

# **TechWare, Inc.**

## **Site Change Analysis**

**WRCX-LP Channel 40**

**Dayton, OH**

**March 2, 2004**

As requested an analysis has been performed to determine the feasibility of moving WRCX-LP channel 40 Dayton, OH from its current location to a new site located at 39-43-28 North Latitude and 84-15-18 West Longitude. At the proposed new location the antenna center of radiation will be 850 feet (259 m) above ground level or 532 m above mean sea level. The new facility will have the same effective radiated power (29 kW), antenna pattern (antenna ID 19330) and reference angle (100 degrees) as listed in the FCC database for the current location.

The analysis was performed using the software and databases as used by the FCC to evaluate applications and therefore should provide the say results.

### **Summary of Analysis Results**

#### **Proposed Facility**

WRCX-LP DAYTON OH US  
Channel 40 ERP 29.0 kW HAAT 288 m RCAMSL 532 m  
Latitude 39-43-28 Longitude 84-15-18  
Status APP Zone 1 Border Offset +  
Dir Antenna Make CDB Model 19330 Beam tilt N Ref Azimuth 100.0

#### **Contour Overlap Evaluation from LPTV Station to Full Service TV & DTV**

Station inside contour of station  
WBDF 26 SPRINGFIELD OH BLCT-20001103ABK

Station inside contour of station  
WKOI-TV 39 RICHMOND IN BPCDT-19990601KF

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Contour overlap to station  
WFWA 40 FORT WAYNE IN BPEDT-20000414AAY

Contour overlap to station  
WTVQ-TV 40 LEXINGTON KY BPCDT-19991025ADD

Contour overlap to station  
WHIZ-TV 40 ZANESVILLE OH BMPCDT-20020314AAE

Station inside contour of station  
WHIO-TV 41 DAYTON OH BPCDT-19991027ABD

Contour Overlap Evaluation from LPTV to Full Service TV & DTV Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Contour overlap to station  
W64CK 25 SPRINGFIELD/DAYTON OH BPTTL 20020315AAL

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station  
WWRD-LP 55 CENTERVILLE OH BLTTL19990707JE  
Is inside contour of station  
WRCX 40 DAYTON OH USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 254.3km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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## Start of Longley-Rice (FCC OET Bulletin 69) Interference Analysis

### Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	App. Ref. No.
25	W64CK	SPRINGFIELD OH	41.6	APP	BPTTL-20020315AAL
26	WBDT	SPRINGFIELD OH	0.0	LIC	BLCT-20001103ABK
39	WKOI-TV	RICHMOND IN	40.2	CP	BPCDT-19990601KF
40	WFWA	FORT WAYNE IN	172.6	CP	BPEDT-20000414AAY
40	WTVQ-TV	LEXINGTON KY	188.3	CP	BPCDT-19991025ADD
40	WHIZ-TV	ZANESVILLE OH	195.1	CP MOD	BMPCDT-20020314AAE
41	WHIO-TV	DAYTON OH	1.2	CP	BPCDT-19991027ABD

### Longley-Rice Interference Analysis Results

Chan	Call	City/State	Percent New Interference Caused
25	W64CK	SPRINGFIELD OH	0.00%
26	WBDT	SPRINGFIELD OH	0.00%
39	WKOI-TV	RICHMOND IN	0.00%
40	WFWA	FORT WAYNE IN	0.00%
40	WTVQ-TV	LEXINGTON KY	0.05%
40	WHIZ-TV	ZANESVILLE OH	0.00%
41	WHIO-TV	DAYTON OH	0.00%

Analysis Performed by:

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