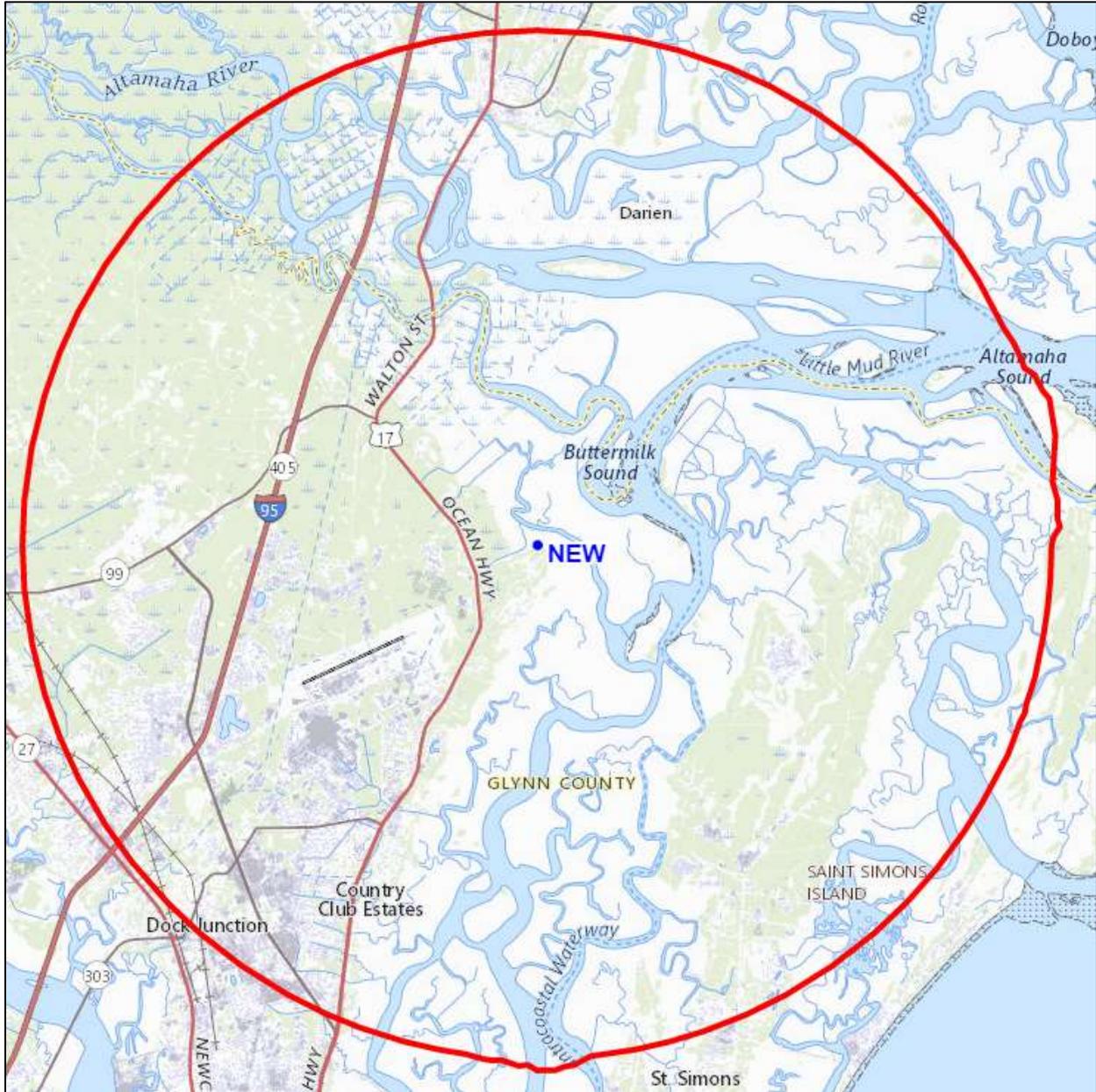




REC Networks/Michelle Bradley, CBT
 11541 Riverton Wharf Rd.
 Mardela Springs, MD 21837
 844.REC.LPFM/202.621.2355
 recnet.com

Original Construction Permit
DARIEN, GA
FREQUENCY ZERO, INC.

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



DARIEN, GA – Channel 218A (91.5 MHz) ~ ERP 1.6 kW ~ Service Contour: 11.4 km
 Elev: 3 meters ~ RCAGL: 34 meters ~ RCAMSL: 37 meters ~ HAAT: 26 meters
 Overall tower height: 37.8 meters – ASR: None – meets glide slope
 NAD83 Latitude: 31° 16' 54.6" NL – Longitude: 81° 25' 25.0" WL
 NAD27 Latitude: 31° 16' 53.8" NL – Longitude: 81° 25' 25.6" WL

COMPREHENSIVE EXHIBIT – DARIEN, GA

Frequency Zero, Inc.
NEW(FM) – Darien, Georgia
Channel 218A – 91.5 MHz

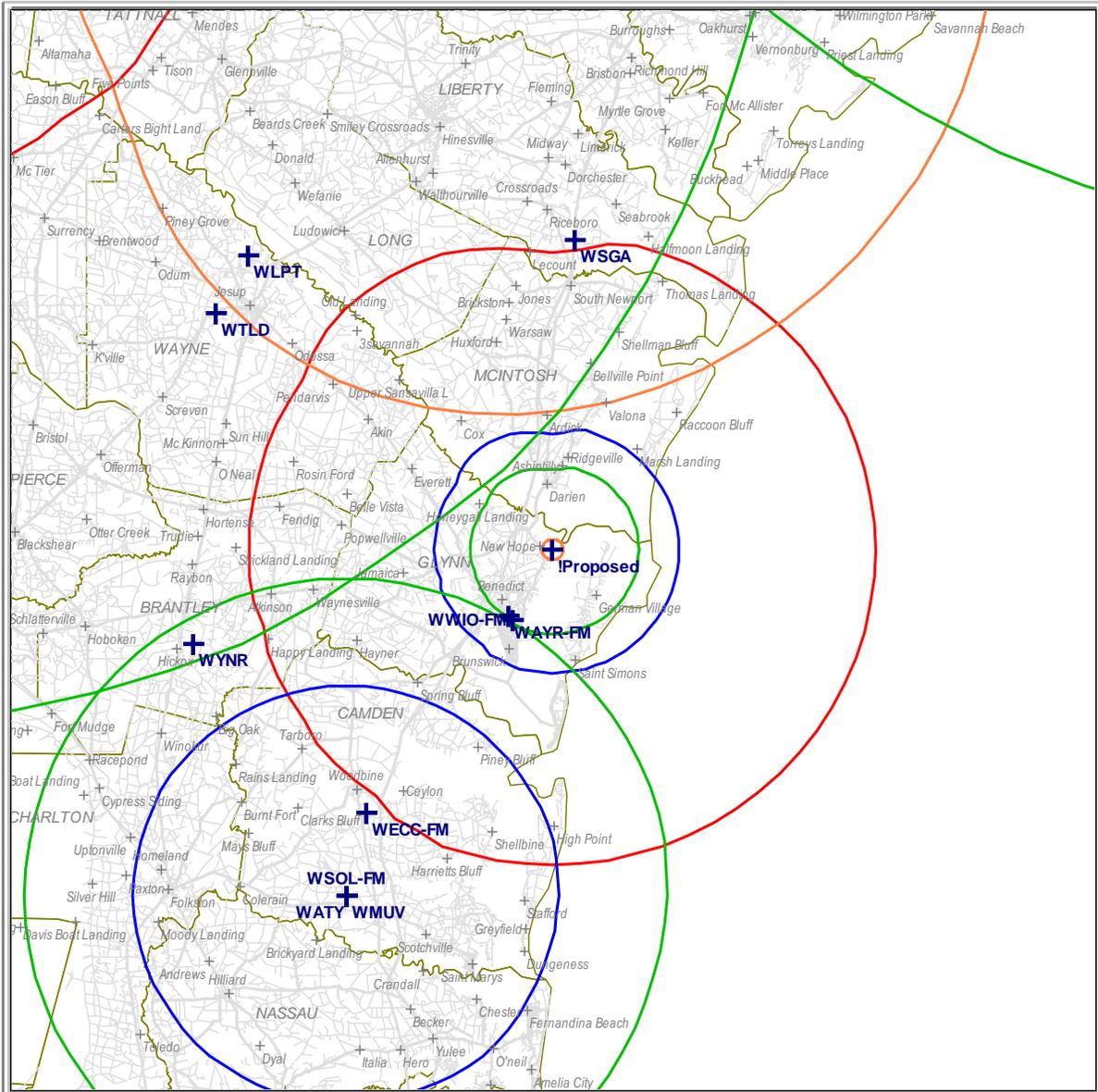
Contour Protection.....	§73.509(a)	3
Community of License Coverage.....	§73.515	6
Population and Land Area Showing.....	§73.7003	7
Other Attributable Interests/Diversity Points Claim.....		7
Site Assurance Contact Information.....		7
Educational Statement.....	§73.503	7
NEPA Compliance.....		8

No impacted Channel 6 stations for channel selected.

ComStudy 2.2 search of channel 218 (91.5 MHz Class A) at 31-16-53.8 N, 81-25-25.6 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WATY	FOLKSTON	GA	217	C3	59.18	89.00	210.3	0.01 dB
WGPH	VIDALIA	GA	218	C2	145.44	166.00	316.9	0.25 dB
WSVH	SAVANNAH	GA	216	C0	97.67	86.00	349.2	8.20 dB
WKCL	LADSON	SC	218	C1	229.07	200.00	32.9	12.22 dB
WTRJ-FM	ORANGE PARK	FL	219	C3	112.28	89.00	186.9	13.78 dB
WJKV	JACKSONVILLE	FL	215	C2	112.28	55.00	186.9	24.45 dB
WLFS	PORT WENTWORTH	GA	220	C3	105.45	42.00	22.7	27.74 dB
WOLR	LAKE CITY	FL	217	C3	190.74	89.00	224.4	27.79 dB
WAPN	HOLLY HILL	FL	218	A	227.91	115.00	170.8	29.69 dB
WTBH	CHIEFLAND	FL	218	A	246.73	115.00	215.3	31.80 dB
WASW	WAYCROSS	GA	220	C3	117.28	42.00	269.7	32.40 dB
WTYG	SPARR	FL	218	A	225.01	115.00	197.0	33.49 dB
WJTG	FORT VALLEY	GA	217	C1	278.48	133.00	304.9	34.14 dB
WHIF	PALATKA	FL	217	A	181.38	72.00	185.1	35.64 dB
WJLF	GAINESVILLE	FL	219	A	197.23	72.00	208.2	36.88 dB
WWJJ	JASPER	FL	219	A	170.75	72.00	239.4	37.86 dB
WWJJ	JASPER	FL	219	A	168.64	72.00	240.3	37.24 dB
WGTT	EMERALDA	FL	218	A	260.63	115.00	187.9	38.44 dB

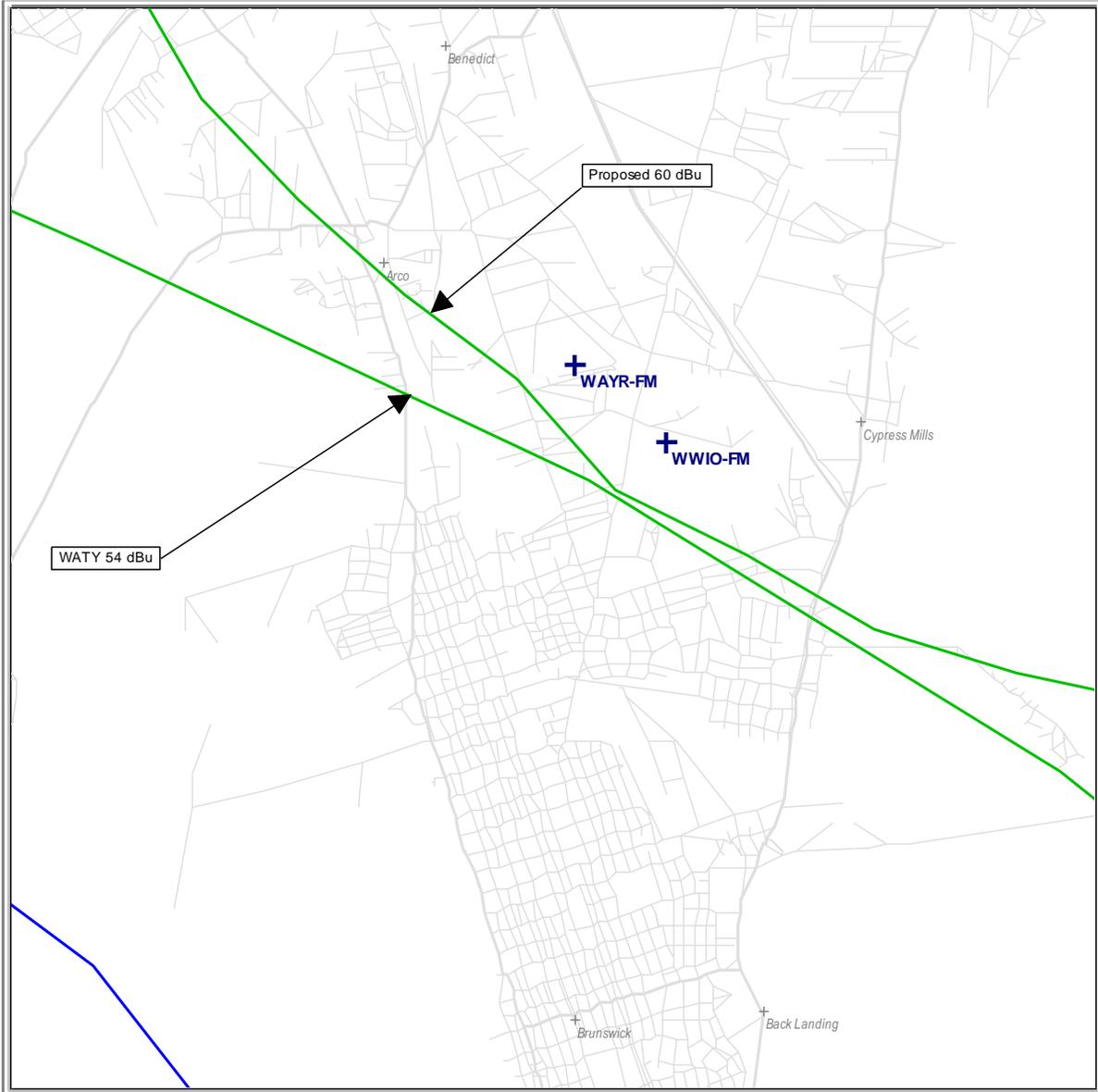
Contour Protection - §73.509(a)



Map Scale: 1:806528 1 cm = 8.07 km V/H Size: 159.70 x 156.54 km

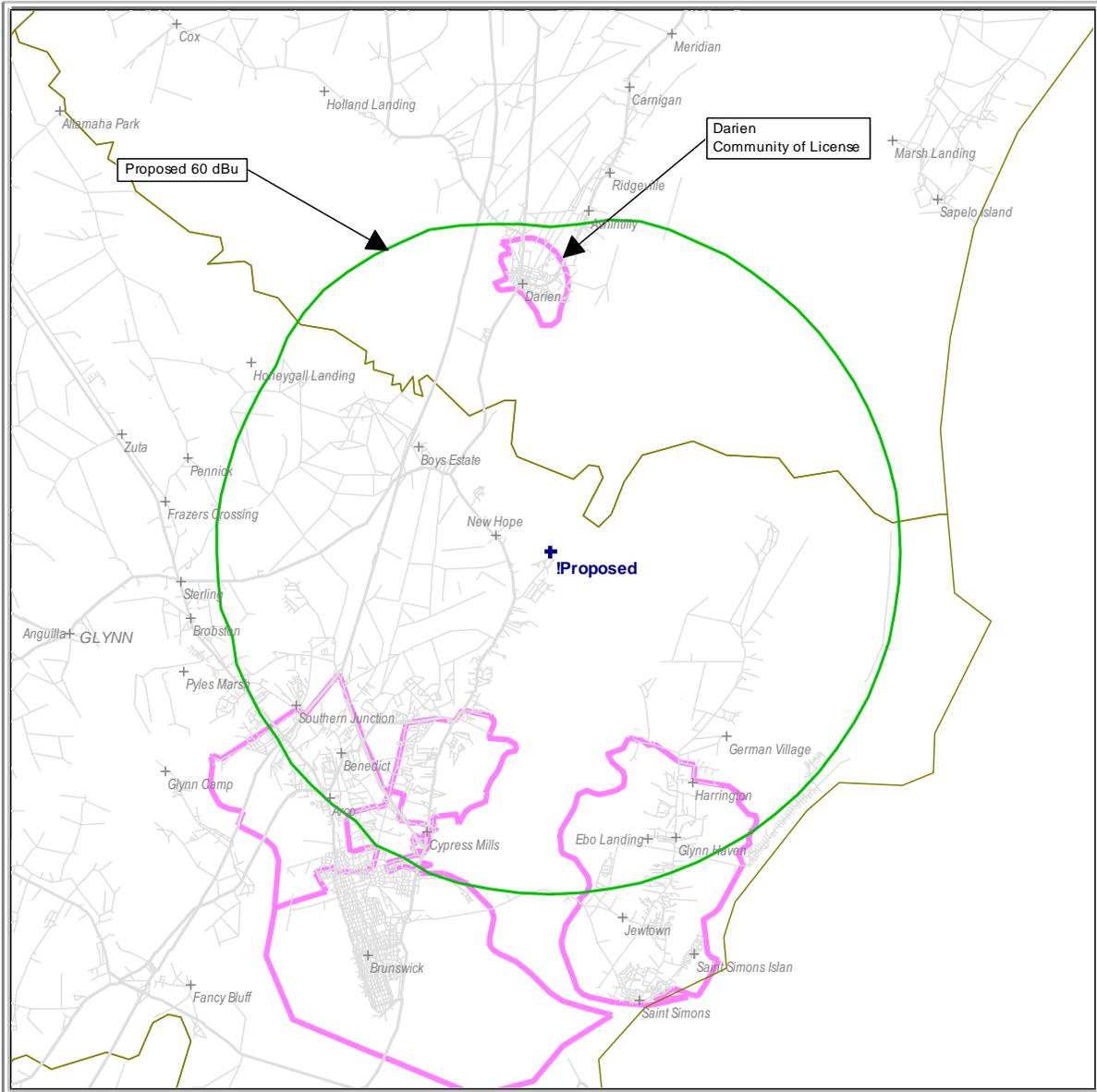
- GREEN: Incumbent interfering contour into Proposed 60 dBu service contour.
- RED: Proposed 40 dBu interfering contour into Incumbent 60 dBu service contour (co-channel)
- BLUE: Proposed 54 dBu interfering contour into Incumbent 60 dBu service contour (first-adjacent)
- ORANGE: Proposed 100 dBu interfering contour into Incumbent 60 dBu service contour (second/third-adjacent)

Contour Protection - §73.509(a) vs WATY



Map Scale: 1:39893 1 cm = 0.40 km V/H Size: 7.90 x 7.74 km

Community Coverage - §73.515



Map Scale: 1:197440 1 cm = 1.97 km V/H Size: 39.09 x 38.32 km

Proposed facility places a 60 dBu contour over 100 percent of the community of license.

POPULATION AND LAND AREA STUDY

Frequency Zero, Inc.
NEW(FM) – Darien, Georgia
Channel 218A – 91.5 MHz

PROPOSED FACILITY IS **NOT** SEEKING §307(b) PRIORITY

2010 Census Block Centroid data for target facility:

Population: 36249 persons

Land Area: 347.82 square kilometers

OTHER ATTRIBUTABLE INTERESTS
DIVERSITY POINTS CLAIM

All parties to this application have no attributable interests in any other broadcast station, including non-fill in FM translators nor does any party to the application have any attributable interest in any newspaper of general circulation within the proposed community of license. Applicant does not propose any overlapping services, therefore diversity points can be claimed.

SITE ASSURANCE CONTACT INFORMATION

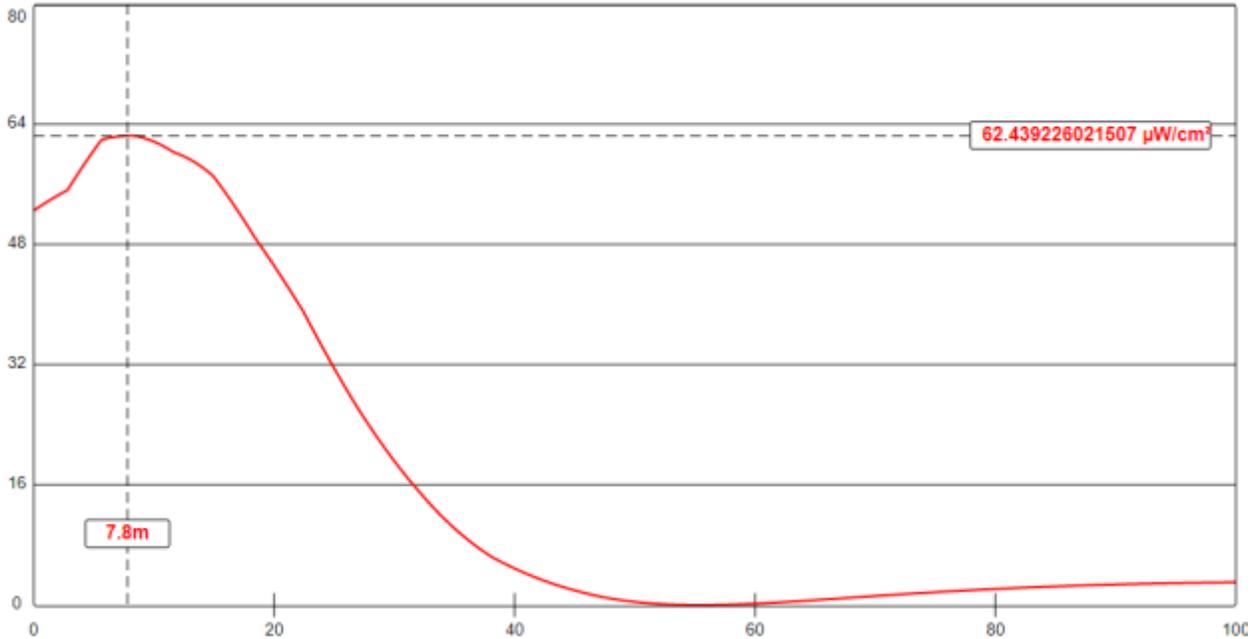
Scott Hummel
Site Owner
720-260-4001

EDUCATIONAL STATEMENT

Frequency Zero, Inc. is a Georgia nonprofit educational organization founded in 2021. Our organization focuses on community development, resiliency, and engagement and provides program awareness through websites, social media and local educational efforts. The broadcast station will advance our educational objectives by allowing us to provide instructional programming on health and wellness, preparedness and safety, arts and culture including music discovery, local events and opportunities for personal growth, as well as provide entertaining and informative programming to the local community. Sample programs include "Healthy Southeast", a weekly health promotion program that highlights an important area of wellness each week and "Southeast Scene", a radio program dedicated to providing education and awareness of local events, leaders, and culture in the Southeastern U.S. In addition, the station will provide inclusive non-partisan voter education sessions and hosted debates.

NEPA COMPLIANCE

Frequency Zero, Inc.
NEW(FM) – Darien, Georgia
Channel 218A – 91.5 MHz



The instant application is proposed an effective radiated power of 1.6 kW vertical and 1.6 kW horizontal. Using the Commission’s FM MODEL software and utilizing a worst-case scenario EPA-1 two-bay antenna at full wavelength spacing and based on a height of 34 meters, it has been determined that the power density would be no greater than $62.4 \mu\text{W}/\text{cm}^2$ at any point, which would exceed the general population/controlled exposure guideline of $200 \mu\text{W}/\text{cm}^2$.

In the instant application, the applicant is certifying that the RF exposure in all occupied areas is well within the guidelines of in accordance with OET Bulletin No. 65, Edition 97-01, August 1997.

Report prepared by:

Michelle Bradley, CBT
REC Networks

September 23, 2021