

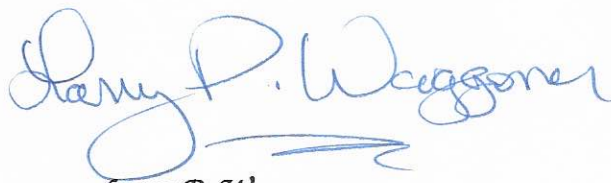
W228EB SITE CHANGE APPLICATION

This application proposes to move the W228EB translator to an existing 61 meter (200') tower licensed to WKIH FM. The translator will broadcast the programming of WXRS AM.

The new site is only 10.83 kilometers from WXRS on a bearing of 129.35 degrees. The translator proposed 1.0 mv/m contour will be inside WXRS 2.0 mv/m contour and the 25 mile or 40.334 km circle drawn around the WXRS tower. The new translator site will be in compliance with the Commission's Rules for AM translators. A map showing the AM contour, the 25 mile line and the translator 1.0 mv/m signal area is attached to this application.

The new translator site is slightly short spaced to first adjacent channel station WZAE in Wadley, Georgia. The existing W228EB construction permit location is 33.2 kilometers distant from WZAE. The proposed new site is 41.7 kilometers distance from WZAE. The distance between the WZAE 60 dBu (1.0 mv/m) contour and the possible translator 54 dB (0.5 mv/m) interference contour has been increased by 8.5 kilometers. A second map has been attached to the application showing the translator and WZAE contour locations.

This application is in compliance with the Commission's Rules.



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FM Study for: W228EB Database CDBS - Date: 4/15/2021

Location: SWAINSBORO, GA Channel Class:

32-29-42

82-15-08

[*] by HAAT indicates calculated as missing in database.

Call	City, State	Chan	Cl.	Freq	kW	Latitude	Dist.	Required	
Status	Proponent	File Number			HAAT	Longitude	Azm.	Clear (km)	Site

>>>>>>> Study For Channel 228 93.5 mHz <<<<<<<<

W228EB	SWAINSBORO, GA	228	D	93.5	.25	32-33-13	10.7	44	
CP	Fac. No. 201677	BNPFT-20171221ADF			29	82-20-33	307.5	-33.3	SHORT
WZAE	WADLEY, GA	227	A	93.3	4	32-50-55	41.7	47	
LIC	Fac. No. 170969	BLED-20100701AUC			44	82-24-10	340.2	-5.3	SHORT
ALLOCR	SAVANNAH, GA	231	C0	94.1		32-02-45	99.2	93	
DEL		RM-0inv-53				81-20-27	119.9	6.2	CLOSE
WQBT	SAVANNAH, GA	231	C0	94.1	100	32-02-45	99.3	93	
LIC	Fac. No. 8594	BMLH-20170223AAE			396	81-20-27	119.9	6.3	CLOSE
W229AJ	CLAXTON, GA	229	D	93.7	.25	32-10-01	49.1	32	
LIC	Fac. No. 145113	BLFT-20120216AAO			86	81-54-07	137.7	17.1	CLEAR
WVOHFM	NICHOLLS, GA	228	C2	93.5	50	31-29-08	119.4	96	
LIC	Fac. No. 30658	BLH-20120713ACY			136	82-41-28	200.4	23.4	CLEAR
WEASF	SPRINGFIELD, GA	226	C1	93.1	100	32-02-45	99.3	73	
LIC	Fac. No. 71366	BLH-20051201CGX			299	81-20-27	119.9	26.3	CLEAR
WDOGFM	ALLENDAL, SC	228	A	93.5	6	33-01-22	104.2	73	
LIC	Fac. No. 24620	BLH-19931108KA			91	81-19-58	55.6	31.2	CLEAR
WPEZ	JEFFERSONVILLE, GA	229	C1	93.7	100	32-45-12	126.3	91	
LIC	Fac. No. 52551	BLH-20020529ABR			207	83-33-46	283.5	35.3	CLEAR
WRBX	REIDSVILLE, GA	281	A	104.1	4.9	32-05-14	46.7	10	
LIC	Fac. No. 73932	BLH-19990603KI			110	82-07-48	165.7	36.7	CLEAR

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04-21-2021

Project: W228EB

Site Coordinates: 32-29-42 North 82-15-08 West

NGDC 30-Second Database is used in Continental US

DEM-30 Database is used in AK, HI, and PR.

Azimuth	Elevation	HAAT	60 dBu
0	73	50	9.3 km
30	79	44	8.6 km
60	72	51	9.4 km
90	72	51	9.4 km
120	66	57	9.9 km
150	70	53	9.5 km
180	51	72	11.0 km
210	58	65	10.5 km
240	63	60	10.1 km
270	70	53	9.5 km
300	71	52	9.4 km
330	83	40	8.2 km

Data in (feet) meters

Overall Height Above Average Terrain: (177) 54 *

Site Elevation AMSL: (262) 80

Antenna Height Above Ground Level: (142) 43

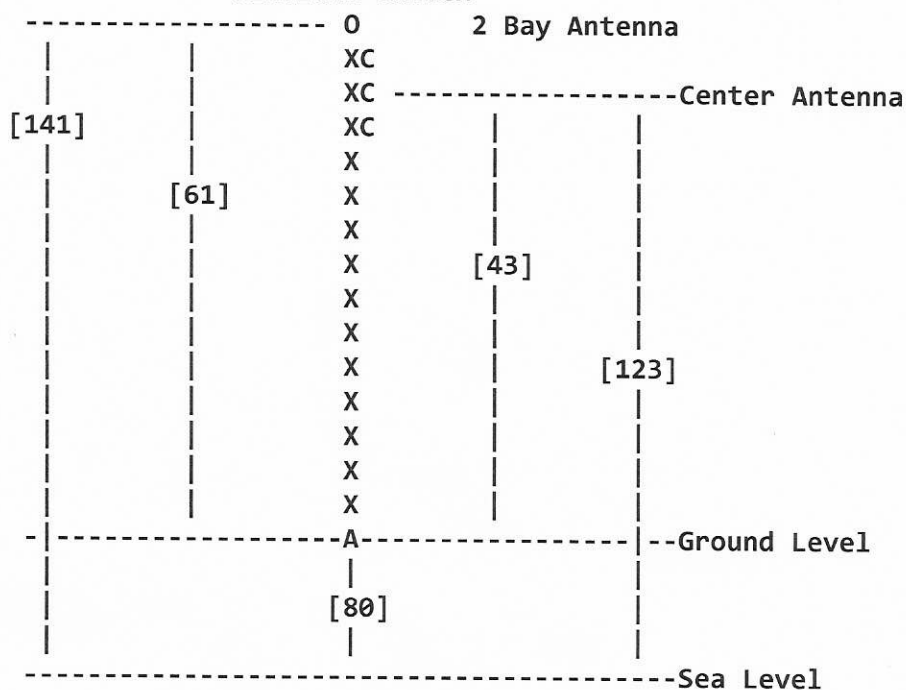
Antenna Center Above Sea Level: (404) 123

Overall Ground Average Terrain AMSL: (226) 69

Effective Radiated Power: 0.2500 kW *

TV/FM Channel: 228

VERTICAL SKETCH



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AM Day Contour Distances
WXRS

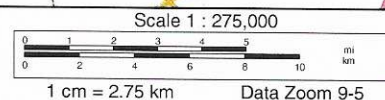
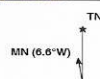
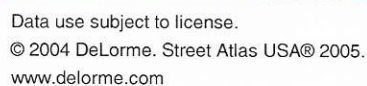
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Azi. Deg.	IDF mV/m	25.0 mV/m	5.0 mV/m	2.0 mV/m	0.5 mV/m	0.25 mV/m	0.025 mV/m
0	465.7	6.2	13.8	20.9	37.0	48.0	126.5
5	465.7	6.2	13.8	20.9	36.5	47.5	123.7
10	465.7	6.2	13.8	20.9	36.1	47.1	120.7
15	465.7	6.2	13.8	20.9	36.1	47.1	118.0
20	465.7	6.2	13.8	20.9	36.1	47.2	118.0
25	465.7	6.2	13.8	20.9	36.2	47.3	118.1
30	465.7	6.2	13.8	20.9	36.4	47.4	118.3
35	465.7	6.2	13.8	20.9	36.6	47.7	118.5
40	465.7	6.2	13.8	20.9	37.0	48.1	118.9
45	465.7	6.2	13.8	20.9	37.5	48.6	126.4
50	465.7	6.2	13.8	20.9	38.1	49.2	132.2
55	465.7	6.2	13.8	20.9	38.9	53.0	139.8
60	465.7	6.2	13.8	20.9	38.9	53.0	139.8
65	465.7	6.2	13.8	20.9	38.9	53.0	139.8
70	465.7	6.2	13.8	20.9	38.9	53.0	139.8
75	465.7	6.2	13.8	20.9	38.9	53.0	139.8
80	465.7	6.2	13.8	20.9	38.9	53.0	139.8
85	465.7	6.2	13.8	20.9	38.9	53.0	139.8
90	465.7	6.2	13.8	20.9	38.9	53.0	139.8
95	465.7	6.2	13.8	20.9	38.9	53.0	139.8
100	465.7	6.2	13.8	20.9	38.9	53.0	140.5
105	465.7	6.2	13.8	20.9	38.9	53.0	140.7
110	465.7	6.2	13.8	20.9	38.9	53.0	141.8
115	465.7	6.2	13.8	20.9	38.9	53.0	136.5
120	465.7	6.2	13.8	20.9	38.9	53.0	136.0
125	465.7	6.2	13.8	20.9	38.9	53.0	137.5
130	465.7	6.2	13.8	20.9	38.9	53.0	138.7
135	465.7	6.2	13.8	20.9	38.9	53.0	143.6
140	465.7	6.2	13.8	20.9	38.9	53.0	140.5
145	465.7	6.2	13.8	20.9	38.9	53.0	139.8
150	465.7	6.2	13.8	20.9	38.9	53.0	139.8
155	465.7	6.2	13.8	20.9	38.9	53.0	139.8
160	465.7	6.2	13.8	20.9	38.9	53.0	139.8
165	465.7	6.2	13.8	20.9	38.9	53.0	139.8
170	465.7	6.2	13.8	20.9	38.9	53.0	139.8
175	465.7	6.2	13.8	20.9	38.9	53.0	139.8

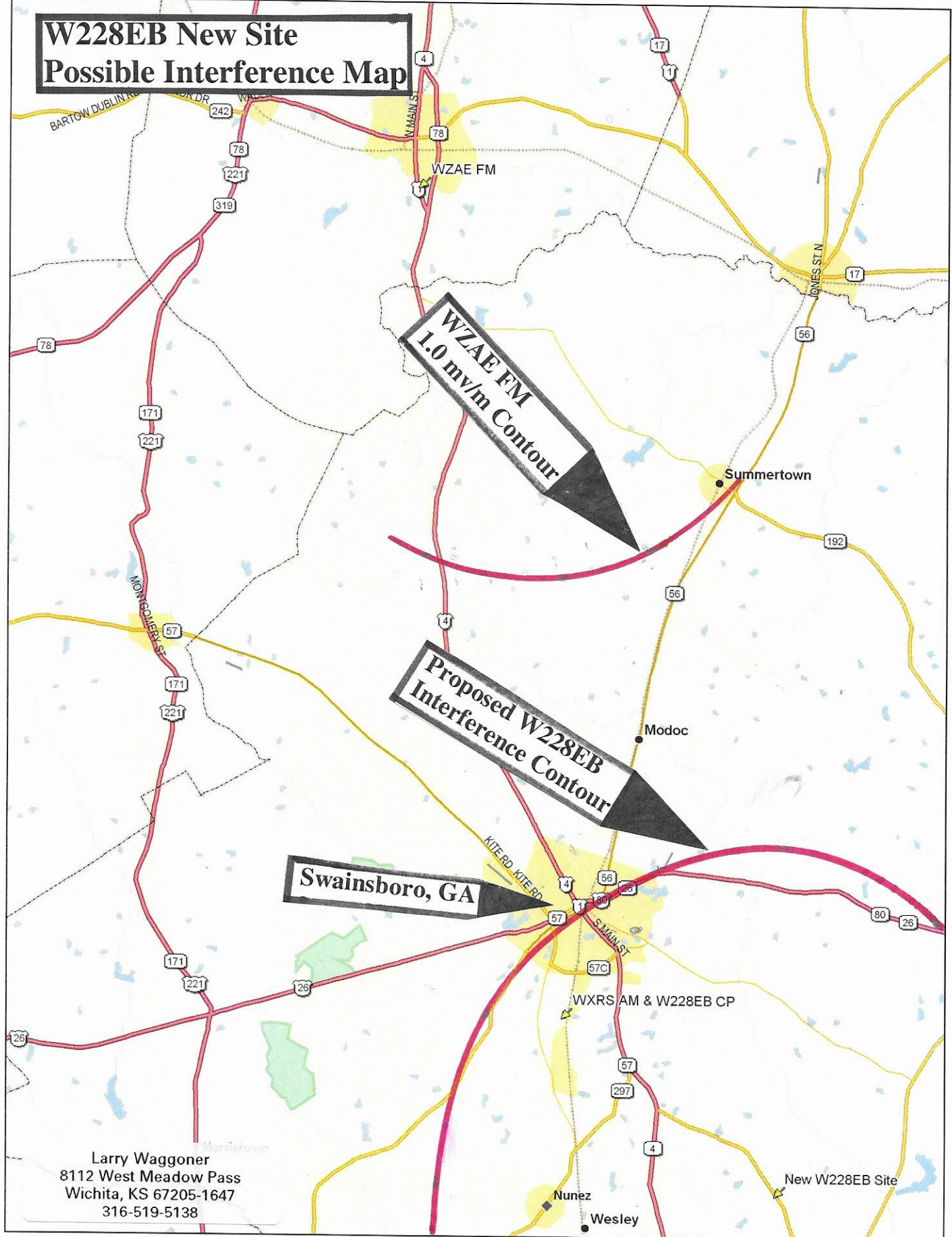
Azi. Deg.	ERP kW	HAAT m	70 dBu km	60 dBu km	54 dBu km	40 dBu km
90	4.000	60	11.4	20.3	27.9	71.8
95	4.000	62	11.5	20.6	28.3	72.3
100	4.000	65	11.8	21.1	28.9	73.1
105	4.000	68	12.0	21.5	29.5	73.8
110	4.000	64	11.7	20.9	28.7	72.9
115	4.000	60	11.4	20.3	27.9	71.8
120	4.000	56	11.0	19.6	27.1	70.7
125	4.000	53	10.7	19.1	26.4	69.8
130	4.000	53	10.7	19.1	26.4	69.8
135	4.000	51	10.5	18.7	25.9	69.2
140	4.000	50	10.4	18.5	25.7	68.9
145	4.000	47	10.1	17.9	24.9	67.7
150	4.000	43	9.6	17.0	23.9	66.1
155	4.000	40	9.3	16.3	23.1	64.8
160	4.000	39	9.1	16.1	22.8	64.2
165	4.000	37	8.9	15.7	22.3	63.2
170	4.000	34	8.5	15.1	21.5	61.5
175	4.000	30	8.0	14.2	20.3	59.1

W228EB New Site Interference Contours

Azi Deg	ERP kw	HAAT meters	54dBu F(50-10) Contour Distance
0	0.25	50m	13.1 km
30	0.25	44m	12.2 km
60	0.25	51m	13.2 km
90	0.25	51m	13.2 km
270	0.25	53m	13.5 km
300	0.25	52m	13.2 km
330	0.25	40m	11.6 km



W228EB New Site Possible Interference Map



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