

**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

**EXHIBIT A**

**Shortspaced Facilities Utilizing Section 73.215**

The proposed KNUF antenna location for Channel 221C3 will be shortspaced to the pending application for a new station on Channel 220C1 at Kaplan, Louisiana. The detailed spacing information with regard to this application is shown on Exhibit A1. Apex Broadcasting, Inc., proposes to use the provisions of §73.215 of the Commission's rules to address this shortspace. The shortage to this facility complies with §73.215(e) of the Commission's rules.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed KNUF and applied for new station on Channel 220C1 at Kaplan, Louisiana ("Kaplan"). Attached as Exhibits A3 and A4 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed KNUF and applied for Kaplan. The contours of Kaplan are based on its proposed facilities, since it is seeking processing pursuant to §73.215 of the rules. Further, attached as Exhibit A5 are the tabulated and protected contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities.

**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

**EXHIBIT A1**

Clearance study for KNUF De Quincy, Louisiana  
Using proposed site as reference

REFERENCE	CLASS = C3	DISPLAY DATES
30 28 47 N		DATA 11-21-03
93 28 51 W	Current Spacings	SEARCH 12-01-03
----- Channel 221 - 92.1 MHz -----		

Call	Channel N. Lat.	Location W. Lng.	Ant	Dist Power	Azi	FCC HAAT	Margin
<b>ALOPEN</b>	<b>RSV 221C3</b>	<b>Dequincy</b>		<b>LA 4.99</b>	<b>134.4</b>	<b>153.0</b>	<b>-148.01</b>
	<b>30 26 54</b>	<b>93 26 37</b>		<b>25.000 kW</b>	<b>100 M</b>		
	<b>&gt; Reserved for KNUF per MM Docket #02-56</b>						
<b>KNUF</b>	<b>LIC 221C3</b>	<b>De Ridder</b>		<b>LA 36.60</b>	<b>358.4</b>	<b>153.0</b>	<b>-116.40</b>
	<b>30 48 35</b>	<b>93 29 29</b>		<b>12.000 kW</b>	<b>143 M</b>		
	<b>Apex Broadcasting, Inc.</b>			<b>BMLH-20010921AAF</b>			
* 961023	APP-Z 220C1	Kaplan		LA 137.06	110.3	144.0	-6.94
	30 02 42	92 08 51 ZCY		100.000 kW	136 M		
	North Alabama Educational			BPED-19961023MA			
KBAN.C	CP 218C3	De Ridder		LA 45.49	67.4	43.0	2.49
	30 38 10	93 02 33 CX		14.000 kW	110 M		
	American Family Association			BPED-20020510AAT			
KOJO	LIC 219A	Lake Charles		LA 46.34	120.2	42.0	4.34
	30 16 10	93 03 51 CN		1.850 kW	127 M		
	Radio Maria, Inc.			BLED-19960826KC			
KCOLFM	LIC 223C2	Groves		TX 63.19	217.7	56.0	7.19
	30 01 45	93 52 59 CN		50.000 kW	134 M		
	Voice In The Wilderness			BLH-19901113KD			
KLIL	LIC-N 221A	Moreauville		LA 155.46	65.6	142.0	13.46
	31 02 53	91 59 47 NCN		6.000 kW	91 M		
	Cajun Broadcasting, Inc.			BLH-19950515KB			
KRTS	LIC-N 221C1	Seabrook		TX 226.80	234.3	211.0	15.80
	29 16 33	95 22 45 NCN		50.000 kW	299 M		
	KRTS, Inc.			BLH-19970920KW			
KETXFM	LIC-Z 222C2	Livingston		TX 141.32	282.1	117.0	24.32
	30 44 18	94 55 26 ZCN		32.000 kW	185 M		
	Lone Star Network			BLH-19910923KA			
961023	APP 220C2	Kaplan		LA 141.81	114.0	117.0	24.81
	29 57 14	92 08 17 CN		50.000 kW	100 M		
	North Alabama Educational			BPED-19961023MA			
RADD	ADD 222A	Boyce		LA 114.71	35.9	89.0	25.71
	31 18 54	92 46 22		6.000 kW	100 M		
KAVX	LIC 220C2	Lufkin		TX 148.72	312.0	117.0	31.72
	31 22 08	94 38 45 CN		23.000 kW	222 M		
	Lufkin Ed Broadcasting Fnd.			BLED-19981120KC			

\* Note: This shortage is addressed under §73.215 of the rules. See Exhibit A.



**KNUF Proposed**

Latitude: 30-28-47 N  
Longitude: 093-28-51 W  
ERP: 25.00 kW  
Channel: 221C3  
AMSL Height: 120.02 m

**Graham Brock, Inc. - Broadcast Technical Consultants****Kaplan C1**

BPED-19961023MA  
Latitude: 30-02-42 N  
Longitude: 092-08-51 W  
ERP: 100.00 kW  
Channel: 220C1  
AMSL Height: 141.0 m

**KNUF 54 dBu (50/10)****KAPLAN 54 dBu (50/10)****KNUF 60 dBu (50/50)****KAPLAN 60 dBu (50/50)**

**EXHIBIT A2**  
**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221 C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

Scale 1:1,500,000

0 20 40 60 km



**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

**EXHIBIT A3**

KNUF - Proposed  
Channel = 221C3  
Max ERP = 25 kW  
RCAMSL = 120 M  
N. Lat = 30 28 47  
W. Lng = 93 28 51

Kaplan, LA - BPED-19961023MA  
Channel = 220C1  
Max ERP = 100 kW  
RCAMSL = 141 M  
N. Lat = 30 02 42  
W. Lng = 92 08 51

Protected  
60 dBu

Interfering  
54 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	025.0000	0104.3	039.8	297.1	025.1001	0140.9	099.3	44.5
096.0	025.0000	0104.4	039.8	296.7	025.1001	0140.9	099.1	44.6
097.0	025.0000	0104.4	039.8	296.4	025.1001	0140.9	098.9	44.6
098.0	025.0000	0104.4	039.8	296.0	025.1001	0140.9	098.6	44.7
099.0	025.0000	0104.4	039.8	295.6	025.1001	0140.9	098.4	44.7
100.0	025.0000	0104.7	039.8	295.2	025.1001	0140.9	098.2	44.8
101.0	025.0000	0105.0	039.9	294.8	025.1001	0140.9	098.0	44.9
102.0	025.0000	0105.2	039.9	294.4	025.1001	0140.8	097.8	44.9
103.0	025.0000	0105.4	039.9	294.0	025.1001	0140.8	097.7	44.9
104.0	025.0000	0105.4	040.0	293.6	025.1001	0140.8	097.5	45.0
105.0	025.0000	0105.5	040.0	293.2	025.1001	0140.8	097.4	45.0
106.0	025.0000	0105.6	040.0	292.8	025.1001	0140.8	097.3	45.0
107.0	025.0000	0105.6	040.0	292.4	025.1001	0140.7	097.2	45.0
108.0	025.0000	0105.7	040.0	292.0	025.1001	0140.7	097.2	45.1
109.0	025.0000	0105.7	040.0	291.6	025.1001	0140.7	097.2	45.1
110.0	025.0000	0105.8	040.0	291.1	025.1001	0140.7	097.1	45.1
111.0	025.0000	0105.8	040.0	290.7	025.1001	0140.7	097.1	45.1
112.0	025.0000	0105.9	040.0	290.3	025.1001	0140.6	097.1	45.1
113.0	025.0000	0106.0	040.0	289.9	025.1001	0140.6	097.2	45.1
114.0	025.0000	0106.1	040.1	289.5	025.1001	0140.6	097.2	45.1
115.0	025.0000	0106.3	040.1	289.1	025.1001	0140.6	097.2	45.0
116.0	025.0000	0106.5	040.1	288.7	025.1001	0140.6	097.3	45.0
117.0	025.0000	0106.7	040.2	288.2	025.1001	0140.6	097.4	45.0
118.0	025.0000	0107.0	040.2	287.8	025.1001	0140.6	097.4	45.0
119.0	025.0000	0107.3	040.2	287.4	025.1001	0140.5	097.5	45.0
120.0	025.0000	0107.6	040.3	287.0	025.1001	0140.5	097.7	44.9
121.0	025.0000	0107.8	040.3	286.6	025.1001	0140.5	097.8	44.9
122.0	025.0000	0107.9	040.3	286.2	025.1001	0140.5	098.0	44.8
123.0	025.0000	0107.9	040.3	285.8	025.1001	0140.5	098.2	44.8
124.0	025.0000	0107.8	040.3	285.4	025.1001	0140.5	098.4	44.7
125.0	025.0000	0107.7	040.3	285.0	025.1001	0140.5	098.7	44.7
126.0	025.0000	0107.7	040.3	284.7	025.1001	0140.5	098.9	44.6
127.0	025.0000	0107.7	040.3	284.3	025.1001	0140.5	099.2	44.5
128.0	025.0000	0107.8	040.3	283.9	025.1001	0140.5	099.5	44.5
129.0	025.0000	0107.9	040.3	283.5	025.1001	0140.5	099.8	44.4
130.0	025.0000	0107.8	040.3	283.2	025.1001	0140.6	100.1	44.3
131.0	025.0000	0107.7	040.3	282.8	025.1001	0140.6	100.4	44.2
132.0	025.0000	0107.6	040.3	282.5	025.1001	0140.6	100.8	44.1
133.0	025.0000	0107.5	040.3	282.1	025.1001	0140.6	101.2	44.0
134.0	025.0000	0107.4	040.3	281.8	025.1001	0140.6	101.5	43.9
135.0	025.0000	0107.3	040.2	281.5	025.1001	0140.6	101.9	43.8

**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

**EXHIBIT A4**

Kaplan, LA - BPED-19961023MA  
Channel = 220C1  
Max ERP = 100 kW  
RCAMSL = 141 M  
N. Lat = 30 02 42  
W. Lng = 92 08 51

KNUF - Proposed  
Channel = 221C3  
Max ERP = 25 kW  
RCAMSL = 120 M  
N. Lat = 30 28 47  
W. Lng = 93 28 51

Protected  
60 dBu

Interfering  
54 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
270.0	039.8161	0140.6	048.9	121.2	025.0000	0107.8	092.9	44.8
271.0	038.1924	0140.6	048.5	120.6	025.0000	0107.8	092.8	44.9
272.0	036.6025	0140.7	048.1	120.0	025.0000	0107.6	092.7	44.9
273.0	035.0464	0140.8	047.7	119.5	025.0000	0107.3	092.7	44.9
274.0	033.5241	0140.8	047.3	118.9	025.0000	0107.3	092.7	44.9
275.0	032.0356	0140.8	046.9	118.3	025.0000	0107.0	092.7	44.9
276.0	030.5809	0140.8	046.5	117.8	025.0000	0107.0	092.8	44.9
277.0	029.1600	0140.7	046.1	117.2	025.0000	0106.7	092.9	44.8
278.0	027.7729	0140.7	045.7	116.6	025.0000	0106.7	093.0	44.8
279.0	026.4196	0140.6	045.2	116.1	025.0000	0106.5	093.2	44.7
280.0	025.1001	0140.6	044.8	115.5	025.0000	0106.5	093.4	44.7
281.0	025.1001	0140.6	044.8	115.1	025.0000	0106.3	093.2	44.7
282.0	025.1001	0140.6	044.8	114.6	025.0000	0106.3	093.0	44.8
283.0	025.1001	0140.6	044.8	114.1	025.0000	0106.1	092.8	44.8
284.0	025.1001	0140.5	044.8	113.7	025.0000	0106.1	092.7	44.8
285.0	025.1001	0140.5	044.8	113.2	025.0000	0106.0	092.6	44.9
286.0	025.1001	0140.5	044.8	112.7	025.0000	0106.0	092.4	44.9
287.0	025.1001	0140.5	044.8	112.2	025.0000	0105.9	092.4	44.9
288.0	025.1001	0140.6	044.8	111.7	025.0000	0105.9	092.3	44.9
289.0	025.1001	0140.6	044.8	111.2	025.0000	0105.8	092.2	44.9
290.0	025.1001	0140.6	044.8	110.8	025.0000	0105.8	092.2	45.0
291.0	025.1001	0140.7	044.8	110.3	025.0000	0105.8	092.2	45.0
292.0	025.1001	0140.7	044.8	109.8	025.0000	0105.8	092.2	45.0
293.0	025.1001	0140.8	044.8	109.3	025.0000	0105.7	092.2	44.9
294.0	025.1001	0140.8	044.8	108.8	025.0000	0105.7	092.3	44.9
295.0	025.1001	0140.9	044.8	108.3	025.0000	0105.7	092.3	44.9
296.0	025.1001	0140.9	044.8	107.8	025.0000	0105.7	092.4	44.9
297.0	025.1001	0140.9	044.8	107.4	025.0000	0105.6	092.6	44.9
298.0	025.1001	0140.9	044.8	106.9	025.0000	0105.6	092.7	44.8
299.0	025.1001	0140.8	044.8	106.4	025.0000	0105.6	092.9	44.8
300.0	025.1001	0140.7	044.8	105.9	025.0000	0105.6	093.0	44.7
301.0	026.4196	0140.6	045.2	105.4	025.0000	0105.5	092.8	44.8
302.0	027.7729	0140.5	045.6	104.9	025.0000	0105.5	092.6	44.8
303.0	029.1600	0140.4	046.1	104.3	025.0000	0105.4	092.5	44.9
304.0	030.5809	0140.3	046.5	103.7	025.0000	0105.4	092.4	44.9
305.0	032.0356	0140.3	046.9	103.2	025.0000	0105.4	092.3	44.9
306.0	033.5241	0140.2	047.3	102.6	025.0000	0105.4	092.2	44.9
307.0	035.0464	0140.1	047.6	102.0	025.0000	0105.2	092.2	44.9
308.0	036.6025	0140.0	048.0	101.5	025.0000	0105.0	092.2	44.9
309.0	038.1924	0139.8	048.4	100.9	025.0000	0105.0	092.3	44.9
310.0	039.8161	0139.6	048.7	100.3	025.0000	0104.7	092.4	44.9

**MINOR CHANGE APPLICATION**  
**APEX BROADCASTING, INC.**  
**KNUF RADIO STATION**  
**CH 221C3 - 92.1 MHZ - 25.0 KW**  
**DEQUINCY, LOUISIANA**  
**December 2003**

**EXHIBIT A5**

Predicted contours:

N. Lat. = 30 28 47 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 93 28 51 - KNUF Radio Station - DeQuincy, Louisiana

HAAT and Distance to Contour - FCC Method - 30 Arc Second terrain database									
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	28.4	91.6	25.0000	13.98	1.000	37.62	112.13	58.55	3.89
010	28.6	91.4	25.0000	13.98	1.000	37.59	112.10	58.51	3.88
020	29.6	90.4	25.0000	13.98	1.000	37.40	111.92	58.31	3.86
030	26.3	93.7	25.0000	13.98	1.000	38.01	112.52	58.98	3.93
040	26.3	93.7	25.0000	13.98	1.000	38.01	112.52	58.98	3.93
050	25.1	94.9	25.0000	13.98	1.000	38.21	112.72	59.20	3.95
060	18.8	101.2	25.0000	13.98	1.000	39.28	113.84	60.40	4.09
070	16.3	103.7	25.0000	13.98	1.000	39.68	114.29	60.85	4.14
080	15.9	104.1	25.0000	13.98	1.000	39.75	114.36	60.93	4.15
090	16.4	103.6	25.0000	13.98	1.000	39.66	114.27	60.83	4.14
100	15.3	104.7	25.0000	13.98	1.000	39.83	114.46	61.03	4.16
110	14.2	105.8	25.0000	13.98	1.000	40.01	114.66	61.23	4.18
120	12.4	107.6	25.0000	13.98	1.000	40.28	114.98	61.55	4.22
130	12.2	107.8	25.0000	13.98	1.000	40.32	115.02	61.59	4.22
140	13.1	106.9	25.0000	13.98	1.000	40.19	114.87	61.44	4.20
150	12.4	107.6	25.0000	13.98	1.000	40.29	114.98	61.55	4.22
160	10.2	109.8	25.0000	13.98	1.000	40.62	115.37	61.94	4.26
170	9.7	110.3	25.0000	13.98	1.000	40.69	115.47	62.03	4.27
180	9.8	110.2	25.0000	13.98	1.000	40.68	115.44	62.01	4.27
190	10.3	109.7	25.0000	13.98	1.000	40.59	115.35	61.91	4.26
200	12.0	108.0	25.0000	13.98	1.000	40.35	115.06	61.63	4.22
210	13.5	106.5	25.0000	13.98	1.000	40.12	114.79	61.36	4.19
220	14.4	105.6	25.0000	13.98	1.000	39.98	114.63	61.20	4.18
230	14.3	105.7	25.0000	13.98	1.000	39.99	114.64	61.21	4.18
240	20.3	99.7	25.0000	13.98	1.000	39.03	113.58	60.12	4.05
250	22.7	97.3	25.0000	13.98	1.000	38.62	113.15	59.66	4.00
260	25.8	94.2	25.0000	13.98	1.000	38.10	112.61	59.08	3.94
270	24.8	95.2	25.0000	13.98	1.000	38.26	112.77	59.26	3.96
280	25.3	94.7	25.0000	13.98	1.000	38.18	112.69	59.17	3.95
290	26.0	94.0	25.0000	13.98	1.000	38.05	112.56	59.03	3.94
300	27.5	92.5	25.0000	13.98	1.000	37.79	112.30	58.74	3.91
310	27.8	92.2	25.0000	13.98	1.000	37.73	112.24	58.67	3.90
320	28.8	91.2	25.0000	13.98	1.000	37.56	112.07	58.48	3.88
330	28.3	91.7	25.0000	13.98	1.000	37.64	112.15	58.57	3.89
340	28.0	92.0	25.0000	13.98	1.000	37.71	112.22	58.65	3.90
350	27.5	92.5	25.0000	13.98	1.000	37.78	112.29	58.73	3.90

AMSL= 120 M