

## Exhibit 8.0

### Discussion of Allocation Study

---

The present application requests a change in frequency for WSFT-LP at Berrien Springs, MI pursuant to §73.870(a). WSFT-LP is a low power FM (LPFM) station currently licensed<sup>1</sup> to operate on Channel 242, 96.3 MHz, with 57 watts at 40 meters height above average terrain (HAAT). This application requests the frequency be changed to Channel 288, 105.5 MHz. No other changes are requested.

A tabulation of the required spacing to other authorized facilities is shown in **Exhibit 8.1**. This tabulation shows that all of the spacing requirements for the proposed channel are met from the present licensed site. Thus, no change in location, height or power are anticipated or requested. The only change requested is in the authorized operating frequency.

The licensee has noted considerable received interference from co-channel station WBBM-FM operating from Chicago on Channel 242B. Using the standard “zebra” map methodology based on protected and interference contours<sup>2</sup> paired by ratio, a map of the received interference on the present channel is shown in **Exhibit 8.2**. In §73.807(a), the FCC allows LPFM stations to move to any other frequency “upon a technical showing of reduced interference.” The population and area data<sup>3</sup> shown in **Exhibit 8.2** will serve as the benchmark for comparison with the proposed channel.

On the proposed channel, WSFT-LP will receive contour overlap from three authorized facilities—only two of which will be operating simultaneously. The interference contours from both the licensed<sup>4</sup> and construction permit<sup>5</sup> facilities of WOOD-FM at Grand Rapids, MI, along with the interference contour from WTHD<sup>6</sup> at Lagrange, IN, overlap the proposed WSFT-LP 60 dBμ service contour. Interference area maps have been prepared for each of these facilities.

The predicted interference area from the licensed WOOD-FM facility is shown in **Exhibit 8.3**. The map shows the number of people within the interference free service area increases 65.8 percent from the present interference free population. And, a much greater portion of Berrien Springs will receive interference free coverage.

As noted above, WOOD-FM holds a construction permit in addition to its present license. The interference map for the construction permit facility is shown in **Exhibit 8.4**. Implementation of this facility will further increase the number of people within the

---

<sup>1</sup> File No. BLL-20041117AAV

<sup>2</sup> Contours were plotted using the USGS 03 second digitized terrain database.

<sup>3</sup> Data is from the 2000 US Census population centroids as implemented in Probe III™ software.

<sup>4</sup> File No. BMLH-19931005KD

<sup>5</sup> File No. BPH-20070329AIQ

<sup>6</sup> File No. BLH-20031222AAB

interference free service area—representing a 98.3 percent increase over the present area. Furthermore, virtually all of Berrien Springs will be included in the interference free area. Obviously, only the WOOD-FM licensed or construction permit facility will be operating at any one time. Thus, the proposed channel offers a significant reduction in interference in the immediate future with an even greater reduction once WOOD-FM builds out its construction permit.

The interference map for the final source of incoming overlap is shown in **Exhibit 8.5**. The predicted WTHD interference area is a small sliver along the very eastern edge of the predicted WSFT-LP service contour. It includes a small land area of 3.07 km<sup>2</sup> without any resident population. The WTHD interference area is completely contained within the two WOOD-FM interference areas and does not reach the target city of Berrien Springs.

For comparison purposes, the predicted WSFT-LP service contour and all of the interference area boundaries have been superimposed on the single map shown in **Exhibit 8.6**. The improvement in interference free area is intuitively obvious. Coupled with the population and area data shown in the previous exhibits, it is clear the proposed channel complies with the requirements of §73.870(a) for moving to a non-adjacent channel.

**Exhibit 8.1**  
**Tabulation of Allocation**

Life Search Radio, Inc.  
WSFT-LP - Berrien Springs, MI

REFERENCE

41 55 25.0 N.

86 16 56.0 W.

CLASS = L1 Int = L1

Current Spacings

----- Channel 288 - 105.5 MHz -----

DISPLAY DATES

DATA 08-04-07

SEARCH 08-07-07

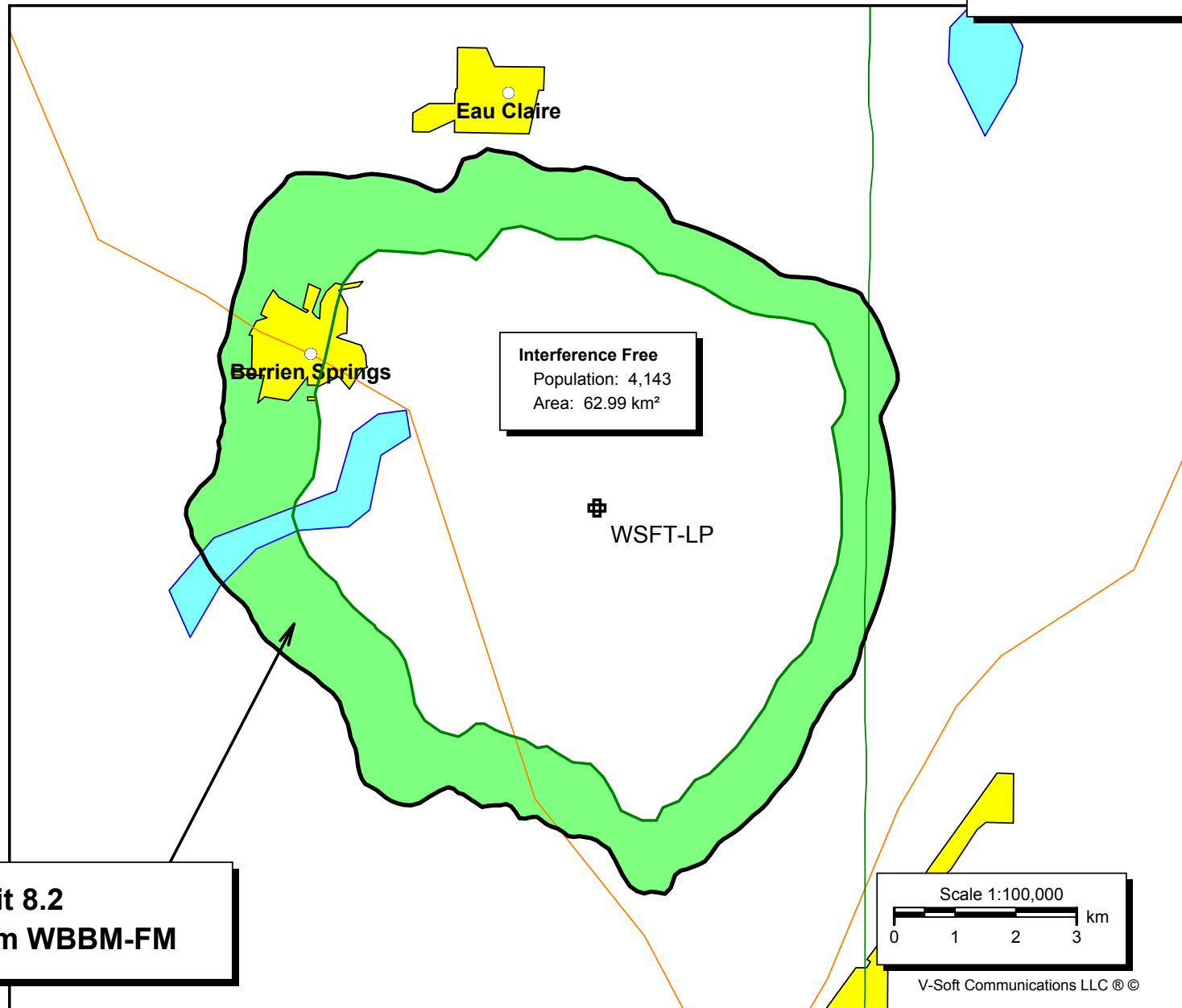
Call	Channel	Location	Azi	Dist	FCC	Margin
WOOD-FM CP	289B	Grand Rapids MI	37.1	102.34	96.5	5.84
WLJE LIC	288A	Valparaiso IN	234.3	75.65	66.5	9.15
WOOD-FM LIC	289B	Grand Rapids MI	36.6	106.04	96.5	9.54
Grandfathered with 265 kW ERP at 247 meters HAAT						
WVBH-LP LIC	287L1	Benton Harbor MI	327.5	24.47	13.5	10.97
WCNF LIC-N	235A	Benton Harbor MI	336.2	18.02	5.5	12.52
AP3834 APP	291D	Benton Harbor MI	331.0	20.63	7.5	13.13
AP0004 APP	291D	Benton Harbor MI	327.3	24.01	7.5	16.51
WTHD LIC	288A	Lagrange IN	113.0	84.61	66.5	18.11
W286AT LIC	286D	Elkhart IN	141.4	42.89	7.5	35.39
WOJO LIC	286B	Evanston IL	269.0	111.28	66.5	44.78
WCKG LIC	290B	Elmwood Park IL	267.9	112.41	66.5	45.91
WJUK-LP LIC	289L1	Plymouth IN	184.3	64.16	13.5	50.66
W291BQ CP	291D	Plymouth IN	174.8	67.40	7.5	59.90
WHTS LIC	287B	Coopersville MI	11.0	156.93	96.5	60.43
AL6792 RSV	287B	Coopersville MI	11.9	161.27	96.5	64.77
Change of Community from Hart. Pet. for Recon. filed 3/25/04.						
W286AU LIC	286D	Allegan MI	31.5	75.72	7.5	68.22

-----  
Reference station has protected zone issue: Canada

**WSFT-LP**  
BLL20041117AAV  
Berrien Springs MI  
Latitude: 41-55-25 N  
Longitude: 086-16-56 W  
ERP: 0.057 kW  
HAAT: 40.0 m  
Channel: 242  
Frequency: 96.3 MHz  
AMSL Height: 265.0 m  
Elevation: 237.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None  
Population: 9,569  
Area: 101.79 km<sup>2</sup>

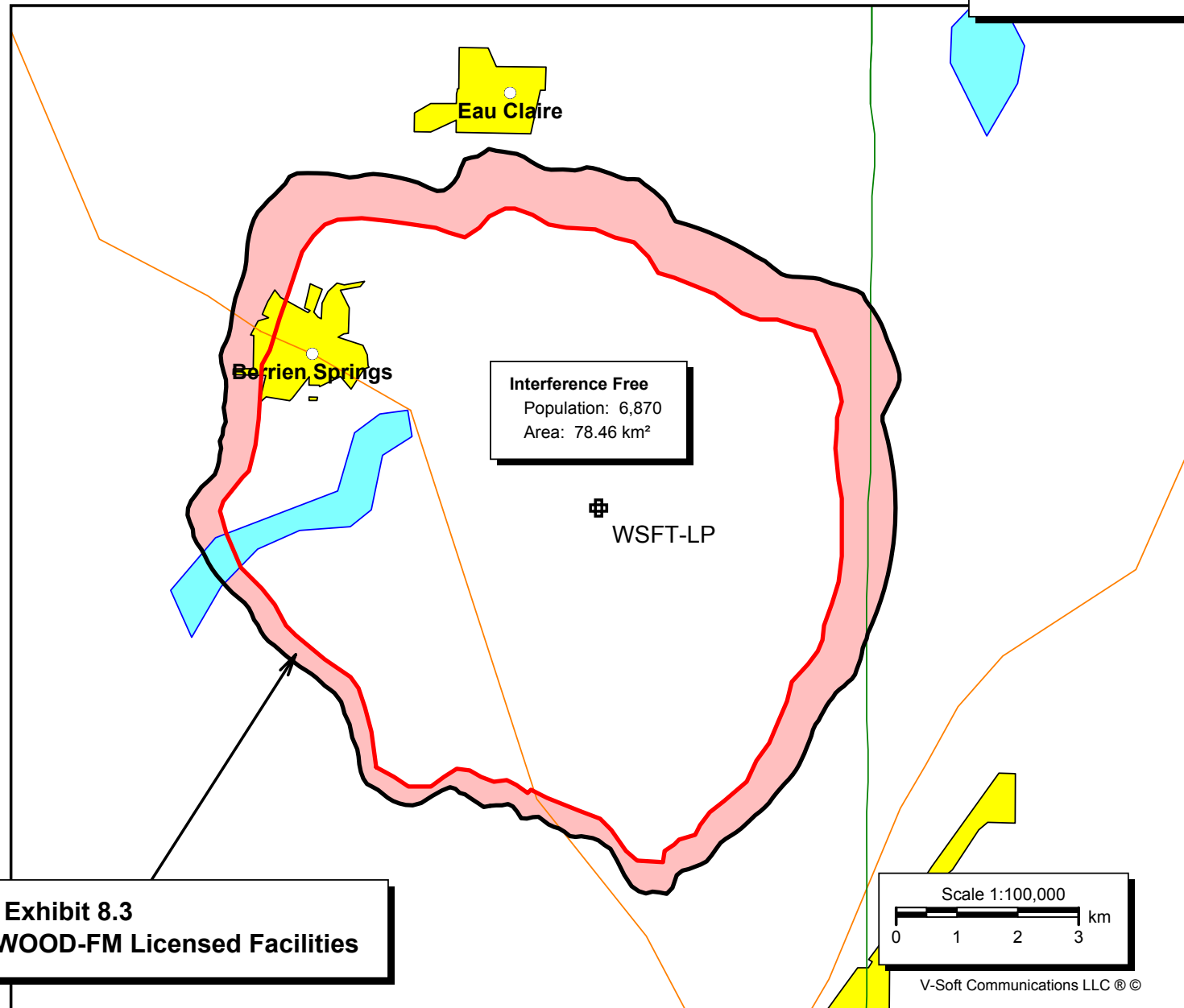
**WBBM-FM**  
BMLH20011026AAG  
Chicago IL  
Latitude: 41-52-44 N  
Longitude: 087-38-08 W  
ERP: 4.20 kW  
HAAT: 474.0 m  
Channel: 242  
Frequency: 96.3 MHz  
AMSL Height: 655.0 m  
Elevation: 181.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

**Exhibit 8.2**  
**Interference from WBBM-FM**



**WSFT-LP**  
 PROPOSED OPERATION  
 Berrien Springs MI  
 Latitude: 41-55-25 N  
 Longitude: 086-16-56 W  
 ERP: 0.057 kW  
 HAAT: 40.0 m  
 Channel: 288  
 Frequency: 105.5 MHz  
 AMSL Height: 265.0 m  
 Elevation: 237.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None  
 Population: 9,569  
 Area: 101.79 km<sup>2</sup>

**WOOD-FM**  
 BMLH19931005KD  
 Grand Rapids MI  
 Latitude: 42-41-13 N  
 Longitude: 085-30-35 W  
 ERP: 265.00 kW  
 HAAT: 247.0 m  
 Channel: 289  
 Frequency: 105.7 MHz  
 AMSL Height: 492.0 m  
 Elevation: 250.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

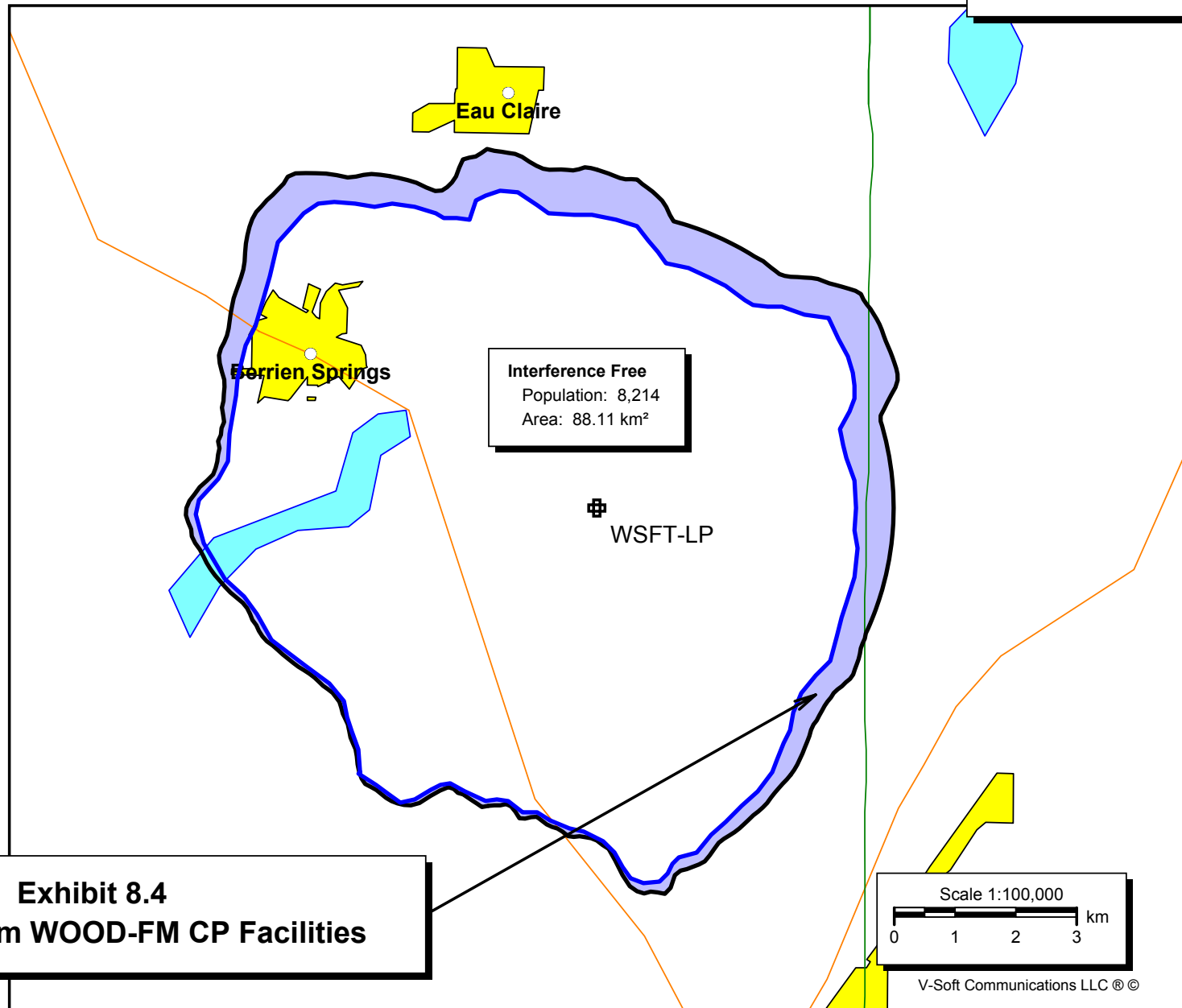


**Exhibit 8.3**  
**Interference from WOOD-FM Licensed Facilities**

**WSFT-LP**  
PROPOSED OPERATION  
Berrien Springs MI  
Latitude: 41-55-25 N  
Longitude: 086-16-56 W  
ERP: 0.057 kW  
HAAT: 40.0 m  
Channel: 288  
Frequency: 105.5 MHz  
AMSL Height: 265.0 m  
Elevation: 237.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None  
Population: 9,569  
Area: 101.79 km<sup>2</sup>

**WOOD-FM.C**  
BPH20070329AIQ  
Grand Rapids MI  
Latitude: 42-39-17.40 N  
Longitude: 085-31-37.90 W  
ERP: 265.00 kW  
HAAT: 177.0 m  
Channel: 289  
Frequency: 105.7 MHz  
AMSL Height: 424.4 m  
Elevation: 241.5 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**Exhibit 8.4**  
**Interference from WOOD-FM CP Facilities**



**Munn-Reese, Inc.**

**WSFT-LP**

PROPOSED OPERATION

Berrien Springs MI

Latitude: 41-55-25 N

Longitude: 086-16-56 W

ERP: 0.057 kW

HAAT: 40.0 m

Channel: 288

Frequency: 105.5 MHz

AMSL Height: 265.0 m

Elevation: 237.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Population: 9,569

Area: 101.79 km<sup>2</sup>

**WTHD**

BLH20031222AAB

Lagrange IN

Latitude: 41-37-24 N

Longitude: 085-20-49 W

ERP: 2.40 kW

HAAT: 159.0 m

Channel: 288

Frequency: 105.5 MHz

AMSL Height: 445.0 m

Elevation: 298.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

**Berrien Springs**

**Eau Claire**

**Interference Free**

Population: 9,569

Area: 98.72 km<sup>2</sup>



WSFT-LP

**Exhibit 8.5**

**Interference from WTHD**

Scale 1:100,000

0 1 2 3 km

V-Soft Communications LLC ©

**WSFT-LP**  
 PROPOSED OPERATION  
 Berrien Springs MI  
 Latitude: 41-55-25 N  
 Longitude: 086-16-56 W  
 ERP: 0.057 kW  
 HAAT: 40.0 m  
 Channel: 288  
 Frequency: 105.5 MHz  
 AMSL Height: 265.0 m  
 Elevation: 237.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

WOOD-FM  
 Construction Permit

Eau Claire

F(50-50) 60.0 dBu

WOOD-FM  
 License

Berrien Springs

Present

WSFT-LP

WTHD

**Exhibit 8.6**  
**Comparison of**  
**Interference Area**  
**Boundaries**

Scale 1:100,000  
 0 1 2 3 km

