

ENGINEERING STATEMENT
IN SUPPORT OF
REQUEST FOR SPECIAL TEMPORARY AUTHORITY
WVKX-FM RADIO, LLC
WXKO (AM)
1150 KHZ – 250 WATTS
FORT VALLEY, GEORGIA
Facility ID No.: 41988

This technical statement and accompanying exhibits have been prepared on behalf of WVKX-FM Radio, LLC, licensee of AM Radio Station WXKO licensed to Fort Valley, Georgia.

WXKO has been under silent STA¹ status since September 1, 2009 due to a combination of financial and landlord problems. The licensee filed for an extension² of this STA on June 17, 2010 which has not yet been acted upon by the Commission.

The purpose of this filing is to return the station to “on air” status and commence serving the population of Fort Valley, Georgia under an engineering STA for daytime operation.

¹ See BLSTA - 20090904ADN

² See BLESTA - 20100617AKG

The licensee has identified a location for a proposed temporary transmitting site at the following NAD '27 coordinates.

N 32° 34' 21" W 83° 52' 19"

This location is approximately three kilometers from the WXKO currently licensed site³, and the intent is to utilize this location as a temporary transmitting site until a permanent site can be found. It will take considerable time to receive authority from the FCC and FAA as well as local zoning, before a permanent site can be found and a tower erected. The licensee is diligently searching for such a site but to date has had no success. Therefore, the licensee is requesting to operate with a “long wire” antenna at the above location until a permanent location can be found, and all required permits and authorizations are granted.

The 1.0 V/m blanketing interference contour of this proposal covers an area of 0.1 sq. km in which according to the 2000 U.S. Census, no persons reside, while the 25 mV/m contour covers an area of 52.7 sq. km. In which 10,534 persons reside. It is therefore believed that this proposal complies with §73.24(g). The Licensee will take immediate steps to rectify any complaints of interference.

Figure 1: Topographical map showing the proposed location.

Figure 2: Calculated pattern produced by the “long wire” antenna.

This pattern was calculated using a simulation of two 90° towers spaced 180° apart and a phase difference of +180° with equal currents. The efficiency is estimated to be 163.5 mV/m/km/kW.

³ See CDBS Application ID No.: 308026

Figure 3: Shows the distances to the 0.5 mV/m contour of the WXKO licensed site as compared to the distances to the 0.5 mV/m contour of the proposed “long wire” radiator operating from the proposed site using M3 conductivity. This “long wire” radiator will be oriented E-98°-N to E-278°-N and suspended by wood telephone type poles. The radiator will be installed at a height above ground of 9 meters in order to comply with the FCC’s guidelines for human exposure to radiofrequency electromagnetic fields as outlined in OET Bulletin #65 Edition 97-01. Access to the radiator and platform will be restricted and appropriate signs warning of potential RFR hazards will be strategically placed around the site.

It is proposed to operate this “long wire” with a nominal input power of 0.25 kilowatts. Operating at this power the proposed 0.5 mV/m contour will not exceed that of the licensed facility and the 5.0 mV/m contour will continue to encompass the community of Fort Valley, GA.

Figure 4: Comparison of Licensed and Proposed 5.0 mV/m and 0.5 mV/m contours.

This statement and accompanying exhibits have been prepared by the undersigned, whose qualifications are a matter of record with the FCC, and he believes them to be true and accurate to the best of his knowledge.

_____Signed_____Date: August 13, 2010

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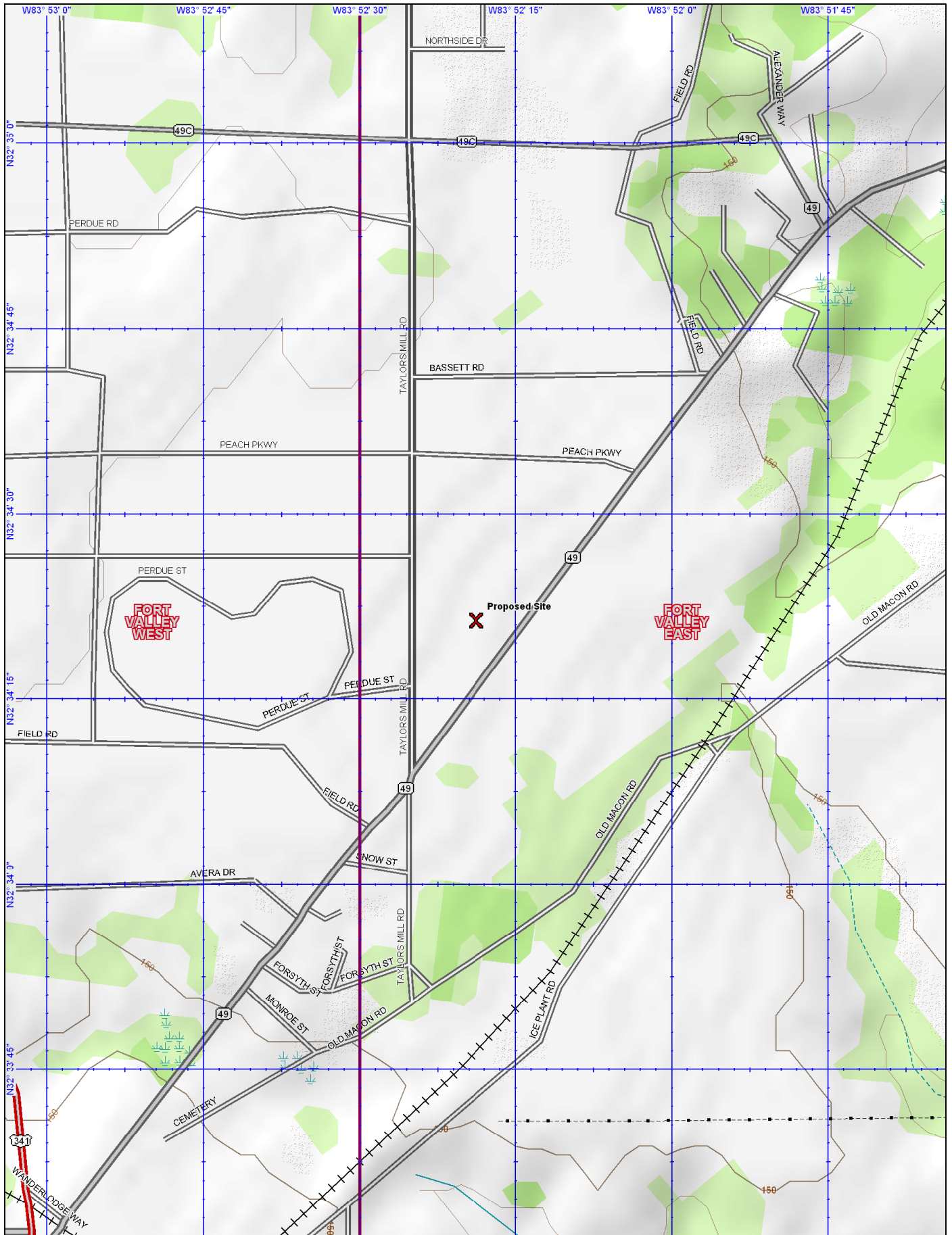


FIGURE 1

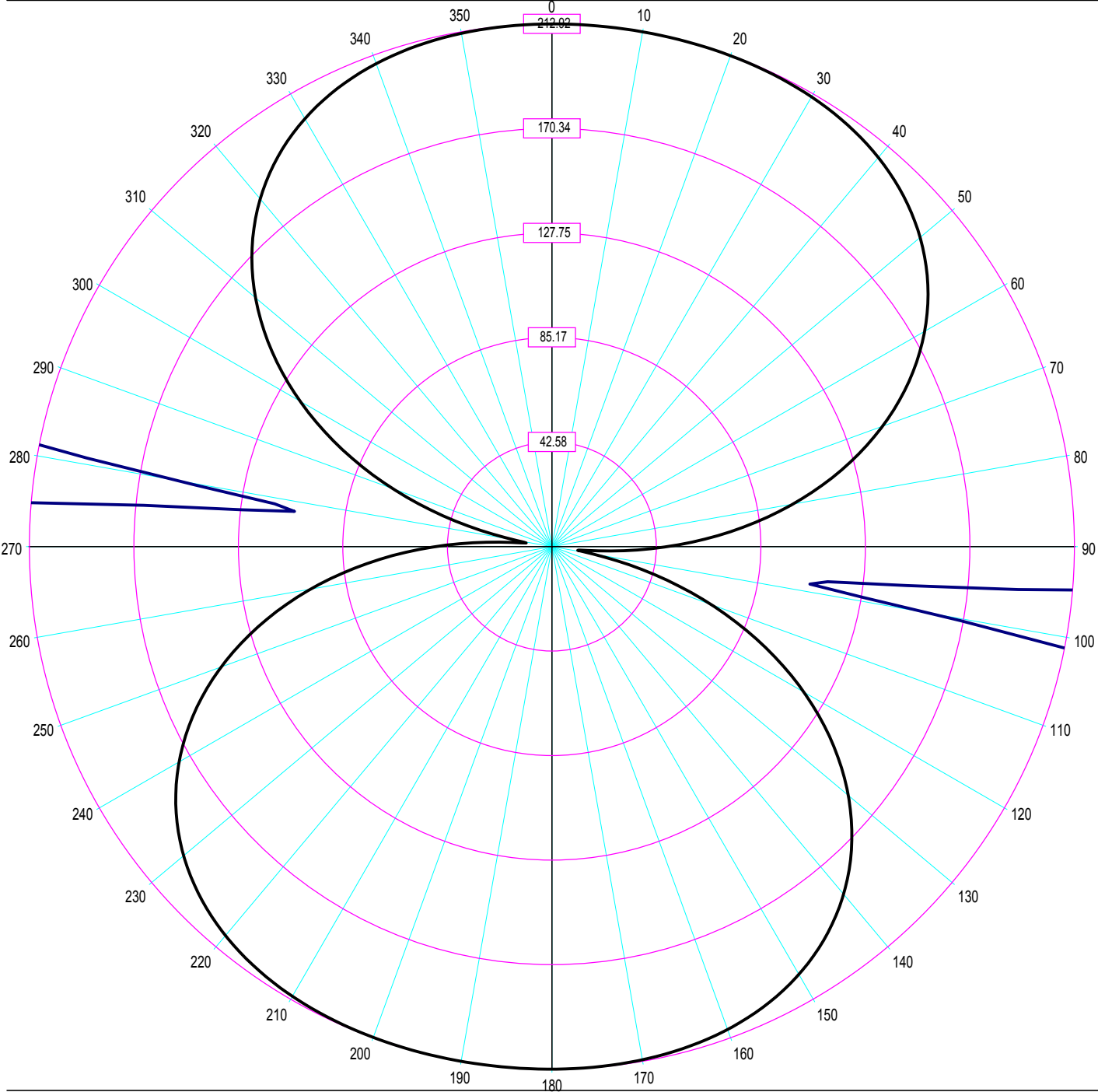


FIGURE 2

FIGURE 3

<p> Callsign : WXKO LIC Coordinates : 32-34-34.0 N, 83-54-17.0 W Comments : M3 CONDUCTIVITY Frequency (KHz): 1150 Power (w): 1000.000 Pattern : LD Efficiency : 305.780 mV/M Desc : ND1 City/State : FORT VALLEY, GA ARN : Licensee : WVKX-FM RADIO, LLC Contour type : Ground Wave Signal strength : 0.500 mV/m Area covered : 6,275.1 sq. km Population covered: 337,101 persons </p>				<p> Callsign : WXKO-STA Coordinates : 32-34-21.0 N, 83-52-19.0 W Comments : M3 CONDUCTIVITY Frequency (KHz): 1150 Power (w): 250.000 Pattern : LONG WIRE Efficiency : 163.555 Mv/M Desc : DAYTIME City/State : FORT VALLEY, GA ARN : Licensee : WVKX-FM RADIO, LLC Contour type : Ground Wave Signal strength : 0.500 mV/m Area covered : 3,529.6 sq. km Population covered: 251,066 persons </p>			
Azimuth Degrees	Field mV/m @ 1 km	Contour mV/m	Distance kM	Azimuth Degrees	Field mV/m @ 1 km	Contour mV/m	Distance kM
0	305.78	0.500	44.72←Max	0	212.90	0.500	38.24←Max
5	305.78	0.500	44.72	5	212.92	0.500	38.24←Max
10	305.78	0.500	44.72	10	212.92	0.500	38.24←Max
15	305.78	0.500	44.72	15	212.91	0.500	38.24←Max
20	305.78	0.500	44.72	20	212.80	0.500	38.23
25	305.78	0.500	44.72	25	212.42	0.500	38.20
30	305.78	0.500	44.72	30	211.53	0.500	38.13
35	305.78	0.500	44.72	35	209.82	0.500	38.00
40	305.78	0.500	44.72	40	206.90	0.500	37.77
45	305.78	0.500	44.72	45	202.38	0.500	37.40
50	305.78	0.500	44.72	50	195.87	0.500	36.86
55	305.78	0.500	44.72	55	186.97	0.500	36.15
60	305.78	0.500	44.72	60	175.38	0.500	35.16
65	305.78	0.500	44.72	65	160.88	0.500	33.86
70	305.78	0.500	44.72	70	143.38	0.500	32.21
75	305.78	0.500	44.72	75	122.93	0.500	30.11
80	305.78	0.500	44.72	80	99.77	0.500	27.46
85	305.78	0.500	44.72	85	74.34	0.500	24.08
90	305.78	0.500	44.72	90	47.30	0.500	19.53
95	305.78	0.500	44.72	95	20.38	0.500	12.80
100	305.78	0.500	44.72	100	15.69	0.500	11.10←Min
105	305.78	0.500	44.72	105	41.80	0.500	18.42
110	305.78	0.500	44.72	110	69.03	0.500	23.28
115	305.78	0.500	44.72	115	94.85	0.500	26.86
120	305.78	0.500	44.72	120	118.51	0.500	29.62
125	305.78	0.500	44.72	125	139.52	0.500	31.82
130	305.78	0.500	44.72	130	157.62	0.500	33.57
135	305.78	0.500	44.72	135	172.72	0.500	34.93
140	305.78	0.500	44.72	140	184.88	0.500	35.98
145	305.78	0.500	44.72	145	194.29	0.500	36.74
150	305.78	0.500	44.72	150	201.25	0.500	37.31
155	305.78	0.500	44.72	155	206.14	0.500	37.71
160	305.78	0.500	44.72	160	209.34	0.500	37.96
165	305.78	0.500	44.72	165	211.27	0.500	38.11
170	305.78	0.500	44.72	170	212.29	0.500	38.19
175	305.78	0.500	44.72	175	212.75	0.500	38.23
180	305.78	0.500	44.72	180	212.90	0.500	38.24←Max
185	305.78	0.500	44.72	185	212.92	0.500	38.24←Max

FIGURE 3 (cont)

Azimuth Degrees	Field mV/m @ 1 kM	Contour mV/m	Distance kM	Azimuth Degrees	Field mV/m @ 1 kM	Contour mV/m	Distance kM
190	305.78	0.500	44.72	190	212.92	0.500	38.24←Max
195	305.78	0.500	44.72	195	212.91	0.500	38.24←Max
200	305.78	0.500	44.72	200	212.80	0.500	38.23
205	305.78	0.500	44.72	205	212.42	0.500	38.20
210	305.78	0.500	44.72	210	211.53	0.500	38.13
215	305.78	0.500	44.72	215	209.82	0.500	38.00
220	305.78	0.500	44.72	220	206.90	0.500	37.77
225	305.78	0.500	44.72	225	202.38	0.500	37.40
230	305.78	0.500	44.72	230	195.87	0.500	36.86
235	305.78	0.500	44.72	235	186.97	0.500	36.15
240	305.78	0.500	44.72	240	175.38	0.500	35.16
245	305.78	0.500	44.72	245	160.88	0.500	33.86
250	305.78	0.500	44.72	250	143.38	0.500	32.21
255	305.78	0.500	44.72	255	122.93	0.500	30.11
260	305.78	0.500	44.72	260	99.77	0.500	27.46
265	305.78	0.500	44.72	265	74.34	0.500	24.08
270	305.78	0.500	44.72	270	47.30	0.500	19.53
275	305.78	0.500	44.72	275	20.38	0.500	12.80
280	305.78	0.500	44.72	280	15.69	0.500	11.10←Min
285	305.78	0.500	44.72	285	41.80	0.500	18.42
290	305.78	0.500	44.72	290	69.03	0.500	23.28
295	305.78	0.500	44.72	295	94.85	0.500	26.86
300	305.78	0.500	44.72	300	118.51	0.500	29.62
305	305.78	0.500	44.72	305	139.52	0.500	31.82
310	305.78	0.500	44.72	310	157.62	0.500	33.57
315	305.78	0.500	44.72	315	172.72	0.500	34.93
320	305.78	0.500	44.72	320	184.88	0.500	35.98
325	305.78	0.500	44.72	325	194.29	0.500	36.74
330	305.78	0.500	44.72	330	201.25	0.500	37.31
335	305.78	0.500	44.72	335	206.14	0.500	37.71
340	305.78	0.500	44.72	340	209.34	0.500	37.96
345	305.78	0.500	44.72	345	211.27	0.500	38.11
350	305.78	0.500	44.72	350	212.29	0.500	38.19
355	305.78	0.500	44.72	355	212.75	0.500	38.23

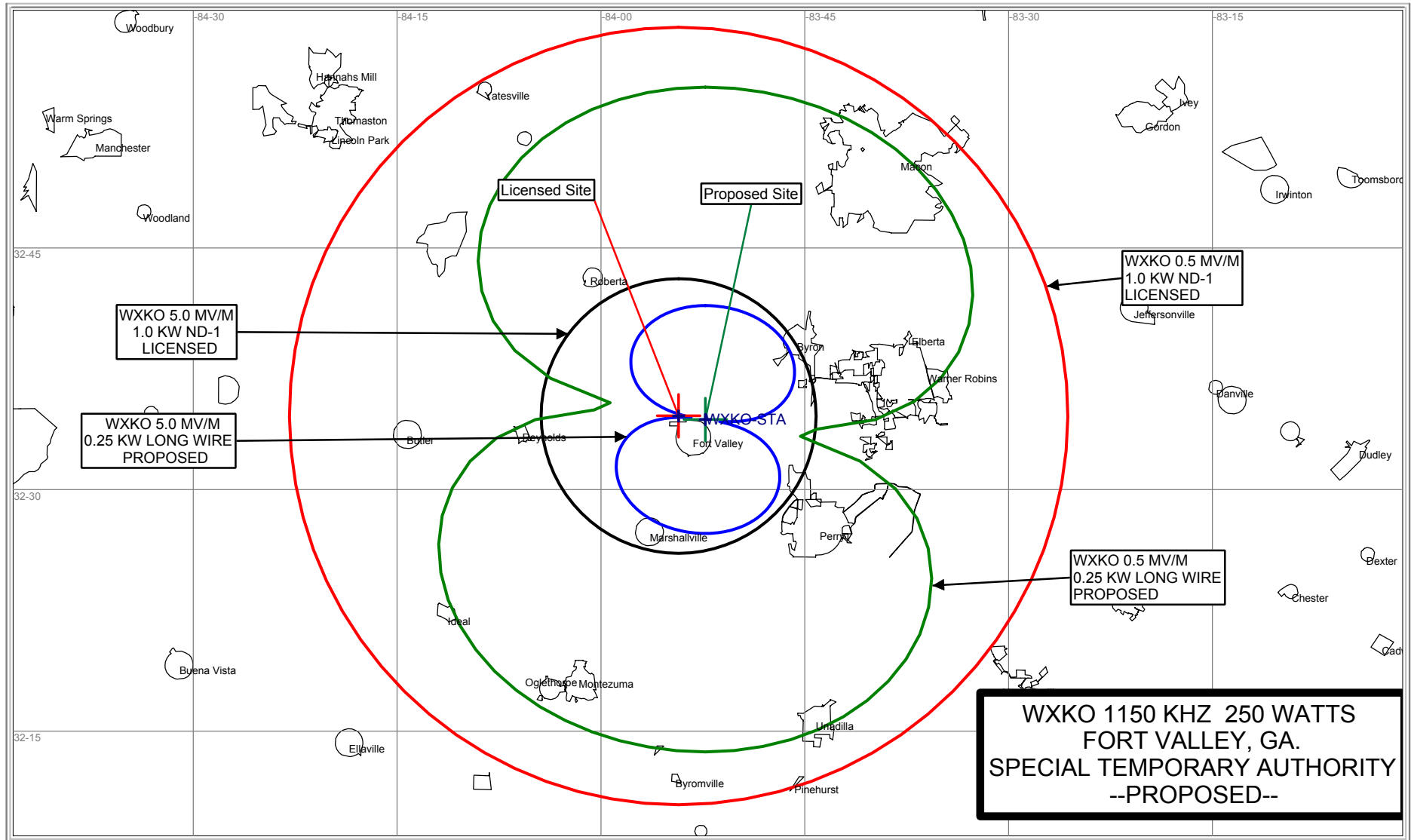


FIGURE 4