

Exhibit 1.0 - New NCE Station Houghton MI

Munn-Reese.Com

New NCE - Houghton MI

ASR 1057350

Latitude: 46-57-57 N

Longitude: 088-46-24 W

ERP: 25.00 kW

Channel: 205

Frequency: 88.9 MHz

AMSL Height: 485.0 m

Elevation: 406.9 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None

Contour: FCC F(50-50) 60.00 dBu (FCC HAAT)

Population Database: 2010 US Census (PL)

Total Population: 39,089

Housing Units: 20,033

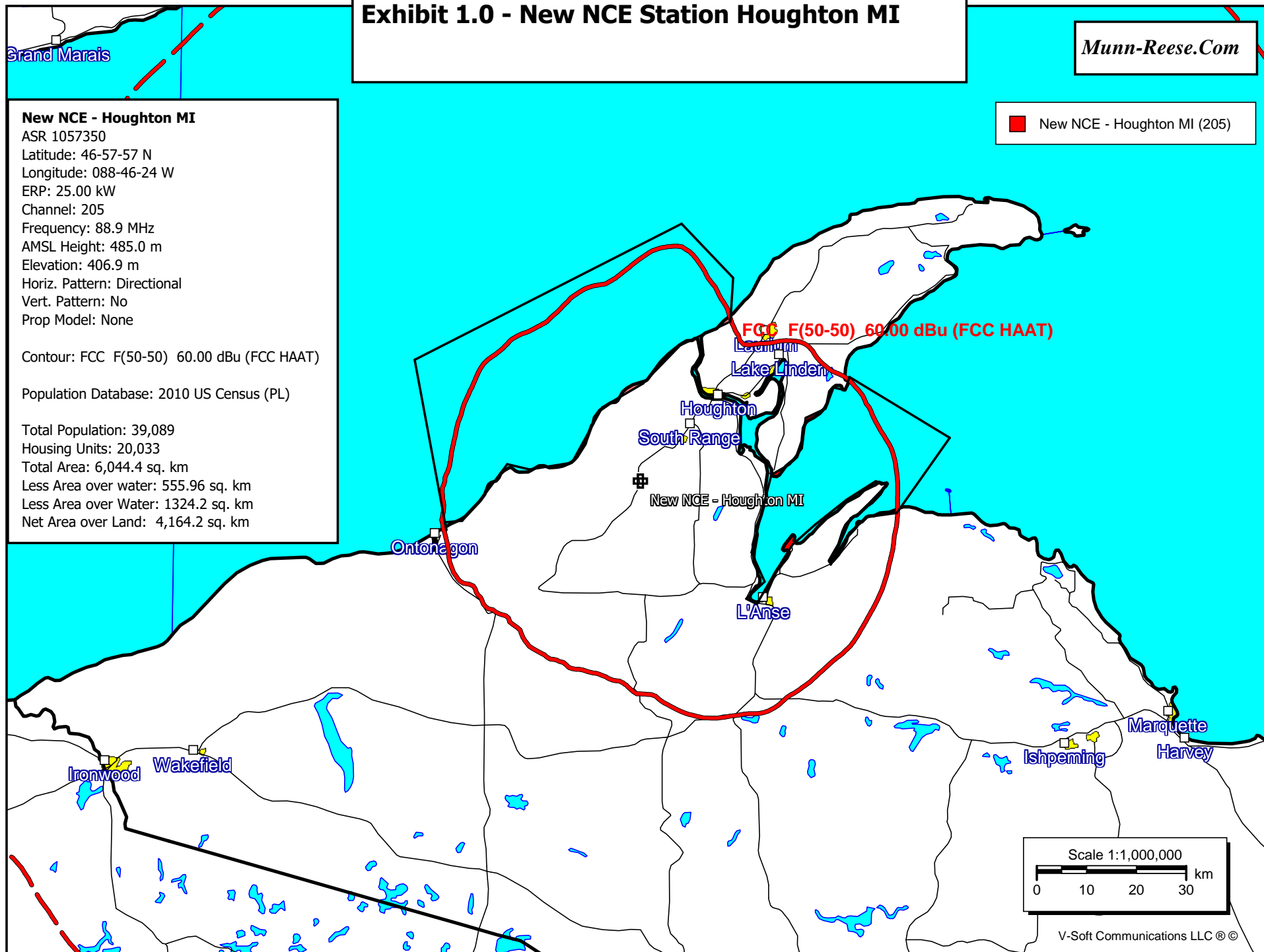
Total Area: 6,044.4 sq. km

Less Area over water: 555.96 sq. km

Less Area over Water: 1324.2 sq. km

Net Area over Land: 4,164.2 sq. km

■ New NCE - Houghton MI (205)



Scale 1:1,000,000

0 10 20 30 km

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CH# 205C2 - 88.9 MHz, Pwr= 25 kW DA, HAAT= 164.8 M, COR= 485 M
New NCE Station - Houghton MI
Average Protected F(50-50)= 47.85 km
Standard Directional

REFERENCE			
46	57	57.00	N.
88	46	24.00	W.

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DISPLAY DATES
DATA      10-31-21
SEARCH    11-02-21

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CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)	
205C2 Manistique	WCRR	LIC _CN MI	121.6 303.2	207.26 BLED20121206ADD	45 57 86 29	59.90 17.70	24.500 217	128.0 425	50.8 Christianradio	25.9 broadcasting	24.5
204C1 Minocqua	WQMN	APP _CN WI	210.5 29.9	125.40 0000162775	45 59 89 35	28.70 53.60	50.000 67	59.1 571	35.3 Radio 74	26.3 Internationale	28.9
205C1 Reserve	WOJB	LIC _CN WI	239.3 57.4	231.90 BLED19820428AH	45 52 91 20	15.80 56.60	100.000 184	160.9 595	63.1 Lac Courte Oreilles	30.6 Ojibwa	54.4
202C1 Michigamme	WKPK	APP _VN MI	114.2 295.1	96.52 0000162677	46 36 87 37	14.10 15.10	40.000 285	6.4 666	55.3 Northland Community	36.8 Broadc	35.2
204C3 Grand Marais	WMLS	LIC _CN MN	307.5 126.4	148.25 BLED20020411AAK	47 46 90 20	03.60 47.40	6.000 194	72.7 537	48.8 Minnesota Public	36.8 Radio	42.0
205C1 Wittenberg	WVRN	APP DCN WI	184.7 4.5	223.17 0000162809	44 57 89 00	53.90 18.40	90.000 146	144.8 518	52.4 Vcy America, Inc.	37.6	55.2
202C2 Michigamme	WKPK	LIC _VN MI	114.2 295.1	96.51 BLED20080711ACT	46 36 87 37	13.80 15.50	15.000 252	4.5 633	43.6 Northland Community	38.7 Broadc	46.9
207C0 Munising	WSHN	LIC DHN MI	114.2 295.1	96.51 BLED20140117AOF	46 36 87 37	13.80 15.50	100.000 313	3.1 694	35.8 Christianradio	40.1 broadcasting	54.7
206C3 Rhinelande	KSPP	LIC _VN WI	208.9 28.3	140.68 BLED20170801ADU	45 51 89 39	17.30 06.20	18.000 87	51.7 579	32.5 Northwoods Catholic	48.8 Radio	46.8
205C2 Wittenberg	WVRN	LIC _CN WI	184.7 4.5	223.17 BLED20080102ABT	44 57 89 00	53.90 18.40	25.000 147	117.0 518	41.9 Vcy America, Inc.	65.4	65.7
204B Schreiber	AL9232	VAC ____ ON	28.6 209.7	233.54	48 47 87 15	59.55 00.28	50.000 150	78.1 150	65.0	164.0R	69.5M
204A Minocqua	WQMN	LIC _CN WI	213.7 33.0	143.24 BLED20150515AAN	45 53 89 48	22.80 04.50	0.400 30	11.4 514	8.0 Radio 74	92.1 Internationale	74.3
205A Atikokan	AL9798	VAC ____ ON	313.8 131.7	288.61	48 43 91 36	27.61 38.41	6.000 100	86.2 529	38.0	210.0R	78.6M
202A Ironwood	WKIW	LIC _VN MI	242.2 61.1	122.80 BLED20080716AGQ	46 26 90 11	27.80 26.60	0.300 157	1.2 600	16.8 Educational Media	80.4 Foundati	101.7
207B Thunder Bay	CBON20	LIC DCN ON	349.4 169.0	179.35	48 33 89 13	01.50 25.20	27.500 173	7.1 557	74.2	94.0R	85.4M
258A Negaunee	WNGE	LIC _CN MI	116.6 297.5	110.67 BLH20010626AAJ	46 30 87 28	50.80 58.50	3.600 131	0.0 462	0.0 Sovereign	14.5R Communications,	96.2M

Terrain database is NED 03 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.
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
Reference station has protected zone issue: Canada