

WHAM CRITICAL HOURS ANALYSIS

Educational Media Foundation
Radio Station WPLX
Germantown, TN
1180 kHz; 10 kW, DA-D

WHAM Contour Point	Contour Point Coordinates	Distance from Proposed	Bearing from Proposed	$\frac{E_{\max}(1000) \times K' (1000)}{E_{\max}(1600) \times K' (1600)} = \frac{\text{Max (1000)}}{\text{Max (1600)}}$	Maximum Allowed Proposed	Prop. Theta Angle	Proposed mv/m/km @ Theta
CH-A	N 43-16-20	1300.4 km	41.3°T	750 mv/m/mi x .7 = 525.0 mv/m	972.8 mv/m/km	0.0°	267.4
	W 79-05-30	808.1 mi		265 mv/m/mi x .3 = 79.5 mv/m	604.5 mv/m/mi	3.4° 7.5°	262.1 243.0
CH-B	N 42-04-30	1137.1 km	42.9°T	625 mv/m/mi x .7 = 437.5 mv/m	807.9 mv/m/km	0.0°	266.0
	W 80-19-00	706.2 mi		215 mv/m/mi x .3 = 64.5 mv/m	502.0 mv/m/mi	4.7° 9.3°	257.5 235.4
CH-C	N 41-30-00	1183.9 km	48.7°T	610 mv/m/mi x .7 = 427.0 mv/m	789.5 mv/m/km	0.0°	316.3
	W 79-00-00	735.7 mi		212 mv/m/mi x .3 = 63.6 mv/m	490.6 mv/m/mi	4.3° 8.7°	313.3 305.9
CH-D	N 41-12-45	1236.9 km	53.1°T	628 mv/m/mi x .7 = 439.6 mv/m	814.6 mv/m/km	0.0°	408.5
	W 78-00-00	768.7 mi		222 mv/m/mi x .3 = 66.6 mv/m	506.2 mv/m/mi	3.8° 8.1°	407.4 404.5
CH-E	N 41-17-45	1314.2 km	53.6°T	670 mv/m/mi x .7 = 469.0 mv/m	873.1 mv/m/km	0.0°	421.2
	W 77-00-00	816.7 mi		245 mv/m/mi x .3 = 73.5 mv/m	542.5 mv/m/mi	3.3° 7.3°	420.4 418.0

FIGURE 11A

FIGURE 11B

