K211DY SITE CHANGE APPLICATION

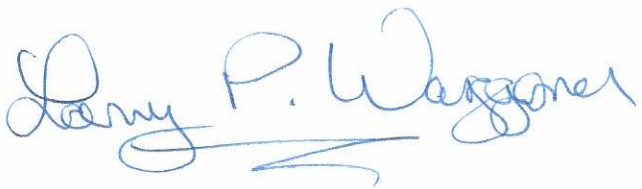
This application proposes to move the K211DY translator to a site that was approved in a 2016 construction permit (BPFT-20160304ABA) That permit expired in March 2019 before the site change move could be accomplished. This application requests the same operating parameters. The CP site still has the same spacings that allowed the original construction permit. There are three short spaced stations. The operating parameters of the three stations have not changed since the original approved 2016 application.

The IF spaced station is KZBL on 100.7 MHZ in Natchitoches, LA. This application also requests an effective radiated power of 99 watts which will protect KZBL, in compliance with Part 74.1204(g) of the Commission's rules.

The other two short spaced stations are KLSA 90.7 MHz in Alexander, LA and KBIO 89.7 MHz in Natchitoches, LA. The vertical angel of radiation from the proposed SWR BK77-3HW three bay, half wave spaced antenna, will provide the protection necessary for the two close spaced station. The radiation angle study, included in the application, details the protection, which is in compliance with Part 74.1204(a)(3).

The site change will be a move to ASR tower number 1272540, a 152.4 meter tall tower, located 4.72 kilometers, on a bearing of 85.9 degrees from the licensed K211DY site.

This K211DY identical site change application is still in compliance with the Commission's Rules and Regulation.



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FM Study for: K211DY Database CDBS - Date: 4/29/2021 31-47-26
Location: NATCHITOCHES, LAChannel Class: 93-04-54
[*] by HAAT indicates calculated as missing in database.
Contours calculated on direct line using 73.509(a)

Call / Status	City, State / Proponent	File Number	Chan	Cl.	Freq	kW / HAAT	Latitude / Longitude	Dist. / Azm.	Required / Clear(km)	Site
	>>>>>>>> Study For Channel 211 90.1 mHz <<<<<<<<									
K211DY	NATCHITOCHES, LA		211	D	90.1	.01	31-47-13	4.7	44	
LIC	Fac. No. 93102	BLFT-20010301ACD				62	93-07-51	265.1	-39.3	SHORT
KLSA	ALEXANDRIA, LA		214	C0	90.7	100	31-33-56	56.5	93	
LIC	Fac. No. 4218	BLED-19861224KB				379	92-32-50	116.1	-36.5	SHORT
KBIO	NATCHITOCHES, LA		209	A	89.7	.1	31-47-13	4.7	29	
LIC	Fac. No. 85510	BLED-20010711ABB				90	93-07-52	265.1	-24.3	SHORT
KZBL	NATCHITOCHES, LA		264	C3	100.7	25	31-48-17	5.7	12	
LIC	Fac. No. 7824	BLH-20020415AAN				84	93-01-27	73.9	-6.3	SHORT
KLXA	ALEXANDRIA, LA		210	A	89.9	3	31-22-40	73.6	47	
LIC	Fac. No. 43156	BLED-19981118KB				100	92-28-27	128.3	26.6	CLEAR
KDAQ	SHREVEPORT, LA		210	C1	89.9	100	32-40-40	126.5	91	
LIC	Fac. No. 4317	BLED-20090805AAQ				284	93-55-30	321.3	35.5	CLEAR
KYLC	LAKE CHARLES, LA		212	C1	90.3	80	30-38-10	128.0	91	
LIC	Fac. No. 87832	BLED-20010509AAL				143	93-02-33	178.3	37.0	CLEAR

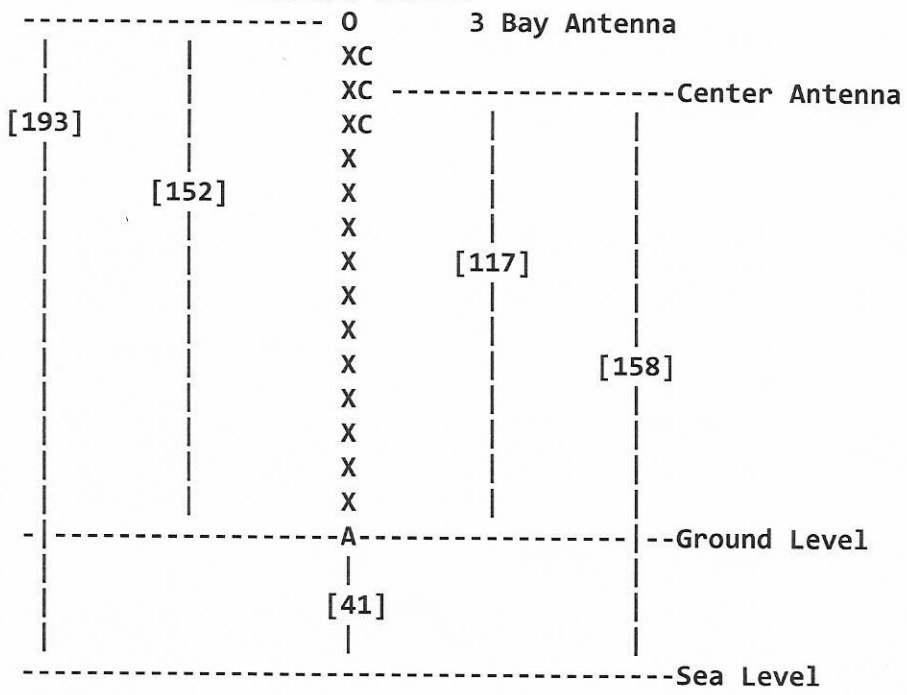
Larry Waggoner 04-30-2021
Project: K211DY
Site Coordinates: 31-47-26 North 93-04-54 West
NGDC 30-Second Database is used in Contnental US
DEM-30 Database is used in AK, HI, and PR.

Azimuth	Elevation	HAAT	60 dBu
0	35	123	11.4 km
30	31	127	11.6 km
60	28	130	11.7 km
90	27	131	11.7 km
120	29	129	11.7 km
150	29	129	11.7 km
180	35	123	11.4 km
210	48	110	10.8 km
240	47	111	10.8 km
270	50	108	10.7 km
300	36	122	11.3 km
330	36	122	11.3 km

	Data in (feet)	meters
Overall Height Above Average Terrain:	(400)	122 *
Site Elevation AMSL:	(135)	41
Antenna Height Above Ground Level:	(383)	117
Antenna Center Above Sea Level:	(518)	158
Overall Ground Average Terrain AMSL:	(118)	36

Effective Radiated Power: 0.0990 kW *
TV/FM Channel: 211

VERTICAL SKETCH



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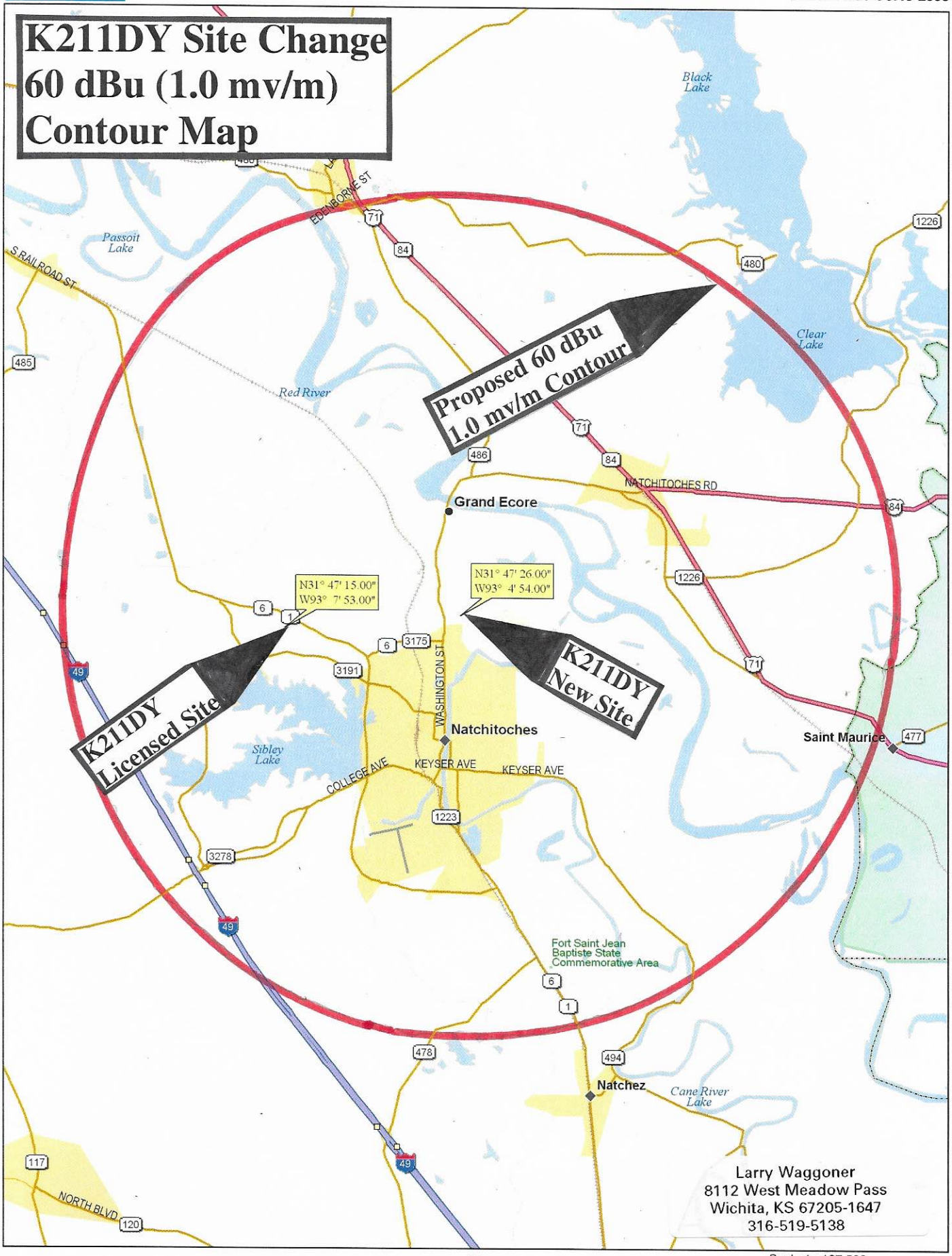
K211DY Site Change 60 dBu (1.0 mv/m) Contour Map



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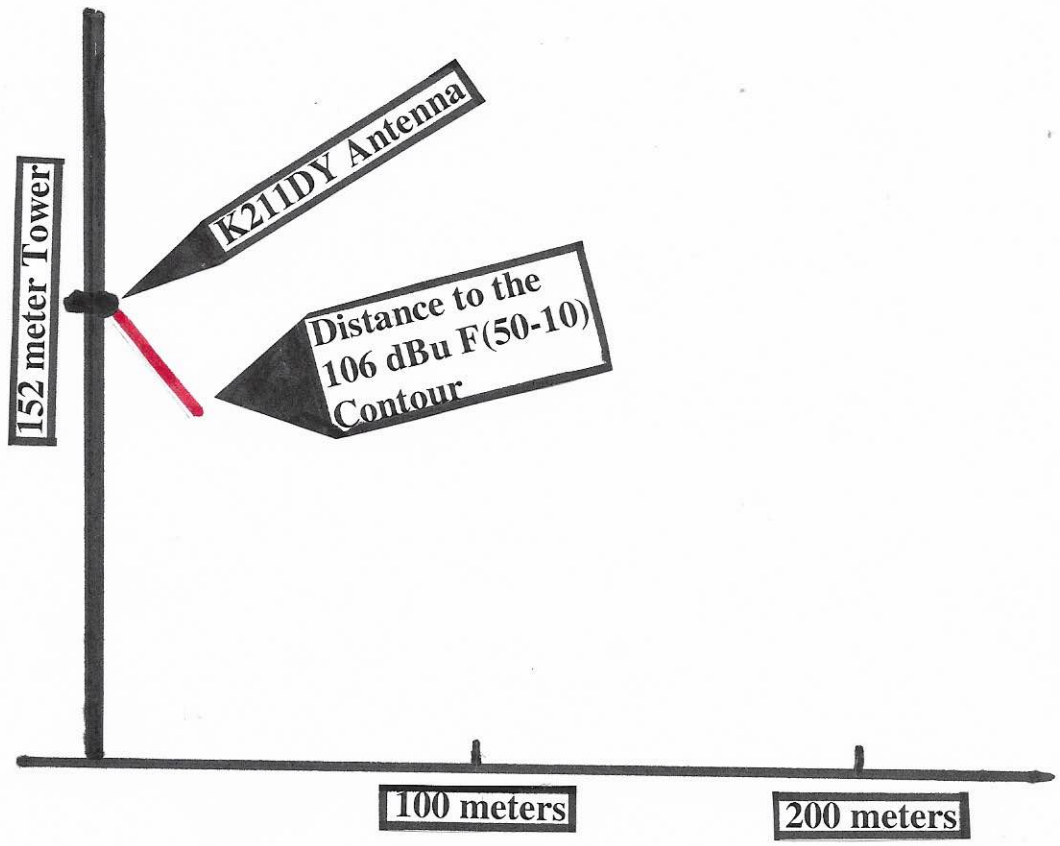
TN
MN (0.5°E)

Scale 1 : 137,500
1 cm = 1.38 km
Data Zoom 10-5

Proposed SWR FMEC Half Waved Spaced 3 Bay Antenna Possible Vertical Interference Data

The proposed S.W.R. FMEC three bay half waved spaced antenna has only one minor vertical radiation lobe 60 degrees down from the main horizon lobe. Two existing stations requiring radiation protection from the new K211DY site were found in the FM Spacing study. They are KLSA in Alexandria, LA and KBIO in Natchitoches, LA. The KLSA signal level at the new K211DY site was calculated to be 69.6 dBu. The KBIO signal level was found to be 66.0 dBu. The possible interference level to KBIO will be the most critical. The proposed K211DY 106 dBu F(50-10) interference level signal will extend to a distance of only 26.4 meters, some eighty plus meters above any possible ground level interference. The 109.7 dBu F(50-10) interference contour will only extend to a distance of 17.5 meters, also well above ground level. Any possible K211DY interference level to either KLSA or KBIO will be within FCC regulations.

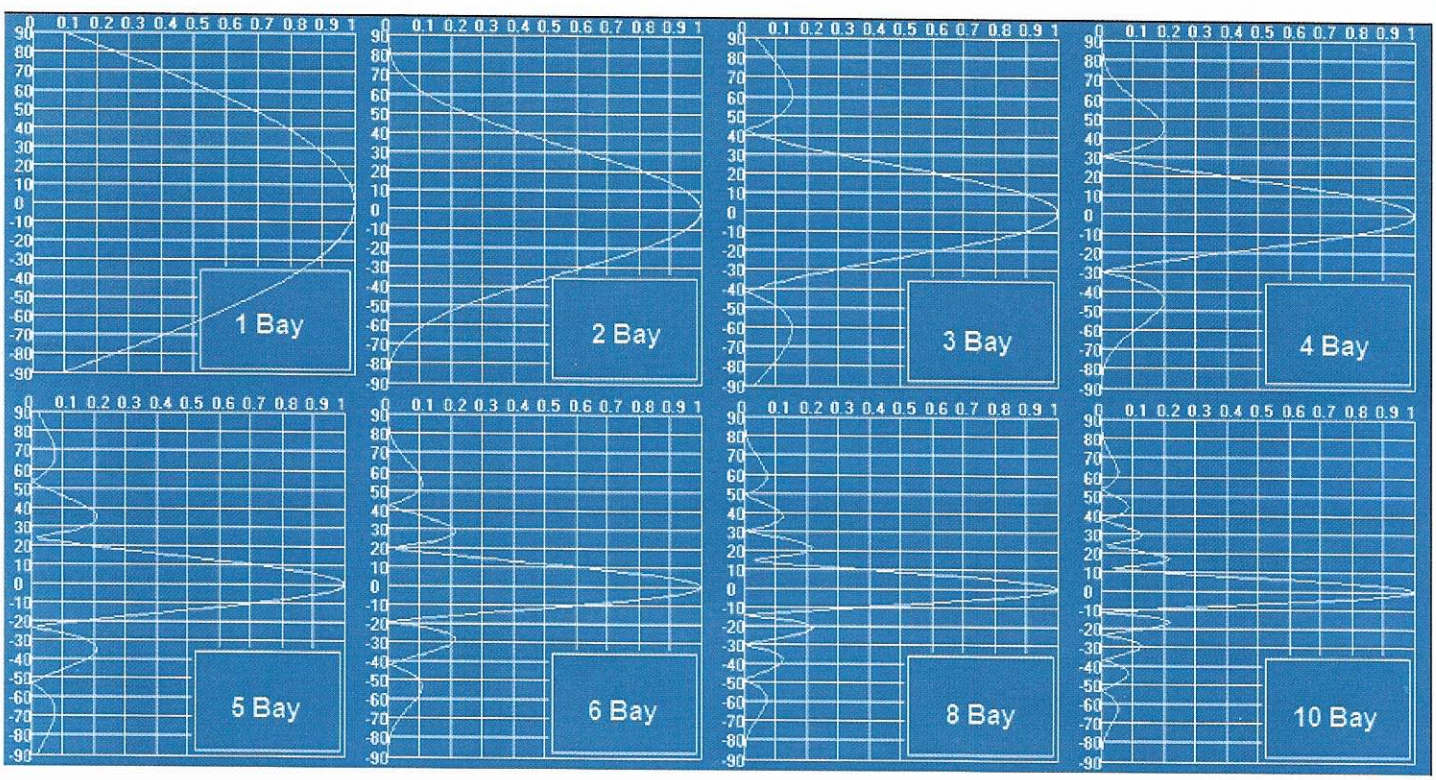


1/2 Wave Spaced Specifications

FMEC SERIES

CIRCULAR POLARIZED
LOW POWER FM ANTENNAS

Bays	Power Rating (watts)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	500	0.441	-3.556	15	35
2	1000	0.695	-1.580	35	85
3	1500	1.012	0.052	50	120
4	2000	1.313	1.183	65	155
5	2000	1.623	2.103	80	190
6	2000	1.924	2.842	95	225
8	2000	2.528	4.028	110	260
10	2000	3.129	4.954	125	295



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