

## Channel Study

REFERENCE		CH# 213C3- 90.5 MHz, Pwr= 0.9 kW, HAAT= 265.0 M, COR= 520 M								DISPLAY DATES	
38 28 27.1 N.		Average Protected F(50-50)= 28.7 km								DATA 10-08-21	
93 30 28.8 W.		Omni-directional								SEARCH 11-05-21	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
211D Sedalia	K211FV!	LIC	VN MO	43.7 223.8	33.59 BLFT20120927AKX	38 41 33.10 93 14 26.70	0.054 61	0.5 312	6.0 Lake Area Educational Broa	5.5	25.7
212C3 Sunrise Beach	KCRL	LIC	DCN MO	111.8 292.2	69.78 BLED20150520AAE	38 14 21.10 92 45 56.60	25.000 60	34.7 296	22.3 Community Broadcasting, In	7.4	5.5
267D Sedalia	K267CO«!	LIC	CN MO	44.3 224.5	31.48 BLFT20180420ABQ	38 40 35.10 93 15 16.70	0.250	30.5 347	20.7 Benne Broadcasting Of Seda	24.5R	7.0M
213L1 Kansas City	KLHW-LP	LIC	CN MO	302.4 121.7	98.40 BLL20190903AAP	38 56 38.00 94 28 09.80	0.050 11			54.7	12.5
215C1 Warrensburg	KTBG	LIC	DCN MO	316.0 135.6	75.11 BLED20131211AJM	38 57 29.80 94 06 43.50	100.000 167	7.0 435	57.8 Public Television 19, Inc.	39.9	15.4
213A Columbia	KMUC	LIC	CN MO	62.9 243.7	115.35 BLED20151116ATA	38 56 26.50 92 19 13.30	1.650 46	63.5 268	19.2 The Curators Of The Univer	24.4	17.3
214C3 Lebanon	KTTK	LIC	CN MO	144.6 325.1	114.37 BLED19970627KF	37 37 58.20 92 45 22.60	11.000 145	63.3 517	42.9 Lebanon Educational Broadc	22.6	28.3
213D Parkville	KGSP!	LIC	CN MO	308.5 127.7	129.01 BLED20101210ALU	39 11 24.00 94 40 49.90	0.099 18	25.2 288	7.5 Board Of Trustees, Park Un	75.2	40.4
210C2 High Point	KMCV	LIC	DCN MO	80.5 261.1	85.42 BLED20101209AJF	38 35 48.10 92 32 17.70	50.000 96	4.6 337	42.6 Community Broadcasting, In	53.4	40.9
06 -- K06PT-D« Columbia		APP	DHN MO	60.3 241.0	122.57 0000163236	36 06 25.40 95 47 13.90	3.000	16.7 405	29.4	46.1R	76.5M
06 -- K06PT-D« Columbia		CP	N MO	62.8 243.6	114.09 BNPDVL-20091020AAM	36 06 25.40 95 47 13.90	0.300	16.7 236	8.8	25.5R	88.6M
06 -- NEW« Rolla		CP	N MO	110.1 291.1	160.88 BNPDVL-20090825BJS	36 06 25.40 95 47 13.90	0.300	16.8 470	17.4	34.2R	126.7M

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Terrain database is GLOBE 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= - Zone 2, Co to 3rd adjacent.  
All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
« = Station meets FCC minimum distance spacing for its class.  
< = Contour Overlap

## Population Report

Station: Clinton MO NCE (213)  
Contour: FCC F(50-50) 60.00 dBu (FCC HAAT)

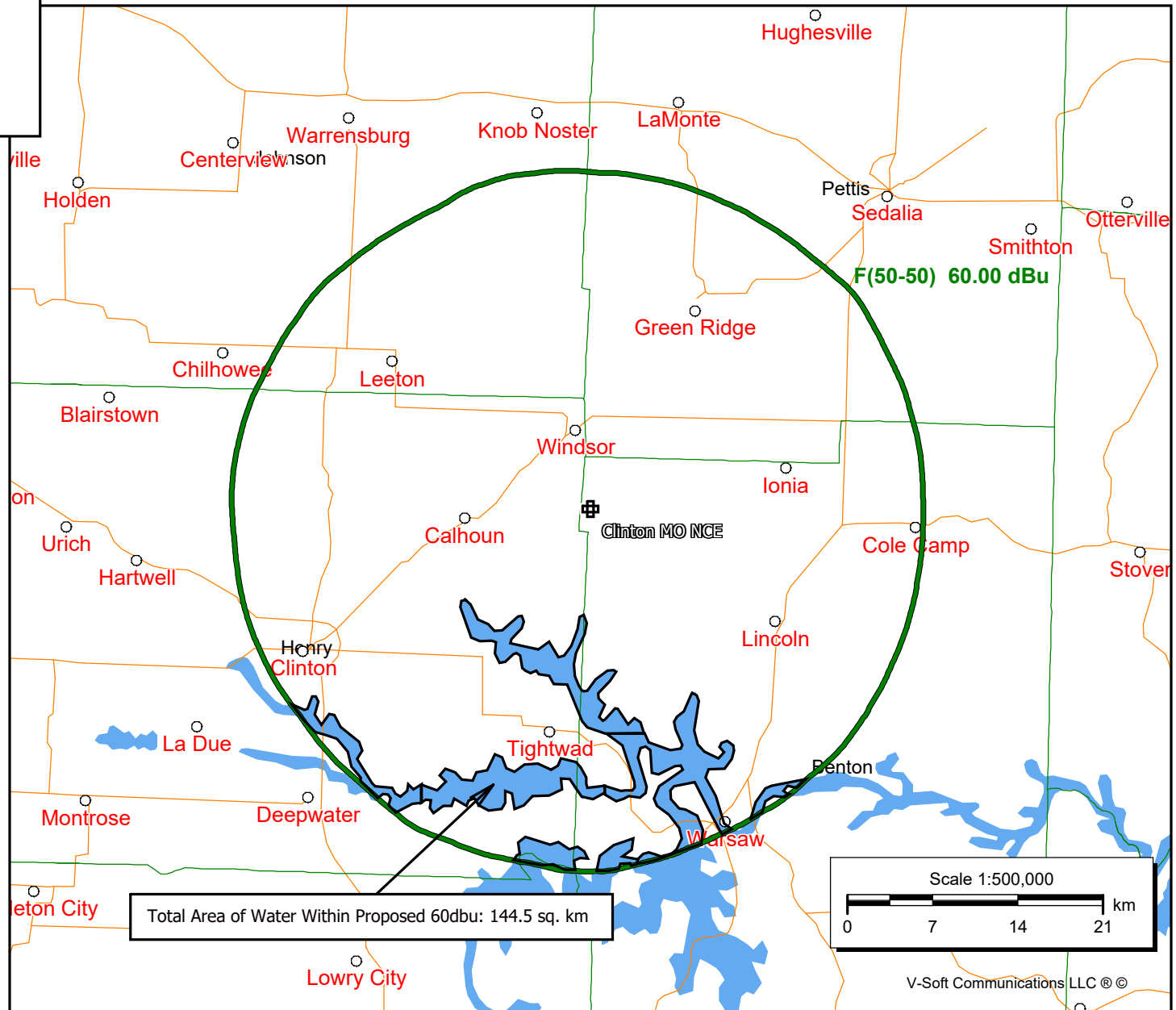
Population Database: 2010 US Census (PL)

Total Population: 36,083  
Total Area 60dbu: 2,545.0 sq. km  
Total of 60dbu Over Water: 144.5 sq. km  
Total of 60dbu Over Land: 2400.5 sq km

### Clinton MO NCE

Latitude: 38-28-27 N  
Longitude: 093-30-29 W  
ERP: 0.90 kW  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 520.0 m  
Elevation: 253.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

## New NCE Windsor, MO 60dbu Service Contour Area and Population



Overlap Population Report  
New NCE Windsor MO (213) / Windsor, MO

Overlap Area Type: Intersection  
Areas Included:  
New NCE Windsor MO (213): FCC F(50-50) 60.00 dBu (FCC HAAT)  
PLST: Windsor, MO

Population Database: 2010 US Census (PL)

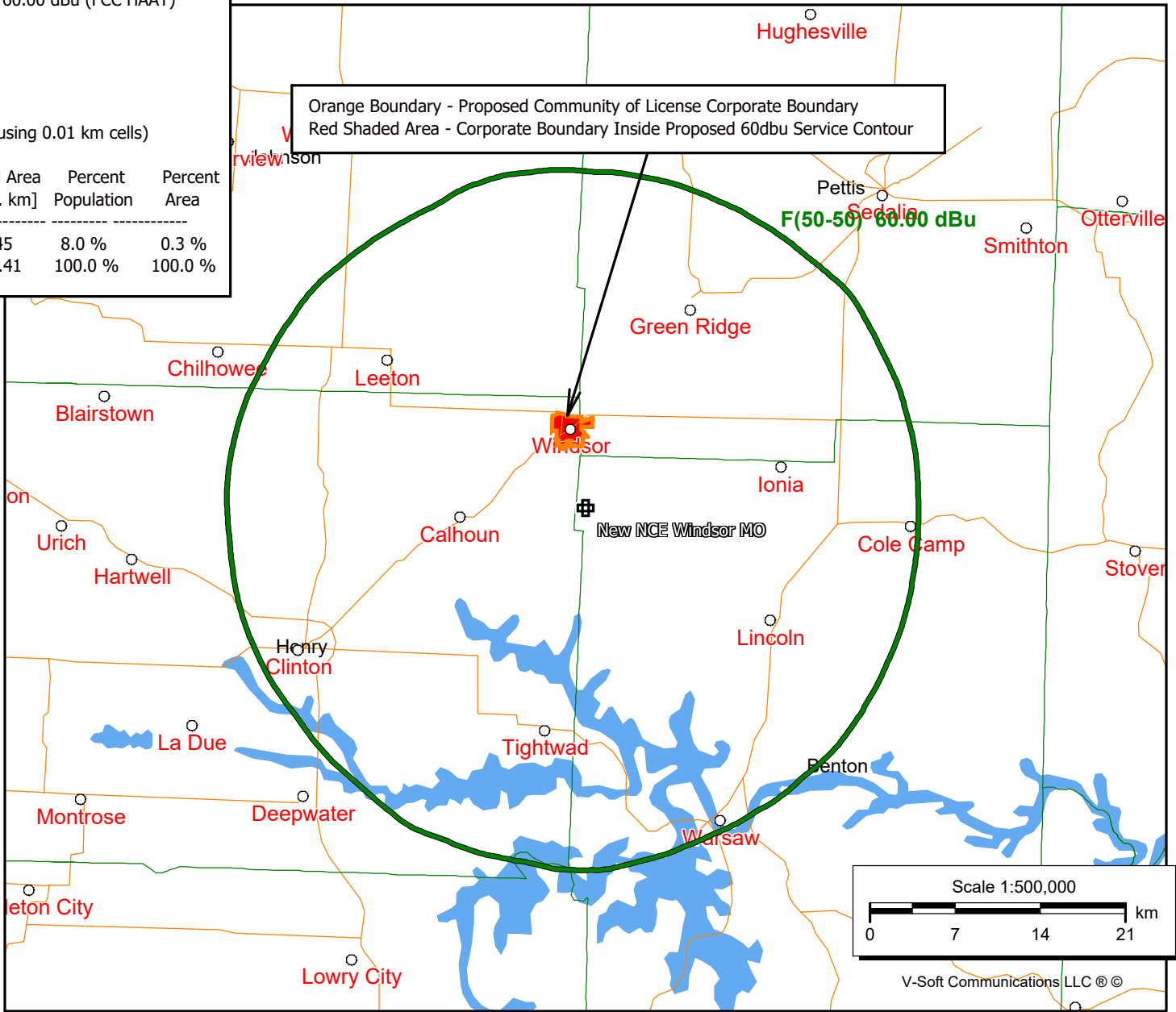
Total Population: 2,903  
Overlap Area: 6.41 sq. km (Area determined using 0.01 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
New NCE Windsor MO (213):	36,083	2,545	8.0 %	0.3 %
PLST: Windsor, MO	2,903	6.41	100.0 %	100.0 %

New NCE Windsor MO

Latitude: 38-28-27 N  
Longitude: 093-30-29 W  
ERP: 0.90 kW  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 520.0 m  
Elevation: 253.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

New NCE Windsor, MO  
Community of License Coverage  
Note: 100% of the Population and Area are Inside the 60dbu Contour



### **Environmental Protection**

The proposed New NCE facility will operate utilizing a 2 bay EPA Type 2 antenna.

The maximum theoretical RF value is  $0.16\mu\text{W}/\text{cm}^2$  at a distance of 151 meters from the tower, which is 0.08% of the  $200\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 0.016% of the  $1000\mu\text{W}/\text{cm}^2$  permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

Applicant will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.