

Black Crow Radio, LLC
Modify BNPFT-20030317AOZ
Daytona Beach, FL.
June 2013

Technical Statement:

The attached technical statement and related exhibits are prepared by EME Communications for Black Crow Radio, LLC; Daytona Beach, FL. The purpose is to modify the technical portion for BNPFT-20130317AOZ. This application will specify a new site, antenna system, HAMSL and HAAT.

This proposal is considered a minor change because the channel change is no more than three (3) channels away from the original applied channel and this proposal does have mutual overlapping contours as outlined in exhibit 2.

Attached as an exhibit are plots that show the relation between the proposed and the three other applications that are a part of MX'ed group 115. This proposal clears all others within the MX'ed group and becomes a single, grantable application.

At 100 watts, the proposed translator does not take away any future LPFM opportunities in the Daytona Beach grid.

Attached, as exhibit 1, is a comprehensive report on the possible interfering contour of the proposed after the ERP change.

Exhibit 2 shows the proposed is a minor change since the proposed 60 dBu contour will overlap that of the original 2003 application. This exhibit also shows that the proposed will not extend the 60 dBu contour of the proposed primary facility, WHOG.

The applicant proposes to employ a three (3) bay composite antenna system made up of three Scala CA5-FM-CP RM FM antennas located at the 162m (530 feet) above ground level. The proposed structure information is:

Tower ID: 1020771

Distance: 0.01 km Bearing: 0.0 degrees

Coordinates (NAD27): 29-10-24.37 N, 081-09-25.99 W

Status: Constructed

Action Date: 02/09/2012

Construction Date: 04/01/1982

Location: 900 N INDIAN LAKE RD (#302756), DAYTONA, FL

Height (AG): 184.40 m, Elevation: 12.20 m, Structure Height: 167.60 m

Circular Number: 70/7460-1K

FAA Number: 2009-ASO-783-OE FAA Chapter: 3, 4, 5, 12

Interference Concerns to WCFB:

The protected contour of WCFB at the proposed site is 81.10 dBu. By adding the U/D of the proposed operation, the interfering contour is 121.10 dBu.

As demonstrated in the attached V-Soft X-Field output, the interfering contour extends from the tower 038.1100 meters and well above the ground around the supporting structure.

Also attached are Google Earth maps that clearly show no occupied structures within the interfering contour.

Conclusion:

Black Crow Radio LLC proposes to modify the above mentioned applications to specify a new site, HAAT, HAMSL and Antenna system and re-broadcast WHOG (FM). It is believed this statement and attached exhibits should pass muster with the Commission's staff and therefore be granted.

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EXHIBIT - 1

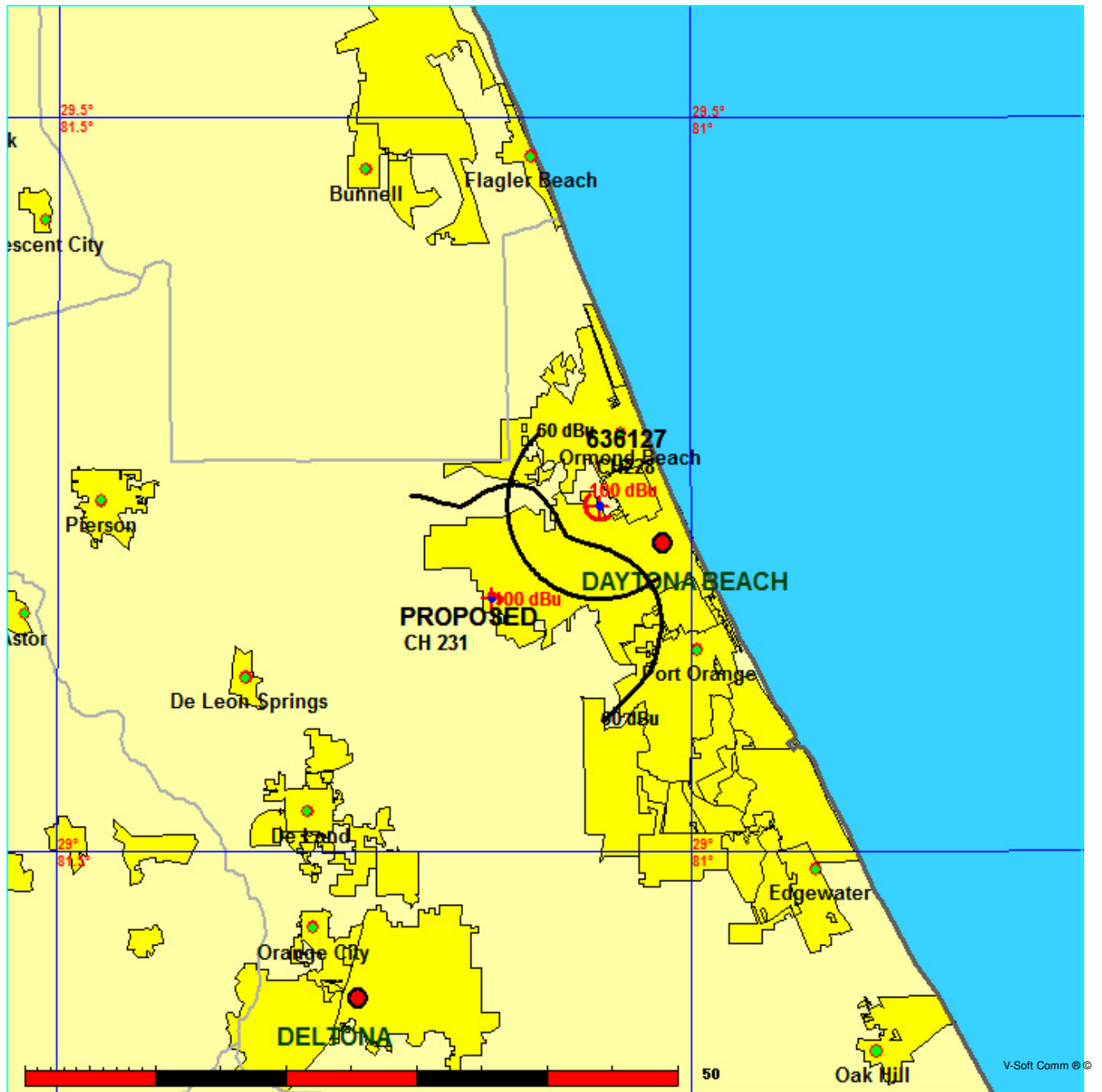
REFERENCE		CH# 231D - 94.1 MHz, Pwr= 0.1 kW DA, HAAT= 165.1 M, COR= 174 M								DISPLAY DATES	
29 10 24.0 N.		Average Protected F(50-50)= 13.25 km								DATA 06-23-13	
81 09 26.0 W.		Standard Directional								SEARCH 06-23-13	
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
233C	WCFB	LIC _E_		233.5	36.10	28 58 47.0	100.000	12.2	83.6	11.1	-48.2*
Daytona Beach		FL		53.3	BLH20081117ACD	81 27 20.0	451	460	Cox Radio, Inc.		
231C2	WSOS-FM	RSV-A	___	339.9	103.10	30 02 38.0	50.000	137.3	51.8	-41.5*	26.6
Fruit Cove		FL		159.8		81 31 29.0	150	157	Renda Broadcasting Corpora		
231C2	WSOS-FM	APP ZCX		334.7	110.25	30 04 08.0	38.000	131.4	49.5	-29.0*	34.5
Fruit Cove		FL		154.4	BPH20130225ADQ	81 38 50.0	147	151	Renda Broadcasting Corpora		
231C	WLLD	LIC _CN		209.4	191.03	27 40 23.0	100.000	187.3	83.7	-9.1	64.7
Lakeland		FL		29.0	BLH19950713KB	82 06 35.0	455	489	Cbs Radio Stations Inc.		
228D	636127	APP _C_		49.5	10.80	29 14 11.0	0.250	1.1	7.1	2.3	3.5
Daytona Beach		FL		229.6	BNPFT20030312BCX	81 04 21.0	25	30	Cornerstone Community Radi		
228D	648992	APP _C_		54.1	13.60	29 14 42.0	0.250	1.1	7.1	4.9	6.3
Daytona Beach		FL		234.2	BNPFT20030317DPE	81 02 37.0	28	32	R & L Non-comm		
284D	W284AV«	LIC _C_		83.3	14.63	29 11 19.0	0.120	0.2	4.1	9.5R	5.1M
Daytona Beach		FL		263.4	BLFT20120827AEK	81 00 28.0		90	Volusia Broadcating Compan		
284D	W284AV«	CP _C_		83.3	14.64	29 11 19.0	0.120	0.2	4.1	9.5R	5.1M
Deltona		FL		263.4	BPFT20120216AAE	81 00 27.8		90	Volusia Broadcating Compan		
230D	1558566	APP _C_		37.6	18.01	29 18 06.0	0.001	2.2	1.6	7.9	5.2
Ormond Beach		FL		217.6	BNPFT20030317LZP	81 02 38.0		14	Carl Tutera		
229C0	WOGK	LIC _CN		276.9	90.23	29 16 05.0	100.000	11.7	80.7	65.4	8.8
Ocala		FL		96.5	BLH19870915KA	82 04 51.0	411	430	Ocala Broadcasting Corpora		
231C3	WSOS-FM	LIC NCX		334.7	110.25	30 04 08.0	5.500	93.7	34.0	8.8	50.1
Fruit Cove		FL		154.4	BLH20100507AAD	81 38 50.0	154	158	Renda Broadcasting Corpora		
228D	W228BK	LIC _C_		186.2	67.62	28 34 07.0	0.038	0.4	6.7	54.3	60.2
Union Park		FL		6.2	BLFT20070521ACK	81 13 55.0	62	80	Bible Broadcasting Networ		

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. 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.
« = Station meets FCC minimum distance spacing for its class.

FMCommander Single Allocation Study - 06-24-2013 - FCC NGDC 30 Sec
 PROPOSED's Overlaps (In= 2.33 km, Out= 3.5 km)

PROPOSED CH 231 D DA
 Lat= 29 10 24.0, Lng= 81 09 26.0
 0.1 kW 165.1 M HAAT, 174 M COR
 Prot.= 60 dBu, Intef.= 100 dBu

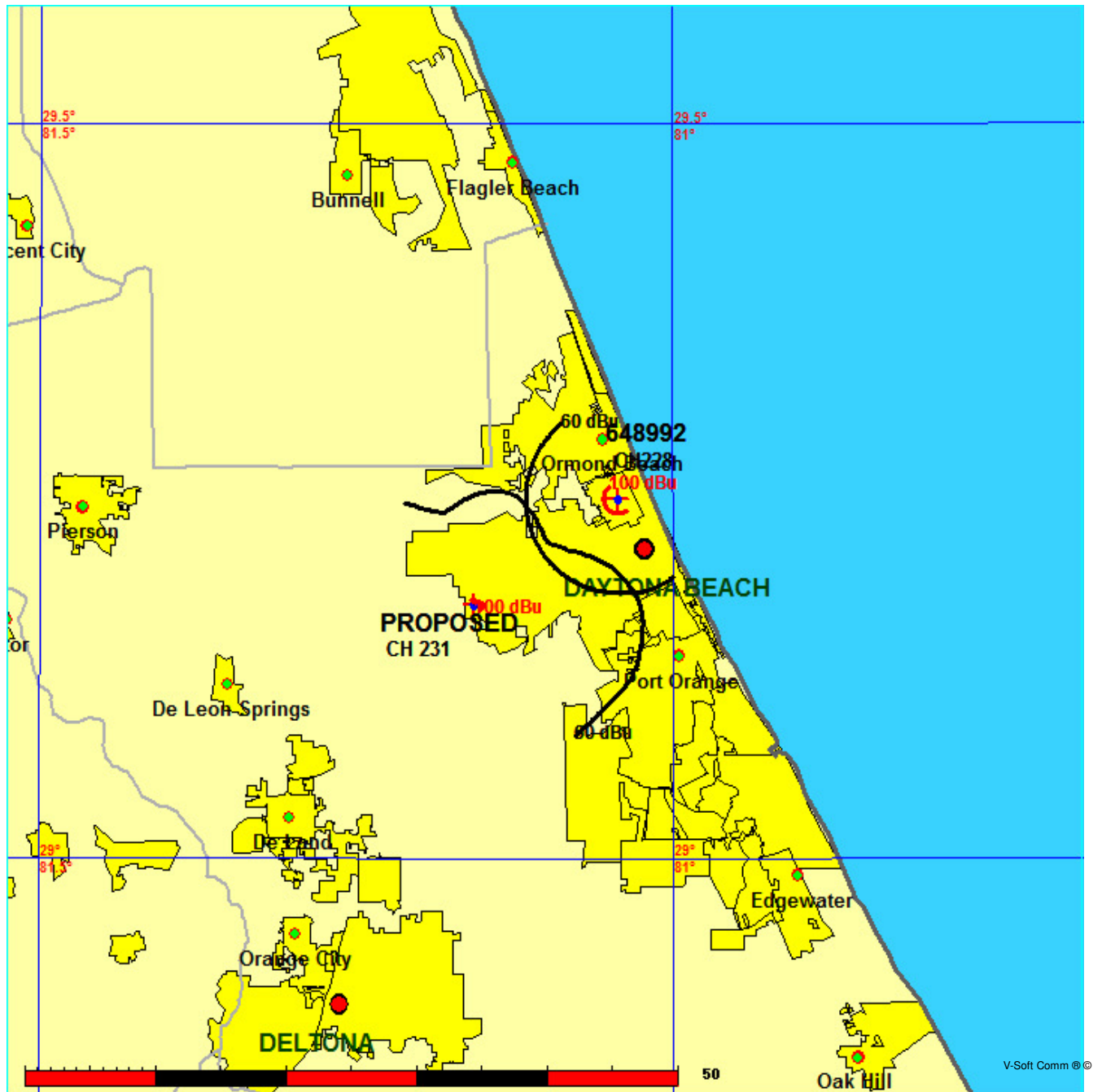
636127 CH 228 D BNPFT20030312BCX
 Lat= 29 14 11.0, Lng= 81 04 21.0
 0.25 kW 25.4 M HAAT, 30 M COR
 Prot.= 60 dBu, Intef.= 100 dBu



FMCommander Single Allocation Study - 06-24-2013 - FCC NGDC 30 Sec
 PROPOSED's Overlaps (In= 4.9 km, Out= 6.29 km)

PROPOSED CH 231 D DA
 Lat= 29 10 24.0, Lng= 81 09 26.0
 0.1 kW 165.1 M HAAT, 174 M COR
 Prot.= 60 dBu, Intef.= 100 dBu

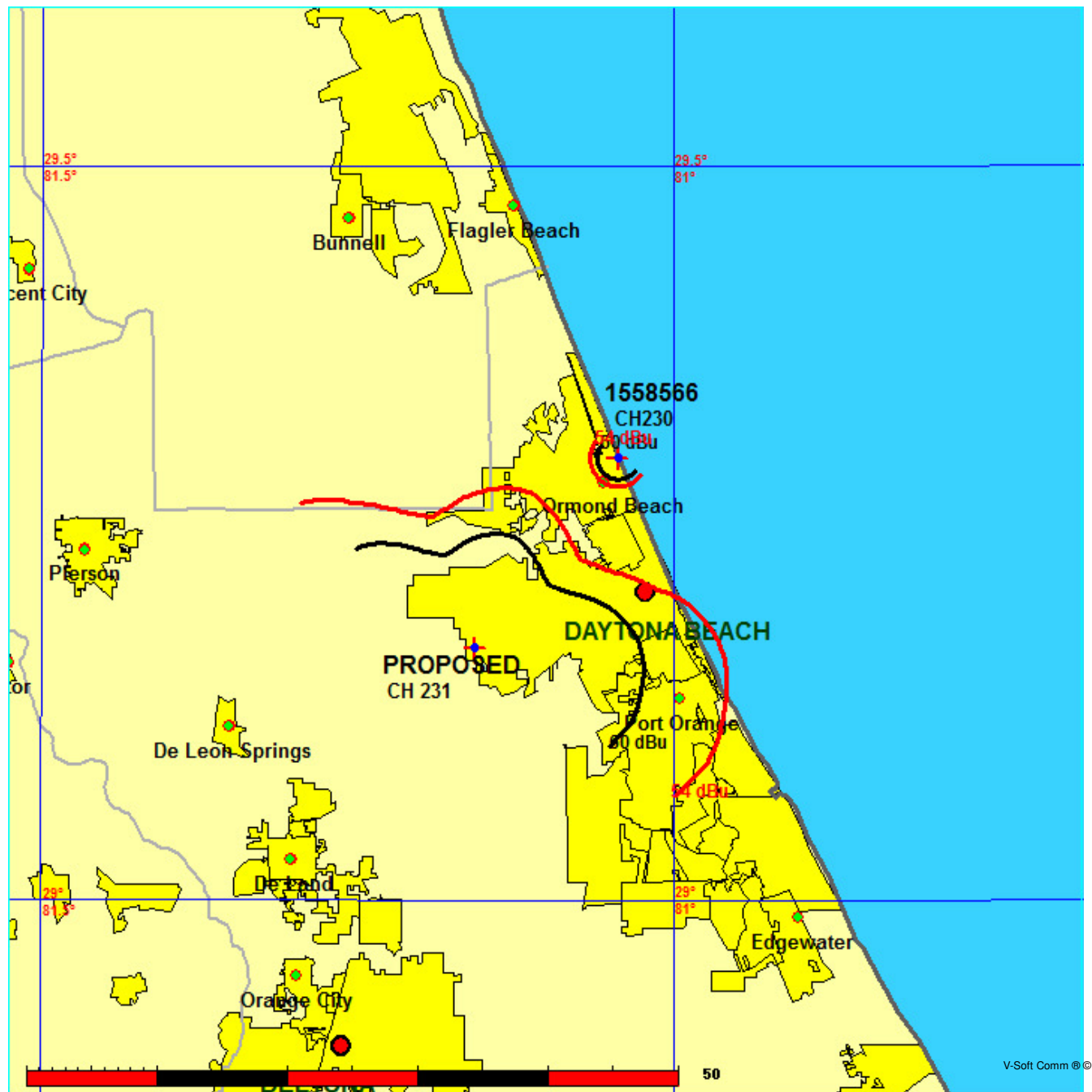
648992 CH 228 D BNPFT20030317DPE
 Lat= 29 14 42.0, Lng= 81 02 37.0
 0.25 kW 28.4 M HAAT, 32 M COR
 Prot.= 60 dBu, Intef.= 100 dBu

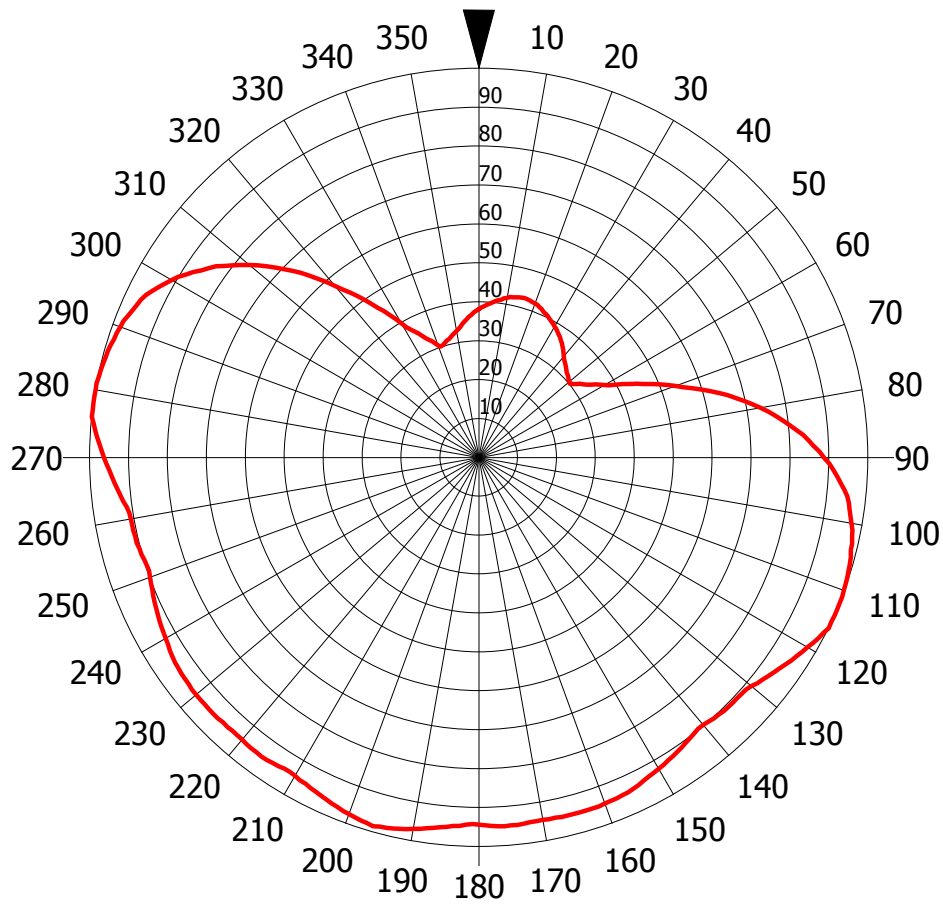


FMCommander Single Allocation Study - 06-24-2013 - FCC NGDC 30 Sec
 PROPOSED's Overlaps (In= 7.93 km, Out= 5.18 km)

PROPOSED CH 231 D DA
 Lat= 29 10 24.0, Lng= 81 09 26.0
 0.1 kW 165.1 M HAAT, 174 M COR
 Prot.= 60 dBu, Intef.= 54 dBu

1558566 CH 230 D BNPFT20030317LZP
 Lat= 29 18 06.0, Lng= 81 02 38.0
 0.001 kW 0 M HAAT, 14 M COR
 Prot.= 60 dBu, Intef.= 54 dBu





Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.381	-8.38	0.145	-8.38	180	0.943	-0.51	0.889	-0.51
10	0.416	-7.62	0.173	-7.62	190	0.969	-0.27	0.939	-0.27
20	0.421	-7.51	0.177	-7.51	200	0.975	-0.22	0.951	-0.22
30	0.389	-8.20	0.151	-8.20	210	0.944	-0.50	0.891	-0.50
40	0.339	-9.40	0.115	-9.40	220	0.946	-0.48	0.895	-0.48
50	0.303	-10.37	0.092	-10.37	230	0.948	-0.46	0.899	-0.46
60	0.372	-8.59	0.138	-8.59	240	0.929	-0.64	0.863	-0.64
70	0.538	-5.38	0.289	-5.38	250	0.899	-0.92	0.808	-0.92
80	0.734	-2.69	0.539	-2.69	260	0.908	-0.84	0.824	-0.84
90	0.887	-1.04	0.787	-1.04	270	0.963	-0.33	0.927	-0.33
100	0.972	-0.25	0.945	-0.25	280	1.000	0.00	1.000	0.00
110	0.998	-0.02	0.996	-0.02	290	0.980	-0.18	0.960	-0.18
120	0.975	-0.22	0.951	-0.22	300	0.911	-0.81	0.830	-0.81
130	0.914	-0.78	0.835	-0.78	310	0.769	-2.28	0.591	-2.28
140	0.897	-0.94	0.805	-0.94	320	0.576	-4.79	0.332	-4.79
150	0.924	-0.69	0.854	-0.69	330	0.398	-8.00	0.158	-8.00
160	0.946	-0.48	0.895	-0.48	340	0.307	-10.26	0.094	-10.26
170	0.945	-0.49	0.893	-0.49	350	0.330	-9.63	0.109	-9.63

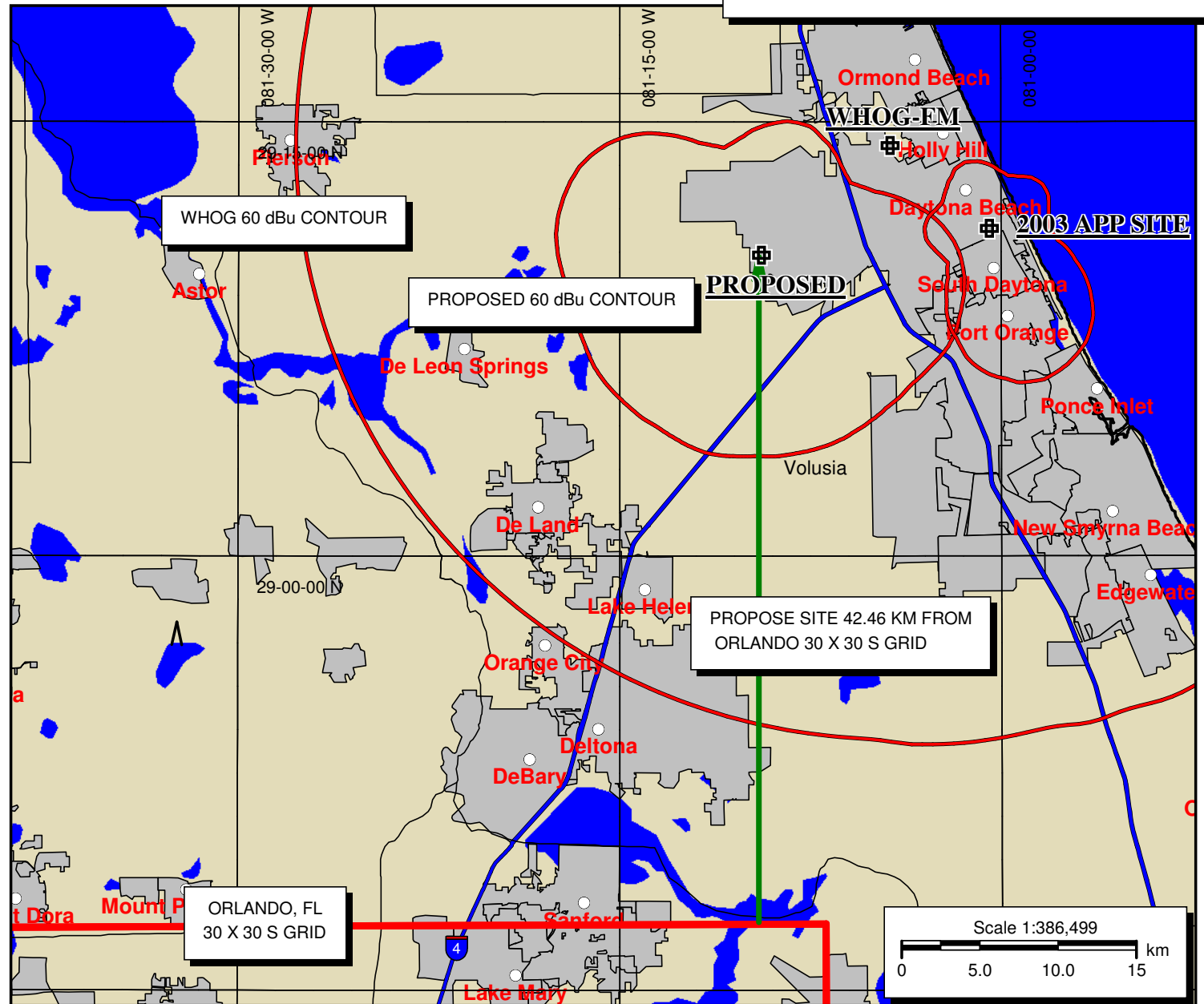
Rotation Angle = 0

EME Communications - Moultrie, GA - USA

PROPOSED

Latitude: 29-10-24 N
Longitude: 081-09-26 W
ERP: 0.10 kW
Channel: 231
Frequency: 94.1 MHz
AMSL Height: 174.0 m
Elevation: 10.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

EXHIBIT - 2



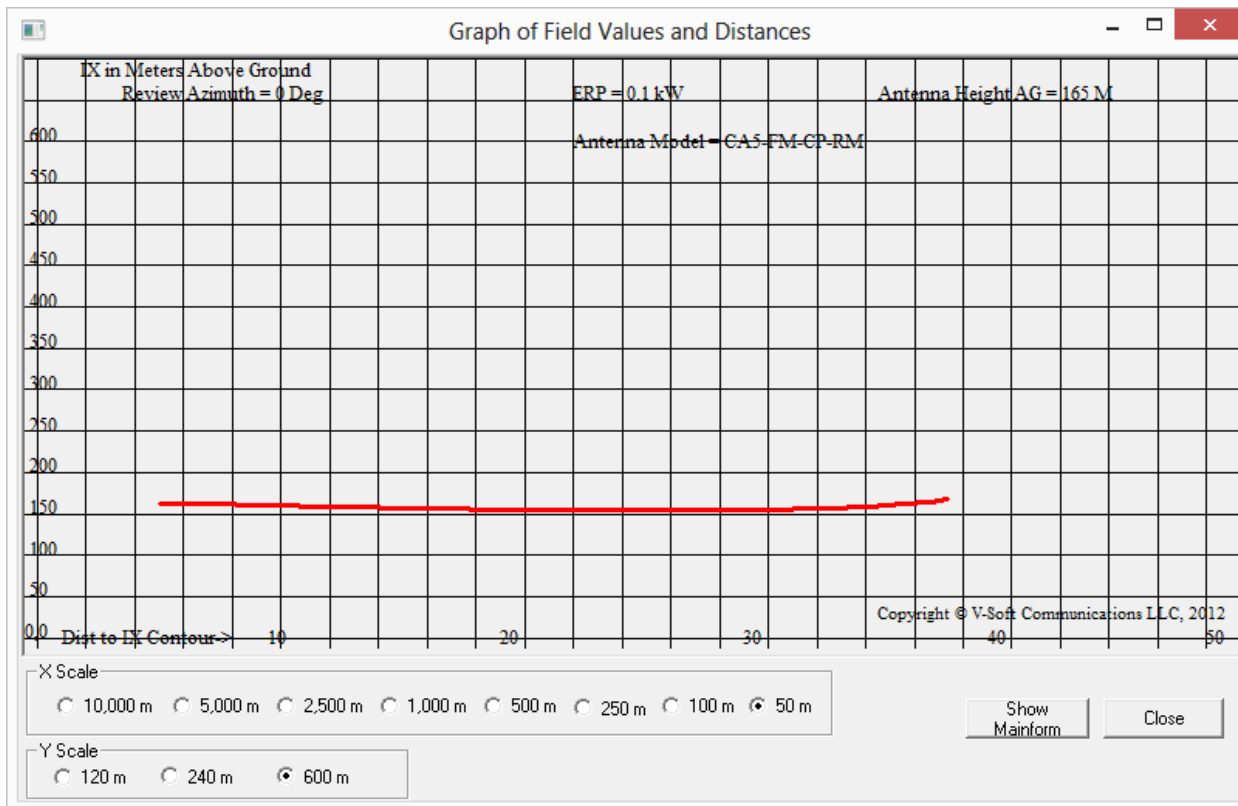
XField.out

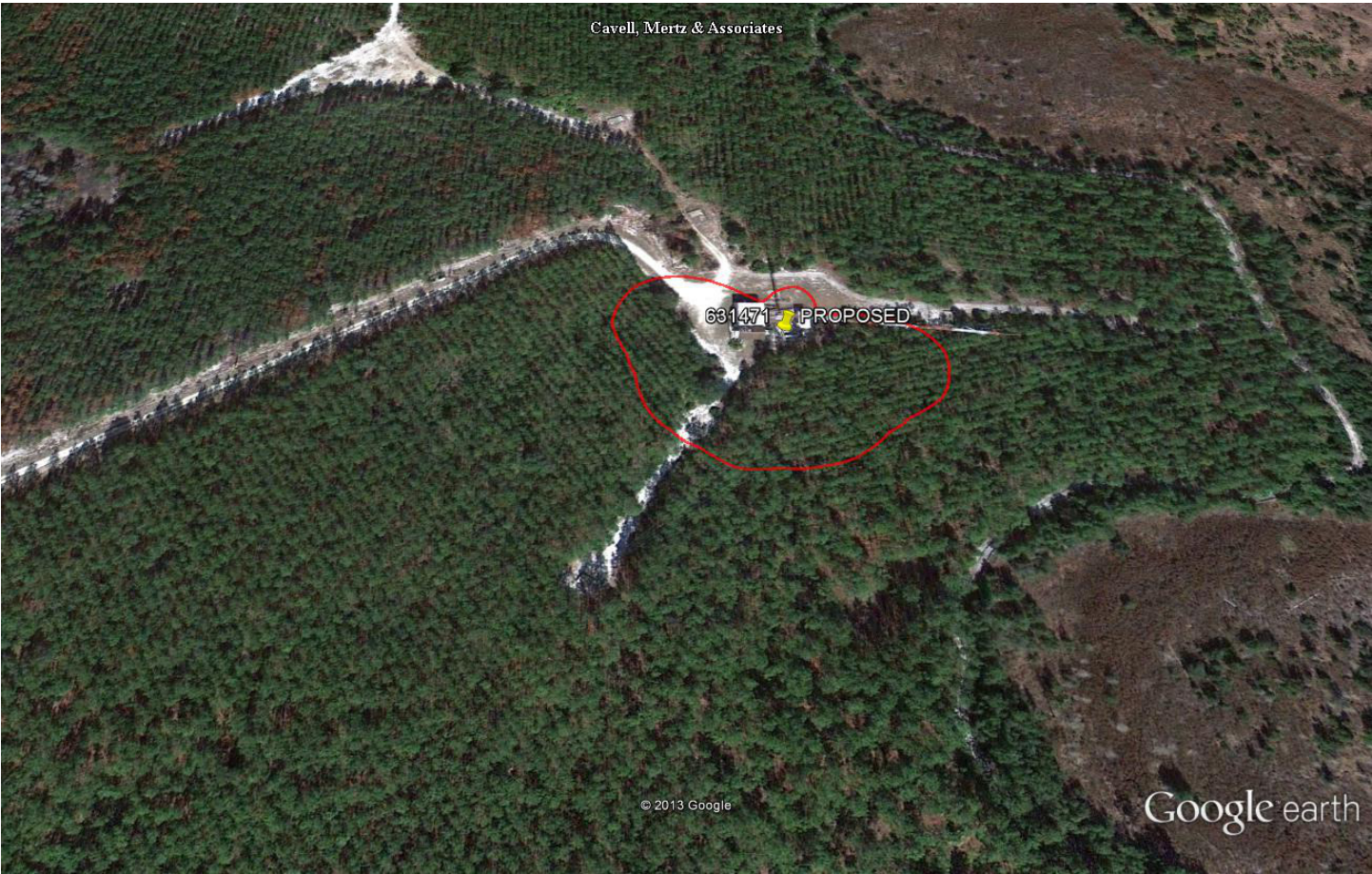
PROPOSED Daytona Beach, Florida
 Translator 74.1204(d) Showing
 Translator Maximum Licensed ERP = 0.1
 Translator Antenna Height AG = 165 Meters
 PROPOSED Antenna Model = CA5-FM-CP-RM

Protected Station's Contour = 81.10793 dBu
 Translator's full Interference contour 121.10793

Review Azimuth = Degrees True
 Horizontal Relative Field at Review Azimuth = 0.381
 Horizontal Translator ERP at Review Azimuth = 0.015 kW
 Distance between stations = 36.1
 Protected Station= WCFB, 100 kW, 460 M Meters COR AMSL

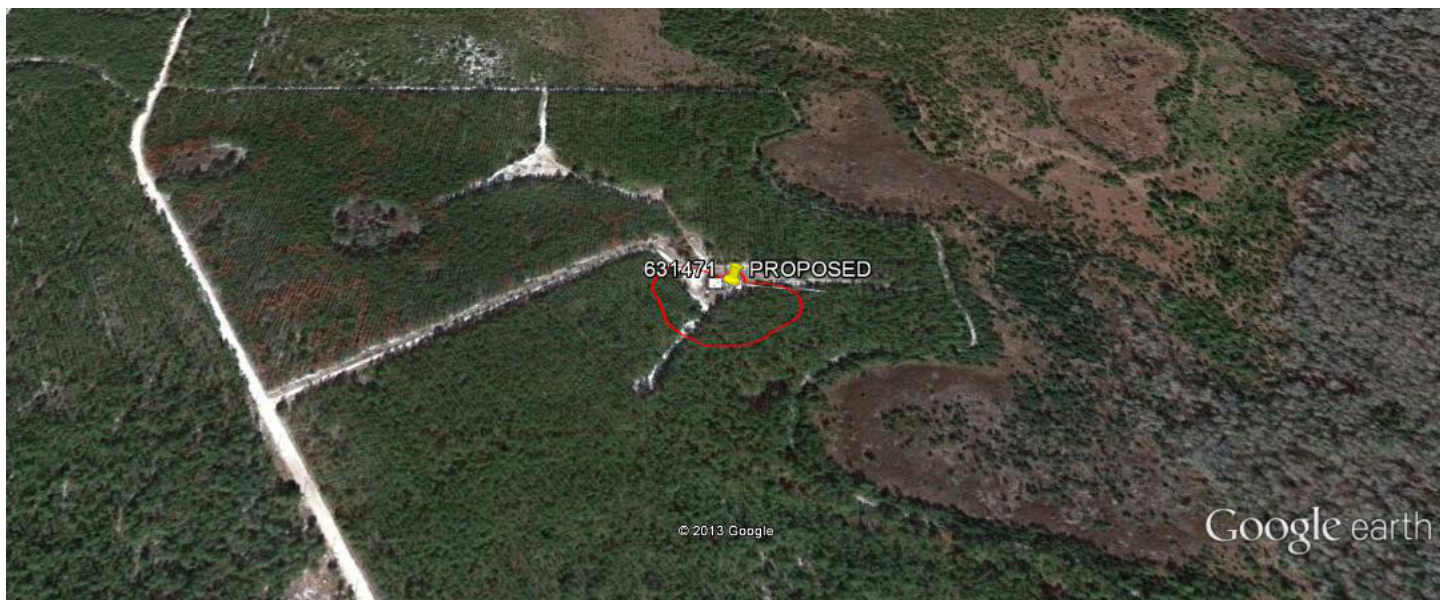
Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	0.38	0.0381	038.1124	038.1124	165.000
05.00	0.982	0.38	0.0368	037.4378	037.2953	161.737
10.00	0.952	0.38	0.0346	036.2944	035.7430	158.698
15.00	0.915	0.38	0.0319	034.8614	033.6735	155.977
20.00	0.866	0.38	0.0286	033.0053	031.0149	153.712
25.00	0.796	0.38	0.0241	030.3374	027.4951	152.179
30.00	0.718	0.38	0.0197	027.3761	023.7084	151.312
35.00	0.628	0.38	0.0150	023.9460	019.6154	151.265
40.00	0.528	0.38	0.0106	020.1348	015.4241	152.058
45.00	0.423	0.38	0.0068	016.1330	011.4077	153.592
50.00	0.329	0.38	0.0041	012.5504	008.0672	155.386
55.00	0.247	0.38	0.0023	009.4023	005.3930	157.298
60.00	0.190	0.38	0.0014	007.2414	003.6207	158.729
65.00	0.142	0.38	0.0008	005.4005	002.2824	160.105
70.00	0.134	0.38	0.0007	005.1071	001.7467	160.201
75.00	0.135	0.38	0.0007	005.1452	001.3317	160.030
80.00	0.142	0.38	0.0008	005.4005	000.9378	159.682
85.00	0.150	0.38	0.0009	005.7169	000.4983	159.305
90.00	0.157	0.38	0.0009	005.9951	000.0000	159.005





Google earth





FMC PROPOSED 121.1 dBu F(50-50)
PROPOSED