) with respect to KMDL and WDGL.

As described in FCC 02-244³ the "ratio" undesired-to-desired signal method of interference determination may be used by an FM translator applicant to demonstrate compliance with §74.1204(d). KMDL is on a second adjacent channel and is located 32.8 km from the proposed W260CK site. The KMDL signal level at the proposed W260CK site is 69.6 dB μ based on standard FCC F(50,50) propagation curves. The corresponding undesired interfering signal level is 109.6 dB μ .

WDGL is also on a second-adjacent channel, 72.0 km from the proposed W260CK. The WDGL signal level at the proposed W260CK site is 65.1 dB μ and the corresponding undesired interfering signal level is 105.1 dB μ .

³*Living Way Ministries, Inc.* Memorandum Opinion and Order, Released September 9, 2002, FCC 02-244, 17 FCC Rcd 17054-60.

For protection of second adjacent stations KMDL and WDGL, it is only necessary to evaluate the lowest of the potential interfering signal levels, 105.1 dB μ .⁴ Calculated signal levels of 105.1 dB μ or more (the “105.1 dB μ contour”) do not reach any potentially populated location.

The maximum distance to the proposed W260CK 105.1 dB μ interfering signal at elevations horizontal to the antenna is 0.61 km, based on free-space computation. An aerial view of the proposed site and vicinity is provided in Figure 2 along with the 105.1 dB μ interfering contour. The area within this contour is undeveloped and, except for the equipment shelter at the base of the tower, does not contain any roadways, residences, businesses, or structures. Thus, the potential interference area is unpopulated and the proposal complies with §74.1204(d) with respect to KMDL and WDGL.

Further, applying the proposed antenna’s elevation pattern, the 105.1 dB μ contour is well elevated above the ground such that the 105.1 dB μ contour does not reach any location at ground level. The proposed antenna is a Bext model TFC2K having two elements. Figure 3 provides a plot of the antenna’s elevation pattern, a profile plot of the 105.1 dB μ contour, and a graph of the maximum free-space signal level at an elevation of 10 meters above ground along a radial from the base of the tower. The surrounding terrain is flat. The elevation pattern data and free-space calculations are supplied in Table 2.

Figure 3 and Table 2 show that the 105.1 dB μ contour never falls below an elevation of 17.5 meters above ground. The highest free-space signal level at any point elevated 10 meters above ground is 104.7 dB μ . These exhibits demonstrate that the high signal levels that would exceed the 40 dB μ undesired-to-desired ratio with respect to WDGL are at locations which are well-elevated, inaccessible, and unpopulated. Thus, the proposal complies with §74.1204(d) with respect to WDGL and KMDL.

⁴The 109.6 dB μ interfering signal to KMDL distance is completely subsumed by the 105.1 dB μ (WDGL) signal distance.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming the worst-case of 100 percent relative field at downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $0.6 \mu\text{W}/\text{cm}^2$, which is 0.3 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent. When the antenna's elevation pattern is considered, the calculated RF exposure level will be even lower.

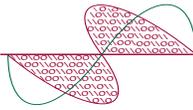
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field.

List of Attachments

Figure 1	Coverage Contours – Primary and Translator Stations
Figure 2	Interference Protection to WDGL(FM) - Aerial View of 105.1 dB μ Contour
Figure 3	Interference Protection to WDGL(FM) - U/D Graphs
Table 1	Channel Allocation Summary
Table 2	U/D Interference Calculation to WDGL(FM)
Form 349	Saved Version of Engineering Sections from FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. July 8, 2016
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

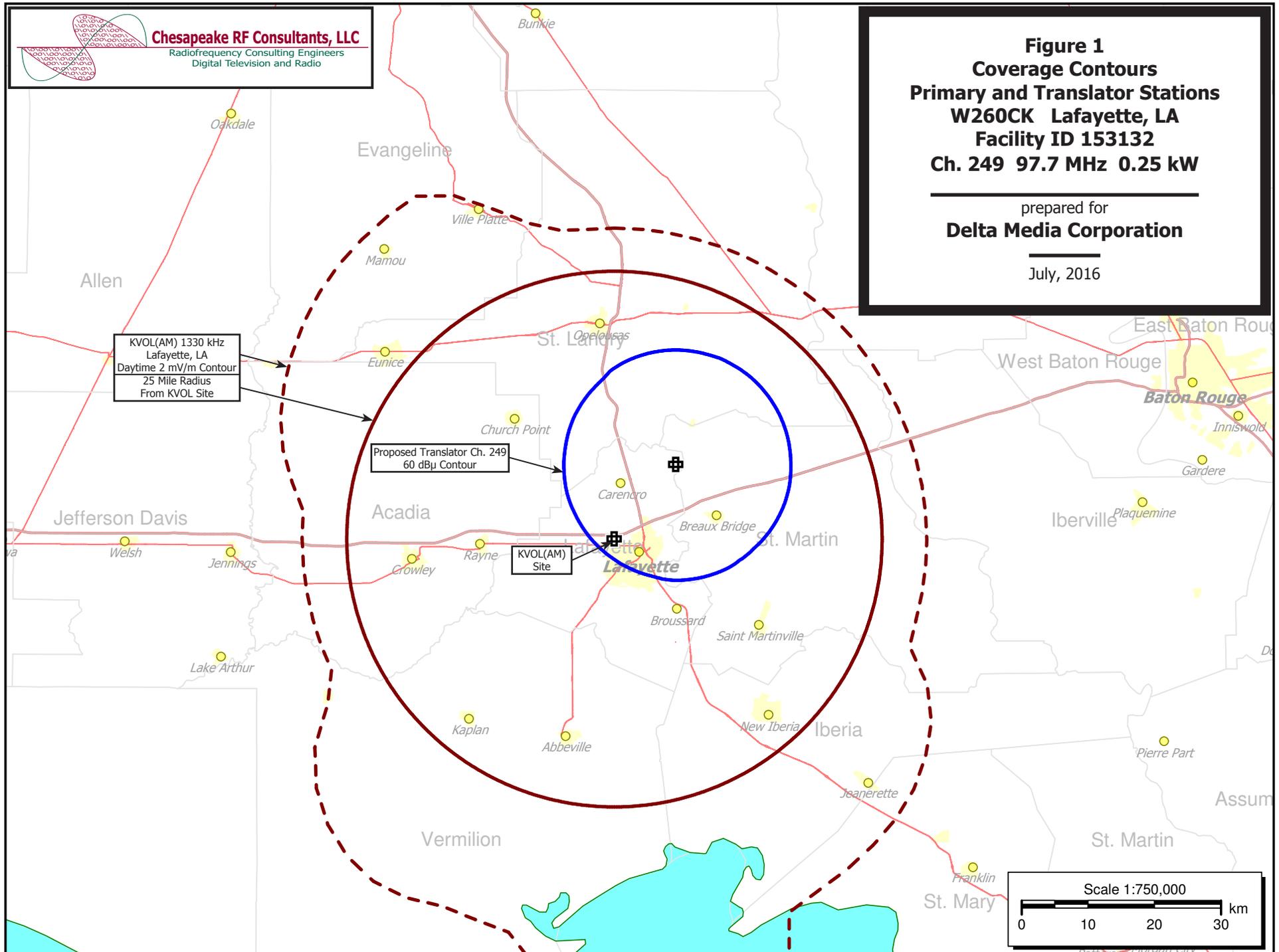


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Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Coverage Contours
Primary and Translator Stations
W260CK Lafayette, LA
Facility ID 153132
Ch. 249 97.7 MHz 0.25 kW

prepared for
Delta Media Corporation

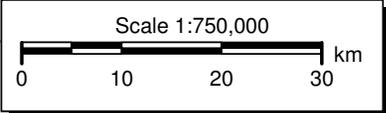
July, 2016

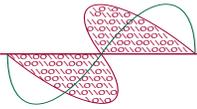


KVOL(AM) 1330 kHz
Lafayette, LA
Daytime 2 mV/m Contour
25 Mile Radius
From KVOL Site

Proposed Translator Ch. 249
60 dBu Contour

KVOL(AM)
Site



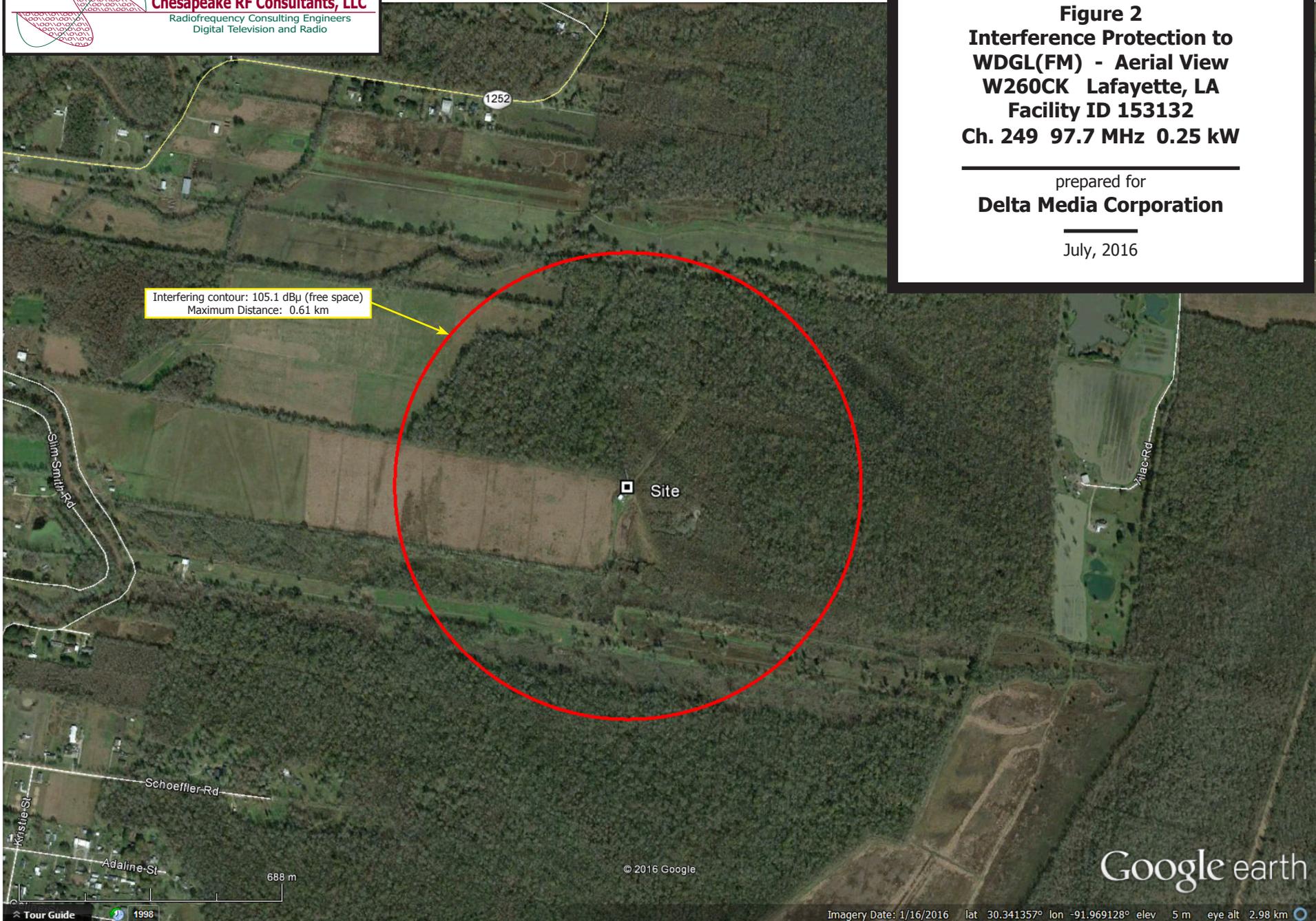


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Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 2
Interference Protection to
WDGL(FM) - Aerial View
W260CK Lafayette, LA
Facility ID 153132
Ch. 249 97.7 MHz 0.25 kW

prepared for
Delta Media Corporation

July, 2016



Interfering contour: 105.1 dB μ (free space)
Maximum Distance: 0.61 km

Site

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Google earth

Imagery Date: 1/16/2016 lat 30.341357° lon -91.969128° elev 5 m eye alt 2.98 km

Tour Guide 1998

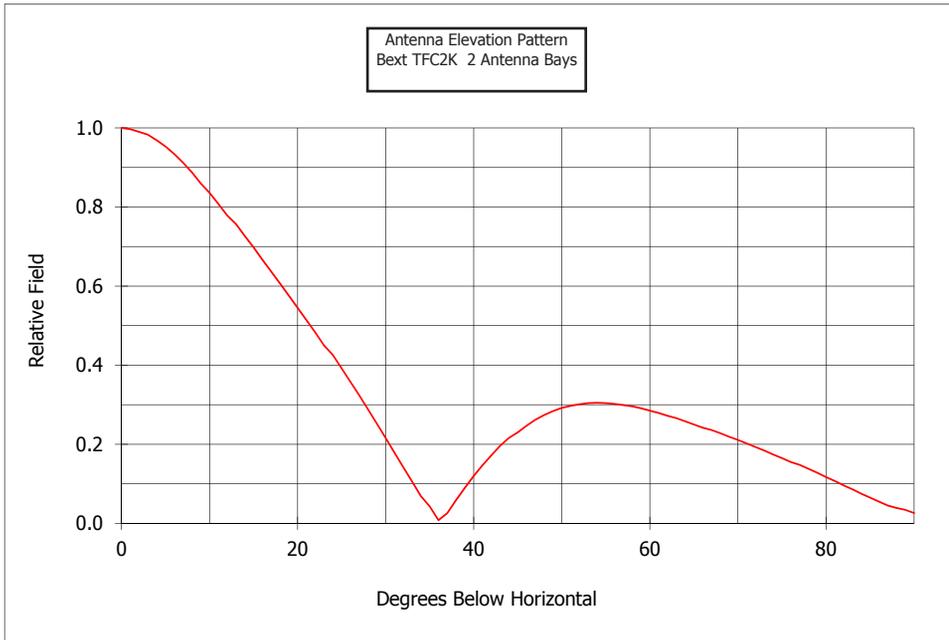


Figure 3
Interference Protection to WDGL(FM)
W260CK Lafayette, LA
Facility ID 153132
Ch. 249 97.7 MHz 0.25 kW

prepared for
Delta Media Corporation

July, 2016



Protection of WDGL(FM) Ch. 251C 98.1 MHz Baton Rouge, LA
WDGL F(50,50) signal level at proposed translator site: 65.1 dBμ
Translator interfering signal level = 65.1 dBμ + 40 dB = 105.1 dBμ
Proposed W260CK ERP = 0.25 kW Antenna C/R = 171 m AGL

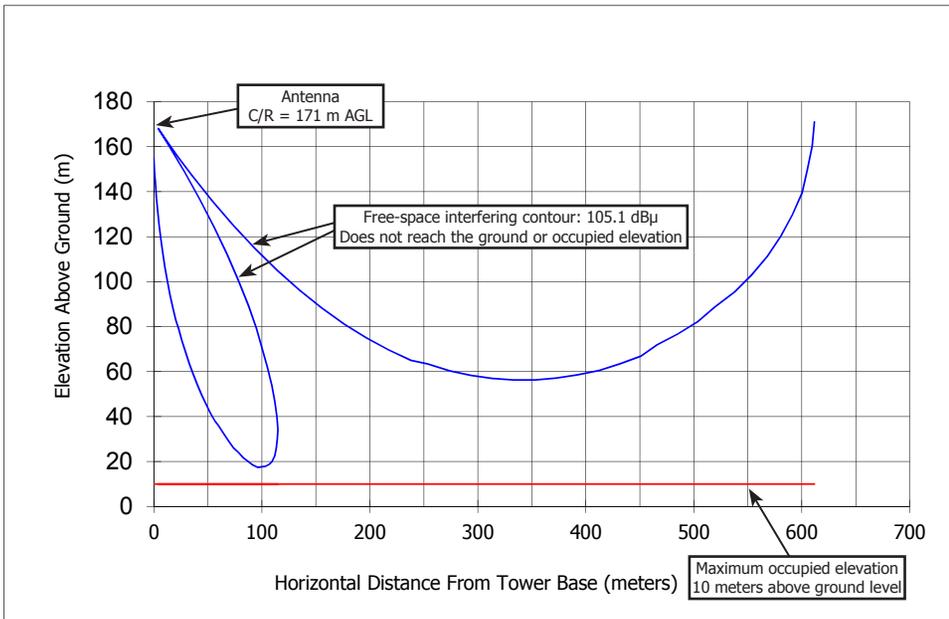


Table 1
Channel Allocation Study Summary
Delta Media Corporation
W260CK Lafayette, LA



Delta Media Corporation													
REFERENCE		CH# 249D - 97.7 MHz, Pwr= 0.25 kw, HAAT= 171.7 M, COR= 178 M						DISPLAY DATES					
30	20	32.0	N.	Average Protected F(50-50)= 17.2 km						DATA 07-06-16			
91	57	46.0	W.	Omni-directional						SEARCH 07-06-16			
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kw)	INT(km)	PRO(km)	*OUT*			
CITY	STATE			<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(overlap in km)			
247C2	KMDL	LIC	CN	185.7	32.83	30 02 54.0	38.000	5.8	51.8	-20.1*<			
Kaplan	LA		LA	5.7	BLH19970922KB	91 59 49.0	171	176	Townsquare Media Of Lafaye				
251C	WDGL	LIC	CX	87.7	71.97	30 21 58.0	100.000	12.3	84.5	-13.6*<			
Baton Rouge	LA		LA	268.1	BLH20160113ABS	91 12 47.0	459	465	Guaranty Broadcasting Comp				
249D	K249DV	LIC	C	82.2	75.24	30 25 56.3	0.250	54.8	17.3	3.1			
Baton Rouge	LA		LA	262.5	BLFT20130107ABS	91 11 06.6	167	175	Educational Media Foundati				
249A	KAPB-FM	LIC	CN	352.8	87.62	31 07 27.0	6.000	86.8	28.4	5.0			
Marksville	LA		LA	172.8	BLH19980109KE	92 04 40.0	100	117	Three Rivers Radio Company				
249C1	KDLC	LIC	CX	135.1	155.51	29 20 47.0	100.000	152.2	56.3	44.7			
Dulac	LA		LA	315.7	BLH20141002AAU	90 49 49.0	134	134	Coast Radio Group, Inc.				
250C2	KQLK	LIC	C	284.4	124.73	30 36 57.0	50.000	78.9	52.9	46.5			
De Ridder	LA		LA	103.8	BLH20010212AAA	93 13 31.0	150	185	Cumulus Licensing Llc				

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone= west Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
Incoming contour overlap is ignored.
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
< = Contour Overlap

Table 2

U/D Interference Calculation to WDGL(FM)
Delta Media Corporation
W260CK 97.7 MHz Lafayette, LA
 Page 1 of 2



Antenna: **Bext TFC2K 2 Bays**
 C/R Elevation: **171.0** m AGL
 Vertical Clearance: **10.0** m AGL to occupied elevation
 ERP : **0.25** kW
 Ix Signal Level: **105.1** dBμ

Depr Angle (degrees)	Antenna Elevation Relative Field	ERP at Angle (kW)	Distance to 105.1 dBμ Ix Contour					Observation Point at Occupied Elevation		
			Slant From C/R (m)	Horizontal From Base (m)	Vertical From Base (m)	Occupied Elevation (m)	Margin (m)	Horiz Distance (m)	Slant Distance (m)	Ix Signal at Endpoint (dBμ)
90	0.026	0.0002	15.9	0.0	155.1	10.0	145.1	0.0	161.0	85.0
89	0.034	0.0003	20.8	0.4	150.2	10.0	140.2	2.8	161.0	87.3
88	0.039	0.0004	23.9	0.8	147.2	10.0	137.2	5.6	161.1	88.5
87	0.045	0.0005	27.5	1.4	143.5	10.0	133.5	8.4	161.2	89.7
86	0.055	0.0008	33.6	2.3	137.4	10.0	127.4	11.3	161.4	91.5
85	0.065	0.0011	39.8	3.5	131.4	10.0	121.4	14.1	161.6	92.9
84	0.075	0.0014	45.9	4.8	125.4	10.0	115.4	16.9	161.9	94.1
83	0.086	0.0018	52.6	6.4	118.8	10.0	108.8	19.8	162.2	95.3
82	0.096	0.0023	58.7	8.2	112.9	10.0	102.9	22.6	162.6	96.3
81	0.107	0.0029	65.4	10.2	106.4	10.0	96.4	25.5	163.0	97.2
80	0.117	0.0034	71.6	12.4	100.5	10.0	90.5	28.4	163.5	97.9
79	0.128	0.0041	78.3	14.9	94.2	10.0	84.2	31.3	164.0	98.7
78	0.138	0.0048	84.4	17.5	88.4	10.0	78.4	34.2	164.6	99.3
77	0.148	0.0055	90.5	20.4	82.8	10.0	72.8	37.2	165.2	99.9
76	0.155	0.0060	94.8	22.9	79.0	10.0	69.0	40.1	165.9	100.2
75	0.165	0.0068	100.9	26.1	73.5	10.0	63.5	43.1	166.7	100.7
74	0.174	0.0076	106.4	29.3	68.7	10.0	58.7	46.2	167.5	101.2
73	0.184	0.0085	112.5	32.9	63.4	10.0	53.4	49.2	168.4	101.6
72	0.193	0.0093	118.0	36.5	58.7	10.0	48.7	52.3	169.3	102.0
71	0.202	0.0102	123.5	40.2	54.2	10.0	44.2	55.4	170.3	102.3
70	0.211	0.0111	129.0	44.1	49.7	10.0	39.7	58.6	171.3	102.6
69	0.219	0.0120	133.9	48.0	46.0	10.0	36.0	61.8	172.5	102.9
68	0.228	0.0130	139.4	52.2	41.7	10.0	31.7	65.0	173.6	103.2
67	0.236	0.0139	144.3	56.4	38.1	10.0	28.1	68.3	174.9	103.4
66	0.242	0.0146	148.0	60.2	35.8	10.0	25.8	71.7	176.2	103.6
65	0.250	0.0156	152.9	64.6	32.4	10.0	22.4	75.1	177.6	103.8
64	0.258	0.0166	157.8	69.2	29.2	10.0	19.2	78.5	179.1	104.0
63	0.266	0.0177	162.7	73.9	26.0	10.0	16.0	82.0	180.7	104.2
62	0.272	0.0185	166.4	78.1	24.1	10.0	14.1	85.6	182.3	104.3
61	0.279	0.0195	170.6	82.7	21.8	10.0	11.8	89.2	184.1	104.4
60	0.285	0.0203	174.3	87.2	20.0	10.0	10.0	93.0	185.9	104.5
59	0.291	0.0212	178.0	91.7	18.4	10.0	8.4	96.7	187.8	104.6
58	0.296	0.0219	181.0	95.9	17.5	10.0	7.5	100.6	189.8	104.7
57	0.299	0.0224	182.9	99.6	17.6	10.0	7.6	104.6	192.0	104.7
56	0.302	0.0228	184.7	103.3	17.9	10.0	7.9	108.6	194.2	104.7
55	0.304	0.0231	185.9	106.6	18.7	10.0	8.7	112.7	196.5	104.6
54	0.305	0.0233	186.5	109.6	20.1	10.0	10.1	117.0	199.0	104.5
53	0.304	0.0231	185.9	111.9	22.5	10.0	12.5	121.3	201.6	104.4
52	0.301	0.0227	184.1	113.3	25.9	10.0	15.9	125.8	204.3	104.2
51	0.297	0.0221	181.6	114.3	29.8	10.0	19.8	130.4	207.2	104.0
50	0.292	0.0213	178.6	114.8	34.2	10.0	24.2	135.1	210.2	103.7
49	0.284	0.0202	173.7	114.0	39.9	10.0	29.9	140.0	213.3	103.3
48	0.274	0.0188	167.6	112.1	46.5	10.0	36.5	145.0	216.6	102.9
47	0.262	0.0172	160.2	109.3	53.8	10.0	43.8	150.1	220.1	102.3
46	0.247	0.0153	151.1	104.9	62.3	10.0	52.3	155.5	223.8	101.7
45	0.230	0.0132	140.7	99.5	71.5	10.0	61.5	161.0	227.7	100.9
44	0.216	0.0117	132.1	95.0	79.2	10.0	69.2	166.7	231.8	100.2
43	0.196	0.0096	119.9	87.7	89.2	10.0	79.2	172.7	236.1	99.2
42	0.172	0.0074	105.2	78.2	100.6	10.0	90.6	178.8	240.6	97.9
41	0.147	0.0054	89.9	67.9	112.0	10.0	102.0	185.2	245.4	96.4
40	0.120	0.0036	73.4	56.2	123.8	10.0	113.8	191.9	250.5	94.4

Table 2

U/D Interference Calculation to WDGL(FM)
Delta Media Corporation
W260CK 97.7 MHz Lafayette, LA
 Page 2 of 2



Depr Angle (degrees)	Antenna Elevation Relative Field	ERP at Angle (kW)	Distance to 105.1 dBµ Ix Contour					Observation Point at Occupied Elevation			
			Slant From C/R (m)	Horizontal From Base (m)	Vertical From Base (m)	Occupied Elevation (m)	Margin (m)	Horiz Distance (m)	Slant Distance (m)	Ix Signal at Endpoint (dBµ)	
39	0.090	0.0020	55.0	42.8	136.4	10.0	126.4	198.8	255.8	91.8	
38	0.059	0.0009	36.1	28.4	148.8	10.0	138.8	206.1	261.5	87.9	
37	0.026	0.0002	15.9	12.7	161.4	10.0	151.4	213.7	267.5	80.6	
36	0.008	0.0000	4.9	4.0	168.1	10.0	158.1	221.6	273.9	70.1	
35	0.043	0.0005	26.3	21.5	155.9	10.0	145.9	229.9	280.7	84.5	
34	0.069	0.0012	42.2	35.0	147.4	10.0	137.4	238.7	287.9	88.4	
33	0.106	0.0028	64.8	54.4	135.7	10.0	125.7	247.9	295.6	91.9	
32	0.142	0.0050	86.8	73.7	125.0	10.0	115.0	257.7	303.8	94.2	
31	0.179	0.0080	109.5	93.8	114.6	10.0	104.6	267.9	312.6	96.0	
30	0.216	0.0117	132.1	114.4	104.9	10.0	94.9	278.9	322.0	97.4	
29	0.252	0.0159	154.1	134.8	96.3	10.0	86.3	290.5	332.1	98.4	
28	0.288	0.0207	176.1	155.5	88.3	10.0	78.3	302.8	342.9	99.3	
27	0.324	0.0262	198.2	176.6	81.0	10.0	71.0	316.0	354.6	100.0	
26	0.358	0.0320	219.0	196.8	75.0	10.0	65.0	330.1	367.3	100.6	
25	0.392	0.0384	239.7	217.3	69.7	10.0	59.7	345.3	381.0	101.1	
24	0.426	0.0454	260.5	238.0	65.0	10.0	55.0	361.6	395.8	101.5	
23	0.450	0.0506	275.2	253.3	63.5	10.0	53.5	379.3	412.0	101.6	
22	0.483	0.0583	295.4	273.9	60.3	10.0	50.3	398.5	429.8	101.8	
21	0.514	0.0660	314.4	293.5	58.3	10.0	48.3	419.4	449.3	102.0	
20	0.545	0.0743	333.3	313.2	57.0	10.0	47.0	442.3	470.7	102.1	
19	0.576	0.0829	352.3	333.1	56.3	10.0	46.3	467.6	494.5	102.2	
18	0.607	0.0921	371.2	353.1	56.3	10.0	46.3	495.5	521.0	102.2	
17	0.637	0.1014	389.6	372.6	57.1	10.0	47.1	526.6	550.7	102.1	
16	0.667	0.1112	407.9	392.1	58.6	10.0	48.6	561.5	584.1	102.0	
15	0.698	0.1218	426.9	412.4	60.5	10.0	50.5	600.9	622.1	101.8	
14	0.727	0.1321	444.6	431.4	63.4	10.0	53.4	645.7	665.5	101.6	
13	0.757	0.1433	463.0	451.1	66.9	10.0	56.9	697.4	715.7	101.3	
12	0.779	0.1517	476.4	466.0	71.9	10.0	61.9	757.4	774.4	100.9	
11	0.808	0.1632	494.2	485.1	76.7	10.0	66.7	828.3	843.8	100.5	
10	0.836	0.1747	511.3	503.5	82.2	10.0	72.2	913.1	927.2	99.9	
9	0.860	0.1849	526.0	519.5	88.7	10.0	78.7	1016.5	1029.2	99.3	
8	0.888	0.1971	543.1	537.8	95.4	10.0	85.4	1145.6	1156.8	98.5	
7	0.912	0.2079	557.8	553.6	103.0	10.0	93.0	1311.2	1321.1	97.6	
6	0.934	0.2181	571.2	568.1	111.3	10.0	101.3	1531.8	1540.3	96.5	
5	0.953	0.2271	582.9	580.6	120.2	10.0	110.2	1840.2	1847.3	95.1	
4	0.969	0.2347	592.6	591.2	129.7	10.0	119.7	2302.4	2308.0	93.3	
3	0.983	0.2416	601.2	600.4	139.5	10.0	129.5	3072.1	3076.3	90.9	
2	0.990	0.2450	605.5	605.1	149.9	10.0	139.9	4610.4	4613.2	87.5	
1	0.997	0.2485	609.8	609.7	160.4	10.0	150.4	9223.7	9225.1	81.5	
0	1.000	0.2500	611.6	611.6	171.0	10.0	161.0	----	----	----	
			Min:		17.5	Min:		7.5	Max:		104.7

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.		Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature		Date 7/8/2016	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 207 OLD DOMINION ROAD			
City YORKTOWN		State or Country (if foreign address) VA	Zip Code 23692 -
Telephone Number (include area code) 7036509600		E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Section III-A - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: 249

2. Primary Station:

Facility ID Number	Call Sign	City	State
9415	KVOL	LAFAYETTE	LA

3. Delivery Method (Select One):
 Off-air Microwave Satellite Via Other

4. Antenna Location Coordinates: (NAD 27)

Latitude:
 Degrees 30 Minutes 20 Seconds 32 North South

Longitude:
 Degrees 91 Minutes 57 Seconds 46 West East

5. Antenna Structure Registration Number: 1251823
 Not Applicable Notification filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: 7 meters

7. Overall Tower Height Above Ground Level: 320 meters

8. Height of Radiation Center Above Ground Level: 171 meters(H) 171 meters(V)

9. Effective Radiated Power: 0.25 kW(H) 0.25 kW(V)

10. Transmitting Antenna:
 Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under [CDBS Public Access](http://licensing.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm) (http://licensing.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm). Make sure that the Standard Pattern is marked Yes and that the relative field values shown match your values. Enter the Manufacturer (Make) and Model exactly as displayed in the Antenna Search.
 Nondirectional Directional Off-the Shelf Directional composite
 Manufacturer BEX Model TFC2K 2 BAY
 Rotation:degrees No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0		10		20		30		40		50	
60		70		80		90		100		110	
120		130		140		150		160		170	
180		190		200		210		220		230	
240		250		260		270		280		290	
300		310		320		330		340		350	
Additional Azimuths											

[Relative Field Polar Plot](#)

11. For FM Boosters and Fill-in translators only.

a. FM Fill-in translators. Applicant certifies that the FM translator's (a) coverage contour does not extend beyond the protected contour of the commercial FM primary station to be rebroadcast, or (b) entire 60 dBu contour is contained within the lesser of: (i) the 2 mV/m Yes No N/A

	<p>daytime contour of the AM primary station to be rebroadcast, or (ii) a 25-mile radius centered at the AM primary station's transmitter site.</p> <p>b. FM Boosters. Applicant certifies that the FM Booster station's service contour is entirely within the primary station's protected coverage contour.</p>	<p>See Explanation in [Exhibit 10]</p> <p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 11]</p>
12.	<p>Interference. The proposed facility complies with all of the following applicable rule sections. Check all that apply:</p> <p>Overlap Requirements. <input checked="" type="checkbox"/> a) 47 C.F.R. Section 74.1204 Exhibit Required.</p> <p>Television Channel 6 Protection. <input type="checkbox"/> b) 47 C.F.R. Section 74.1205 with respect to station(s) Exhibit Required.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 12]</p> <p>[Exhibit 13]</p> <p>[Exhibit 14]</p>
13.	<p>Unattended operation. Applicant certifies that unattended operation is not proposed, or if this application proposes unattended operation, the applicant certifies that it will comply with the requirements of 47 C.F.R. Section 74.1234.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 15]</p>
14.	<p>Multiple Translators. Applicant certifies that it does not have any interest in an application or an authorization for an FM translator station that serves substantially the same area and rebroadcasts the same signal as the proposed FM translator station.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 16]</p>
15.	<p>Environmental Protection Act. Applicant certifies that the proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an Exhibit is required.</p> <p>By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 17]</p>