

ANALYSIS OF POTENTIAL 2nd/3rd ADJACENT INTERFERENCE

FM ANTENNA

NUMBER OF ELEMENTS: 3
 SPACING BETWEEN ELEMENTS: 180.0 E.Degrees .50 Lambda
 MECHANICAL TILT: .00 Degrees Down
 CENTER OF RADIATION: 364.0 Feet AGL 110.95 Meters

EFFECTIVE RADIATED POWER: 250.0 Watts

SIGNAL LEVELS ARE COMPUTED AT: 30.0 Feet AGL 9.14 Meters

INTERFERING CONTOUR: 107.5 dBu Free Space
 DISTANCE FROM ANTENNA: 1534.3 Feet 467.68 Meters
 DISTANCE FROM TOWER: 1497.6 Feet 456.46 Meters
 DEPRESSION ANGLE: 12.57 Degrees

DISTANCE FROM TOWER	ANTENNA	ANGLE (DEG)	FIELD RATIO	dBu at 30.0' AGL WORST CASE	30.0' AGL EXPECTED	LOCATION FR TWR	107.5 dBu AGL
*****	*****	*****	*****	*****	*****	*****	*****
Feet	Feet					Feet	Feet
.0	334.0	90.0	.042	120.744+	93.208	.00	299.56
50.0	337.7	81.5	.085	120.647+	99.239	19.32	234.97
100.0	348.6	73.3	.123	120.371+	102.195	54.30	182.65
150.0	366.1	65.8	.149	119.946+	103.419	93.76	155.22
200.0	389.3	59.1	.154	119.413+	103.170	121.49	161.11
250.0	417.2	53.2	.134	118.812+	101.374	123.49	199.02
300.0	448.9	48.1	.092	118.175+	97.414	93.94	259.41
350.0	483.8	43.7	.032	117.525+	87.596	35.39	330.23
400.0	521.1	39.9	.038	116.880+	88.478	44.77	326.62
450.0	560.4	36.6	.112	116.248+	97.234	138.01	261.57
500.0	601.3	33.7	.186	115.637+	101.012	236.91	205.74
550.0	643.5	31.3	.256	115.048+	103.219	335.98	159.97
600.0	686.7	29.1	.322	114.483+	104.638	431.57	123.76
650.0	730.8	27.2	.382	113.943+	105.588	521.55	96.01
700.0	775.6	25.5	.437	113.426+	106.231	604.86	75.39
750.0	821.0	24.0	.486	112.932+	106.664	681.17	60.65
800.0	866.9	22.7	.530	112.459+	106.946	750.57	50.64
850.0	913.3	21.5	.570	112.007+	107.118	813.41	44.38
900.0	960.0	20.4	.605	111.573+	107.207	870.17	41.07 -- Int.
950.0	1007.0	19.4	.637	111.158+	107.234	921.38	40.06
1000.0	1054.3	18.5	.665	110.759+	107.214	967.58	40.83
1050.0	1101.8	17.6	.690	110.376+	107.156	1009.28	42.95
1100.0	1149.6	16.9	.713	110.008+	107.071	1046.96	46.11
1150.0	1197.5	16.2	.734	109.653+	106.963	1081.05	50.03
1200.0	1245.6	15.6	.752	109.311+	106.838	1111.94	54.51
1250.0	1293.9	15.0	.769	108.981+	106.700	1139.99	59.39
1300.0	1342.2	14.4	.784	108.662+	106.551	1165.51	64.55
1350.0	1390.7	13.9	.798	108.354+	106.395	1188.76	69.89
1400.0	1439.3	13.4	.811	108.056+	106.233	1209.98	75.33
1450.0	1488.0	13.0	.822	107.767+	106.067	1229.41	80.81
1500.0	1536.7	12.6	.833	107.487	105.897	1247.21	86.29
1550.0	1585.6	12.2	.842	107.215	105.725	1263.56	91.72

VERTICAL FORM FACTOR BASED UPON: ERI ROTOTILLER DISTRIBUTION
 BELOW PROTECTION BY .27 dB Max ERP is 265.8 Watts
 INTERFERENCE RESULTS AT AN AGL HEIGHT >= 40.1 Feet

**TABLE A - TABULATION OF 3rd ADJACENT INTERFERENCE CONTOUR
 for WLEC Translator Site - Ch. 228**



**BAS Broadcasting, Inc. - WLEC AM-1450
 AM Fill-In Translator - 3rd Adjacent Waiver - May 2018**