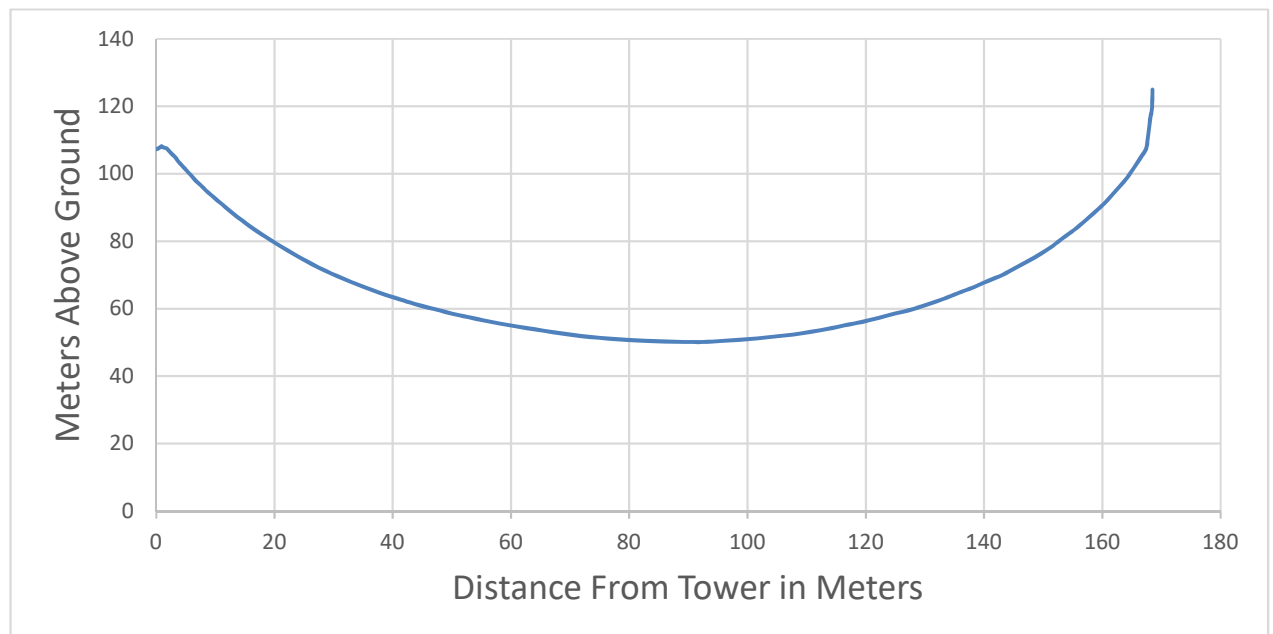


Second-Adjacent Channel Protection

The proposed facility is located within the 60 dBu contour of second-adjacent channel station WSPT (250C1, FCC ID 2104), Stevens Point, Wisconsin which is protected in accordance with §74.1204(d) at a +40 dB level. The proposed antenna will be mounted 125 meters above ground on an existing tower.

WSPT is located 23.5 kilometers distant with a calculated field of 76.37 dBu at the proposed site based on an ERP of 100 KW and height above average terrain along a 234.5° radial from WSPT to the proposed site of 106.4 meters. The translator would require a field intensity of 116.37 dBu to cause interference to the WSPT signal. Using the free-space formula to calculate distance to the proposed 116.37 dBu using an ERP of 250 watts we arrive at a worst-case potential interference area radius around the antenna of 168.48 meters. Applying the antenna's vertical plane pattern results in the 116.37 dBu contour remaining at least 50 meters above ground as shown below.

116.37 dBu Interference Contour



<u>Dep (°)</u>	<u>Er(%)</u>	<u>DTC</u>	<u>Slant</u>	<u>Clearance</u>	<u>Dep (°)</u>	<u>Er(%)</u>	<u>DTC</u>	<u>Slant</u>	<u>Clearance</u>
1	100.0	168.48	7162.34	122.06	46	60.0	101.09	173.77	52.28
2	100.0	168.48	3581.71	119.12	47	58.4	98.39	170.92	53.04
3	99.9	168.31	2388.42	116.19	48	56.8	95.70	168.20	53.88
4	99.9	168.31	1791.95	113.26	49	55.3	93.17	165.63	54.68
5	99.9	168.31	1434.21	110.33	50	53.8	90.64	163.18	55.56
6	99.9	168.31	1195.85	107.41	51	52.3	88.12	160.84	56.52
7	99.5	167.64	1025.69	104.57	52	50.8	85.59	158.63	57.56
8	99.1	166.96	898.16	101.76	53	49.4	83.23	156.52	58.53
9	98.7	166.29	799.06	98.99	54	47.9	80.70	154.51	59.71
10	98.2	165.45	719.85	96.27	55	46.5	78.34	152.60	60.82
11	97.7	164.61	655.11	93.59	56	45.0	75.82	150.78	62.15
12	97.2	163.76	601.22	90.95	57	43.6	73.46	149.05	63.39
13	96.6	162.75	555.68	88.39	58	42.1	70.93	147.40	64.85
14	96.0	161.74	516.70	85.87	59	40.6	68.40	145.83	66.37
15	95.4	160.73	482.96	83.40	60	39.1	65.88	144.34	67.95
16	94.7	159.55	453.49	81.02	61	37.6	63.35	142.92	69.59
17	94.1	158.54	427.54	78.65	62	36.1	60.82	141.57	71.30
18	93.4	157.36	404.51	76.37	63	34.5	58.13	140.29	73.21
19	92.6	156.01	383.94	74.21	64	32.9	55.43	139.08	75.18
20	91.8	154.67	365.48	72.10	65	31.3	52.73	137.92	77.21
21	91.0	153.32	348.80	70.06	66	29.7	50.04	136.83	79.29
22	90.0	151.63	333.68	68.20	67	28.2	47.51	135.80	81.27
23	89.1	150.12	319.91	66.34	68	26.8	45.15	134.82	83.13
24	88.1	148.43	307.32	64.63	69	25.3	42.63	133.89	85.21
25	87.2	146.92	295.78	62.91	70	23.9	40.27	133.02	87.16
26	86.2	145.23	285.15	61.34	71	22.5	37.91	132.20	89.16
27	85.2	143.55	275.34	59.83	72	21.1	35.55	131.43	91.19
28	84.0	141.52	266.26	58.56	73	19.9	33.53	130.71	92.94
29	82.9	139.67	257.83	57.29	74	18.8	31.67	130.04	94.55
30	81.8	137.82	250.00	56.09	75	17.6	29.65	129.41	96.36
31	80.6	135.80	242.70	55.06	76	16.6	27.97	128.83	97.86
32	79.5	133.94	235.88	54.02	77	15.5	26.11	128.29	99.55
33	78.3	131.92	229.51	53.15	78	14.5	24.43	127.79	101.10
34	77.1	129.90	223.54	52.36	79	13.7	23.08	127.34	102.34
35	75.8	127.71	217.93	51.75	80	12.9	21.73	126.93	103.60
36	74.5	125.52	212.66	51.22	81	12.0	20.22	126.56	105.03
37	73.2	123.33	207.71	50.78	82	11.5	19.38	126.23	105.81
38	71.9	121.14	203.03	50.42	83	11.0	18.53	125.94	106.61
39	70.6	118.95	198.63	50.14	84	10.5	17.69	125.69	107.41
40	69.1	116.42	194.47	50.17	85	10.3	17.35	125.48	107.71
41	67.6	113.89	190.53	50.28	86	10.2	17.19	125.31	107.86
42	66.1	111.37	186.81	50.48	87	10.0	16.85	125.17	108.18
43	64.6	108.84	183.28	50.77	88	10.2	17.19	125.08	107.83
44	63.1	106.31	179.94	51.15	89	10.4	17.52	125.02	107.48
45	61.6	103.78	176.78	51.61	90	10.5	17.69	125.00	107.31

Therefore, there are no structures and zero population inside this predicted interference contour and the proposed operation is in compliance with §74.1204(d).