

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 18A

Norco, LA

Channel Study

REFERENCE		CH# 216C2- 91.1 MHz, Pwr= 46 kW DA, HAAT= 106.0 M, COR= 106 M								DISPLAY DATES	
29 49 33.0 N.		Average Protected F(50-50)= 45.1 km								DATA	06-18-12
90 25 44.0 W.		Standard Directional								SEARCH	06-18-12
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
216A Norco	WNKV	LIC	VX LA	158.3 338.3	1.95 BLED20070820AGM	29 48 34.0 90 25 17.0	4.700 70	77.0 70	22.7 Educational Media Foundati	-120.2*	-150.4*
*216A Baton Rouge	KLSU	LIC	CX LA	312.3 131.9	96.92 BLED20120531AJV	30 24 37.0 91 10 37.0	5.700 49	76.7 58	21.2 Louisiana State University	-0.9	9.3
217C3 Slidell	WGON	CP	DEX LA	34.4 214.6	95.65 BNPED20071016ABC	30 32 09.0 89 51 52.0	23.000 85	56.5 100	36.0 Crisis Pregnancy Help Cent	-0.1	-0.5
**214C1 New Orleans	WWOZ	CP	DCX LA	66.8 246.9	37.11 BPED20091027AEG	29 57 25.0 90 04 31.0	100.000 148	3.5 148	36.2 Friends Of Wwoz, Inc.	-11.5*	-4.0
**214C3 New Orleans	WWOZ	LIC	CN LA	66.8 247.0	37.10 BLED19911108KE	29 57 24.0 90 04 31.0	4.000 155	2.9 155	31.3 Friends Of Wwoz, Inc.	-10.8*	0.8
***218A New Orleans	WTUL	LIC	CN LA	67.2 247.4	32.46 BLED1576	29 56 18.0 90 07 07.0	1.500 49	1.6 49	14.1 Tulane Educational Fund	-14.2*	13.4
213A Thibodaux	KTLN	LIC	VN LA	251.0 70.8	35.48 BLED19950602KA	29 43 18.0 90 46 33.0	0.200 109	1.0 109	12.7 University Of New Orleans	0.4	19.4
218A Thibodaux	KNSU	LIC	V LA	264.0 83.8	36.26 BMLD19970922KA	29 47 29.0 90 48 07.0	0.250 45	1.1 46	8.8 Nicholls State University	5.0	24.5
270C0 New Orleans	WLMG«	LIC	C LA	74.9 255.1	40.41 BMLH20031124APG	29 55 11.0 90 01 29.0	100.000 300	9.2 300	43.1 Entercom New Orleans Licen	30.5R	9.9M
215A Hammond	KSLU	LIC	CN LA	357.3 177.3	76.44 BLED19850610KA	30 30 53.0 90 27 59.0	3.000 43	26.3 56	17.9 Southeastern Louisiana Uni	20.5	12.7
214C2 White Castle	KPEF	CP	DCX LA	280.5 100.1	77.65 BMPED20111222AAO	29 57 01.0 91 13 12.0	42.000 116	1.9 116	21.5 Providence Educational Fou	50.5	53.7

Terrain database is 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= - Zone 2, 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)

***affixed to 'IN' or 'OUT' values = site inside protected contour.

« = Station meets FCC minimum distance spacing for its class.

* NOTE: KLSU has been granted a license that causes interference to the existing WNKV licensed facility. (see Exhibit 18A-1) In order to protect the existing license of WNKV, KLSU must reduce to an ERP of 5.4kw. The facility proposed herein protects KLSU at an ERP of 5.4kw (see Exhibit 18A-1a).

** NOTE: WWOZ (BPED-20091027AEG) has been permitted to both receive and cause interference to WNKV.

*** NOTE: WNKV has previously been authorized to receive interference from WTUL.

Exhibit 18A-1

WNKV.P

Latitude: 29-49-33 N
Longitude: 090-25-44 W
ERP: 46.00 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 106.0 m
Horiz. Pattern: Directional

WNKV

BLED20070820AGM
Latitude: 29-48-34 N
Longitude: 090-25-17 W
ERP: 4.70 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 70.0 m
Horiz. Pattern: Omni

KLSU

BLED20120531AJV
Latitude: 30-24-37 N
Longitude: 091-10-37 W
ERP: 5.70 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 58.0 m
Horiz. Pattern: Omni

KLSU 5.4kw

BLED20120531AJV
Latitude: 30-24-37 N
Longitude: 091-10-37 W
ERP: 5.40 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 58.0 m
Horiz. Pattern: Omni

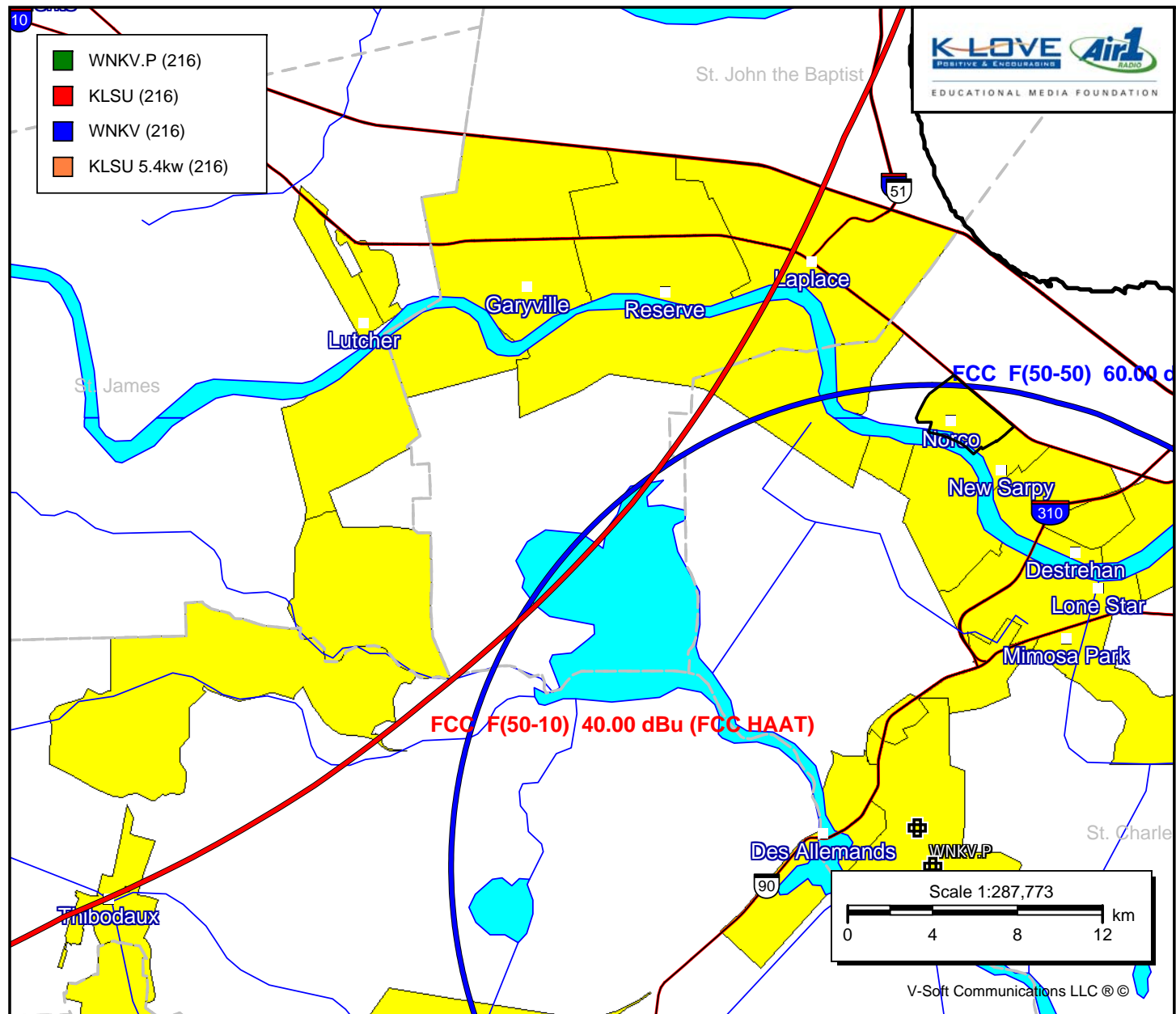


Exhibit 18A-1a

WNKV.P

Latitude: 29-49-33 N
Longitude: 090-25-44 W
ERP: 46.00 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 106.0 m
Horiz. Pattern: Directional

WNKV

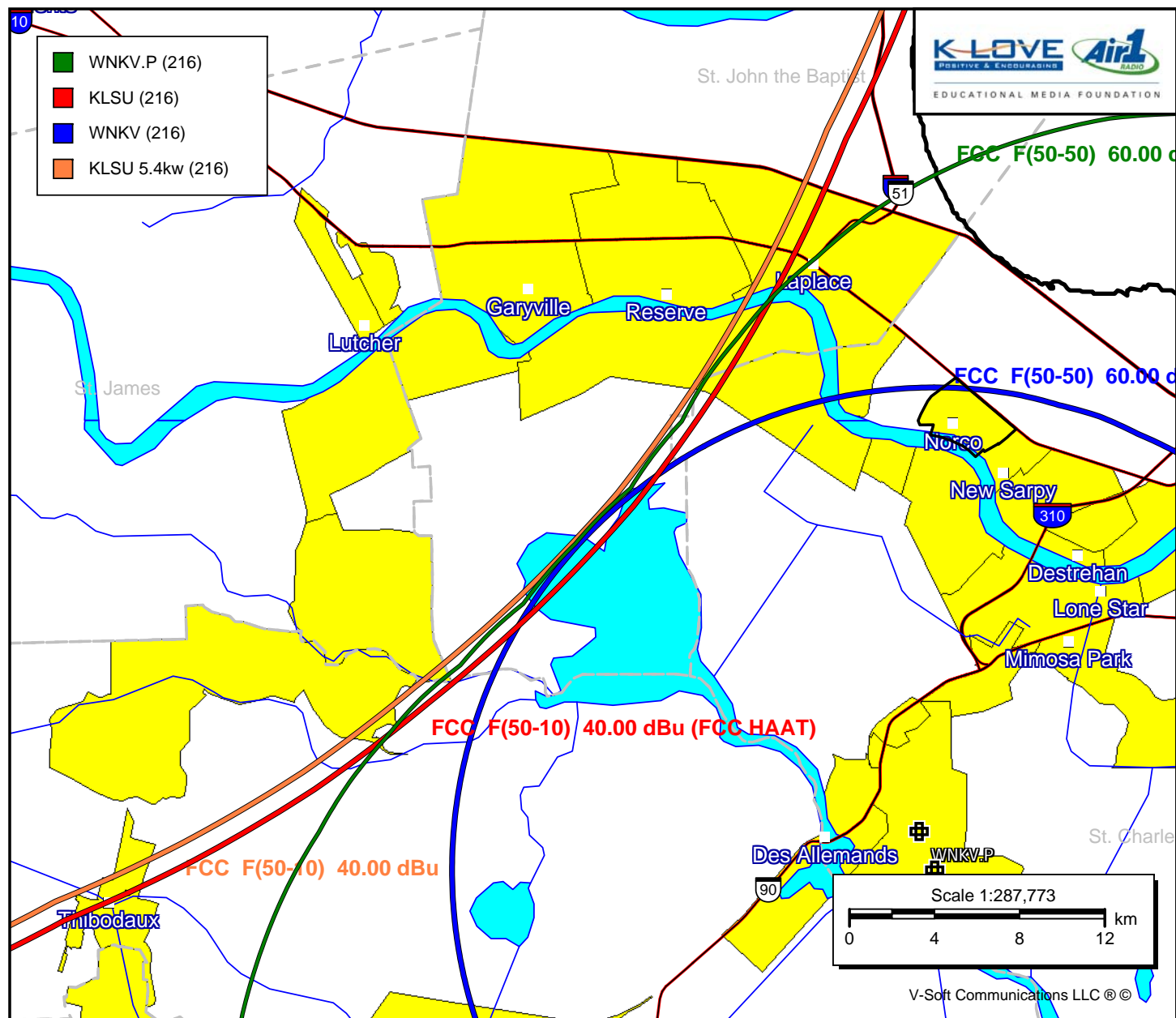
BLED20070820AGM
Latitude: 29-48-34 N
Longitude: 090-25-17 W
ERP: 4.70 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 70.0 m
Horiz. Pattern: Omni

KLSU

BLED20120531AJV
Latitude: 30-24-37 N
Longitude: 091-10-37 W
ERP: 5.70 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 58.0 m
Horiz. Pattern: Omni

KLSU 5.4kw

BLED20120531AJV
Latitude: 30-24-37 N
Longitude: 091-10-37 W
ERP: 5.40 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 58.0 m
Horiz. Pattern: Omni



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Exhibit 18A-1b

Norco, LA

KLSU vs. WNKV.P

06-18-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

WNKV

KLSU BLED20120531AJV

Channel = 216A
Max ERP = 4.7 kW
RCAMSL = 70 M
N. Lat. 29 48 34.0
W. Lng. 90 25 17.0
Protected
60 dBu

Channel = 216A
Max ERP = 5.4 kW
RCAMSL = 58 M
N. Lat. 30 24 37.0
W. Lng. 91 10 37.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
280.0	004.7000	0070.0	022.7	141.2	005.4000	0053.7	080.5	38.81	
281.0	004.7000	0070.0	022.7	140.9	005.4000	0053.7	080.2	38.87	
282.0	004.7000	0070.0	022.7	140.7	005.4000	0053.7	080.0	38.93	
283.0	004.7000	0070.0	022.7	140.5	005.4000	0053.8	079.7	38.99	
284.0	004.7000	0070.0	022.7	140.3	005.4000	0053.8	079.5	39.05	
285.0	004.7000	0070.0	022.7	140.0	005.4000	0053.8	079.2	39.11	
286.0	004.7000	0070.0	022.7	139.8	005.4000	0053.8	079.0	39.16	
287.0	004.7000	0070.0	022.7	139.6	005.4000	0053.8	078.8	39.22	
288.0	004.7000	0070.0	022.7	139.3	005.4000	0053.9	078.6	39.27	
289.0	004.7000	0070.0	022.7	139.1	005.4000	0053.9	078.4	39.32	
290.0	004.7000	0070.0	022.7	138.8	005.4000	0053.9	078.2	39.37	
291.0	004.7000	0070.0	022.7	138.6	005.4000	0053.9	078.0	39.42	
292.0	004.7000	0070.0	022.7	138.3	005.4000	0054.0	077.8	39.46	
293.0	004.7000	0070.0	022.7	138.0	005.4000	0054.0	077.7	39.50	
294.0	004.7000	0070.0	022.7	137.8	005.4000	0054.0	077.5	39.55	
295.0	004.7000	0070.0	022.7	137.5	005.4000	0054.0	077.3	39.58	
296.0	004.7000	0070.0	022.7	137.2	005.4000	0054.1	077.2	39.62	
297.0	004.7000	0070.0	022.7	137.0	005.4000	0054.1	077.0	39.66	
298.0	004.7000	0070.0	022.7	136.7	005.4000	0054.1	076.9	39.69	
299.0	004.7000	0070.0	022.7	136.4	005.4000	0054.2	076.8	39.72	
300.0	004.7000	0070.0	022.7	136.1	005.4000	0054.2	076.7	39.75	
301.0	004.7000	0070.0	022.7	135.8	005.4000	0054.2	076.6	39.78	
302.0	004.7000	0070.0	022.7	135.6	005.4000	0054.3	076.5	39.81	
303.0	004.7000	0070.0	022.7	135.3	005.4000	0054.3	076.4	39.83	
304.0	004.7000	0070.0	022.7	135.0	005.4000	0054.3	076.3	39.85	
305.0	004.7000	0070.0	022.7	134.7	005.4000	0054.4	076.2	39.87	
306.0	004.7000	0070.0	022.7	134.4	005.4000	0054.4	076.2	39.89	
307.0	004.7000	0070.0	022.7	134.1	005.4000	0054.4	076.1	39.91	
308.0	004.7000	0070.0	022.7	133.8	005.4000	0054.5	076.1	39.92	
309.0	004.7000	0070.0	022.7	133.5	005.4000	0054.5	076.0	39.93	
310.0	004.7000	0070.0	022.7	133.2	005.4000	0054.5	076.0	39.94	
311.0	004.7000	0070.0	022.7	132.9	005.4000	0054.5	076.0	39.94	
312.0	004.7000	0070.0	022.7	132.6	005.4000	0054.6	076.0	39.95	
313.0	004.7000	0070.0	022.7	132.3	005.4000	0054.6	076.0	39.95	
314.0	004.7000	0070.0	022.7	132.0	005.4000	0054.6	076.0	39.95	
315.0	004.7000	0070.0	022.7	131.7	005.4000	0054.6	076.0	39.94	
316.0	004.7000	0070.0	022.7	131.4	005.4000	0054.6	076.0	39.94	
317.0	004.7000	0070.0	022.7	131.1	005.4000	0054.6	076.1	39.93	
318.0	004.7000	0070.0	022.7	130.8	005.4000	0054.6	076.1	39.92	
319.0	004.7000	0070.0	022.7	130.5	005.4000	0054.6	076.2	39.90	
320.0	004.7000	0070.0	022.7	130.2	005.4000	0054.6	076.2	39.89	
321.0	004.7000	0070.0	022.7	129.9	005.4000	0054.6	076.3	39.87	
322.0	004.7000	0070.0	022.7	129.6	005.4000	0054.6	076.4	39.85	

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Exhibit 18A-1b

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323.0	004.7000	0070.0	022.7	129.4	005.4000	0054.6	076.5	39.83
324.0	004.7000	0070.0	022.7	129.1	005.4000	0054.5	076.6	39.80
325.0	004.7000	0070.0	022.7	128.8	005.4000	0054.5	076.7	39.77
326.0	004.7000	0070.0	022.7	128.5	005.4000	0054.4	076.8	39.74
327.0	004.7000	0070.0	022.7	128.2	005.4000	0054.4	076.9	39.71
328.0	004.7000	0070.0	022.7	127.9	005.4000	0054.3	077.0	39.68
329.0	004.7000	0070.0	022.7	127.7	005.4000	0054.3	077.2	39.64
330.0	004.7000	0070.0	022.7	127.4	005.4000	0054.2	077.3	39.60
331.0	004.7000	0070.0	022.7	127.1	005.4000	0054.2	077.5	39.56
332.0	004.7000	0070.0	022.7	126.8	005.4000	0054.1	077.6	39.51
333.0	004.7000	0070.0	022.7	126.6	005.4000	0054.0	077.8	39.47
334.0	004.7000	0070.0	022.7	126.3	005.4000	0054.0	078.0	39.42
335.0	004.7000	0070.0	022.7	126.1	005.4000	0053.9	078.2	39.37
336.0	004.7000	0070.0	022.7	125.8	005.4000	0053.9	078.4	39.32
337.0	004.7000	0070.0	022.7	125.6	005.4000	0053.8	078.6	39.27
338.0	004.7000	0070.0	022.7	125.3	005.4000	0053.8	078.8	39.22
339.0	004.7000	0070.0	022.7	125.1	005.4000	0053.7	079.0	39.16
340.0	004.7000	0070.0	022.7	124.8	005.4000	0053.7	079.2	39.11
341.0	004.7000	0070.0	022.7	124.6	005.4000	0053.6	079.5	39.05
342.0	004.7000	0070.0	022.7	124.4	005.4000	0053.6	079.7	38.99
343.0	004.7000	0070.0	022.7	124.2	005.4000	0053.5	079.9	38.93
344.0	004.7000	0070.0	022.7	123.9	005.4000	0053.5	080.2	38.86
345.0	004.7000	0070.0	022.7	123.7	005.4000	0053.4	080.4	38.80
346.0	004.7000	0070.0	022.7	123.5	005.4000	0053.4	080.7	38.73
347.0	004.7000	0070.0	022.7	123.3	005.4000	0053.4	081.0	38.67
348.0	004.7000	0070.0	022.7	123.1	005.4000	0053.3	081.3	38.60
349.0	004.7000	0070.0	022.7	122.9	005.4000	0053.3	081.5	38.53
350.0	004.7000	0070.0	022.7	122.7	005.4000	0053.2	081.8	38.46

Relationship between the proposed facility and WGON.CP

The proposed WNKV facility both receives and causes prohibited overlap with the protected and interfering contours of WGON.C. As can be seen in the attached map, Exhibit 18A-2a, the areas of overlap occur entirely over water.

Thus, the proposed facility complies with 47 C.F.R. 73.509(e).

Exhibit 18A-2a

WNVK.P

Latitude: 29-49-33 N
Longitude: 090-25-44 W
ERP: 46.00 kW
Channel: 216
Frequency: 91.1 MHz
AMSL Height: 106.0 m
Horiz. Pattern: Directional

WGON.C

BNPED20071016ABC
Latitude: 30-32-09 N
Longitude: 089-51-52 W
ERP: 23.00 kW
Channel: 217
Frequency: 91.3 MHz
AMSL Height: 100.0 m
Horiz. Pattern: Directional

