

Date: 1/28/10

Re: WKEF Field Strength Readings Statement

I have taken these field strength readings as a base line for the requested power increase of WKEF DT channel 51. I used a DB4 antenna at a height of 12 feet with DigiAir VHF/UHF spectrum analyzer. Visual results were confirmed with a HDTV receiver using the same antenna system. Readings were taken in four directions from the transmitter north, south, east & west at increasing distances from the transmitter making comparison to other DT stations in the Dayton market. WKEF DT readings were consistently -6db or more lower than other DT stations in the market. These readings were taken between 10/11 to 10/18 2009. Please refer to attached table for more details.

Richard L. King
Senior Broadcast Engineer
WKEF/WRGT DT Dayton Ohio

DTV Field Strength Readings

City	Channel						Distance in miles
	16	26	30	41	50	51	
Trotwood	73.9	83.0	80.3	81.3	83.3	72.5	9.5
Beavercreek	66.5	66.7	55.8	66.9	66.9	56.2	13.29
Vandalia	74.3	84.4	80.7	77.3	77.4	67.5	15.14
Troy	64.0	72.5	68.6	67.4	64.9	56.3	26.29
Piqua	51.8	62.8	58.4	51.9	53.8	44.9	33.18
Sidney	53.6	52.7	63.6	58.2	52.3	45.3	44.72
Anna	41.7	52.0	44.0	41.7	46.0	41.0	51.88
New Lebanon	69.3	72.9	73.1	77.1	79.5	61.1	9.10
Eaton	43.2	45.3	46.2	48.8	50.6	41.3	22.46
Richmond	49.8	55.8	52.2	49.1	56.2	44.4	43.55
Germantown	80.1	73.8	76.5	71.9	81.7	69.4	9.80
Middletown	50.0	45.1	45.6	48.8	47.0	41.4	18.30
Tylersville	63.6	69.1	62.0	67.2	69.4	58.4	31.68
Sharonville	43.8	48.7	42.5	46.2	49.9	41.1	38.10
Xenia	60.1	66.8	64.5	60.7	64.4	52.2	19.82
Jamestown	42.0	49.7	46.6	47.0	48.6	40.4	32.57
Springfield	41.8	46.2	44.4	42.0	46.4	41.2	34.37

Readings taken 10/11 to 10/18/2009 WKEF 51 @138kw