

Cohen, Dippell and Everist, P.C.

SECTION A

3-SECOND DATUM
EVERY 2 DEGREES
March 2012

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 2
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 30.14 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
0	263.7	124.4	3.076	55.7	102.5
2	258.4	129.7	3.119	56.7	103.6
4	258.3	129.8	3.162	56.9	103.9
6	254.7	133.4	3.215	57.6	104.8
8	250.8	137.3	3.259	58.3	105.6
10	247.9	140.2	3.303	58.9	106.3
12	248.6	139.5	3.375	59.0	106.6
14	255.2	132.9	3.456	58.3	106.1
16	264.9	123.2	3.53	57.2	105.0
18	259.2	128.9	3.613	58.3	106.3
20	256.5	131.6	3.688	58.9	107.2
22	247.4	140.7	3.783	60.6	109.1
24	253.1	135.0	3.878	60.0	108.7
26	260.5	127.6	3.976	59.2	108.0
28	273.6	114.5	4.074	57.5	106.4
30	277.8	110.3	4.173	57.1	106.3
32	284.6	103.5	4.274	56.2	105.6
34	287.9	100.2	4.386	55.9	105.6
36	292.5	95.6	4.489	55.3	105.3
38	302.2	85.9	4.604	53.6	104.2
40	307.9	80.2	4.71	52.6	103.7
42	313.7	74.4	4.817	51.4	103.1
44	315.3	72.8	4.925	51.2	103.3
46	319.2	68.9	5.023	50.5	103.0

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	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
48	322.6	65.5	5.134	49.7	102.8
50	329.1	59.0	5.245	47.9	102.0
52	343.0	45.1	5.335	42.1	99.5
54	356.6	31.5	5.426	34.6	97.0
56	372.5	15.6	5.507	34.3	97.1
58	380.7	7.4	5.599	34.5	97.5
60	382.2	5.9	5.692	34.7	97.8
62	379.1	9.0	5.739	34.8	98.0
64	373.8	14.3	5.774	34.9	98.1
66	369.9	18.2	5.821	35.0	98.3
68	367.9	20.2	5.857	35.1	98.4
70	364.9	23.2	5.904	35.2	98.6
72	358.9	29.2	5.904	35.2	98.6
74	353.2	34.9	5.904	37.8	99.6
76	347.3	40.8	5.916	41.2	100.9
78	342.8	45.3	5.916	43.6	101.9
80	343.1	45.0	5.916	43.4	101.8
82	350.1	38.0	5.904	39.5	100.3
84	360.7	27.4	5.881	35.1	98.5
86	371.2	16.9	5.869	35.1	98.5
88	381.7	6.4	5.845	35.0	98.4
90	388.9	-0.8	5.833	35.0	98.4
92	400.5	-12.4	5.798	34.9	98.2
94	405.5	-17.4	5.762	34.9	98.1

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MARCH 2012

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<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
96	394.1	-6.0	5.739	34.8	98.0
98	385.1	3.0	5.704	34.7	97.9
100	376.7	11.4	5.669	34.7	97.7
102	369.1	19.0	5.645	34.6	97.6
104	359.7	28.4	5.611	34.5	97.5
106	358.1	30.0	5.587	34.5	97.4
108	364.2	23.9	5.553	34.4	97.3
110	369.1	19.0	5.53	34.4	97.2
112	374.5	13.6	5.541	34.4	97.2
114	382.2	5.9	5.541	34.4	97.2
116	389.2	-1.1	5.553	34.4	97.3
118	402.4	-14.3	5.553	34.4	97.3
120	425.7	-37.6	5.564	34.4	97.3
122	434.3	-46.2	5.599	34.5	97.5
124	441.4	-53.3	5.634	34.6	97.6
126	449.3	-61.2	5.669	34.7	97.7
128	448.9	-60.8	5.704	34.7	97.9
130	450.1	-62.0	5.739	34.8	98.0
132	437.0	-48.9	5.762	34.9	98.1
134	424.0	-35.9	5.786	34.9	98.2
136	407.4	-19.3	5.81	35.0	98.3
138	376.2	11.9	5.833	35.0	98.4
140	331.7	56.4	5.857	48.5	104.0
142	307.0	81.1	5.881	55.5	108.7

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CHANNEL 233 6 KW ERP 30.14 METERS HAAT
MARCH 2012

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<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
144	312.4	75.7	5.892	54.3	107.8
146	326.2	61.9	5.916	50.5	105.3
148	345.7	42.4	5.928	42.0	101.3
150	354.5	33.6	5.952	37.1	99.5
152	359.5	28.6	5.964	35.3	98.8
154	357.3	30.8	5.976	35.4	98.9
156	343.7	44.4	5.976	43.1	101.9
158	340.7	47.4	5.988	44.8	102.6
160	344.8	43.3	6.0	42.7	101.8
162	355.9	32.2	6.0	36.3	99.4
164	361.4	26.7	6.0	35.3	99.0
166	375.1	13.0	6.0	35.3	99.0
168	396.1	-8.0	6.0	35.3	99.0
170	409.9	-21.8	6.0	35.3	99.0
172	415.7	-27.6	6.0	35.3	99.0
174	418.2	-30.1	5.988	35.3	98.9
176	411.2	-23.1	5.988	35.3	98.9
178	419.1	-31.0	5.976	35.3	98.9
180	423.2	-35.1	5.976	35.3	98.9
182	431.4	-43.3	5.976	35.3	98.9
184	453.1	-65.0	5.964	35.3	98.8
186	468.4	-80.3	5.964	35.3	98.8
188	471.7	-83.6	5.952	35.2	98.8
190	480.4	-92.3	5.952	35.2	98.8

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	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
192	492.4	-104.3	5.94	35.2	98.8
194	498.3	-110.2	5.928	35.2	98.7
196	492.5	-104.4	5.928	35.2	98.7
198	479.1	-91.0	5.916	35.2	98.7
200	463.6	-75.5	5.904	35.2	98.6
202	444.0	-55.9	5.892	35.1	98.6
204	432.6	-44.5	5.881	35.1	98.5
206	434.3	-46.2	5.857	35.1	98.4
208	424.0	-35.9	5.845	35.0	98.4
210	396.6	-8.5	5.833	35.0	98.4
212	368.6	19.5	5.81	35.0	98.3
214	344.6	43.5	5.786	42.1	101.0
216	327.3	60.8	5.762	49.8	104.5
218	319.1	69.0	5.739	52.2	106.0
220	334.5	53.6	5.715	47.3	102.8
222	360.8	27.3	5.692	34.7	97.8
224	364.4	23.7	5.68	34.7	97.8
226	346.2	41.9	5.657	41.1	100.1
228	321.9	66.2	5.645	51.1	105.1
230	305.0	83.1	5.622	55.4	108.1
232	301.0	87.1	5.634	56.3	108.8
234	301.0	87.1	5.645	56.3	108.9
236	304.6	83.5	5.669	55.6	108.3
238	315.9	72.2	5.68	53.0	106.3

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				<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
240	335.0	53.1	5.692	46.8	102.6
242	354.3	33.8	5.727	36.9	98.7
244	382.2	5.9	5.762	34.9	98.1
246	419.1	-31.0	5.786	34.9	98.2
248	432.0	-43.9	5.821	35.0	98.3
250	445.6	-57.5	5.857	35.1	98.4
252	446.4	-58.3	5.881	35.1	98.5
254	436.9	-48.8	5.892	35.1	98.6
256	427.8	-39.7	5.916	35.2	98.7
258	421.3	-33.2	5.928	35.2	98.7
260	426.2	-38.1	5.952	35.2	98.8
262	422.8	-34.7	5.94	35.2	98.8
264	412.2	-24.1	5.928	35.2	98.7
266	398.8	-10.7	5.916	35.2	98.7
268	384.6	3.5	5.904	35.2	98.6
270	374.6	13.5	5.892	35.1	98.6
272	363.4	24.7	5.845	35.0	98.4
274	354.8	33.3	5.81	36.5	98.9
276	354.4	33.7	5.762	36.9	98.8
278	358.7	29.4	5.727	34.8	98.0
280	359.2	28.9	5.68	34.7	97.8
282	353.8	34.3	5.599	36.7	98.3
284	348.7	39.4	5.53	39.3	99.1
286	342.9	45.2	5.449	42.4	100.0

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	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
288	343.6	44.5	5.381	41.9	99.6
290	346.3	41.8	5.302	40.3	98.7
292	351.3	36.8	5.167	37.3	97.1
294	356.9	31.2	5.034	33.7	95.3
296	357.0	31.1	4.903	33.2	94.7
298	353.8	34.3	4.774	34.8	94.9
300	355.9	32.2	4.646	33.3	93.8
302	356.2	31.9	4.479	32.8	93.0
304	348.9	39.2	4.315	36.3	93.8
306	338.2	49.9	4.153	41.2	95.2
308	330.5	57.6	3.995	43.8	96.0
310	330.1	58.0	3.84	43.5	95.3
312	327.8	60.3	3.754	43.9	95.3
314	322.7	65.4	3.669	45.3	95.8
316	321.5	66.6	3.585	45.3	95.6
318	319.8	68.3	3.502	45.6	95.5
320	319.1	69.0	3.42	45.5	95.1
322	321.6	66.5	3.366	44.6	94.4
324	324.0	64.1	3.312	43.6	93.6
326	320.8	67.3	3.259	44.4	93.9
328	317.3	70.8	3.206	45.2	94.3
330	317.9	70.2	3.154	44.8	93.8
332	320.2	67.9	3.145	44.1	93.4
334	324.9	63.2	3.136	42.7	92.5

COHEN, DIPPELL, AND EVERIST, P.C.

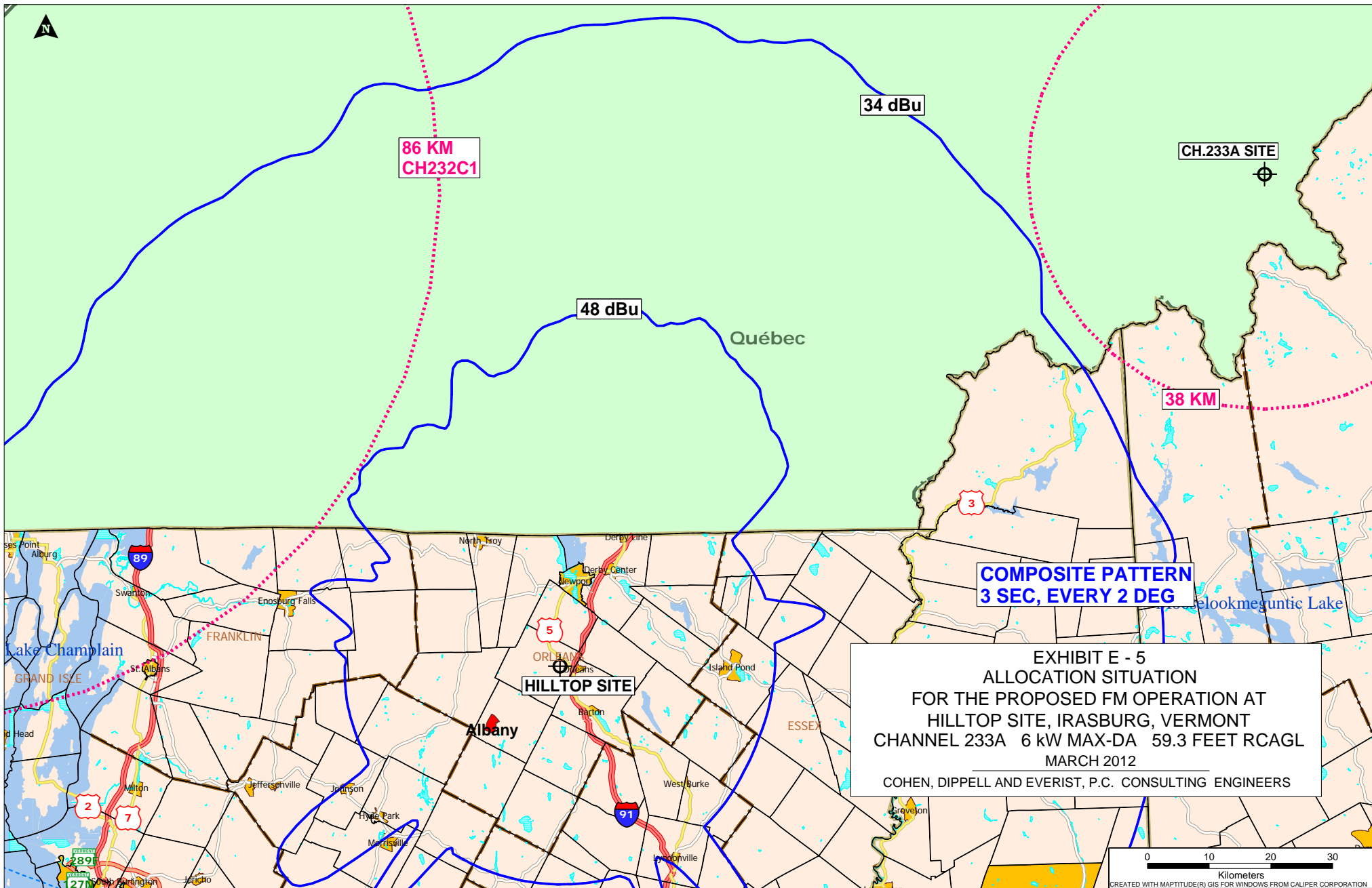
TABLE 2
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 30.14 METERS HAAT
MARCH 2012

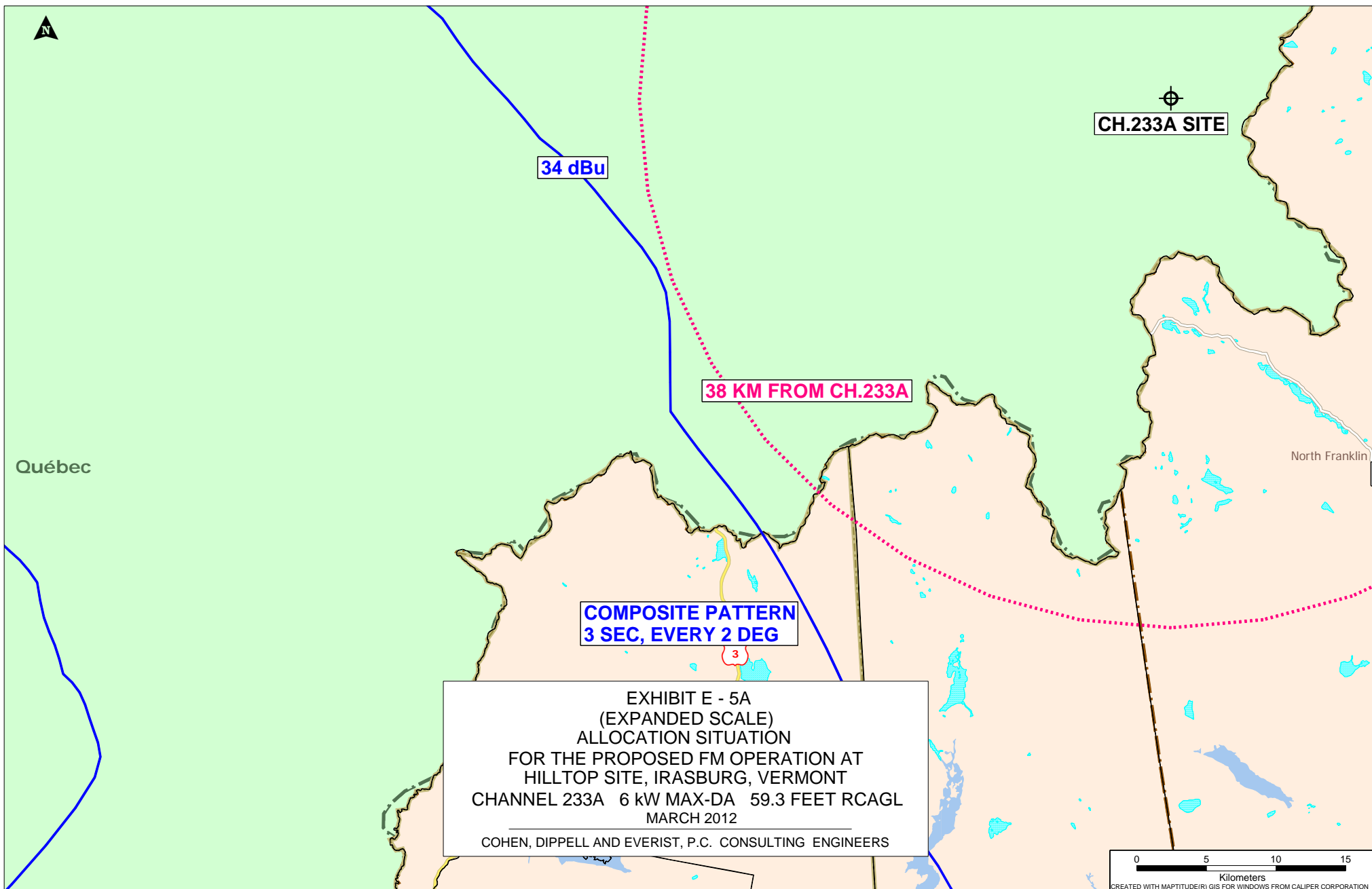
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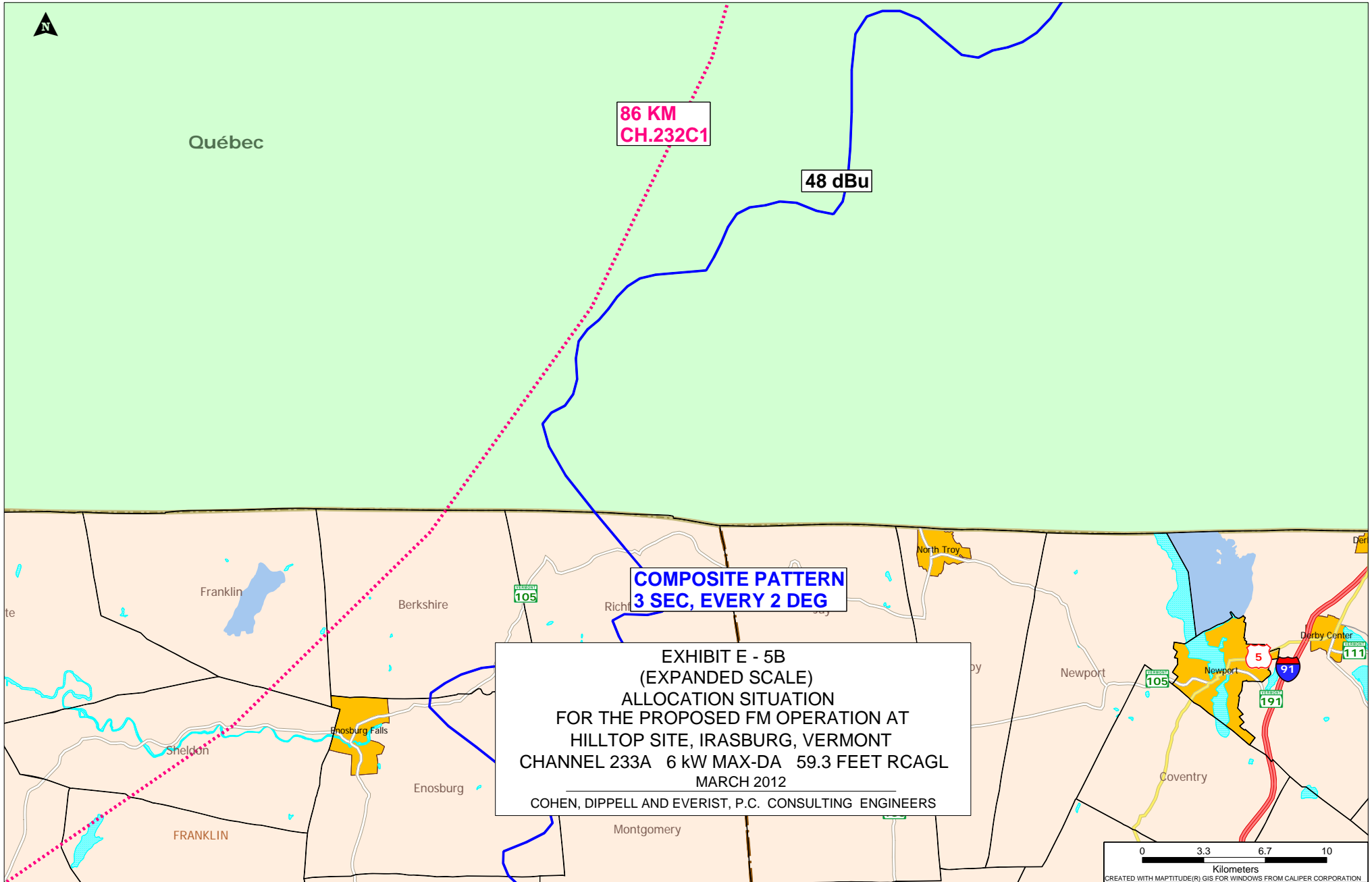
<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u> <u>Elevation</u> <u>3.2 to 16.1 km</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
336	320.2	67.9	3.128	44.1	93.3
338	308.7	79.4	3.119	47.3	95.3
340	292.2	95.9	3.11	51.2	98.1
342	288.3	99.8	3.093	51.9	98.7
344	292.9	95.2	3.076	50.9	97.8
346	303.6	84.5	3.059	48.4	95.9
348	303.8	84.3	3.042	48.2	95.7
350	303.0	85.1	3.025	48.4	95.8
352	298.8	89.3	3.033	49.4	96.5
354	289.3	98.8	3.042	51.5	98.2
356	275.0	113.1	3.059	54.1	100.7
358	267.9	120.2	3.067	55.1	101.8

*Based on data from 3-second data base

FM Channel 233 (94.5 MHz)
Average Elevation 3.2 to 16.1 km 358 meters AMSL
Center of Radiation 388.1 meters AMSL
Antenna Height Above Average Terrain 30.14 meters
Effective Radiated Power 6 kW (7.78 dBk) Max.
Horizontal ERP 6 kW
Vertical ERP 6 kW







Cohen, Dippell and Everist, P.C.

SECTION B

3-SECOND DATUM
EVERY 10 DEGREES
March 2012

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 3
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
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CHANNEL 233A 6 KW (MAX-DA) ERP 30.14 METERS HAAT
MARCH 2012

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W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
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0	263.7	124.4	3.076	55.7	102.5
10	247.9	140.2	3.303	58.9	106.3
20	256.5	131.6	3.688	58.9	107.2
30	277.8	110.3	4.173	57.1	106.2
40	307.9	80.2	4.71	52.6	103.6
50	329.1	59.0	5.245	47.9	102.0
60	382.2	5.9	5.692	34.7	97.8
70	364.9	23.2	5.904	35.2	98.6
80	343.1	45.0	5.916	43.4	101.8
90	388.9	-0.8	5.833	35.0	98.4
100	376.7	11.4	5.669	34.7	97.7
110	369.1	19.0	5.53	34.4	97.2
120	425.7	-37.6	5.564	34.4	97.3
130	450.1	-62.0	5.739	34.8	98.0
140	331.7	56.4	5.857	48.5	104.0
150	354.5	33.6	5.952	37.1	99.5
160	344.8	43.3	6.0	42.7	101.7
170	409.9	-21.8	6.0	35.3	99.0
180	423.2	-35.1	5.976	35.3	98.9
190	480.4	-92.3	5.952	35.2	98.8
200	463.6	-75.5	5.904	35.2	98.6
210	396.6	-8.5	5.833	35.0	98.4
220	334.5	53.6	5.715	47.3	103.0
230	305.0	83.1	5.622	55.4	108.0

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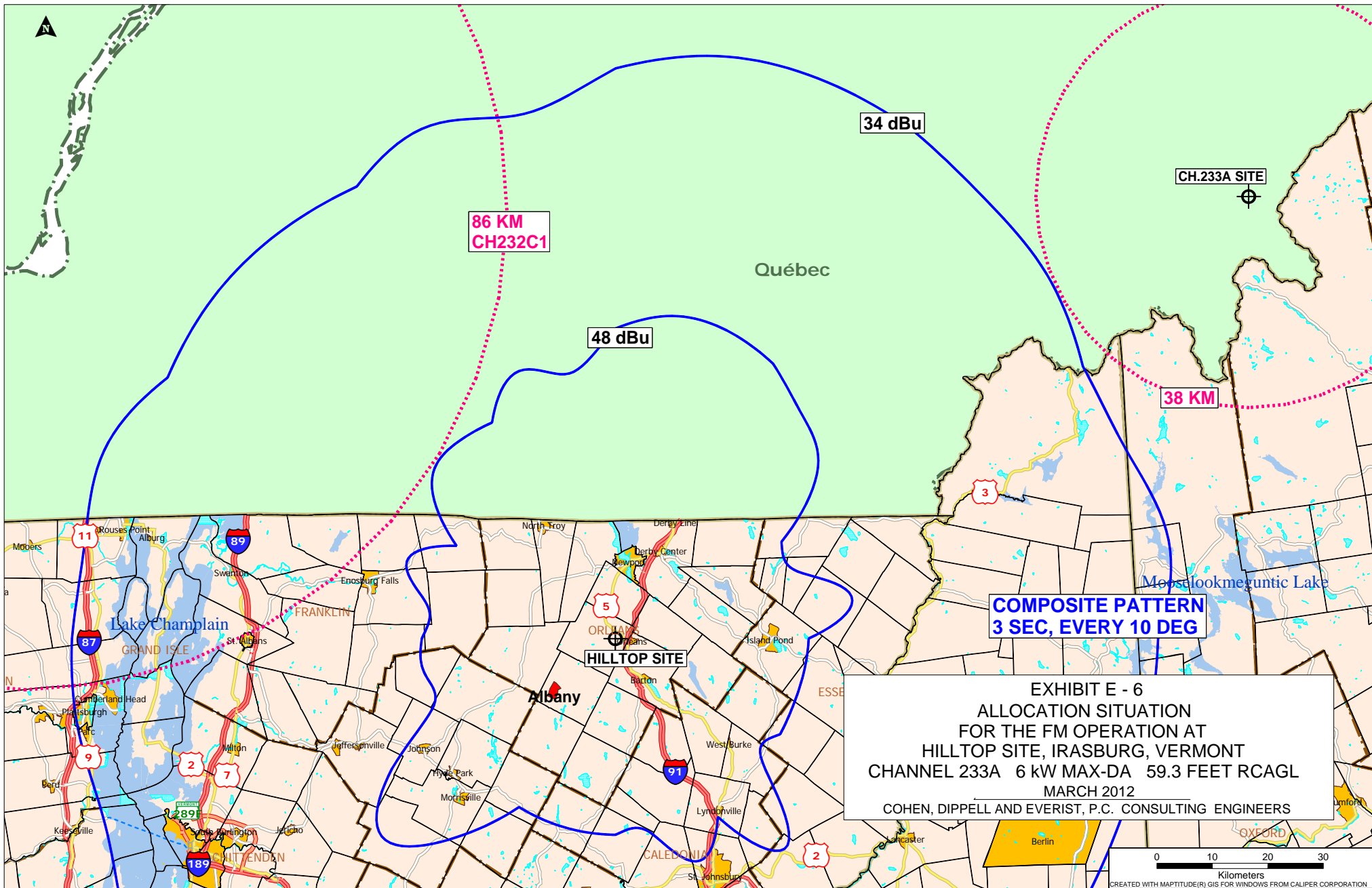
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COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233A 6 KW (MAX-DA) ERP 30.14 METERS HAAT
MARCH 2012

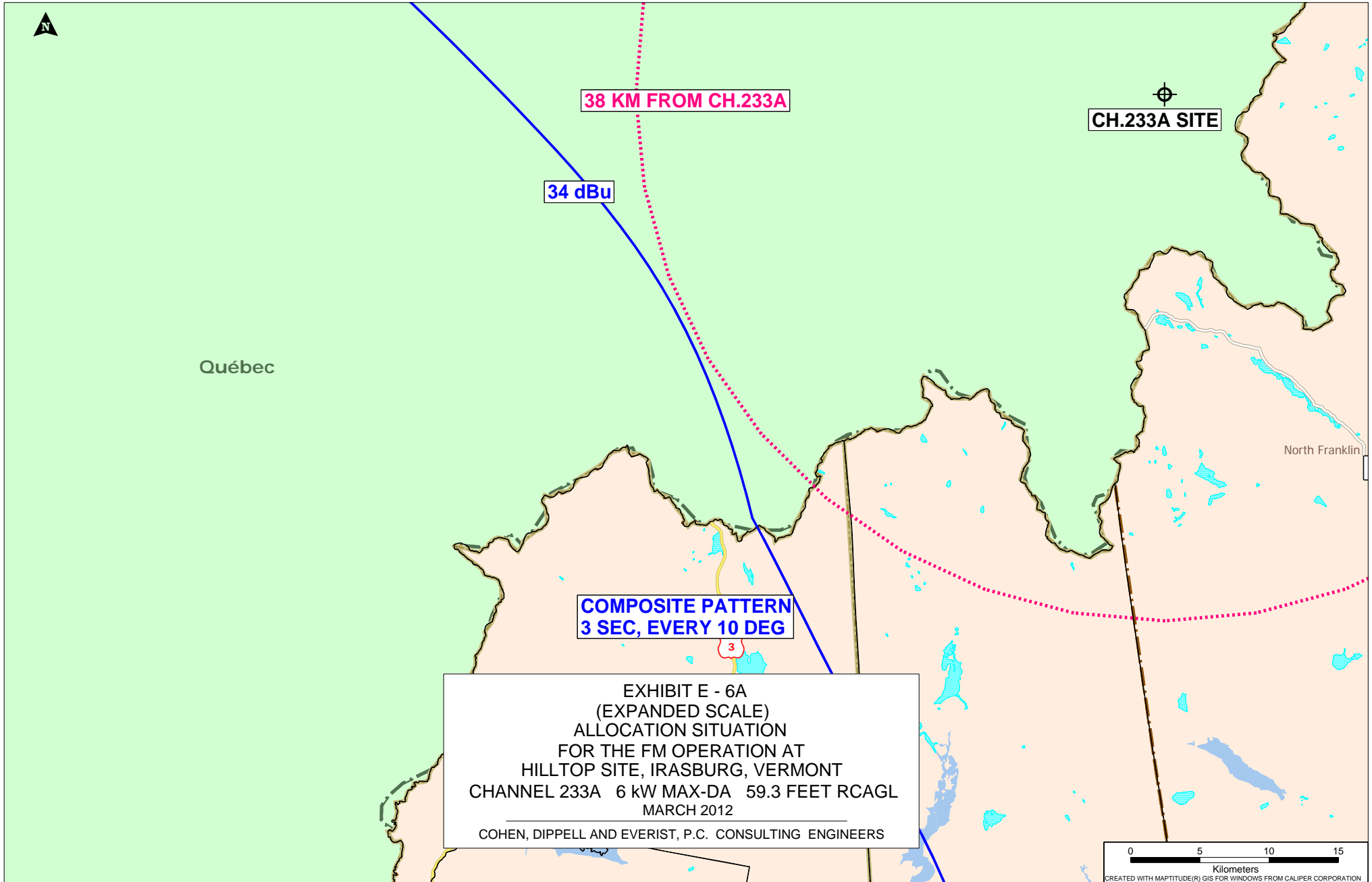
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(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u> <u>Elevation</u> <u>3.2 to 16.1 km</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
240	335.0	53.1	5.692	46.8	102.7
250	445.6	-57.5	5.857	35.1	98.4
260	426.2	-38.1	5.952	35.2	98.8
270	374.6	13.5	5.892	35.1	98.6
280	359.2	28.9	5.68	34.7	97.8
290	346.3	41.8	5.302	40.3	98.7
300	355.9	32.2	4.646	33.3	93.8
310	330.1	58.0	3.84	43.5	95.3
320	319.1	69.0	3.42	45.5	95.1
330	317.9	70.2	3.154	44.8	93.8
340	292.2	95.9	3.11	51.2	98.2
350	303.0	85.1	3.025	48.4	95.8

*Based on data from FCC 3-second data base

FM Channel 233 (94.5 MHz)
Average Elevation 3.2 to 16.1 km 358 meters AMSL
Center of Radiation 388.1 meters AMSL
Antenna Height Above Average Terrain 30.14 meters
Effective Radiated Power 6 kW (7.78 dBk) Max.
Horizontal ERP 6 kW
Vertical ERP 6 kW





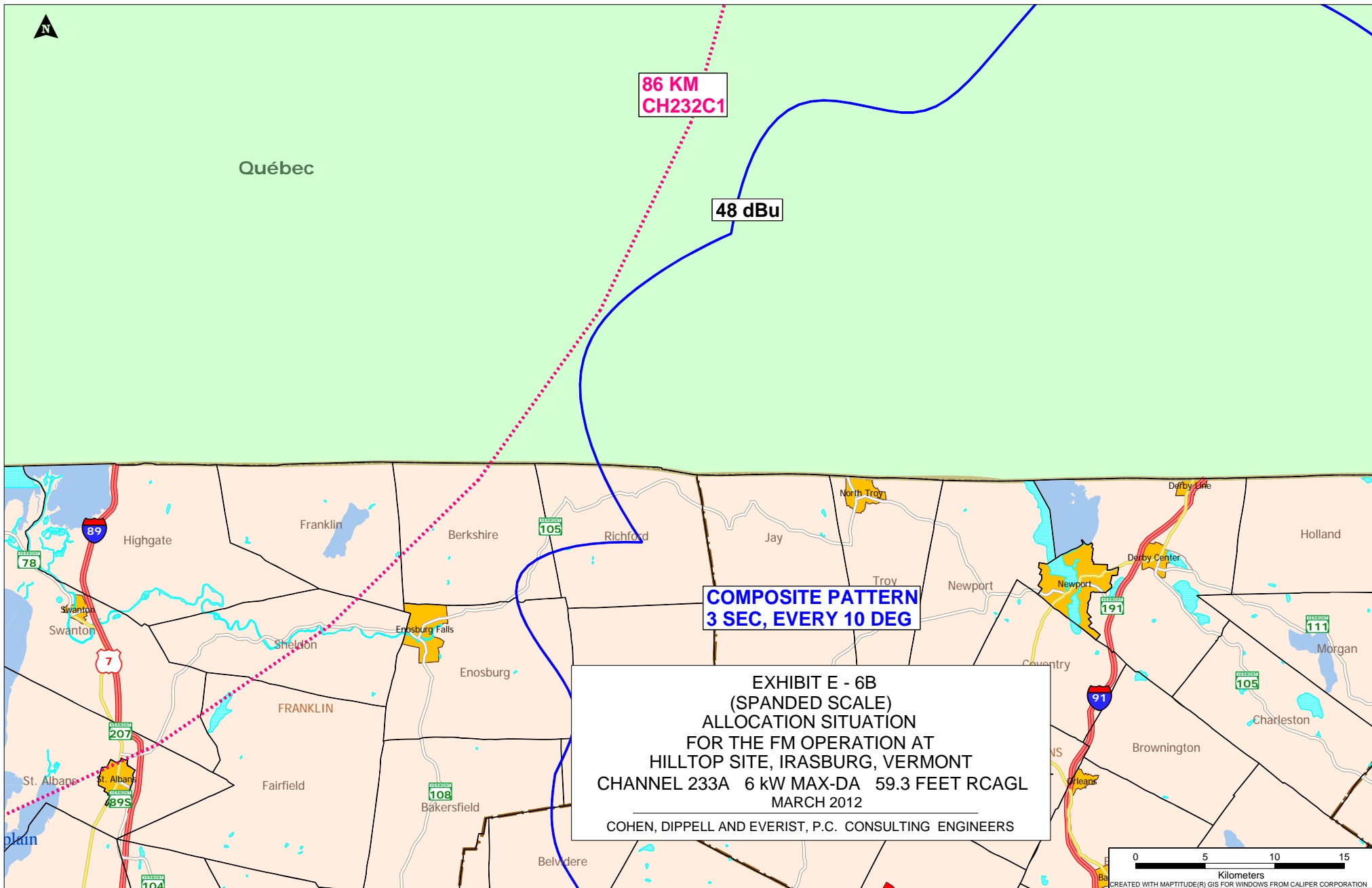


TABLE 4
COMPUTED COVERAGE DATA
FOR THE PROPOSED FM OPERATION AT
HILLTOP SITE
NEW, IRASBURG, VERMONT
CHANNEL 233A 6 KW (MAX-DA) ERP 30.14 METERS HAAT
MARCH 2012

Radial Bearing (N ° E, T)	Average*	Effective Height	ERP At Radio Horizon kW	Distance to Contour F(50/50)	
	Elevation 3.2 to 16.1 km meters			70 dBu 3.16 mV/m km	60 dBu 1 mV/m km
0	263.7	124.4	3.076	15.1	26.8
10	247.9	140.2	3.303	16.5	28.6
20	256.5	131.6	3.688	16.4	28.6
30	277.8	110.3	4.173	15.4	27.3
40	307.9	80.2	4.71	13.5	24.1
50	329.1	59.0	5.245	12.1	21.6
60	382.2	5.9	5.692	8.9	15.6
70	364.9	23.2	5.904	9.0	15.8
80	343.1	45.0	5.916	10.9	19.4
90	388.9	-0.8	5.833	8.9	15.8
100	376.7	11.4	5.669	8.9	15.6
110	369.1	19.0	5.53	8.8	15.5
120	425.7	-37.6	5.564	8.8	15.5
130	450.1	-62.0	5.739	8.9	15.7
140	331.7	56.4	5.857	12.1	21.7
150	354.5	33.6	5.952	9.4	16.6
160	344.8	43.3	6.0	10.7	19.1
170	409.9	-21.8	6.0	9.0	15.9
180	423.2	-35.1	5.976	9.0	15.9
190	480.4	-92.3	5.952	9.0	15.8
200	463.6	-75.5	5.904	9.0	15.8
210	396.6	-8.5	5.833	8.9	15.8
220	334.5	53.6	5.715	11.8	21.1
230	305.0	83.1	5.622	14.3	25.6
240	335.0	53.1	5.692	11.7	21.0
250	445.6	-57.5	5.857	8.9	15.8
260	426.2	-38.1	5.952	9.0	15.8

TABLE 4
COMPUTED COVERAGE DATA
FOR THE PROPOSED FM OPERATION AT
HILLTOP SITE
NEW, IRASBURG, VERMONT
CHANNEL 233A 6 KW (MAX-DA) ERP 30.14 METERS HAAT
MARCH 2012

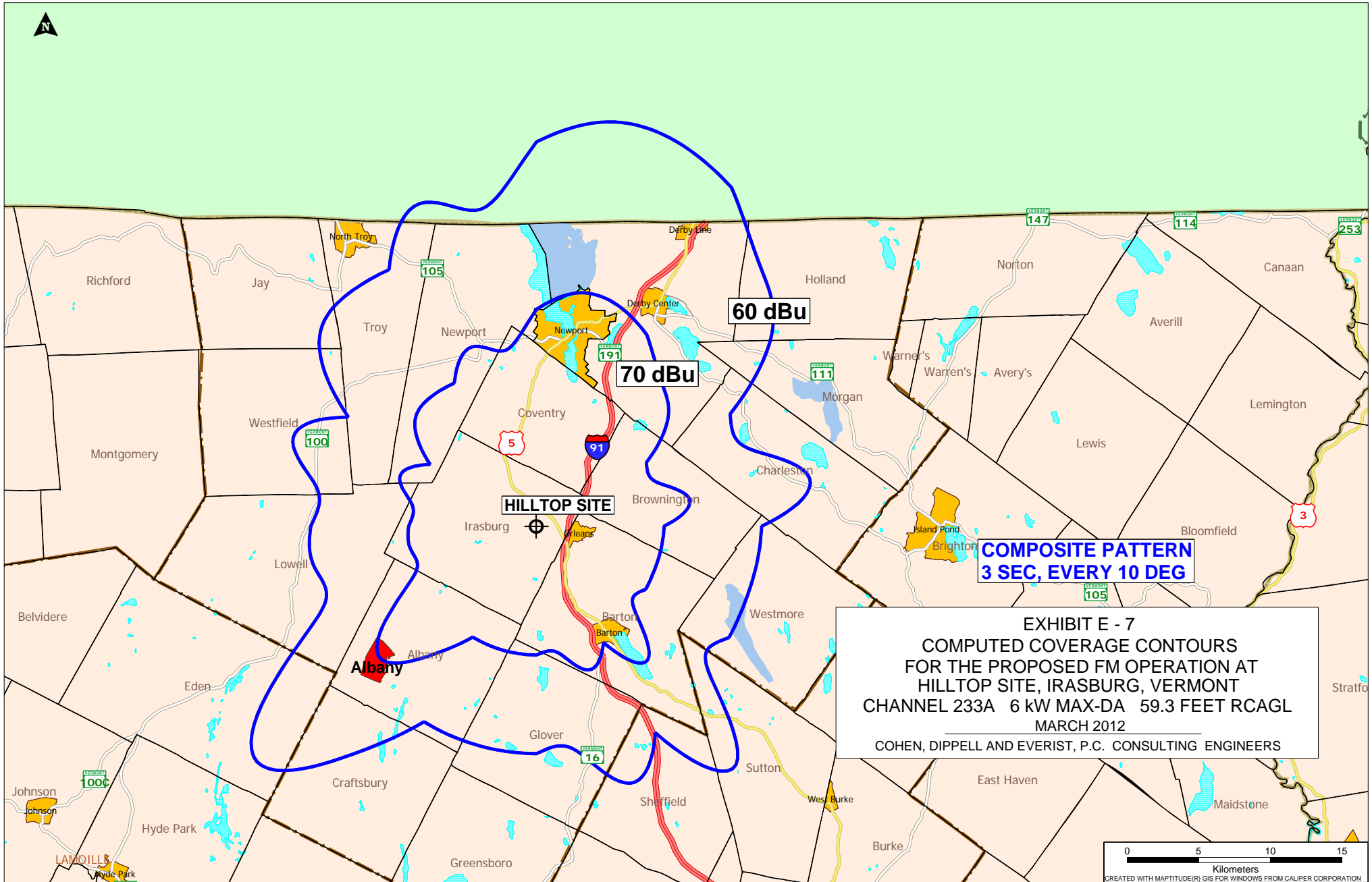
Radial Bearing (N ° E, T)	Average*	Effective Height	ERP At Radio Horizon kW	Distance to Contour F(50/50)	
	Elevation 3.2 to 16.1 km meters			70 dBu 3.16 mV/m km	60 dBu 1 mV/m km
270	374.6	13.5	5.892	8.9	15.8
280	359.2	28.9	5.68	8.9	15.6
290	346.3	41.8	5.302	10.2	18.1
300	355.9	32.2	4.646	8.6	15.2
310	330.1	58.0	3.84	11.1	19.9
320	319.1	69.0	3.42	11.7	20.9
330	317.9	70.2	3.154	11.5	20.7
340	292.2	95.9	3.11	13.3	23.9
350	303.0	85.1	3.025	12.5	22.4

*Based on data from FCC 3-second data base.

FM Channel 233 (94.5 MHz)
Average Elevation 3.2 to 16.1 km 356.5 meters AMSL
Center of Radiation 388.1 meters AMSL
Antenna Height Above Average Terrain 30.14 meters
Effective Radiated Power 6 kW (7.78 dBk) Max.
Horizontal ERP 6 kW
Vertical ERP 6 kW

North Latitude: 44° 48' 53.7"
West Longitude: 72° 14' 23.2"

(NAD-27)



Cohen, Dippell and Everist, P.C.

SECTION C

30-SECOND DATUM
EVERY 2 DEGREES
March 2012

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
0	280.1	108.0	3.076	53.3	99.9
2	269.9	118.2	3.119	55.0	101.8
4	259.6	128.5	3.162	56.7	103.7
6	257.2	130.9	3.215	57.2	104.4
8	254.3	133.8	3.259	57.8	105.1
10	249.9	138.2	3.303	58.6	106.0
12	249.1	139.0	3.375	59.0	106.6
14	250.6	137.5	3.456	59.0	106.8
16	260.1	128.0	3.53	57.9	105.7
18	262.6	125.5	3.613	57.8	105.8
20	268.3	119.8	3.688	57.2	105.3
22	268.1	120.0	3.783	57.5	105.8
24	269.0	119.1	3.878	57.7	106.2
26	273.3	114.8	3.976	57.3	106.0
28	278.3	109.8	4.074	56.8	105.7
30	283.7	104.4	4.173	56.1	105.3
32	285.7	102.4	4.274	56.0	105.5
34	289.4	98.7	4.386	55.7	105.4
36	293.9	94.2	4.489	55.1	105.1
38	297.2	90.9	4.604	54.7	105.1
40	301.7	86.4	4.71	54.0	104.8
42	305.5	82.7	4.817	53.4	104.6
44	308.0	80.1	4.925	53.1	104.6
46	313.9	74.2	5.023	51.9	104.0
48	320.9	67.2	5.134	50.2	103.1

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
50	329.3	58.8	5.245	47.9	102.0
52	335.0	53.1	5.335	45.9	101.2
54	342.9	45.2	5.426	42.4	99.9
56	355.6	32.5	5.507	35.5	97.5
58	368.2	19.9	5.599	34.5	97.5
60	376.9	11.2	5.692	34.7	97.8
62	376.6	11.5	5.739	34.8	98.0
64	376.7	11.4	5.774	34.9	98.1
66	375.1	13.0	5.821	35.0	98.3
68	374.8	13.3	5.857	35.1	98.4
70	376.7	11.4	5.904	35.2	98.6
72	374.1	14.0	5.904	35.2	98.6
74	370.0	18.1	5.904	35.2	98.6
76	361.2	26.9	5.916	35.2	98.7
78	353.4	34.7	5.916	37.7	99.6
80	348.6	39.5	5.916	40.5	100.6
82	350.7	37.4	5.904	39.2	100.1
84	361.9	26.2	5.881	35.1	98.5
86	352.7	35.4	5.869	38.0	99.5
88	355.9	32.2	5.845	36.0	98.8
90	381.6	6.5	5.833	35.0	98.4
92	389.8	-1.7	5.798	34.9	98.2
94	378.7	9.4	5.762	34.9	98.1
96	387.9	0.2	5.739	34.8	98.0
98	384.0	4.1	5.704	34.7	97.9

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
100	376.5	11.6	5.669	34.7	97.7
102	376.5	11.6	5.645	34.6	97.6
104	364.8	23.3	5.611	34.5	97.5
106	352.9	35.2	5.587	37.2	98.4
108	358.9	29.2	5.553	34.4	97.3
110	359.2	28.9	5.53	34.4	97.2
112	362.8	25.3	5.541	34.4	97.2
114	375.8	12.3	5.541	34.4	97.2
116	387.3	0.8	5.553	34.4	97.3
118	396.0	-7.9	5.553	34.4	97.3
120	409.2	-21.1	5.564	34.4	97.3
122	424.2	-36.1	5.599	34.5	97.5
124	434.6	-46.5	5.634	34.6	97.6
126	443.4	-55.3	5.669	34.7	97.7
128	447.8	-59.7	5.704	34.7	97.9
130	445.7	-57.6	5.739	34.8	98.0
132	433.7	-45.6	5.762	34.9	98.1
134	423.1	-35.0	5.786	34.9	98.2
136	404.6	-16.5	5.81	35.0	98.3
138	380.7	7.4	5.833	35.0	98.4
140	345.9	42.2	5.857	41.8	101.0
142	318.5	69.6	5.881	52.7	106.6
144	316.0	72.1	5.892	53.4	107.2
146	324.1	64.0	5.916	51.2	105.7
148	334.7	53.4	5.928	47.5	103.6

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
150	348.2	39.9	5.952	40.7	100.8
152	349.5	38.6	5.964	40.0	100.6
154	348.1	40.0	5.976	40.8	100.9
156	342.5	45.6	5.976	43.8	102.1
158	342.9	45.2	5.988	43.7	102.1
160	348.7	39.4	6.0	40.5	100.9
162	358.8	29.3	6.0	35.3	99.0
164	372.4	15.7	6.0	35.3	99.0
166	387.3	0.8	6.0	35.3	99.0
168	405.5	-17.4	6.0	35.3	99.0
170	411.3	-23.2	6.0	35.3	99.0
172	417.8	-29.7	6.0	35.3	99.0
174	415.8	-27.7	5.988	35.3	98.9
176	422.6	-34.5	5.988	35.3	98.9
178	445.4	-57.3	5.976	35.3	98.9
180	465.6	-77.5	5.976	35.3	98.9
182	449.1	-61.0	5.976	35.3	98.9
184	463.7	-75.6	5.964	35.3	98.8
186	472.5	-84.4	5.964	35.3	98.8
188	490.2	-102.1	5.952	35.2	98.8
190	499.2	-111.1	5.952	35.2	98.8
192	497.2	-109.1	5.94	35.2	98.8
194	490.8	-102.7	5.928	35.2	98.7
196	472.8	-84.7	5.928	35.2	98.7
198	454.5	-66.4	5.916	35.2	98.7

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
200	441.0	-52.9	5.904	35.2	98.6
202	426.7	-38.6	5.892	35.1	98.6
204	415.8	-27.7	5.881	35.1	98.5
206	403.0	-14.9	5.857	35.1	98.4
208	377.1	11.0	5.845	35.0	98.4
210	348.5	39.6	5.833	40.3	100.3
212	329.2	58.9	5.81	49.3	104.3
214	326.7	61.4	5.786	50.1	104.7
216	336.0	52.1	5.762	46.5	102.7
218	350.1	38.0	5.739	39.2	99.6
220	362.4	25.7	5.715	34.8	97.9
222	353.0	35.1	5.692	37.5	98.8
224	327.6	60.5	5.68	49.6	104.1
226	313.0	75.1	5.657	53.6	106.8
228	298.9	89.2	5.645	56.8	109.2
230	295.3	92.8	5.622	57.5	109.8
232	301.5	86.6	5.634	56.2	108.7
234	322.4	65.7	5.645	51.0	105.0
236	340.4	47.7	5.669	44.2	101.4
238	365.1	23.0	5.68	34.7	97.8
240	392.0	-3.9	5.692	34.7	97.8
242	423.1	-35.0	5.727	34.8	98.0
244	438.2	-50.1	5.762	34.9	98.1
246	455.7	-67.6	5.786	34.9	98.2
248	465.2	-77.1	5.821	35.0	98.3

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
250	454.8	-66.7	5.857	35.1	98.4
252	457.2	-69.1	5.881	35.1	98.5
254	449.4	-61.3	5.892	35.1	98.6
256	436.2	-48.1	5.916	35.2	98.7
258	433.3	-45.2	5.928	35.2	98.7
260	422.4	-34.3	5.952	35.2	98.8
262	405.1	-17.0	5.94	35.2	98.8
264	387.2	0.9	5.928	35.2	98.7
266	394.3	-6.2	5.916	35.2	98.7
268	394.9	-6.8	5.904	35.2	98.6
270	384.3	3.8	5.892	35.1	98.6
272	369.2	18.9	5.845	35.0	98.4
274	367.4	20.7	5.81	35.0	98.3
276	371.7	16.4	5.762	34.9	98.1
278	373.8	14.3	5.727	34.8	98.0
280	361.9	26.2	5.68	34.7	97.8
282	355.5	32.6	5.599	35.8	97.9
284	352.3	35.8	5.53	37.5	98.3
286	354.7	33.4	5.449	35.9	97.5
288	356.0	32.1	5.381	35.0	97.0
290	365.4	22.7	5.302	33.9	96.3
292	369.6	18.5	5.167	33.6	95.7
294	371.0	17.1	5.034	33.3	95.2
296	370.5	17.6	4.903	33.0	94.6
298	369.0	19.2	4.774	32.7	94.0

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

<u>Radial</u> <u>Bearing</u> (N ° E, T)	<u>Average*</u>	<u>Effective</u> <u>Height</u> meters	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> <u>3.2 to 16.1 km</u> meters			<u>F(50/10)</u> <u>48 dBu</u> km	<u>F(50/10)</u> <u>34 dBu</u> km
300	365.5	22.6	4.646	32.4	93.5
302	359.2	28.9	4.479	32.0	92.7
304	353.8	34.3	4.315	33.7	92.7
306	346.0	42.1	4.153	37.5	93.6
308	338.6	49.5	3.995	40.6	94.4
310	334.2	53.9	3.84	41.9	94.5
312	332.6	55.5	3.754	42.3	94.4
314	334.4	53.7	3.669	41.3	93.6
316	332.5	55.6	3.585	41.8	93.5
318	331.3	56.8	3.502	41.9	93.3
320	329.6	58.5	3.42	42.2	93.2
322	326.9	61.2	3.366	42.9	93.4
324	326.9	61.2	3.312	42.7	93.1
326	319.4	68.7	3.259	44.8	94.2
328	316.1	72.0	3.206	45.6	94.5
330	315.6	72.5	3.154	45.5	94.3
332	315.1	73.0	3.145	45.6	94.3
334	310.6	77.5	3.136	46.8	95.1
336	313.1	75.0	3.128	46.1	94.6
338	316.1	72.0	3.119	45.2	94.0
340	308.2	79.9	3.11	47.4	95.3
342	300.6	87.5	3.093	49.2	96.6
344	308.9	79.2	3.076	47.1	95.0
346	319.5	68.6	3.059	44.0	93.0
348	320.2	67.9	3.042	43.7	92.8

COHEN, DIPPELL, AND EVERIST, P.C.

TABLE 5
COMPUTED INTERFERENCE DATA
FOR THE PROPOSED FM OPERATION OF
NEW, IRASBURG, VERMONT
CHANNEL 233 6 KW ERP 26.35 METERS HAAT
MARCH 2012

Hilltop Site
(NAD-27)
N 44° 48' 53.7"
W 72° 14' 23.2"

Radial <u>Bearing</u> (N ° E, T)	Average*	Effective <u>Height</u> meters	ERP At Radio <u>Horizon</u> kW	<u>Distance to Contour</u>	
	<u>Elevation</u> 3.2 to 16.1 km meters			F(50/10) <u>48 dBu</u> km	F(50/10) <u>34 dBu</u> km
350	317.5	70.6	3.025	44.4	93.2
352	318.9	69.2	3.033	44.1	93.0
354	309.6	78.5	3.042	46.7	94.7
356	287.1	101.0	3.059	52.0	98.7
358	275.0	113.1	3.067	54.1	100.7

*Based on 30-second NGDC data base.

FM Channel 233 (94.5 MHz)
Average Elevation 3.2 to 16.1 km 361.7 meters AMSL
Center of Radiation 388.1 meters AMSL
Antenna Height Above Average Terrain 26.35 meters
Effective Radiated Power 6 kW (7.78 dBk) Max.
Horizontal ERP 6 kW
Vertical ERP 6 kW

North Latitude: 44° 48' 53.7"
West Longitude: 72° 14' 23.2"

(NAD-27)

