

W244CS St. Paul, MN  
 Translator 74.1204(d) Showing  
 Translator Maximum Licensed ERP = 0.071  
 Translator Antenna Height AG = 58 Meters  
 W244CS Antenna Model = SHPX4H

Protected Station's Contour = 64.98036 dBu  
 Translator's full Interference contour 104.98036

Review Azimuth = 0 Degrees True - (assumed the same on all azimuths)  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.071 kW  
 Distance between stations = 28.0  
 Protected Station= KTWN-F, 19 kW, 356 M Meters COR AMSL

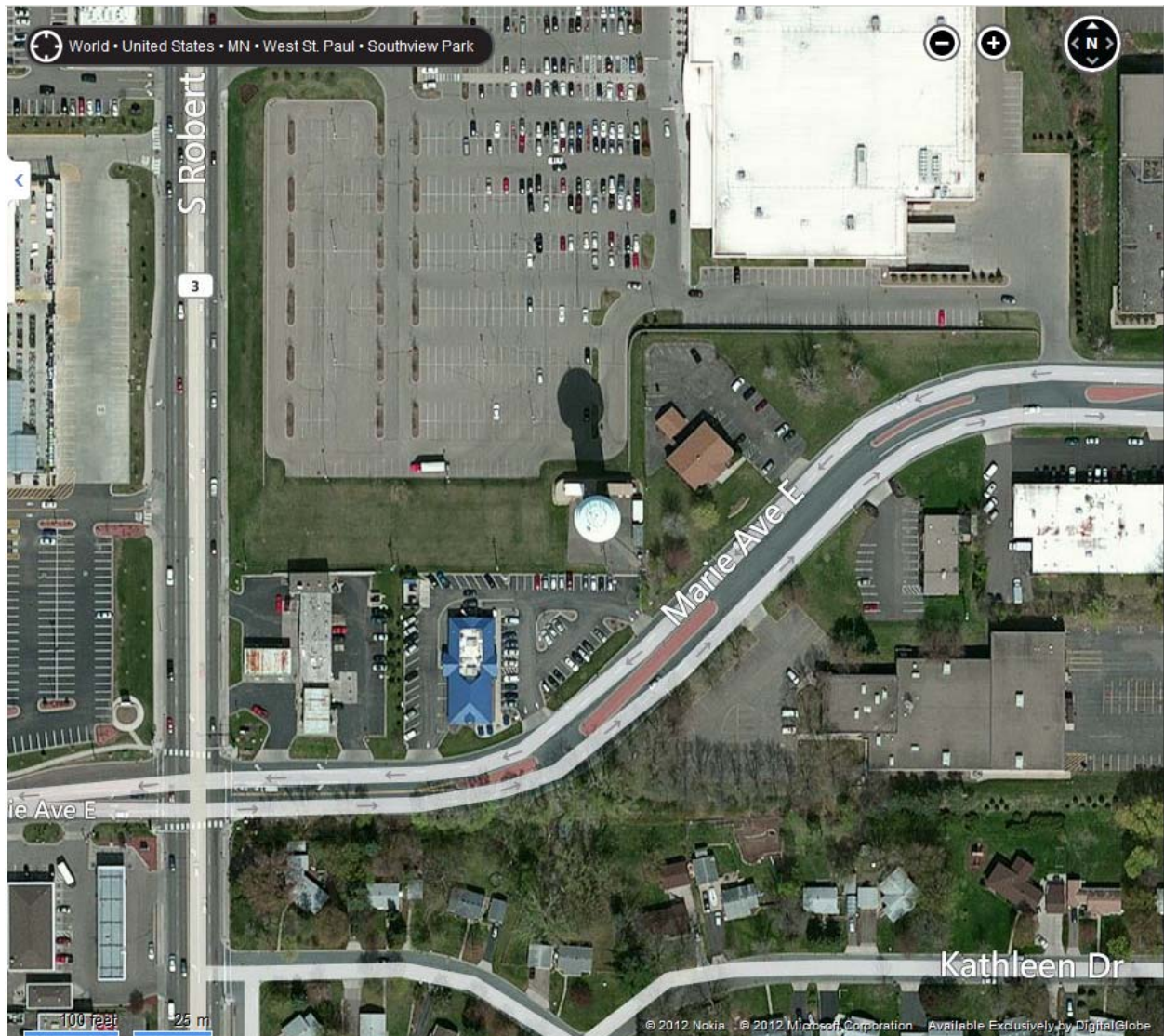
Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0710	333.1280	333.1280	058.000
05.00	0.951	1.0	0.0642	316.8047	315.5992	030.389
10.00	0.814	1.0	0.0470	271.1662	267.0466	010.912
15.00	0.615	1.0	0.0269	204.8737	197.8928	004.975
20.00	0.391	1.0	0.0109	130.2531	122.3978	013.451
25.00	0.178	1.0	0.0022	059.2968	053.7411	032.940
30.00	0.004	1.0	0.0000	001.3325	001.1540	057.334
35.00	0.117	1.0	0.0010	038.9760	031.9273	035.644
40.00	0.182	1.0	0.0024	060.6293	046.4447	019.028
45.00	0.2	1.0	0.0028	066.6256	047.1114	010.889
50.00	0.184	1.0	0.0024	061.2956	039.4000	011.045
55.00	0.15	1.0	0.0016	049.9692	028.6612	017.068
60.00	0.11	1.0	0.0009	036.6441	018.3220	026.265
65.00	0.072	1.0	0.0004	023.9852	010.1366	036.262
70.00	0.042	1.0	0.0001	013.9914	004.7853	044.852
75.00	0.021	1.0	0.0000	006.9957	001.8106	051.243
80.00	0.008	1.0	0.0000	002.6650	000.4628	055.375
85.00	0.002	1.0	0.0000	000.6663	000.0581	057.336
90.00	0.001	1.0	0.0000	000.3331	000.0000	057.667

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 Translator Maximum Licensed ERP = 0.071  
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Protected Station's Contour = 89.9667 dBu  
 Translator's full Interference contour 129.9667

Review Azimuth = 0 Degrees True - (assumed the same on all azimuths)  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.071 kW  
 Distance between stations = 18.9  
 Protected Station= KTCZ-F, 100 kW, 593 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0710	018.7626	018.7626	058.000
05.00	0.951	1.0	0.0642	017.8433	017.7754	056.445
10.00	0.814	1.0	0.0470	015.2728	015.0408	055.348
15.00	0.615	1.0	0.0269	011.5390	011.1458	055.013
20.00	0.391	1.0	0.0109	007.3362	006.8938	055.491
25.00	0.178	1.0	0.0022	003.3398	003.0268	056.589
30.00	0.004	1.0	0.0000	000.0751	000.0650	057.962
35.00	0.117	1.0	0.0010	002.1952	001.7982	056.741
40.00	0.182	1.0	0.0024	003.4148	002.6159	055.805
45.00	0.2	1.0	0.0028	003.7525	002.6534	055.347
50.00	0.184	1.0	0.0024	003.4523	002.2191	055.355
55.00	0.15	1.0	0.0016	002.8144	001.6143	055.695
60.00	0.11	1.0	0.0009	002.0639	001.0319	056.213
65.00	0.072	1.0	0.0004	001.3509	000.5709	056.776
70.00	0.042	1.0	0.0001	000.7880	000.2695	057.259
75.00	0.021	1.0	0.0000	000.3940	000.1020	057.619
80.00	0.008	1.0	0.0000	000.1501	000.0261	057.852
85.00	0.002	1.0	0.0000	000.0375	000.0033	057.963
90.00	0.001	1.0	0.0000	000.0188	000.0000	057.981



Proposed Water Tower Site (Center)

The interference contour of the proposed translator station stays above buildings as per the attached table. ERP = 0.071 kW @ 58 meters AG. (Scale is in bottom left border)