

ASR Registration Search

Registration 1060574 [Map Registration](#)**Registration Detail**

Reg Number	1060574	Status	Constructed
File Number	A0071020	Constructed	03/12/1992
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	42-48-59.0 N 085-57-24.0 W	Address	2640 72ND AVENUE
City, State	ZEELAND , MI		
Zip	49464	County	OTTAWA
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
198.7	123.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
321.8	122.2

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	97-AGL-0323-OE	FAA Issue Date	02/20/1997
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Owner & Contact Information

FRN	Owner Entity Type
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Owner

LANSER BROADCASTING CORPORATION DBA = STATION WJQK Attention To: LES LANSER 5658 143RD AVENUE HOLLAND , MI 49423	P: (616)394-1260 F: E:
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Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	02/04/1999
Purpose	New	Entered	02/04/1999
Mode	Interactive		

Related Applications

02/04/1999

A0071020 - New (NE)

Comments

Comments

None

History

Date

Event

None

Automated Letters

None

CLOSE WINDOW

Exhibit 13.2 - Present and Proposed W243BD vs. WPNW (AM) Contour

Munn-Reese.com

WPNW.L

Latitude: 42-43-56 N
Longitude: 086-06-06 W

Frequency: 1260 kHz

W243BD

BLFT20120608AAS
Latitude: 42-48-59 N
Longitude: 085-57-20 W
ERP: 0.25 kW
Channel: 243
Frequency: 96.5 MHz
AMSL Height: 302.0 m
Elevation: 198.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

W243BD.P

Proposed Operation
Latitude: 42-48-59 N
Longitude: 085-57-24 W
ERP: 0.25 kW
Channel: 243
Frequency: 96.5 MHz
AMSL Height: 302.0 m
Elevation: 198.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

- Ke
- W243BD (243)
 - W243BD.P (243)
 - WPNW.L

Circle R = 40.0 km

2.0 mV/m

Ottawa

W243BD.P

WPNW.L

Allegan

Barry

Scale 1:500,000

0 7 14 21 km

Munn-Reese
Coldwater, MI 49036

Exhibit 13.3
Lanser Broadcasting Corp.

REFERENCE CH# 243D - 96.5 MHz, Pwr= 0.25 kw, HAAT= 98.7 M, COR= 302 M DISPLAY DATES
42 48 59.0 N. DATA 03-22-19
85 57 24.0 W. Average Protected F(50-50)= 12.78 km SEARCH 03-23-19
Omni-directional

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
241B Holland	WMAX-FM	LIC DEN MI		87.2 267.3	7.14 BLH19850403KR	42 49 10.0 85 52 09.0	50.000 150	5.8 357	64.4 Cc Licenses, Llc, As Debto	-9.8*<	-58.8*<
243D Zeeland	W243BD	LIC DC MI		90.0 270.0	0.09 BLFT20120608AAS	42 48 59.0 85 57 20.0	0.250 98	302	---Reference---		Lanser Broadcasting Corp.
245B Grand Rapids	WLAV-FM	CP ZCN MI		53.9 234.1	25.97 BPH20170905ABX	42 57 13.0 85 41 55.0	50.000 141	3.7 357	50.4 Radio License Holding Cbc,	9.0	-26.0*<
245B Grand Rapids	WLAV-FM	LIC _CN MI		55.6 235.9	42.92 BLH19940822KC	43 02 01.0 85 31 15.0	50.000 149	6.2 386	66.5 Radio License Holding Cbc,	23.5	-25.2*<
243A Portage	WZOX	LIC _C MI		156.9 337.1	72.60 BLH20030319ADZ	42 12 55.0 85 36 37.0	6.000 76	79.9 345	23.1 Midwest Communications, In	-20.0*<	5.6
243A Dewitt	WQHH	LIC _CX MI		87.6 268.4	105.14 BLH20030331ALN	42 50 58.0 84 40 04.0	6.000 98	87.3 343	28.8 The Macdonald Broadcasting	6.8	38.8
243B Milwaukee	WKLH	LIC _CX WI		281.8 100.5	161.58 BMLH20120730ACY	43 05 48.0 87 54 19.0	20.000 247	132.6 455	68.3 Lakefront Communications,	15.7	31.7
243L1 Benton Harbor	WBHC-LP	LIC _ MI		207.8 27.4	87.96 BLL20041206AAF	42 06 55.0 86 27 13.0	0.100 16	203	56.5 Benton Harbor Area Schools		38.1
297B Greenville	WTNR	LIC _CN MI		65.3 245.7	54.47 BLH19891122KB	43 01 10.0 85 20 58.0	50.000 150	169.8 399	84.6 Radio License Holding Cbc,	14.5R	40.0M
243D Big Rapids	W243EN	CP _C MI		17.3 197.6	101.07 BNPFT20180508ABW	43 41 01.0 85 34 56.0	0.250 434	46.8 434	13.7 Mentor Partners, Inc.	41.5	43.2
244D Cassopolis	W244DS	LIC _C MI		181.9 1.9	100.54 BLFT20180102AAO	41 54 45.0 85 59 50.0	0.250 352	17.1 352	11.7 Larry Langford, Jr.	70.3	69.2
244D Cassopolis	W244DS	CP _C MI		181.9 1.9	100.54 BPFT20160901AAC	41 54 45.0 85 59 50.0	0.150 348	14.1 348	10.1 Larry Langford, Jr.	73.3	70.7
242D Marshall	W242BH	LIC _C MI		128.1 308.7	95.80 BLFT20070427AAV	42 16 51.0 85 02 25.0	0.120 32	9.6 312	6.7 Smile Fm	73.8	70.8
243D Mishawaka	W243AJ	LIC _C IN		187.6 7.5	125.42 BLFT20080215AKQ	41 41 53.0 86 09 25.0	0.250 54	27.0 289	8.1 Progressive Broadcasting S	85.4	72.6
242A Ludington	AL6328	RSV-A _ MI		342.5 162.1	127.43 RM11704	43 54 30.0 86 26 10.0	6.000 100	41.1 291	26.6 73.2		81.1
244A Albion	WUFN	LIC ZCX MI		119.2 300.1	123.65 BLED20031031ADT	42 15 56.0 84 38 43.0	3.200 139	33.5 439	22.5 Family Life Broadcasting S	78.2	83.7
296A St. Joseph	WIRX	LIC _CN MI		202.4 22.2	89.42 BLH19901010KE	42 04 19.0 86 22 14.0	1.200 152	169.8 359	84.6 wsjm, Inc.	9.5R	79.9M
242A Ludington	WKLA-FM	LIC NCX MI		342.6 162.2	128.36 BLH20160819ABD	43 55 01.0 86 26 12.0	3.400 93	34.8 298	23.2 Synergy Media, Inc	80.4	85.5
242B Chicago	WBBM-FM	LIC _CX IL		233.5 52.4	172.89 BLH20100517AFR	41 52 44.0 87 38 08.0	3.300 474	75.7 655	63.6 Entercom License, Llc	84.1	81.5
240A Three Rivers	WLKM-FM	LIC DCX MI		162.3 342.6	107.13 BLH20091006ABF	41 53 51.0 85 33 51.0	3.600 130	2.1 383	24.3 Impact Radio, Llc	92.1	81.7
246D Three Rivers	W246BW	LIC _C MI		165.0 345.2	102.12 BLFT20180220ABD	41 55 43.0 85 38 15.0	0.250 331	1.1 331	11.3 Impact Radio, Llc	88.1	89.7
244D Alma	W244BS	LIC _C MI		57.6 238.5	123.78 BLFT20070719ABW	43 24 21.0 84 39 46.0	0.250 14	10.1 244	7.1 Spirit Communications, Inc	100.6	97.1
245B Zion	WWDV	LIC DE IL		258.5 77.2	161.40 BMLH20131121AIN	42 30 35.0 87 53 11.0	50.000 148	5.3 360	60.9 Chicago Fcc License Sub, L	142.2	98.8
244A La Porte	WCOE	LIC _HX IN		206.9 26.4	147.17 BLH20120529AGM	41 38 00.6 86 45 32.8	3.000 80	34.6 309	23.0 Spoon River Media, Llc	99.8	105.0
246B Chicago	WDRV	LIC DCX IL		233.4 52.3	171.57 BLH20090921ABG	41 53 06.0 87 37 18.0	8.300 363	4.9 542	65.9 Chicago Fcc License Sub, L	153.6	104.0

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2		
										IN	*OUT*	(Overlap in km)
240D Webberville	W240CG	CP	_C_	97.0 278.0	119.95 BPFT20170616AAL	42 40 33.0 84 30 00.0	0.130	0.8 409	13.1 Educational Media Foundati	108.2	105.7	
246D South Bend	W244DS	CP	DC_	191.6 11.4	122.36 BMPFT20180402ACG	41 44 16.0 86 15 10.0	0.250	1.1 309	11.7 Larry Langford, Jr.	108.4	109.6	
246D South Bend	W244DS	CP	DC_	191.6 11.4	122.36 BMPFT20180917AAF	41 44 16.0 86 15 10.0	0.250	1.1 305	11.4 Larry Langford, Jr.	108.4	109.9	
246D Coldwater	W246AU	LIC	_C_	141.3 321.9	124.43 BLFT20060706ADX	41 56 20.0 85 00 58.0	0.170 31	0.9 322	7.1 Spring Arbor University	111.0	116.2	
240D Webberville	W240CG	LIC	_C_	98.4 279.4	122.62 BLFT20130815ABZ	42 38 42.9 84 28 23.7	0.055	0.5 328	6.8 Educational Media Foundati	111.1	114.7	
244C3 Cadillac	WLXV	LIC	_CN	10.4 190.6	176.89 BLH19940204KZ	44 22 51.0 85 33 24.0	7.200 184	50.2 548	32.9 Macdonald Garber Broadcast	113.8	124.7	
240A Michigan City	WEFM	LIC	_CN	211.7 31.1	143.26 BLH7669	41 42 58.0 86 51 47.0	3.000 70	2.3 277	24.0 Michigan City Fm Broadcast	128.1	118.2	
245A Bremen	WHPZ	LIC	_CN	182.3 2.2	156.26 BLH19930121KA	41 24 43.0 86 01 51.0	2.000 141	2.2 393	25.1 Family Broadcasting Corpor	141.0	130.0	
242B1 Churubusco	WXKE	LIC	NCX	161.4 342.0	200.21 BLH20170518AAQ	41 06 24.0 85 11 46.0	8.400 152	54.0 401	41.6 Adams Radio Of Fort Wayne,	133.3	135.6	
241C0 Bay City	WHNN	LIC	DCN	65.2 246.8	201.15 BLH19920211KB	43 33 10.0 83 41 24.0	100.000 311	8.3 493	65.4 Radio License Holding Cbc,	180.8	134.6	
243B Lafayette	WAZY-FM	LIC	_CN	200.3 19.5	287.54 BLH7632	40 23 02.0 87 07 55.0	50.000 152	136.3 352	63.6 Star City Broadcasting, L	138.4	164.0	
242B Detroit	WDVD	LIC	_CN	99.1 281.0	231.95 BLH19861112KB	42 27 13.0 83 09 50.0	20.000 240	76.3 440	64.6 Radio License Holdings Llc	144.5	144.1	
296A Cadillac	WCKC	LIC	_CN	18.1 198.6	158.63 BLH19930111KB	44 10 16.0 85 20 13.0	2.750 147	169.8 551	84.6 Up North Radio, Llc	9.5R	149.1M	
240C2 Fife Lake	WLJW-FM	LIC	ZCX	16.9 197.4	206.90 BLED20140207ABG	44 35 41.0 85 11 53.0	19.000 249	5.7 582	52.3 Good News Media, Inc.	188.4	153.5	
297B Warsaw	WRSW-FM	LIC	_CN	176.8 356.9	177.30 BLH3980	41 13 21.0 85 50 17.0	50.000 69	169.8 332	84.6 Kensington Digital Media o	14.5R	162.8M	
246B Detroit	WXYT-FM	LIC	_C_	98.4 280.3	228.01 BMLH19950619KA	42 28 58.0 83 12 19.0	15.000 272	5.4 486	63.5 Entercom License, Llc	211.6	162.9	
296A Saginaw	WTLZ	LIC	_CN	69.5 250.8	176.39 BMLH19900416KA	43 21 14.0 83 55 06.0	4.900 110	169.8 294	84.6 Alpha Media Licensee Llc	9.5R	166.9M	
244C3 Algoma	WBDK	LIC	NC_	331.5 150.5	240.32 BLH19991012AAX	44 42 26.0 87 24 26.0	8.000 164	58.7 360	39.8 Nicolet Broadcasting, Inc.	168.5	180.9	
242C1 Petoskey	WLXT	LIC	_CX	16.8 197.6	291.57 BMLH20110406AAV	45 19 17.0 84 52 33.0	100.000 299	108.2 542	74.4 Macdonald Garber Broadcast	170.6	198.0	
242L1 Manitowoc	WTSW-LP	LIC	___	316.3 135.1	197.01 BLL20170207ABB	44 05 06.0 87 39 40.0	0.100 2	199	176.0 Calvary Chapel of Manitowo		171.9	
241A Archbold	WMTR-FM	LIC	NCX	133.2 314.4	202.12 BMLH20190130AAD	41 33 29.0 84 11 08.0	3.800 122	2.6 348	28.1 Nobco, Inc.	187.2	173.0	
241A Lake Geneva	WLKG	LIC	ZCN	264.4 82.7	204.42 BLH19940527KC	42 36 34.0 88 26 36.0	6.000 100	2.9 381	30.0 Ctj Communications, Ltd.	187.8	173.3	
244A Joliet	WSSR	LIC	ZCX	231.6 50.3	214.49 BLH20080402AAF	41 36 01.0 87 58 44.0	3.100 142	25.5 349	17.2 Alpha Media Licensee Llc	175.9	177.8	
244C1 Leamington	CHYR-FM	OPE	_C_	106.7 289.0	293.34	42 00 35.0 82 33 45.0	100.000 299	104.4 479	85.9	177.6	183.8	
296A Ann Arbor	WQKL	LIC	_CN	107.5 289.0	191.47 BLH19911119KA	42 16 41.0 83 44 32.0	3.000 88	169.8 350	84.6 Cumulus Licensing Llc	9.5R	182.0M	
245A Standish	WWCM	LIC	_CN	48.6 229.9	207.63 BMLE20001201AAX	44 02 08.0 84 00 31.0	3.000 100	2.2 317	23.5 Central Michigan Universit	192.1	183.0	
243L1 Toledo	WVZC-LP	LIC	___	122.8 304.4	237.29 BLL20171226AAL	41 38 02.8 83 33 24.3	0.100 26	207	206.4 Nuestra Gente Community Pr		189.3	
245A Wauseon	WNKL	LIC	ZCX	128.0 309.4	216.18 BMLE20060823AAU	41 36 03.0 83 54 27.0	5.000 109	2.5 316	25.6 Educational Media Foundati	201.4	189.4	

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 3		*OUT*
										IN	(Overlap	in km)
296A Lowell	WZVN	LIC NCX IN		215.3 34.4	202.28 BLH20120130AAZ	41 19 23.9 87 21 21.9	2.650 152	169.8 362	84.6 Adams Radio Of Northern In	9.5R		192.8M
240A Aurora	WERV-FM	LIC _C_ IL		239.3 57.7	222.84 BMLH20010314AAF	41 46 09.0 88 16 02.0	2.850 103	2.2 318	23.5 Alpha Media Licensee Llc	207.6		198.3
240C3 De Pere	WKSZ	LIC NCN WI		317.1 135.7	236.83 BLH19960529KC	44 21 32.0 87 59 07.0	4.500 236	3.4 479	37.4 Woodward Communications In	220.4		198.3

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= 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 restricted contour.
« = Station meets FCC minimum distance spacing for its class.
< = Contour overlap

Exhibit 13.4 - W243BD vs. WMAX-FM & WLAV-FM in support of a 74.1204(d) Waiver Request

Munn-Reese.com

W243BD.P

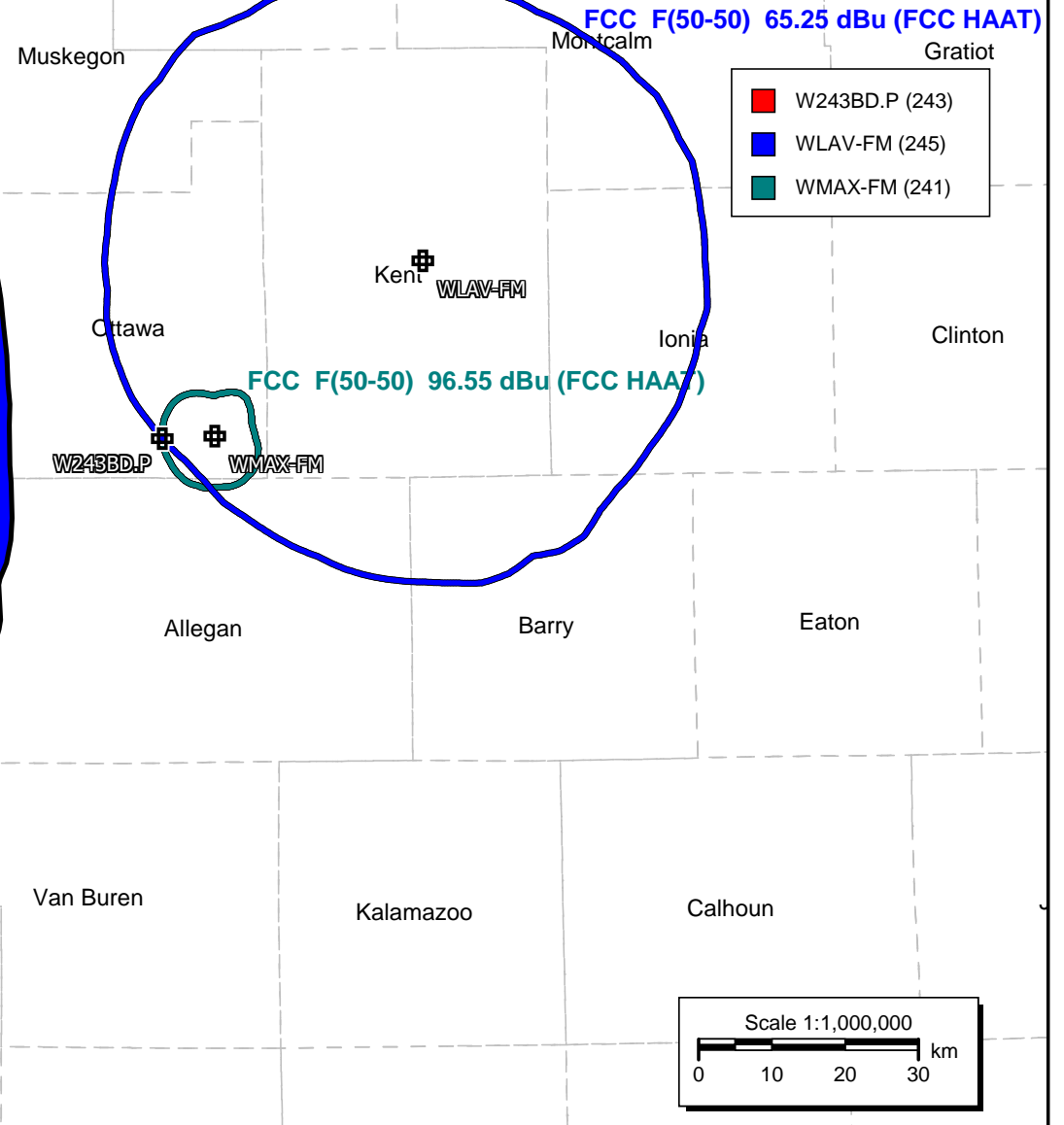
Proposed Operation
Latitude: 42-48-59 N
Longitude: 085-57-24 W
ERP: 0.25 kW
Channel: 243
Frequency: 96.5 MHz
AMSL Height: 302.0 m
Elevation: 198.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WLAV-FM

BLH19940822KC
Latitude: 43-02-01 N
Longitude: 085-31-15 W
ERP: 50.00 kW
Channel: 245
Frequency: 96.9 MHz
AMSL Height: 386.0 m
Elevation: 270.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WMAX-FM

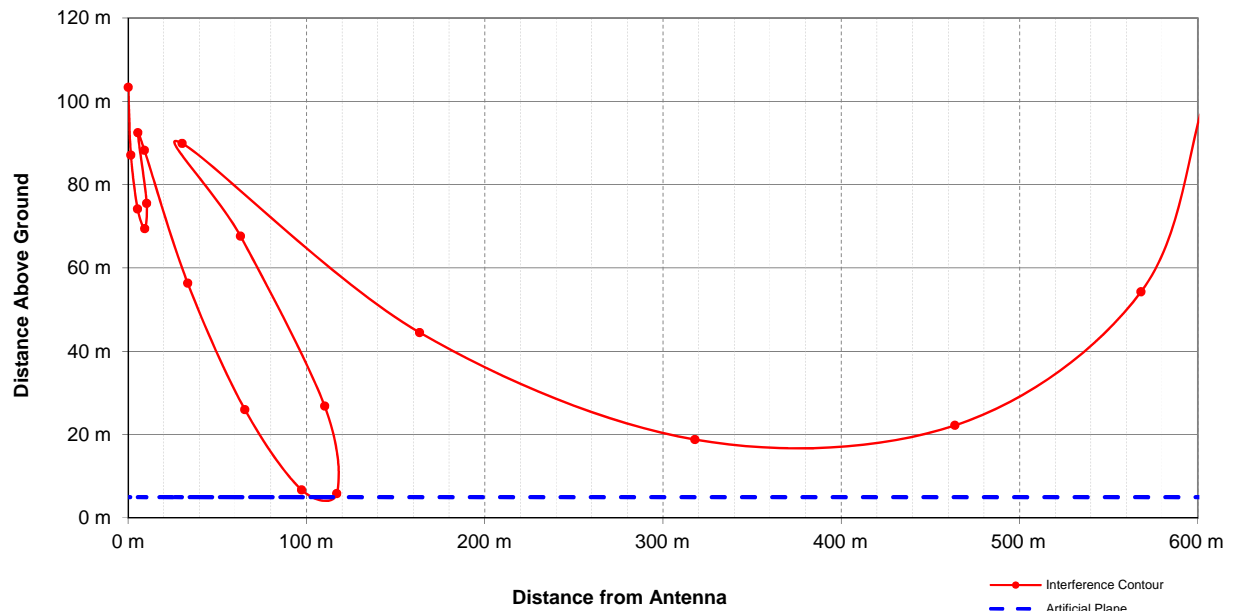
BLH19850403KR
Latitude: 42-49-10 N
Longitude: 085-52-09 W
ERP: 50.00 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 357.0 m
Elevation: 238.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None



Scale 1:1,000,000
0 10 20 30 km

V-Soft Communications LLC ©

Exhibit 13.4 - Downward Radiation Study in Support of a 74.1204(d) Waiver Request



Proposed Antenna: 3 Bay PSIFML-3A-.75WS-DA (Three-quarter Spaced)
Proposed Power: 0.25 kW
Antenna Height AGL: 104 meters
Interference Contour: 105.25 dBu f(50:10)
Artificial Ground Plane Height: 5 meters
Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)) * 1000}$
Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG}_{10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$

Depression				Distance		Field Strength		Field Strength
Angle	Antenna			from Ant.	Distance	in dBu @	Distance	Field Strength
Below	Relative	ERP	ERP	to Interference	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.250	-6.02	606.00 m	infinite	---	---	---
-5°	0.941	0.221	-6.55	570.24 m	1135.90 m	99.26 dBu	1193.27 m	98.84 dBu
-10°	0.777	0.151	-8.21	470.86 m	570.12 m	103.59 dBu	598.91 m	103.16 dBu
-15°	0.543	0.074	-11.32	329.06 m	382.51 m	103.94 dBu	401.83 m	103.51 dBu
-20°	0.287	0.021	-16.86	173.92 m	289.46 m	100.83 dBu	304.08 m	100.40 dBu
-25°	0.055	0.001	-31.21	33.33 m	234.25 m	88.31 dBu	246.08 m	87.88 dBu
-30°	0.120	0.004	-24.44	72.72 m	198.00 m	96.55 dBu	208.00 m	96.12 dBu
-35°	0.222	0.012	-19.09	134.53 m	172.60 m	103.09 dBu	181.32 m	102.66 dBu
-40°	0.252	0.016	-17.99	152.71 m	154.02 m	105.18 dBu	161.80 m	104.75 dBu
-45°	0.227	0.013	-18.90	137.56 m	140.01 m	105.10 dBu	147.08 m	104.67 dBu
-50°	0.168	0.007	-21.51	101.81 m	129.24 m	103.18 dBu	135.76 m	102.75 dBu
-55°	0.096	0.002	-26.38	58.18 m	120.86 m	98.90 dBu	126.96 m	98.47 dBu
-60°	0.030	0.000	-36.48	18.18 m	114.32 m	89.28 dBu	120.09 m	88.85 dBu
-65°	0.021	0.000	-39.58	12.73 m	109.23 m	86.58 dBu	114.75 m	86.15 dBu
-70°	0.050	0.001	-32.04	30.30 m	105.35 m	94.43 dBu	110.67 m	94.00 dBu
-75°	0.059	0.001	-30.60	35.75 m	102.49 m	96.10 dBu	107.67 m	95.67 dBu
-80°	0.050	0.001	-32.04	30.30 m	100.53 m	94.83 dBu	105.60 m	94.41 dBu
-85°	0.028	0.000	-37.08	16.97 m	99.38 m	89.90 dBu	104.40 m	89.47 dBu
-90°	0.001	0.000	-66.02	0.61 m	99.00 m	60.99 dBu	104.00 m	60.56 dBu

Exhibit 13.5 - Manufacturer's Antenna Specifications - Vertical Radiation Pattern

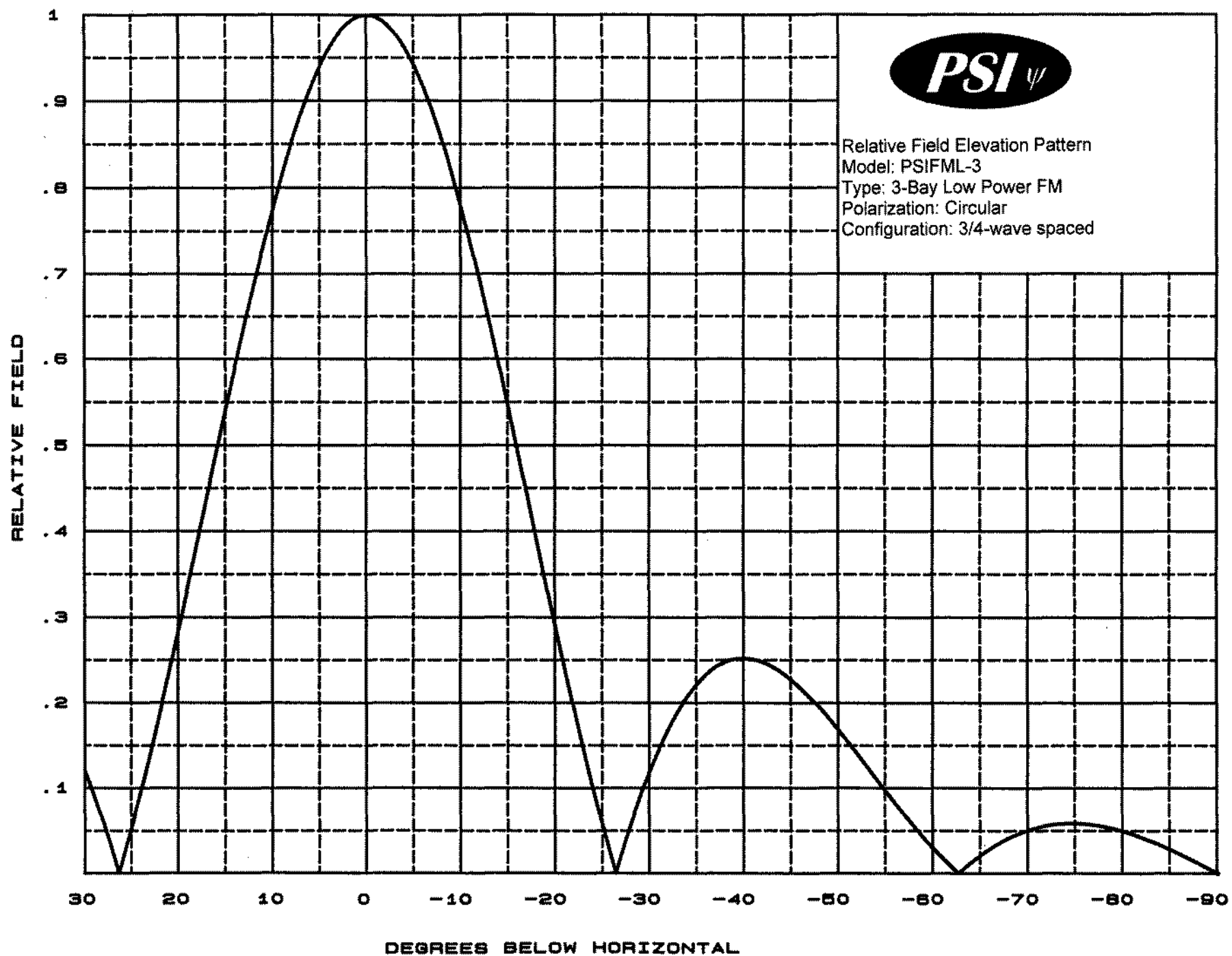


Exhibit 13.5 - Manufacturer's Antenna Specifications - Vertical Radiation Pattern

Propagation Systems Inc.

Elevation Pattern Tabulation

Antenna: PSIFML-3 Special

Bay spacing: 3/4 wave

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.00	0.001	-60.000	-50.00	0.168	-15.500	-10.00	0.777	-2.194
-89.00	0.006	-44.795	-49.00	0.181	-14.829	-9.00	0.817	-1.761
-88.00	0.012	-38.775	-48.00	0.194	-14.240	-8.00	0.853	-1.379
-87.00	0.017	-35.329	-47.00	0.206	-13.714	-7.00	0.886	-1.049
-86.00	0.023	-32.869	-46.00	0.217	-13.266	-6.00	0.916	-0.766
-85.00	0.028	-31.047	-45.00	0.227	-12.881	-5.00	0.941	-0.529
-84.00	0.033	-29.622	-44.00	0.235	-12.562	-4.00	0.962	-0.338
-83.00	0.038	-28.467	-43.00	0.242	-12.308	-3.00	0.978	-0.190
-82.00	0.042	-27.510	-42.00	0.248	-12.126	-2.00	0.990	-0.085
-81.00	0.046	-26.705	-41.00	0.251	-12.010	-1.00	0.998	-0.021
-80.00	0.050	-26.073	-40.00	0.252	-11.968	0.00	1.000	0.000
-79.00	0.053	-25.559	-39.00	0.251	-12.004	1.00	0.998	-0.021
-78.00	0.055	-25.169	-38.00	0.248	-12.126	2.00	0.990	-0.085
-77.00	0.057	-24.887	-37.00	0.242	-12.336	3.00	0.978	-0.190
-76.00	0.058	-24.682	-36.00	0.233	-12.657	4.00	0.962	-0.338
-75.00	0.059	-24.614	-35.00	0.222	-13.092	5.00	0.941	-0.529
-74.00	0.059	-24.637	-34.00	0.207	-13.676	6.00	0.916	-0.766
-73.00	0.058	-24.772	-33.00	0.190	-14.432	7.00	0.886	-1.049
-72.00	0.056	-25.027	-32.00	0.170	-15.414	8.00	0.853	-1.379
-71.00	0.054	-25.411	-31.00	0.146	-16.700	9.00	0.817	-1.759
-70.00	0.050	-25.968	-30.00	0.120	-18.427	10.00	0.777	-2.194
-69.00	0.046	-26.733	-29.00	0.090	-20.871	11.00	0.734	-2.683
-68.00	0.041	-27.731	-28.00	0.058	-24.704	12.00	0.689	-3.233
-67.00	0.035	-29.081	-27.00	0.023	-32.754	13.00	0.642	-3.848
-66.00	0.028	-30.954	-26.00	0.015	-36.745	14.00	0.593	-4.534
-65.00	0.021	-33.656	-25.00	0.055	-25.217	15.00	0.543	-5.301
-64.00	0.012	-38.221	-24.00	0.098	-20.213	16.00	0.492	-6.156
-63.00	0.003	-50.816	-23.00	0.142	-16.928	17.00	0.441	-7.116
-62.00	0.007	-42.949	-22.00	0.189	-14.460	18.00	0.389	-8.196
-61.00	0.018	-34.880	-21.00	0.238	-12.484	19.00	0.338	-9.425
-60.00	0.030	-30.546	-20.00	0.287	-10.839	20.00	0.287	-10.834
-59.00	0.042	-27.541	-19.00	0.338	-9.425	21.00	0.238	-12.484
-58.00	0.055	-25.217	-18.00	0.389	-8.199	22.00	0.189	-14.460
-57.00	0.068	-23.307	-17.00	0.441	-7.116	23.00	0.143	-16.919
-56.00	0.082	-21.711	-16.00	0.492	-6.159	24.00	0.098	-20.200
-55.00	0.096	-20.335	-15.00	0.543	-5.301	25.00	0.055	-25.193
-54.00	0.111	-19.124	-14.00	0.593	-4.536	26.00	0.015	-36.745
-53.00	0.125	-18.051	-13.00	0.642	-3.850	27.00	0.023	-32.754
-52.00	0.140	-17.106	-12.00	0.689	-3.234	28.00	0.058	-24.704
-51.00	0.154	-16.253	-11.00	0.734	-2.683	29.00	0.090	-20.871
						30.00	0.120	-18.438