FIGURE EE3
FREE SPACE FIELD STRENGTH AT A DISTANCE STUDY RESULTS

PROJECT: ASHTABULA, OH, CHANNEL 204D

8-Mar-12

	Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K
Pt	Down-ward Vert. Distance From Antenna Bottom (meters)	Horiz. Distance From Tower Base (meters)	Hypo-tenuse Distance From Antenna Bottom (meters)	Down-ward Angle From Antenna Bottom to Point (degrees)	Max ERP (watts)	Max ERP (dBmw)	Pattern Relative Field at Down-ward Angle	Target Free Space Inter-fering Signal (dBu)	Adj-usted ERP in Down-ward Angle (dBmW)	**Distance to Interfering Signal Along Hypo-tenuse (meters)**	**Column C Minus Column J Clearance (meters)**
1	82	0.1	**82.0**	89.9	10	40.00	0.021	104.2	6.44	**2.9**	**79.1**
2	82	10	**82.6**	83.0	10	40.00	0.151	104.2	23.58	**20.7**	**61.9**
3	82	20	**84.4**	76.3	10	40.00	0.256	104.2	28.16	**35.1**	**49.3**
4	82	30	**87.3**	69.9	10	40.00	0.373	104.2	31.43	**51.2**	**36.1**
5	82	40	**91.2**	64.0	10	40.00	0.453	104.2	33.12	**62.2**	**29.1**
6	82	50	**96.0**	58.6	10	40.00	0.544	104.2	34.71	**74.7**	**21.4**
7	82	60	**101.6**	53.8	10	40.00	0.614	104.2	35.76	**84.3**	**17.3**
8	82	70	**107.8**	49.5	10	40.00	0.667	104.2	36.48	**91.5**	**16.3**
9	82	80	**114.6**	45.7	10	40.00	0.717	104.2	37.11	**98.4**	**16.2**
10	82	90	**121.8**	42.3	10	40.00	0.752	104.2	37.52	**103.2**	**18.5**
11	82	100	**129.3**	39.4	10	40.00	0.785	104.2	37.90	**107.7**	**21.6**
12	82	120	**145.3**	34.3	10	40.00	0.835	104.2	38.43	**114.6**	**30.7**
13	82	140	**162.2**	30.4	10	40.00	**1.000**	104.2	40.00	**137.2**	**25.0**

NOTE: Study point at 2 meters above ground level.
Worst-case relative field of 1.000 used for last examined point.

RESULTS: COLUMN J DISTANCES ARE LESS THAN COLUMN D DISTANCES IN ALL INSTANCES; THEREFORE, INTERFERING SIGNAL DOES NOT EXIST AT ANY LOCATION (TWO METERS OR LESS ABOVE GROUND LEVEL)

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