

**W271AP MODIFICATION OF CONSTRUCTION PERMIT
FILED IN A QUEUE BEHIND W272CT APPLICATION TO CHANNEL 271**

This application proposes to modify the W271AP construction permit (BMPFT-20130327ACX) by changing to a non-directional antenna. It is filed in a queue behind an application filed by W272CT to change channels to channel 272. It is requested that this application be processed after that application is granted.

The translator will serve as a fill in for AM station WZNZ (facility ID#48393) at Atlantic Beach, FL.

Allocation discussion:

All exhibits were developed utilizing the FCC 30 second terrain database.
Allocation exhibits are provided as follows:

- E1 Channel study
- E1A Interference plot to WXXJ
- E1B Aerial photograph of site
- E2 Contours
- E3 ASR and NADCON calculation


A channel study is included as E1 and an interference analyses as E1A demonstrating compliance with 74.1204. A plot of the proposed 60 dBu contour is provided as E2 showing that the contour is entirely contained within the primary station WZNZ's 2 mV/m contour and 40 km radius. The proposed 60 dBu also overlaps the licensed W271AP 60 dBu contour.

The proposed channel 272 facility will be located inside the protected contour of 3rd adjacent channel station WXXJ. Therefore, an interference analysis has been conducted based on the D/U ratio of +40 dB at the proposed site. The WXXJ contour at that site is 152 dBu and the proposed interference contour of 192 (50,10) is 0.0 meters. Clearly, there will be no interference to any populated area. An aerial photograph is included as E1AC. Based on this showing that the interfering contour will not reach a populated area, a waiver of Section 74.1204 is requested.

RF Exposure Calculation:

The RF contribution of the proposed translator was calculated using a worst case F factor Of 1.0 for the Shively 6025 array circularly polarized antenna mounted at 267 meters AGL and the formula provided below to be 0.24 $\mu\text{Watts}/\text{cm}^2$ or 0.12% of the maximum permissible 200 $\mu\text{Watts}/\text{cm}^2$ exposure for general population/uncontrolled exposure. This is less than the 5% required for consideration.

$$S \text{ (RF in } \mu\text{Watts}/\text{cm}^2) = \frac{33.4 (F^2 - \text{Vert Factor}) \times (\text{H ERP} + \text{V ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$


Charles M. Anderson December 24, 2013

E1 CHANNEL STUDY

REFERENCE
30 16 34.0 N.
81 33 51.0 W.

CH# 272D - 102.3 MHz, Pwr= 0.099 kw, HAAT= 270.0 M, COR= 276 M
Average Protected F(50-50)= 16.98 km
Omni-directional

DISPLAY DATES
DATA 12-24-13
SEARCH 12-24-13

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
275C Jacksonville	WXXJ	LIC _C_ FL	270.0 90.0	0.05 BMLH20130124AAQ	30 16 34.0 81 33 53.0	100.000 309	10.3 315	73.1 Cox Radio, Inc.	-27.3*	-73.7* (1)
272D Jacksonville	W271AP	CP DC_ FL	0.0 0.0	0.00 BMPFT20130327ACX	30 16 34.0 81 33 51.0	0.099 270	54.5 276	16.9 Chesapeake-portsmouth Broa	-71.4*	-71.4*
271D Jacksonville	W271AP	LIC _C_ FL	304.6 124.5	9.15 BLFT20070521AAC	30 19 22.1 81 38 33.7	0.007 279	12.6 285	8.9 Chesapeake-portsmouth Broa	-20.5*	-25.2
273C1 Waycross	WYNR	LIC _CX GA	338.4 158.2	105.31 BMLH20100114ABU	31 09 22.0 81 58 19.0	97.000 303	105.5 319	72.7 Qantum Of Brunswick Licens	-17.1*	7.3
272C2 Dunnellon	WTRS	LIC _C_ FL	213.7 33.3	145.16 BMLH20011214AJZ	29 11 15.0 82 23 40.0	50.000 149	137.6 171	52.1 Asterisk Communications, I	-9.5	38.2
270D Jacksonville Beach	W270CD	LIC _C_ FL	78.7 258.8	16.42 BLFT20120514AFH	30 18 18.0 81 23 47.0	0.038 71	0.4 73	6.4 Educational Media Foundati	-1.0*	9.3
271D St. Augustine	W272CT	CP DC_ FL	154.5 334.6	52.42 BPFT20130116ABP	29 51 01.0 81 19 49.0	0.148 132	21.7 137	14.4 Phillips Broadcasting, Llc	13.8	12.9 (2)
272D Palm Coast	W272CT	LIC _C_ FL	164.2 344.3	87.51 BLFT20121113AOE	29 31 07.0 81 19 02.0	0.010 373	38.0 381	11.2 Phillips Broadcasting, Llc	32.6	21.9
271C3 Watertown	WQLC	LIC _CN FL	268.0 87.4	119.26 BLH19920818KB	30 13 58.0 82 48 18.0	9.000 162	57.2 199	38.4 Louis D. Bolton, Ii	45.0	55.3
271C0 Tybee Island	WZAT	LIC _C_ GA	6.1 186.2	199.27 BLH20110830ABO	32 03 29.0 81 20 19.0	100.000 405	119.1 410	80.2 Cumulus Licensing Llc	63.3	93.8
270C Daytona Beach	WJHM	LIC NC_ FL	171.0 351.1	152.68 BMLH20081010ATQ	28 55 10.0 81 19 08.0	92.000 483	12.1 493	84.6 Cbs Radio Stations Inc.	123.7	67.4
273L1 Daytona Beach	WIKD-LP	LIC ____ FL	157.4 337.6	130.40 BLL20120503ADK	29 11 33.0 81 02 50.0	0.094 31	35	105.7 Embry-riddle Aeronautical	99.5	

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.

(1) See Technical Report for disproof of interference.

(2) W272CT has filed an application to change channel to 271. It is requested that this application be held in a queue behind that application.

W271AP

Latitude: 30-16-34 N
Longitude: 081-33-51 W
ERP: 0.099 kW
Channel: 272
Frequency: 102.3 MHz
AMSL Height: 276.0 m
Elevation: 9.0 m
Horiz. Pattern: Omni

EXHIBIT E1A

WXXJ CONTOUR AT W271AP = 152 DBU
W271AP INTERFERENCE CONTOUR= 192 = 0 METERS

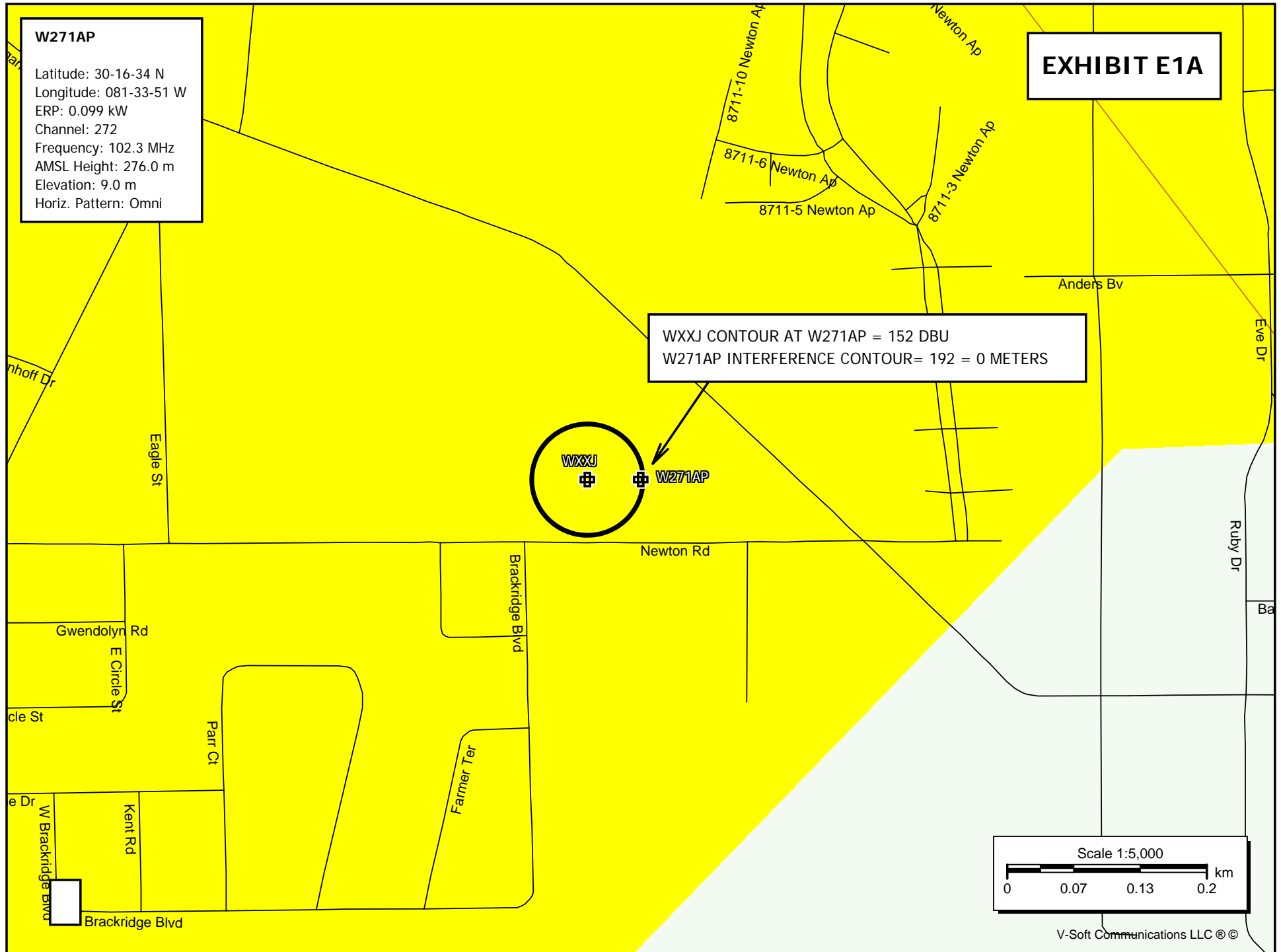


EXHIBIT E1B

AERIAL VIEW OF PROPOSED SITE



W271AP

Latitude: 30-16-34 N
Longitude: 081-33-51 W
ERP: 0.099 kW
Channel: 272
Frequency: 102.3 MHz
AMSL Height: 198.0 m
Elevation: 9.0 m
Horiz. Pattern: Omni

EXHIBIT E2

WZNZ 2 MV/M

W271AP LICENSED 60 DBU

PROPOSED 60 DBU

WZNZ 40 KM RADIUS

W271AP

W271AP

WZNZ

Atlantic Beach

Jacksonville Beach

Palm Valley

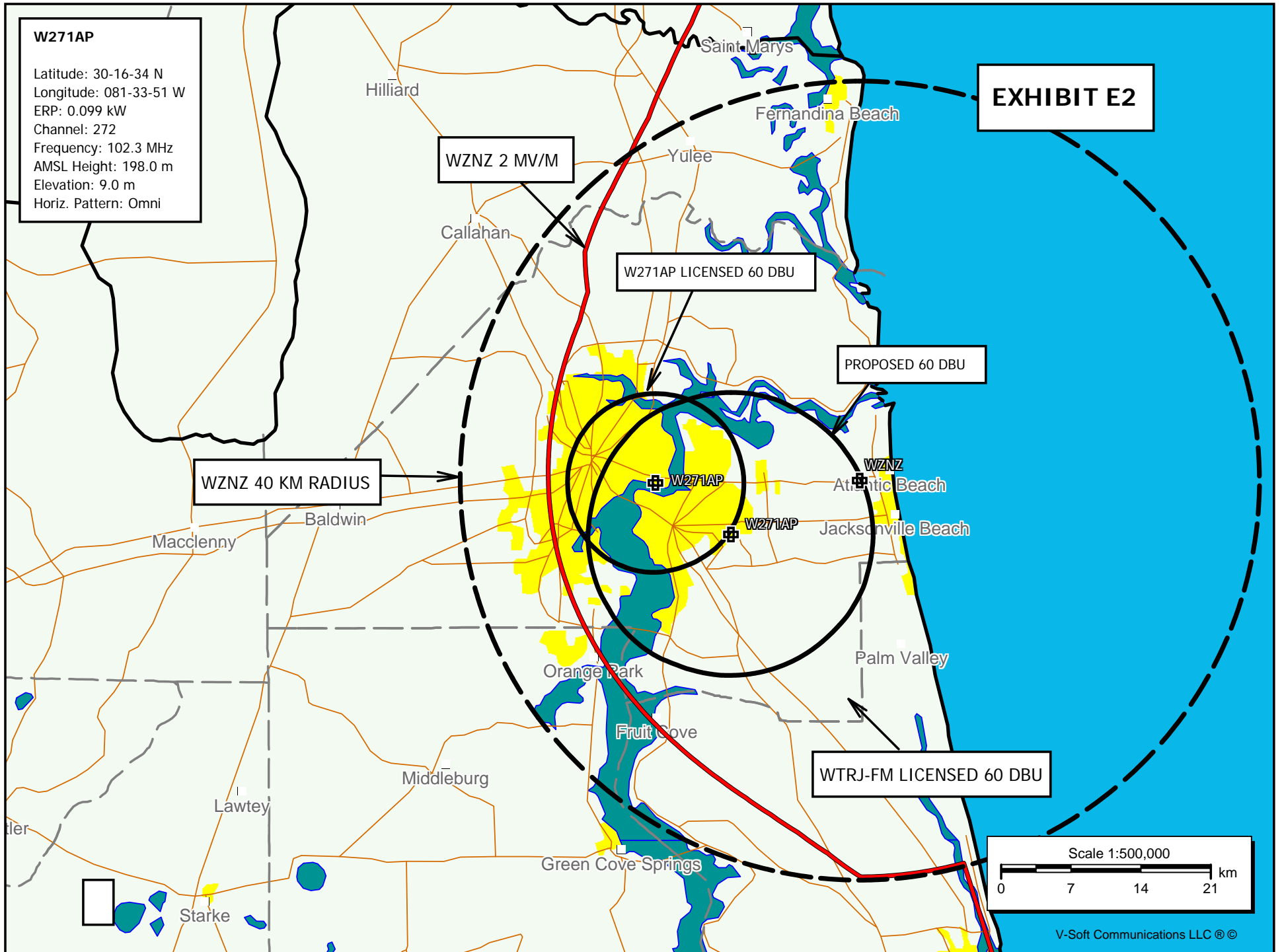
WTRJ-FM LICENSED 60 DBU

Green Cove Springs

Scale 1:500,000

0 7 14 21 km

V-Soft Communications LLC ©



E3 Registration 1020783

 [Map Registration](#)

Registration Detail

Reg Number	1020783	Status	Constructed
File Number	A0784847	Constructed	11/05/2008
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	30-16-35.0 N 081-33-50.7 W	Address	8541 NEWTON RD (#302757)
City, State	JACKSONVILLE , FL		
Zip	32216	County	DUVAL
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
9.1	323.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
332.5	317.9

Painting and Lightings Specifications

FAA Chapters 4, 7, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	2012-ASO-6018-OE	FAA Issue Date	08/22/2012
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Owner & Contact Information

FRN	0014350276	Owner Entity Type	Limited Liability Company
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Owner

SpectraSite Communications, LLC. through American Towers, LLC.	P: (678)265-6770
Attention To: Regulatory Compliance	F:
1898 Leland Drive, Suite A	E: colofaa-fccsoutheast@americantower.com
Marietta , GA 30067	

Contact

Attention To: Regulatory Compliance	P: (678)265-6770
1898 Leland Drive, Suite A	F:
Marietta , GA 30067	E: colofaa-fccsoutheast@americantower.com

Last Action Status

Status	Constructed	Received	09/05/2012
Purpose	Notification	Entered	09/05/2012
Mode	Interactive		

Output from NADCON for station W271AP

North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

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Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	30 16 34.13425	81 33 51.37334
NAD 83 datum values:	30 16 35.00000	81 33 50.70000
NAD 27 - NAD 83 shift values:	-0.86575	0.67334(secs.)
	-26.660	17.997 (meters)
Magnitude of total shift:		32.165(meters)



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