

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 licensed¹ 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 contours² 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 data³ 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 licensed⁴ and construction permit⁵ facilities of WOOD-FM at Grand Rapids, MI, along with the interference contour from WTHD⁶ at Lagrange, IN, overlap the proposed WSFT-LP 60 dB μ 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

¹ File No. BLL-20041117AAV

² Contours were plotted using the USGS 03 second digitized terrain database.

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

⁴ File No. BMLH-19931005KD

⁵ File No. BPH-20070329AIQ

⁶ 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 km² 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

DISPLAY DATES
DATA 08-04-07
SEARCH 08-07-07

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

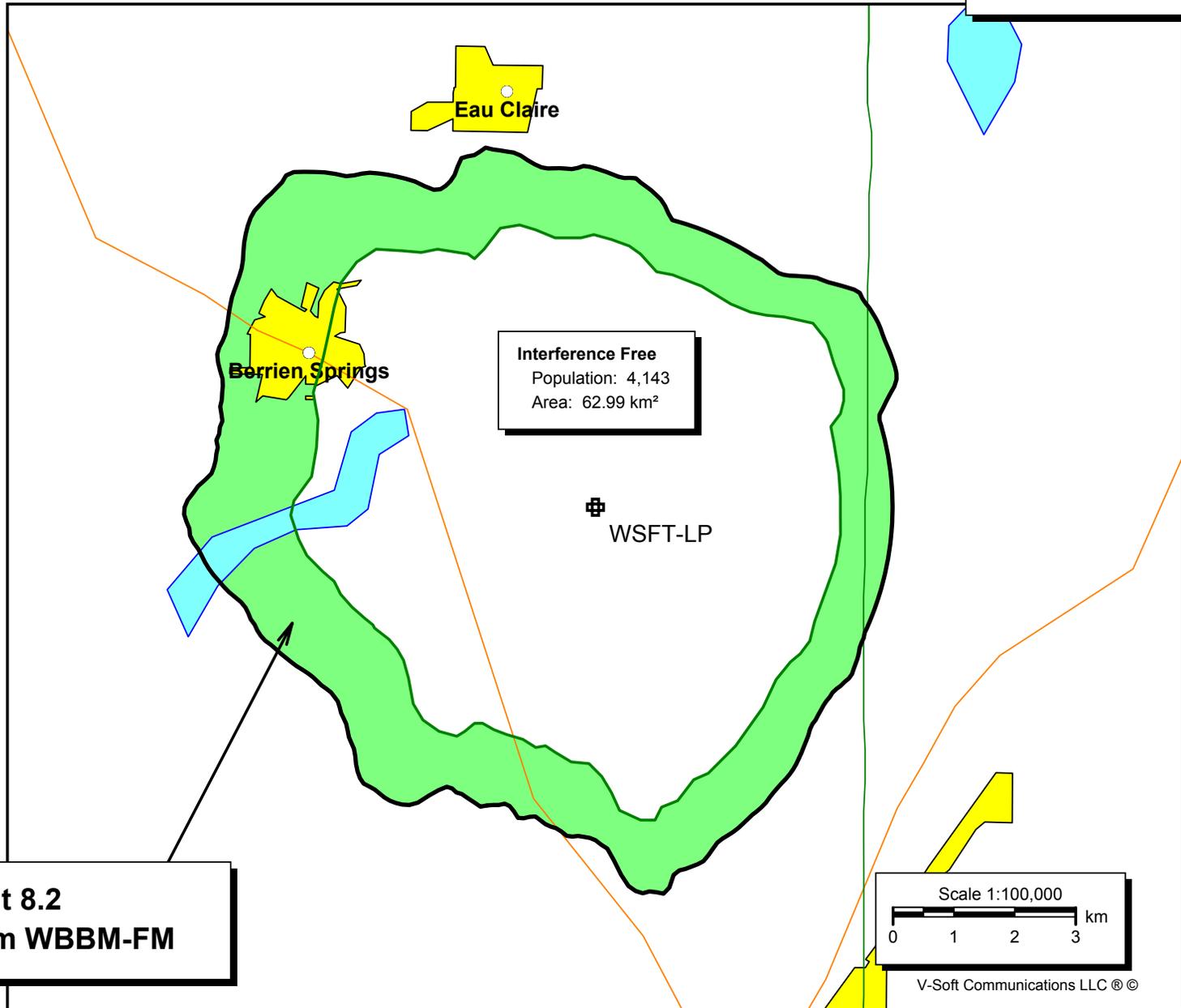
Call	Channel	Location		Azi	Dist	FCC	Margin
WOOD-FM CP	289B	Grand Rapids	MI	37.1	102.34	96.5	5.84
WLJE LIC	288A	Valparaiso	IN	234.3	75.65	66.5	9.15
WOOD-FM LIC	289B	Grand Rapids	MI	36.6	106.04	96.5	9.54
Grandfathered with 265 kW ERP at 247 meters HAAT							
WVBH-LP LIC	287L1	Benton Harbor	MI	327.5	24.47	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 km²

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



Scale 1:100,000
0 1 2 3 km

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 km²

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

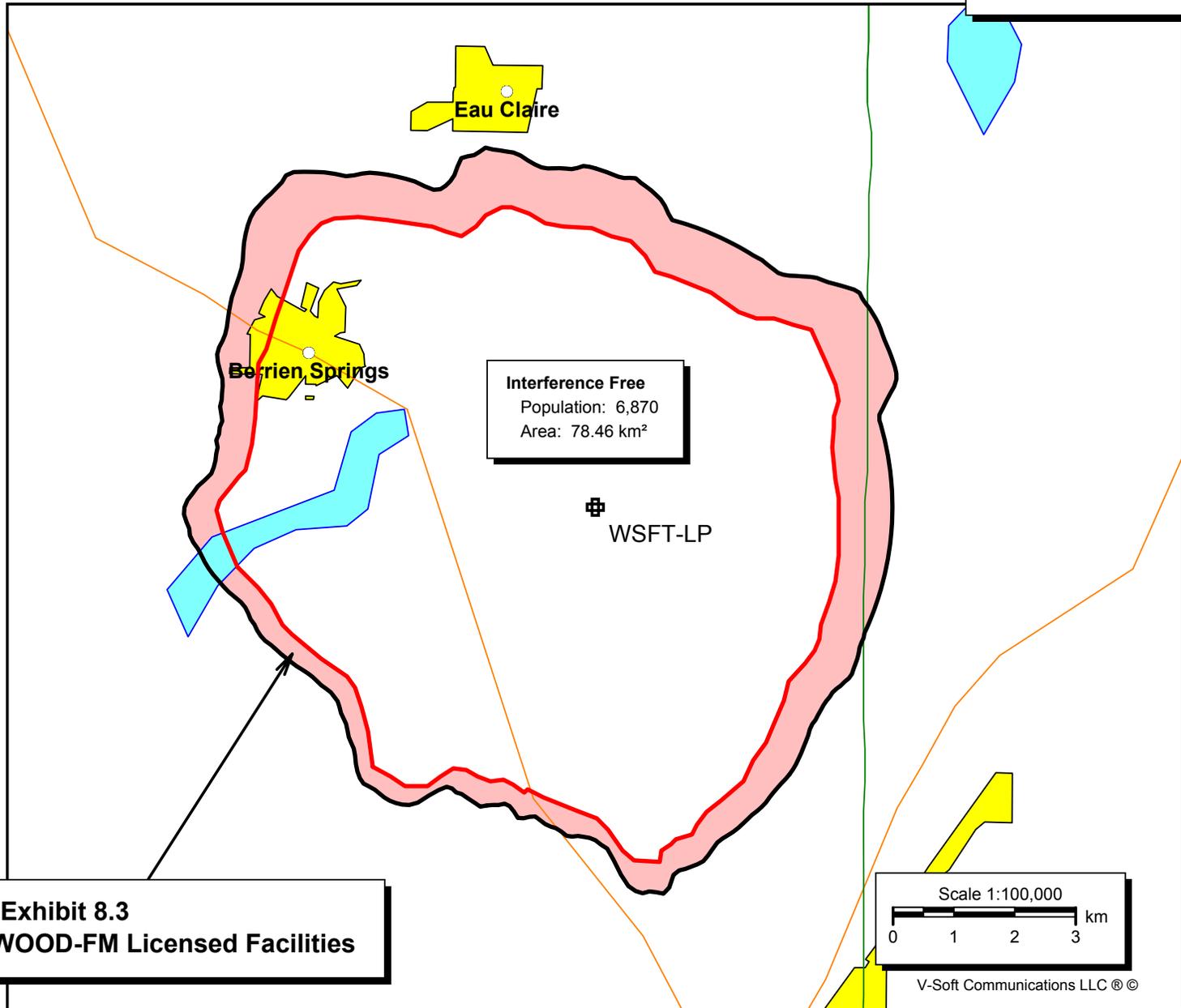


Exhibit 8.3

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 km²

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

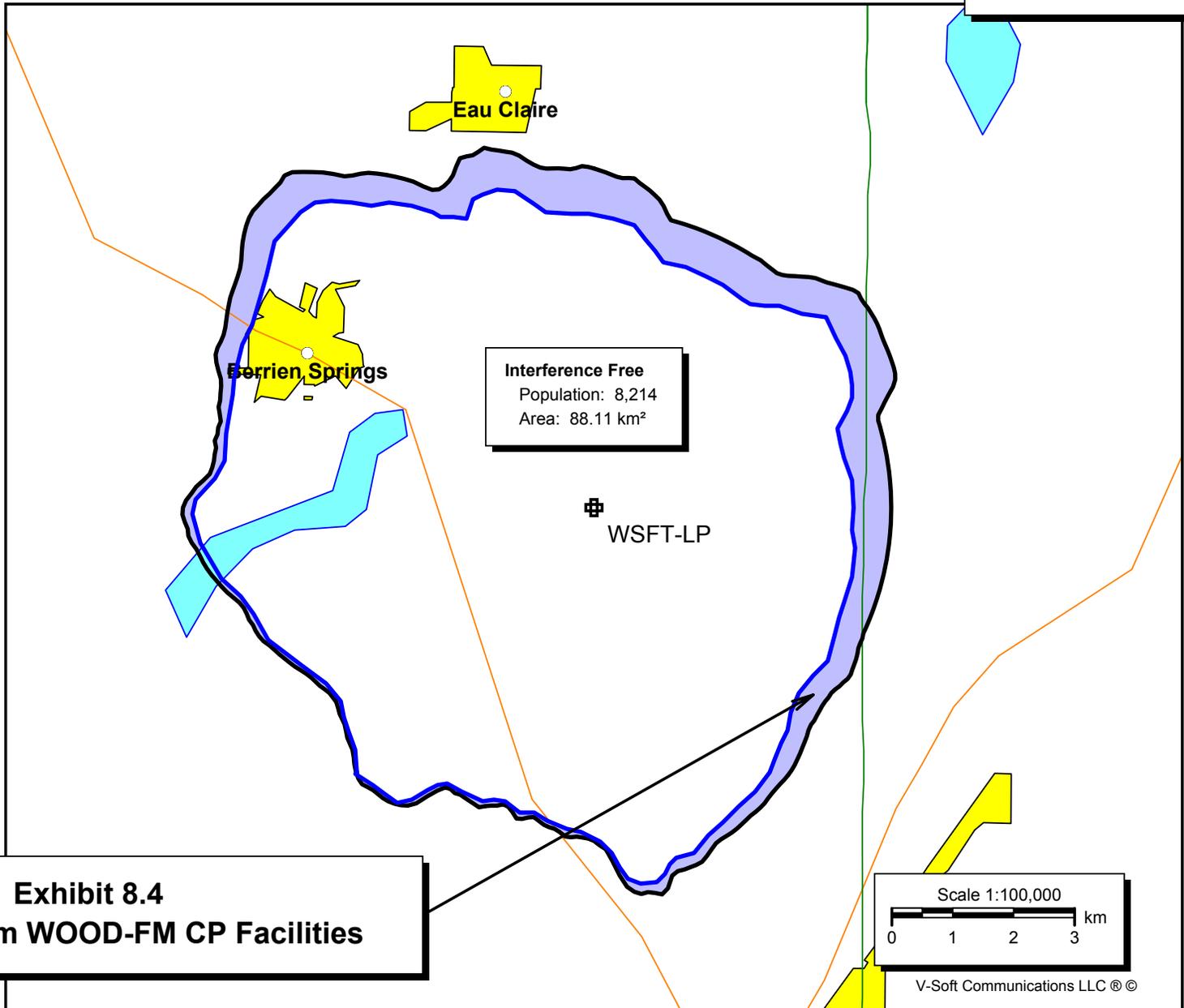
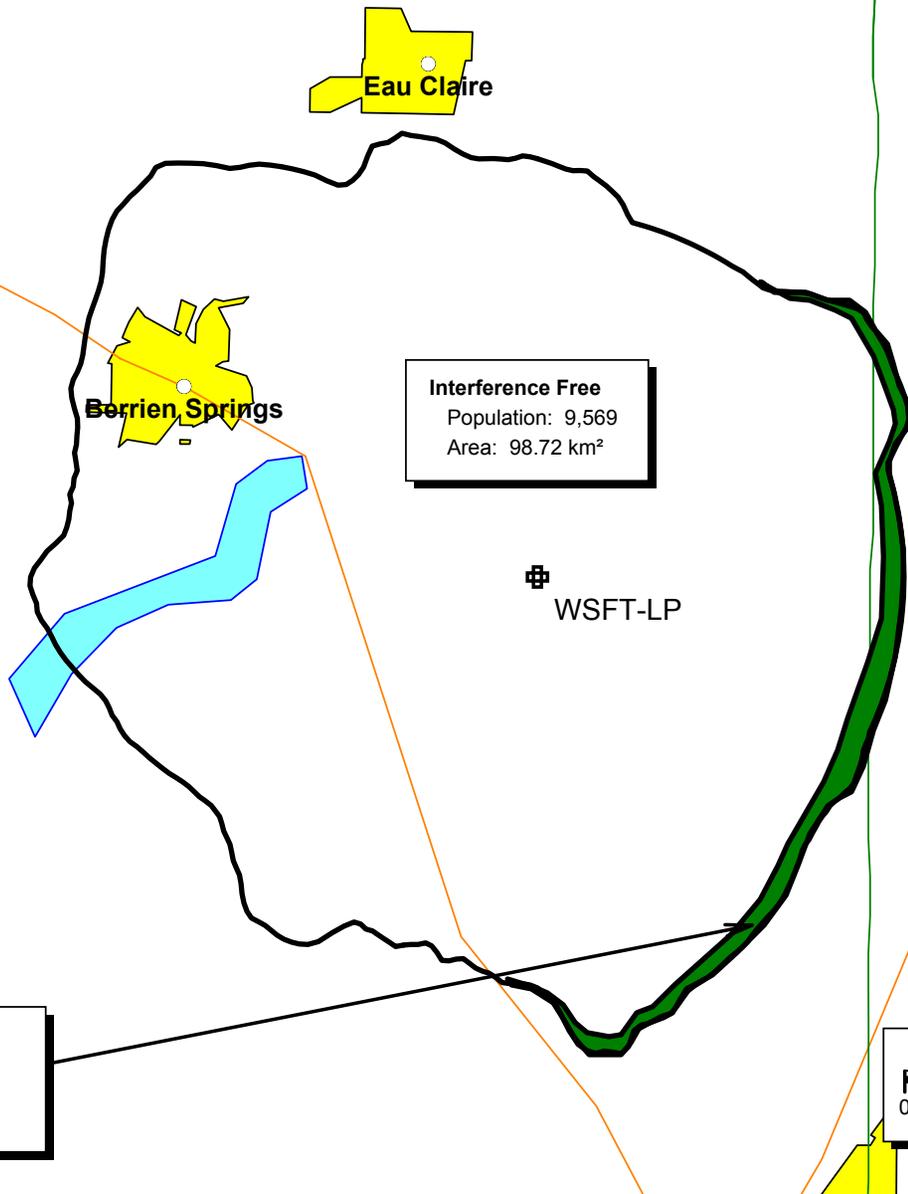


Exhibit 8.4
Interference from WOOD-FM CP Facilities

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 km²

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



Interference Free
Population: 9,569
Area: 98.72 km²

⊕
WSFT-LP

Berrien Springs

Eau Claire

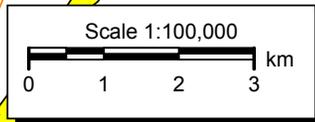


Exhibit 8.5
Interference from WTHD

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

