

Exhibit 11.1 Service Contour Study

KLMP

BLH6472

Latitude: 44-02-46 N

Longitude: 103-14-41 W

ERP: 100.00 kW

Channel: 250

Frequency: 97.9 MHz

AMSL Height: 1105.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: FCC Curves

Booster

Latitude: 44-05-33 N

Longitude: 103-14-53 W

ERP: 3.9 kW

Channel: 250

Frequency: 107.3 MHz

AMSL Height: 1198.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: FCC Curves

60 dBu:

Total Population: 92,586

Total Area: 1562.50 sq. km

F(50-50) 60.0 dBu

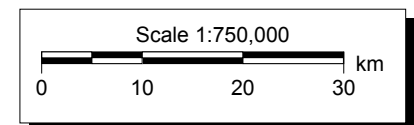
F(50-50) 60.0 dBu

Rapid City
Booster
KLMP

Pennington

Lawrence

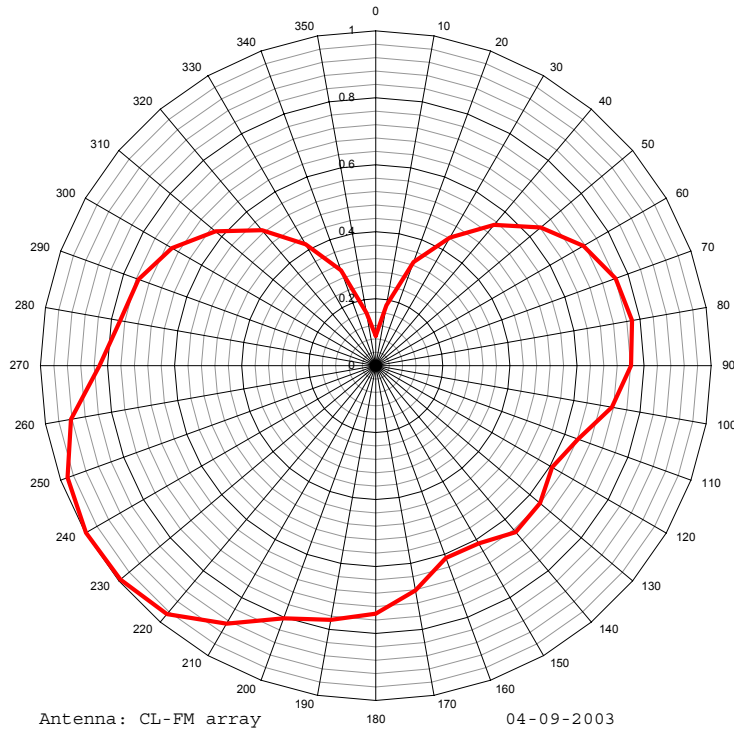
Custer



V-Soft Communications ® ©

Exhibit 11.2

Directional Pattern Study



Antenna: CL-FM array

04-09-2003

Frequency: 107.3 MHz

Polarization: Vertical

Azimuth	Field	Rel.dB	dBd	Pwr Gain
0	0.089	-21.0	-16.9	0.020
5	0.124	-18.1	-14.0	0.040
10	0.183	-14.8	-10.7	0.085
15	0.263	-11.6	-7.5	0.178
20	0.329	-9.6	-5.6	0.275
25	0.386	-8.3	-4.2	0.380
30	0.442	-7.1	-3.0	0.501
35	0.496	-6.1	-2.0	0.631
40	0.549	-5.2	-1.1	0.776
45	0.597	-4.5	-0.4	0.912
50	0.642	-3.8	0.2	1.047
55	0.682	-3.3	0.8	1.202
60	0.715	-2.9	1.2	1.318
65	0.741	-2.6	1.5	1.413
70	0.761	-2.4	1.7	1.479
75	0.771	-2.3	1.8	1.514

Azimuth	Field	Rel.dB	dBd	Pwr Gain
80	0.776	-2.2	1.9	1.549
85	0.771	-2.3	1.8	1.514
90	0.761	-2.4	1.7	1.479
95	0.741	-2.6	1.5	1.413
100	0.715	-2.9	1.2	1.318
105	0.682	-3.3	0.8	1.202
110	0.642	-3.8	0.2	1.047
115	0.611	-4.3	-0.2	0.955
120	0.607	-4.3	-0.2	0.955
125	0.613	-4.3	-0.2	0.955
130	0.639	-3.9	0.2	1.047
135	0.649	-3.7	0.3	1.072
140	0.649	-3.7	0.3	1.072
145	0.639	-3.9	0.2	1.047
150	0.613	-4.3	-0.2	0.955
155	0.607	-4.3	-0.2	0.955
160	0.611	-4.3	-0.2	0.955
165	0.642	-3.8	0.2	1.047
170	0.682	-3.3	0.8	1.202
175	0.715	-2.9	1.2	1.318
180	0.741	-2.6	1.5	1.413
185	0.761	-2.4	1.7	1.479
190	0.771	-2.3	1.8	1.514
195	0.782	-2.1	2.0	1.585
200	0.803	-1.9	2.2	1.660
205	0.843	-1.5	2.6	1.820
210	0.890	-1.0	3.1	2.042
215	0.939	-0.6	3.5	2.239
220	0.969	-0.3	3.8	2.399
225	0.985	-0.1	4.0	2.512
230	0.994	-0.1	4.0	2.512
235	1.000	0.0	4.1	2.570
240	0.998	-0.0	4.1	2.570
245	0.991	-0.1	4.0	2.512
250	0.978	-0.2	3.9	2.455
255	0.959	-0.4	3.7	2.344
260	0.923	-0.7	3.4	2.188
265	0.866	-1.2	2.8	1.905
270	0.824	-1.7	2.4	1.738
275	0.787	-2.1	2.0	1.585
280	0.774	-2.2	1.9	1.549
285	0.767	-2.3	1.8	1.514
290	0.753	-2.5	1.6	1.445
295	0.730	-2.7	1.4	1.380
300	0.702	-3.1	1.0	1.259
305	0.666	-3.5	0.6	1.148
310	0.624	-4.1	0.0	1.000
315	0.578	-4.8	-0.7	0.851
320	0.528	-5.6	-1.5	0.708
325	0.474	-6.5	-2.4	0.575
330	0.419	-7.5	-3.5	0.447
335	0.363	-8.8	-4.7	0.339
340	0.303	-10.4	-6.3	0.234
345	0.231	-12.7	-8.6	0.138
350	0.160	-15.9	-11.8	0.066
355	0.107	-19.4	-15.3	0.030