

ENGINEERING STATEMENT  
RE DTV BROADCAST ENGINEERING DATA  
APPLICATION FOR  
MINOR MODIFICATION OF LICENSE  
ON BEHALF OF  
VIDEOINDIANA, INC.  
**WTHR-DT, INDIANAPOLIS, INDIANA**  
CHANNEL 13 42.1 KW MAX DA ERP (H&V)  
299 METERS HAAT  
MARCH 2011

COHEN, DIPPELL AND EVERIST, P.C.  
CONSULTING ENGINEERS  
RADIO AND TELEVISION  
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.


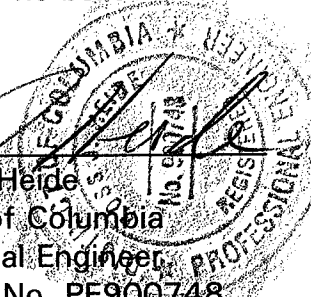
City of Washington            )  
  ) ss  
District of Columbia        )

Ross J. Heide, being duly sworn upon his oath, deposes and states that:

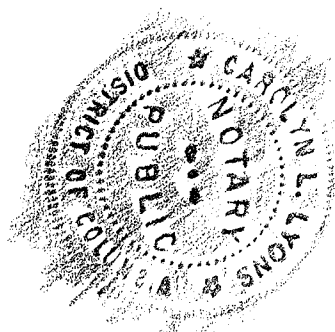
He is a graduate of the Massachusetts Institute of Technology in Operations Research and Management Science, a Registered Professional Engineer in the District of Columbia, and employed by Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

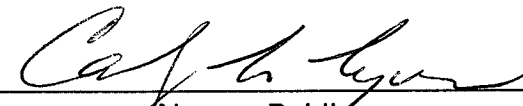
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
\_\_\_\_\_  
Ross J. Heide  
District of Columbia  
Professional Engineer  
Registration No. PE900748  


Subscribed and sworn to before me this 28<sup>th</sup> day of March, 2011.



  
\_\_\_\_\_  
Notary Public

My Commission Expires: 2/28/2013

### Introduction

This engineering statement has been prepared on behalf of VideoIndiana, Inc. (“VideoIndiana”), licensee of WTHR, Indianapolis, Indiana, in support of its request to modify its pending license in order to maximize its DTV facilities. Pursuant to the pending license [FCC File No. BLCDDT-20100812ABY], VideoIndiana is operating facilities on DTV Channel 13 with a maximum ERP of 30 kW (H&V) and an antenna height above average terrain (“HAAT”) of 299 meters (981.0 feet). VideoIndiana hereby proposes to use the same built-out facilities, but increase the ERP from 30 kW to 42.1 kW, utilizing the directionality of the existing nominally omnidirectional antenna.

### Proposed Parameters

The WTHR-DT Channel 13 DTV antenna is top-mounted on an existing tower. The existing tower has a total overall structure height above ground of 316.8 meters (1039.4 feet). The existing transmitter is located at Ditch Rd, at West 96<sup>th</sup> Street, Indianapolis, Indiana.

There are no proposed changes to WTHR’s antenna or the overall height of its existing tower, and therefore, an FAA aeronautical study is not required. The FCC antenna structure registration number of the existing tower is 1024109. Exhibit E-1 is a vertical sketch of the existing tower and top-mounted transmitting antenna.

The geographic coordinates of the proposed site are as follows:

North Latitude: 39° 55' 43"

West Longitude: 86° 10' 55"

NAD-27

Equipment Data

Antenna: RCA, Type TCL-16A13 (or equivalent) Circular Polarized Antenna  
0.9° electrical Beam Tilt  
Antenna information per Section 73.625 of the FCC Rules is  
provided in Exhibit E-2.

Transmission Line: 292.6 meters (960 ft) of Dielectric, Type 8863-62A,  
6-1/8", 50 ohm or equivalent, attenuation 0.076 dB/100 ft

Power Data

|                                   |               |           |
|-----------------------------------|---------------|-----------|
| Transmitter Output                | 5.66 kW       | 7.53 dBk  |
| Transmission Line Efficiency/Loss | 84.5%         | 0.73 dB   |
| Input Power to the Antenna        | 4.78 kW       | 6.80 dBk  |
| Antenna Gain                      | 8.8 ratio     | 9.44 dB   |
| Effective Radiated Power          | 42.1 kW (H&V) | 16.24 dBk |

Elevation Data

|  |                             |
|--|-----------------------------|
| Elevation of site above mean sea level   | 251.1 meters<br>823.8 feet  |
| Overall height above ground of existing<br>antenna structure (including appurtenances) | 316.8 meters<br>1039.4 feet |
| Center of radiation of Channel 13<br>antenna above ground                              | 299.9 meters<br>983.9 feet  |
| Overall height above mean sea level<br>of existing tower (including beacon)            | 567.9 meters<br>1863.2 feet |
| Center of radiation of Channel 13<br>antenna above mean sea level                      | 551 meters<br>1807.7 feet   |
| Antenna height above average terrain   | 299 meters                  |

Note: Slight height differences may result due to conversion to metric.

#### Waiver Request

The proposed power exceeds the maximum allowed for Zone I DTV stations specified in Section 73.622(f)(7) of the Commission's Rules. A waiver of this rule is hereby requested as the proposed facilities meet established interference criteria with acceptance agreements. Grant of this waiver request is in the public interest and consistent with the Commission's policy to improve reception for high VHF DTV stations.

#### International Coordination

The existing WTHR site is 338 km from the Canadian border, and therefore, within the 400 km coordination zone. No interference is predicted to any Canadian station. The nearest Canadian co-channel station is over 600 km distant: CKCO-TV, Kitchener, Ontario. The nearest Canadian adjacent channel is over 440 km distant, Channel 12, Chatham, Ontario. The predicted DTV-to-DTV-22 dBu F(50,10) co-channel interfering contour does not come within 80 km of the Canadian border. All other F(50,10) interfering contours are higher field strength values and also do not reach the Canadian border.

#### Interference Analysis

A study of predicted interference (Table I) caused by the proposed WTHR-DT post-transition has been performed using a version of the Longley-Rice program as described in OET Bulletin No. 69 (February 6, 2004) and the Public Notice, "Additional Application Processing Guidelines for Digital Television (DTV)" (August 1998). The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run on

a Windows XP platform. Comparison of service/interference areas and populations indicates that this model closely matches the FCC's evaluation program. Best efforts have been made to use data and calculations identical to the FCC's program. Any slight differences are attributable to compiler, operating system and/or processor characteristics. The effect of any variance in calculated population values versus the FCC's program is minimized when differencing a given model's results, such as calculating new interference as total interference less baseline interference. Any variance effect is further reduced when using ratios of calculated population values such as measuring the incremental population affected as a percent of the total population served. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 4 km<sup>2</sup> using 3-second terrain data sampled approximately every 1.0 km at one degree azimuth intervals with 2000 census centroids.

WSYX has changed its post-transition channel from 13 to 48. For this reason, interference to WSYX-DT, Channel 13, Columbus, Ohio has been ignored for this analysis. Also, this analysis excludes masking interference from WSYX to other stations potentially affected by WTHR's proposed power increase. WKYT-TV, Lexington, Kentucky similarly changed its post-transition channel from 13 to 36. WKYT has also been excluded from the interference analysis as described above.

The proposed facilities are predicted to cause 1.24% (0.74% impermissible) interference to WBKO, Ch. 13, CP, Bowling Green, KY [BMPCDT-20110218ABM]. A copy of the agreement accepting this interference is attached to the electronically filed application.

The results of the analysis predict that the proposed directional operation of WTHR will not cause any new interference above the 0.5% threshold criteria to other potentially affected authorized stations.

#### Additional Broadcast Facilities

There are no AM stations located within 3.2 km and no FM stations within 0.5 km of the existing tower site. The following table lists the authorized and potential TV and DTV facilities located within 0.5 km of the transmitting site according to CDBS.

| <u>Call</u> | <u>Status</u> | <u>Service</u> | <u>Ch</u> | <u>ERP</u><br>kW | <u>RCAMSL</u><br>Meters | <u>RCAGL</u><br>Meters | <u>Distance</u><br>km |
|-------------|---------------|----------------|-----------|------------------|-------------------------|------------------------|-----------------------|
| WTHR        | Prop          | DTV            | 13        | 42.1             | 551.0                   | 299.9                  | 0.0                   |
| WTHR        | STA           | DTV            | 46        | 1000             | 521.7                   | 270.7                  | 0.0                   |
| WIPX-LP     | CP            | LD             | 34        | 15               | 488.8                   | 237.7                  | 0.0                   |
| WALV-CA     | Lic           | CA             | 50        | 14.9             | 505.0                   | 253.9                  | 0.0                   |

#### Coverage

The average elevation data for 3.2 to 16.1 km along each radial has been determined from the NGDC 3-second computerized terrain database. The F(50,90) DTV coverage contours have been computed from reference to the propagation data for Channels 7-13, as published by the FCC in Figure 10 and Figure 10a, Section 73.699 of the FCC Rules and Regulations. Utilizing the formula in Section 73.625(b)(2) of the Rules for the effective heights, it is found that the depression angle,  $A_h$ , varies from 0.458 to 0.494 degrees.

Table II includes the distances to the F(50,90) 43 and 36 dBu coverage contours, the average elevation 3.2 to 16.1 km, and the antenna effective heights for each radial spaced 10 degrees in azimuth. Exhibit E-3 provides a map of the computed coverage contours.

FCC Rule, Section 1.1307

The proposed operation based upon the current OET Bulletin No. 65, Edition No. 97-01, dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field ("RFF") guidelines, and thus, complies with Section 1.1307 of the FCC Rules. Provisions will be made to reduce power or to terminate the transmitter emissions, as appropriate, when it is necessary for authorized personnel to be on the tower.

The following equations from OET Bulletin No. 65 have been used to calculate the predicted post-transition radiofrequency fields at 2 meters above ground at the base of the tower:

**Television Broadcast Stations**

$$S = [(33.4)(F^2)(0.4 * ERP_V + ERP_A)]/R^2$$

**Digital Television Broadcast Stations**

$$S = [(33.4)(F^2)(ERP^2)]/R^2$$

S = Power Density in Microwatts/sq. cm ( $\mu\text{W}/\text{cm}^2$ )

F = Relative Field Factor in the downward direction of interest (-60° to -90° elevation)

ERP<sub>V</sub> = Total Peak Visual ERP in Watts

ERP<sub>A</sub> = Total Aural ERP in Watts

ERP = Power in Watts

R = Distance from 2 meters above ground to center of radiation in meters



| <u>Station</u> | <u>Statuts</u>  | <u>ERP</u><br>(kW) | <u>Frequency</u><br>(MHz) | <u>Ch</u> | <u>RCAGL</u><br>(m) | <u>Relative</u><br><u>Field</u> | <u>S</u><br>( $\mu\text{W}/\text{cm}^2$ ) | <u>RFF</u><br>(%) |
|----------------|-----------------|--------------------|---------------------------|-----------|---------------------|---------------------------------|---|-------------------|
| WIPX-LP        | CP              | 15                 | 590-596                   | 34        | 237.7               | 0.2                             | 0.36                                      | 0.08              |
| WALV-CA        | Lic             | 14.9               | 686-672                   | 50        | 253.9               | 0.3                             | 0.35                                      | 0.08              |
| WTHR-DT        | <b>Proposed</b> | 42.1<br>(H&V)      | 210-216                   | 13        | 299.9               | 0.084                           | 0.22                                      | 0.11              |
| WTHR-DT        | STA             | 1000               | 662-668                   | 46        | 270.7               | 0.1                             | 4.63                                      | 1.05              |
|                |                 |                    |                           |           |                     |                                 | <b>Total</b>                              | <b>1.32%</b>      |

For the proposed operation, WTHR-DT will use the existing top-mounted RCA, Type TCL-16A13 antenna (or equivalent). The manufacturer's elevation pattern for this antenna indicates a maximum relative downward field of less than 0.084 towards the ground ( $45^\circ$  to  $90^\circ$  below the horizontal) in the vicinity of the tower. Using this relative field factor and the procedures prescribed in OET Bulletin 65, the maximum RFF resulting from the proposed operation is less than  $0.22 \mu\text{W}/\text{cm}^2$ . This is less than 0.11% of the  $200 \mu\text{W}/\text{cm}^2$  maximum human exposure to RFF recommended by the current FCC guidelines for the general population.

The total contribution by authorized and expected broadcast facilities at 2 meters above ground level is less than 1.3% of the current FCC guidelines for maximum permissible exposure ("MPE") for the general population/uncontrolled environment.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate

the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities are located on a tower which was built prior to the adoption of WT Docket No. 03-128 and therefore grandfathered, and have not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing guyed tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.

- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

ABOVE MEAN SEA LEVEL

ABOVE GROUND

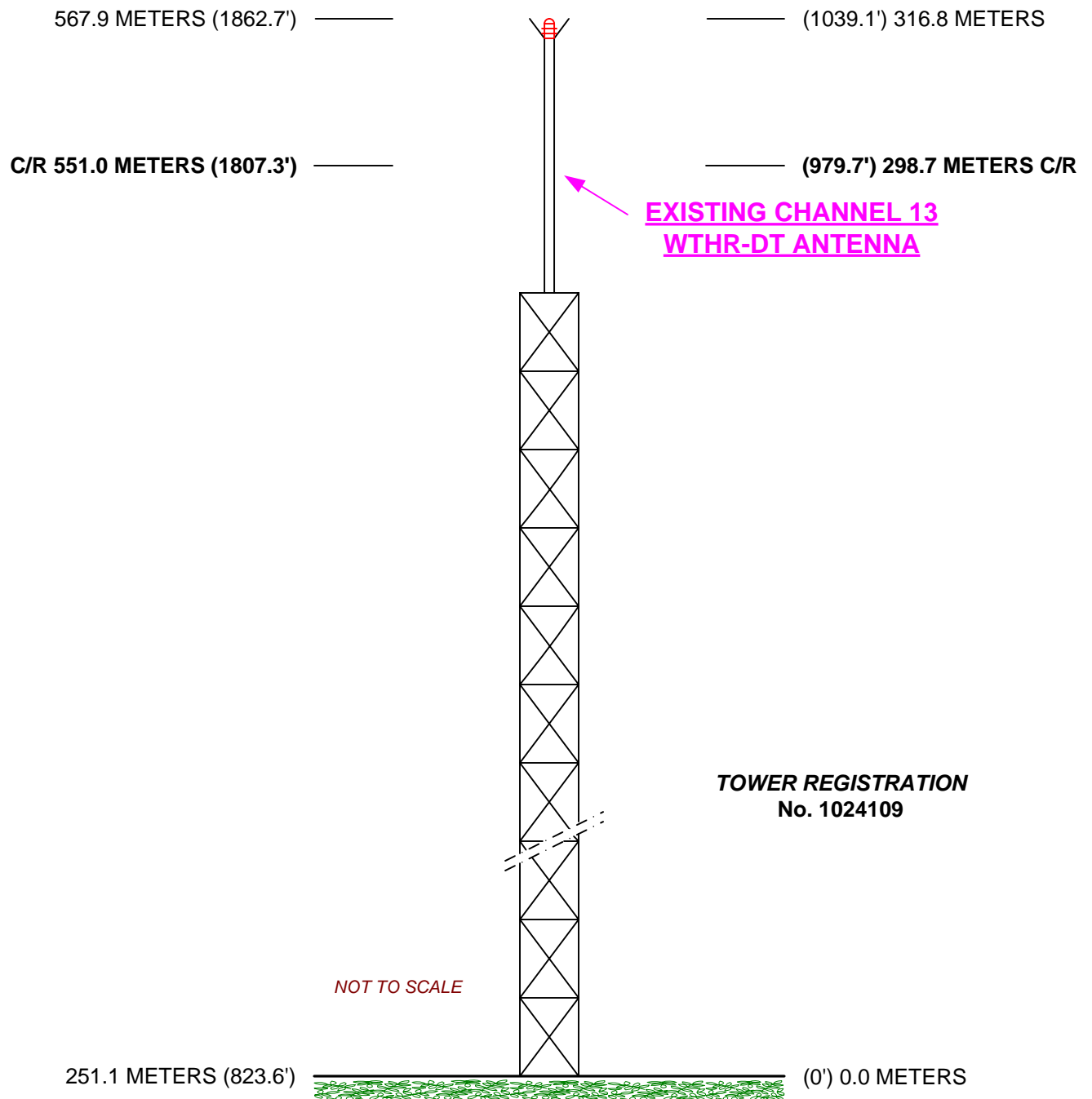


EXHIBIT E-1  
VERTICAL SKETCH  
FOR THE PROPOSED OPERATION OF  
**WTHR-DT, INDIANAPOLIS, INDIANA**  
MARCH 2011

COHEN, DIPPELL AND EVERIST, P.C.

TABLE I  
LONGLEY-RICE INTERFERENCE  
FOR THE OPERATION FOR  
WTHR-DT, INDIANAPOLIS, INDIANA  
CHANNEL 13 42.1 KW ERP MAX DA (H&V) 299 METERS HAAT  
MARCH 2011

| <u>Channel</u> | <u>Call</u> | <u>City/State</u> | <u>Dist(km)</u> | <u>Status</u> | <u>FCC File No.</u> | <u>Result</u>   |
|----------------|-------------|-------------------|-----------------|---------------|---------------------|-----------------|
| 12             | WINM        | ANGOLA IN         | 205.6           | APP           | BPCDT-20090817ACR   | No interference |
| 12             | WINM        | ANGOLA IN         | 205.6           | LIC           | BLCDT-20021025AAN   | No interference |
| 12             | WKRC-TV     | CINCINNATI OH     | 170             | LIC           | BLCDT-20090622AFI   | No interference |
| 13             | WREX        | ROCKFORD IL       | 367.2           | APP           | BPCDT-20091030AGT   | 0.17%           |
| 13             | WREX        | ROCKFORD IL       | 367.2           | CP MO         | BMPCDT-20080619ADW  | 0.34%           |
| 13             | WCFN        | SPRINGFIELD IL    | 284.7           | CP MO         | BMPCDT-20080619AJM  | 0.48%           |
| 13             | WBKO        | BOWLING GREEN KY  | 319.2           | CP            | BPCDT-20110218ABM   | 1.24%           |
| 13             | WBKO        | BOWLING GREEN KY  | 319.2           | Archived      | BMPCDT-20080611AAQ  | 0.82%           |
| 13             | WBXV-CA     | LOUISVILLE KY     | 176.2           | LIC           | BLTVA-20050202ABW   | No interference |
| 13             | WZZM        | GRAND RAPIDS MI   | 376.5           | CP            | BPCDT-20091204ACT   | 0.00%           |
| 13             | WTVG        | TOLEDO OH         | 303.8           | APP           | BMPCDT-20110111AAI  | 0.03%           |
| 13             | WTVG        | TOLEDO OH         | 303.8           | CP MO         | BMPCDT-20090507AAD  | 0.03%           |
| 13             | WOWK-TV     | HUNTINGTON WV     | 376.9           | CP            | BMPCDT-20080620AJA  | 0.00%           |

TABLE II  
COMPUTED COVERAGE DATA  
FOR THE PROPOSED DTV OPERATION OF  
WTHR, INDIANAPOLIS, INDIANA  
CHANNEL 13 42.1 KW ERP 299 METERS HAAT  
MARCH 2011

| <u>Radial</u><br><u>Bearing</u><br>(N ° E, T) | <u>Average*</u><br><u>Elevation</u> | <u>Effective</u><br><u>Height</u><br>meters | <u>Depression</u><br><u>Angle</u><br>degrees | <u>ERP At</u><br><u>Radio</u><br><u>Horizon</u><br>kW | <u>Distance to Contour F(50,90)</u>      |   |
|---|-------------------------------------|---|--|---|--|---|
|   | <u>3.2 to 16.1 km</u><br>meters     |   |  |   | <u>43 dBu</u><br><u>City Grade</u><br>km | <u>36 dBu</u><br><u>Noise-Limited</u><br>km |
| 0   | 277.5                               | 273.5                                       | 0.458  | 34.7  | 88.3                                     | 100.8                                       |
| 10  | 276.8                               | 274.2                                       | 0.459  | 35.7  | 88.5                                     | 101.1                                       |
| 20  | 274.4                               | 276.6                                       | 0.461  | 37.7  | 89.1                                     | 101.6                                       |
| 30  | 265.0                               | 286.0                                       | 0.468  | 40.3  | 89.9                                     | 102.6                                       |
| 40  | 260.3                               | 290.7                                       | 0.472  | 42.2  | 90.5                                     | 103.2                                       |
| 50  | 256.1                               | 294.9                                       | 0.476  | 42.7  | 90.8                                     | 103.5                                       |
| 60  | 251.9                               | 299.1                                       | 0.479  | 42.2  | 90.9                                     | 103.7                                       |
| 70  | 245.2                               | 305.8                                       | 0.484  | 40.3  | 91.0                                     | 103.9                                       |
| 80  | 242.2                               | 308.8                                       | 0.487  | 37.7  | 90.7                                     | 103.5                                       |
| 90  | 241.9                               | 309.1                                       | 0.487  | 35.7  | 90.3                                     | 103.1                                       |
| 100   | 242.4                               | 308.6                                       | 0.487  | 34.7  | 90.1                                     | 102.8                                       |
| 110   | 246.0                               | 305.0                                       | 0.484  | 35.7  | 90.0                                     | 102.8                                       |
| 120   | 245.2                               | 305.8                                       | 0.484  | 37.7  | 90.5                                     | 103.3                                       |
| 130   | 246.5                               | 304.5                                       | 0.483  | 40.3  | 90.9                                     | 103.8                                       |
| 140   | 244.8                               | 306.2                                       | 0.485  | 42.2  | 91.4                                     | 104.3                                       |
| 150   | 243.6                               | 307.4                                       | 0.486  | 42.7  | 91.6                                     | 104.5                                       |
| 160   | 241.4                               | 309.6                                       | 0.487  | 42.2  | 91.7                                     | 104.6                                       |
| 170   | 238.6                               | 312.4                                       | 0.490  | 40.3  | 91.5                                     | 104.4                                       |
| 180   | 233.6                               | 317.4                                       | 0.493  | 37.7  | 91.4                                     | 104.3                                       |
| 190   | 232.3                               | 318.7                                       | 0.495  | 35.7  | 91.0                                     | 103.9                                       |
| 200   | 233.0                               | 318.0                                       | 0.494  | 34.7  | 90.8                                     | 103.6                                       |
| 210   | 237.2                               | 313.8                                       | 0.491  | 35.7  | 90.7                                     | 103.5                                       |
| 220   | 238.7                               | 312.3                                       | 0.490  | 37.7  | 91.0                                     | 103.8                                       |
| 230   | 245.3                               | 305.7                                       | 0.484  | 40.3  | 91.0                                     | 103.9                                       |
| 240   | 253.6                               | 297.4                                       | 0.478  | 42.2  | 90.8                                     | 103.6                                       |
| 250   | 257.1                               | 293.9                                       | 0.475  | 42.7  | 90.7                                     | 103.5                                       |
| 260   | 259.9                               | 291.1                                       | 0.473  | 42.2  | 90.5                                     | 103.2                                       |
| 270   | 262.7                               | 288.3                                       | 0.470  | 40.3  | 90.0                                     | 102.7                                       |

TABLE II  
COMPUTED COVERAGE DATA  
FOR THE PROPOSED DTV OPERATION OF  
WTHR, INDIANAPOLIS, INDIANA  
CHANNEL 13 42.1 KW ERP 299 METERS HAAT  
MARCH 2011

| <u>Radial</u><br><u>Bearing</u><br>(N ° E, T) | <u>Average*</u><br><u>Elevation</u><br><u>3.2 to 16.1 km</u><br>meters | <u>Effective</u><br><u>Height</u><br>meters | <u>Depression</u><br><u>Angle</u><br>degrees | <u>ERP At</u><br><u>Radio</u><br><u>Horizon</u><br>kW | <u>Distance to Contour F(50,90)</u>      |   |
|---|--|---|--|---|--|---|
|   |  |   |  |   | <u>43 dBu</u><br><u>City Grade</u><br>km | <u>36 dBu</u><br><u>Noise-Limited</u><br>km |
| 280   | 268.9  | 282.1                                       | 0.465  | 37.7  | 89.3                                     | 101.8                                       |
| 290   | 271.7  | 279.3                                       | 0.463  | 35.7  | 88.7                                     | 101.3                                       |
| 300   | 274.3  | 276.7                                       | 0.461  | 34.7  | 88.4                                     | 100.9                                       |
| 310   | 275.7  | 275.3                                       | 0.460  | 35.7  | 88.6                                     | 101.1                                       |
| 320   | 276.8  | 274.2                                       | 0.459  | 37.7  | 89.0                                     | 101.5                                       |
| 330   | 275.8  | 275.2                                       | 0.460  | 40.3  | 89.5                                     | 102.1                                       |
| 340   | 272.2  | 278.8                                       | 0.462  | 42.2  | 90.0                                     | 102.6                                       |
| 350   | 272.1  | 278.9                                       | 0.463  | 42.7  | 90.1                                     | 102.7                                       |
| 320   | 274.7  | 276.3                                       | 0.460  | 47.129  | 90.8                                     | 103.4                                       |
| 330   | 276.2  | 274.8                                       | 0.459  | 45.066  | 90.4                                     | 103.0                                       |
| 340   | 277.9  | 273.1                                       | 0.458  | 42.148  | 89.8                                     | 102.4                                       |
| 350   | 277.9  | 273.1                                       | 0.458  | 39.848  | 89.4                                     | 101.9                                       |

\* Based on data from FCC 3-second database

DTV Channel 13 (210-216 MHz)  
Average Elevation 3.2 to 16.1 km 257.2 meters AMSL  
Center of Radiation 551 meters AMSL  
Antenna Height Above Average Terrain 299 meters  
Effective Radiated Power 42.1 kW (16.24 dBk) Max.

North Latitude: 39° 55' 43"  
West Longitude: 86° 10' 55"

(NAD-27)

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

WTHR-DT, INDIANAPOLIS, INDIANA





Date  
Call Letters  
Location  
Customer  
Antenna Type

18 Jan 2011  
WTHR  
Indianapolis, IN  
WTHR  
TCL-16A

Channel 13

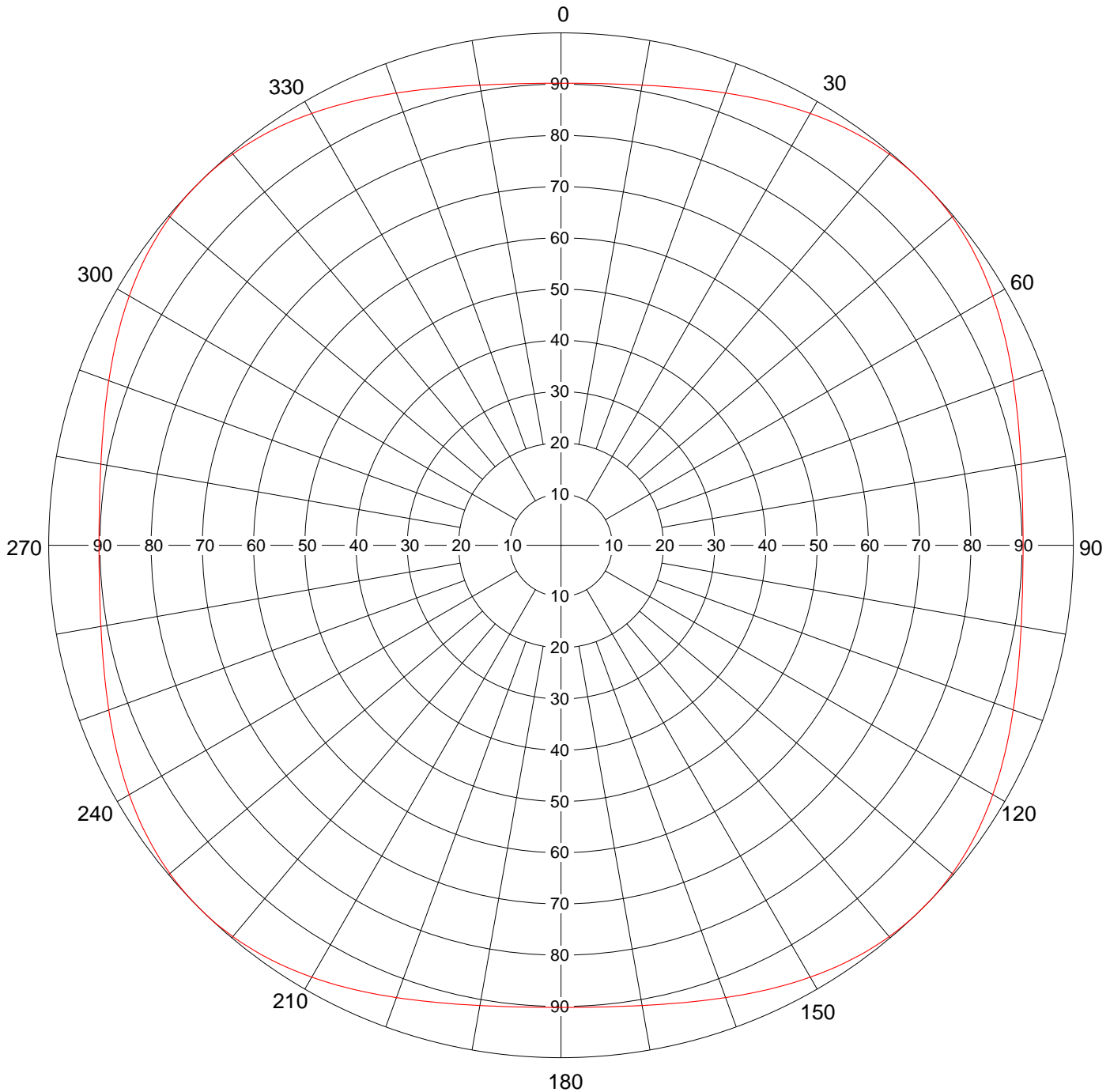
### AZIMUTH PATTERN

Gain  
Calculated / Measured

1.10 (0.41 dB)  
Calculated

Frequency  
Drawing #

213 MHz  
TCL-O-HP



Remarks:



Date **18 Jan 2011**  
 Call Letters **WTHR** Channel **13**  
 Location **Indianapolis, IN**  
 Customer **WTHR**  
 Antenna Type **TCL-16A**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TCL-O-HP**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0     | 0.902 | 45    | 1.000 | 90    | 0.902 | 135   | 1.000 | 180   | 0.902 | 225   | 1.000 | 270   | 0.902 | 315   | 1.000 |
| 1     | 0.902 | 46    | 1.000 | 91    | 0.902 | 136   | 1.000 | 181   | 0.902 | 226   | 1.000 | 271   | 0.902 | 316   | 1.000 |
| 2     | 0.902 | 47    | 0.999 | 92    | 0.902 | 137   | 0.999 | 182   | 0.902 | 227   | 0.999 | 272   | 0.902 | 317   | 0.999 |
| 3     | 0.903 | 48    | 0.999 | 93    | 0.903 | 138   | 0.999 | 183   | 0.903 | 228   | 0.999 | 273   | 0.903 | 318   | 0.999 |
| 4     | 0.903 | 49    | 0.998 | 94    | 0.903 | 139   | 0.998 | 184   | 0.903 | 229   | 0.998 | 274   | 0.903 | 319   | 0.998 |
| 5     | 0.904 | 50    | 0.997 | 95    | 0.904 | 140   | 0.997 | 185   | 0.904 | 230   | 0.997 | 275   | 0.904 | 320   | 0.997 |
| 6     | 0.906 | 51    | 0.995 | 96    | 0.906 | 141   | 0.995 | 186   | 0.906 | 231   | 0.995 | 276   | 0.906 | 321   | 0.995 |
| 7     | 0.907 | 52    | 0.994 | 97    | 0.907 | 142   | 0.994 | 187   | 0.907 | 232   | 0.994 | 277   | 0.907 | 322   | 0.994 |
| 8     | 0.908 | 53    | 0.992 | 98    | 0.908 | 143   | 0.992 | 188   | 0.908 | 233   | 0.992 | 278   | 0.908 | 323   | 0.992 |
| 9     | 0.910 | 54    | 0.990 | 99    | 0.910 | 144   | 0.990 | 189   | 0.910 | 234   | 0.990 | 279   | 0.910 | 324   | 0.990 |
| 10    | 0.912 | 55    | 0.987 | 100   | 0.912 | 145   | 0.987 | 190   | 0.912 | 235   | 0.987 | 280   | 0.912 | 325   | 0.987 |
| 11    | 0.914 | 56    | 0.985 | 101   | 0.914 | 146   | 0.985 | 191   | 0.914 | 236   | 0.985 | 281   | 0.914 | 326   | 0.985 |
| 12    | 0.916 | 57    | 0.982 | 102   | 0.916 | 147   | 0.982 | 192   | 0.916 | 237   | 0.982 | 282   | 0.916 | 327   | 0.982 |
| 13    | 0.919 | 58    | 0.979 | 103   | 0.919 | 148   | 0.979 | 193   | 0.919 | 238   | 0.979 | 283   | 0.919 | 328   | 0.979 |
| 14    | 0.921 | 59    | 0.976 | 104   | 0.921 | 149   | 0.976 | 194   | 0.921 | 239   | 0.976 | 284   | 0.921 | 329   | 0.976 |
| 15    | 0.924 | 60    | 0.973 | 105   | 0.924 | 150   | 0.973 | 195   | 0.924 | 240   | 0.973 | 285   | 0.924 | 330   | 0.973 |
| 16    | 0.927 | 61    | 0.970 | 106   | 0.927 | 151   | 0.970 | 196   | 0.927 | 241   | 0.970 | 286   | 0.927 | 331   | 0.970 |
| 17    | 0.930 | 62    | 0.967 | 107   | 0.930 | 152   | 0.967 | 197   | 0.930 | 242   | 0.967 | 287   | 0.930 | 332   | 0.967 |
| 18    | 0.933 | 63    | 0.963 | 108   | 0.933 | 153   | 0.963 | 198   | 0.933 | 243   | 0.963 | 288   | 0.933 | 333   | 0.963 |
| 19    | 0.936 | 64    | 0.960 | 109   | 0.936 | 154   | 0.960 | 199   | 0.936 | 244   | 0.960 | 289   | 0.936 | 334   | 0.960 |
| 20    | 0.939 | 65    | 0.956 | 110   | 0.939 | 155   | 0.956 | 200   | 0.939 | 245   | 0.956 | 290   | 0.939 | 335   | 0.956 |
| 21    | 0.943 | 66    | 0.953 | 111   | 0.943 | 156   | 0.953 | 201   | 0.943 | 246   | 0.953 | 291   | 0.943 | 336   | 0.953 |
| 22    | 0.946 | 67    | 0.950 | 112   | 0.946 | 157   | 0.950 | 202   | 0.946 | 247   | 0.950 | 292   | 0.946 | 337   | 0.950 |
| 23    | 0.950 | 68    | 0.946 | 113   | 0.950 | 158   | 0.946 | 203   | 0.950 | 248   | 0.946 | 293   | 0.950 | 338   | 0.946 |
| 24    | 0.953 | 69    | 0.943 | 114   | 0.953 | 159   | 0.943 | 204   | 0.953 | 249   | 0.943 | 294   | 0.953 | 339   | 0.943 |
| 25    | 0.956 | 70    | 0.939 | 115   | 0.956 | 160   | 0.939 | 205   | 0.956 | 250   | 0.939 | 295   | 0.956 | 340   | 0.939 |
| 26    | 0.960 | 71    | 0.936 | 116   | 0.960 | 161   | 0.936 | 206   | 0.960 | 251   | 0.936 | 296   | 0.960 | 341   | 0.936 |
| 27    | 0.963 | 72    | 0.933 | 117   | 0.963 | 162   | 0.933 | 207   | 0.963 | 252   | 0.933 | 297   | 0.963 | 342   | 0.933 |
| 28    | 0.967 | 73    | 0.930 | 118   | 0.967 | 163   | 0.930 | 208   | 0.967 | 253   | 0.930 | 298   | 0.967 | 343   | 0.930 |
| 29    | 0.970 | 74    | 0.927 | 119   | 0.970 | 164   | 0.927 | 209   | 0.970 | 254   | 0.927 | 299   | 0.970 | 344   | 0.927 |
| 30    | 0.973 | 75    | 0.924 | 120   | 0.973 | 165   | 0.924 | 210   | 0.973 | 255   | 0.924 | 300   | 0.973 | 345   | 0.924 |
| 31    | 0.976 | 76    | 0.921 | 121   | 0.976 | 166   | 0.921 | 211   | 0.976 | 256   | 0.921 | 301   | 0.976 | 346   | 0.921 |
| 32    | 0.979 | 77    | 0.919 | 122   | 0.979 | 167   | 0.919 | 212   | 0.979 | 257   | 0.919 | 302   | 0.979 | 347   | 0.919 |
| 33    | 0.982 | 78    | 0.916 | 123   | 0.982 | 168   | 0.916 | 213   | 0.982 | 258   | 0.916 | 303   | 0.982 | 348   | 0.916 |
| 34    | 0.985 | 79    | 0.914 | 124   | 0.985 | 169   | 0.914 | 214   | 0.985 | 259   | 0.914 | 304   | 0.985 | 349   | 0.914 |
| 35    | 0.987 | 80    | 0.912 | 125   | 0.987 | 170   | 0.912 | 215   | 0.987 | 260   | 0.912 | 305   | 0.987 | 350   | 0.912 |
| 36    | 0.990 | 81    | 0.910 | 126   | 0.990 | 171   | 0.910 | 216   | 0.990 | 261   | 0.910 | 306   | 0.990 | 351   | 0.910 |
| 37    | 0.992 | 82    | 0.908 | 127   | 0.992 | 172   | 0.908 | 217   | 0.992 | 262   | 0.908 | 307   | 0.992 | 352   | 0.908 |
| 38    | 0.994 | 83    | 0.907 | 128   | 0.994 | 173   | 0.907 | 218   | 0.994 | 263   | 0.907 | 308   | 0.994 | 353   | 0.907 |
| 39    | 0.995 | 84    | 0.906 | 129   | 0.995 | 174   | 0.906 | 219   | 0.995 | 264   | 0.906 | 309   | 0.995 | 354   | 0.906 |
| 40    | 0.997 | 85    | 0.904 | 130   | 0.997 | 175   | 0.904 | 220   | 0.997 | 265   | 0.904 | 310   | 0.997 | 355   | 0.904 |
| 41    | 0.998 | 86    | 0.903 | 131   | 0.998 | 176   | 0.903 | 221   | 0.998 | 266   | 0.903 | 311   | 0.998 | 356   | 0.903 |
| 42    | 0.999 | 87    | 0.903 | 132   | 0.999 | 177   | 0.903 | 222   | 0.999 | 267   | 0.903 | 312   | 0.999 | 357   | 0.903 |
| 43    | 0.999 | 88    | 0.902 | 133   | 0.999 | 178   | 0.902 | 223   | 0.999 | 268   | 0.902 | 313   | 0.999 | 358   | 0.902 |
| 44    | 1.000 | 89    | 0.902 | 134   | 1.000 | 179   | 0.902 | 224   | 1.000 | 269   | 0.902 | 314   | 1.000 | 359   | 0.902 |

Remarks:



Date  
Call Letters  
Location  
Customer  
Antenna Type

29 Dec 2010  
WTHR Channel 13  
Indianapolis, IN  
VideoIndiana  
TCL-16A

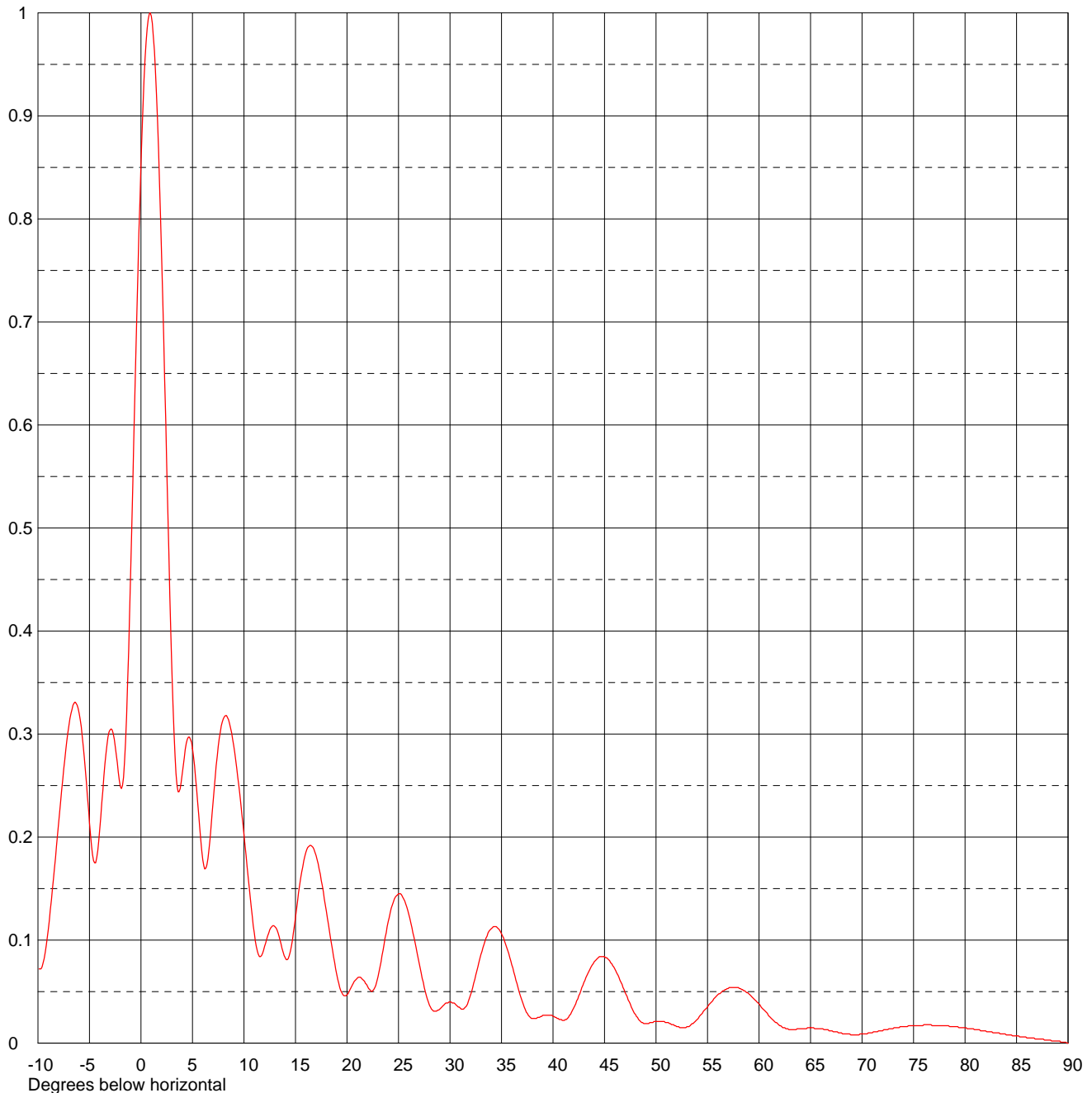
### ELEVATION PATTERN

RMS Gain at Main Lobe  
RMS Gain at Horizontal  
Calculated / Measured

**8.0 (9.03 dB)**  
**5.8 (7.63 dB)**  
**Calculated**

Beam Tilt  
Frequency  
Drawing #

**0.90 Degrees**  
**213.00 MHz**  
**03T080090-90**



Remarks:



Date **29 Dec 2010**  
 Call Letters **WTHR** Channel **13**  
 Location **Indianapolis, IN**  
 Customer **VideolIndiana**  
 Antenna Type **TCL-16A**

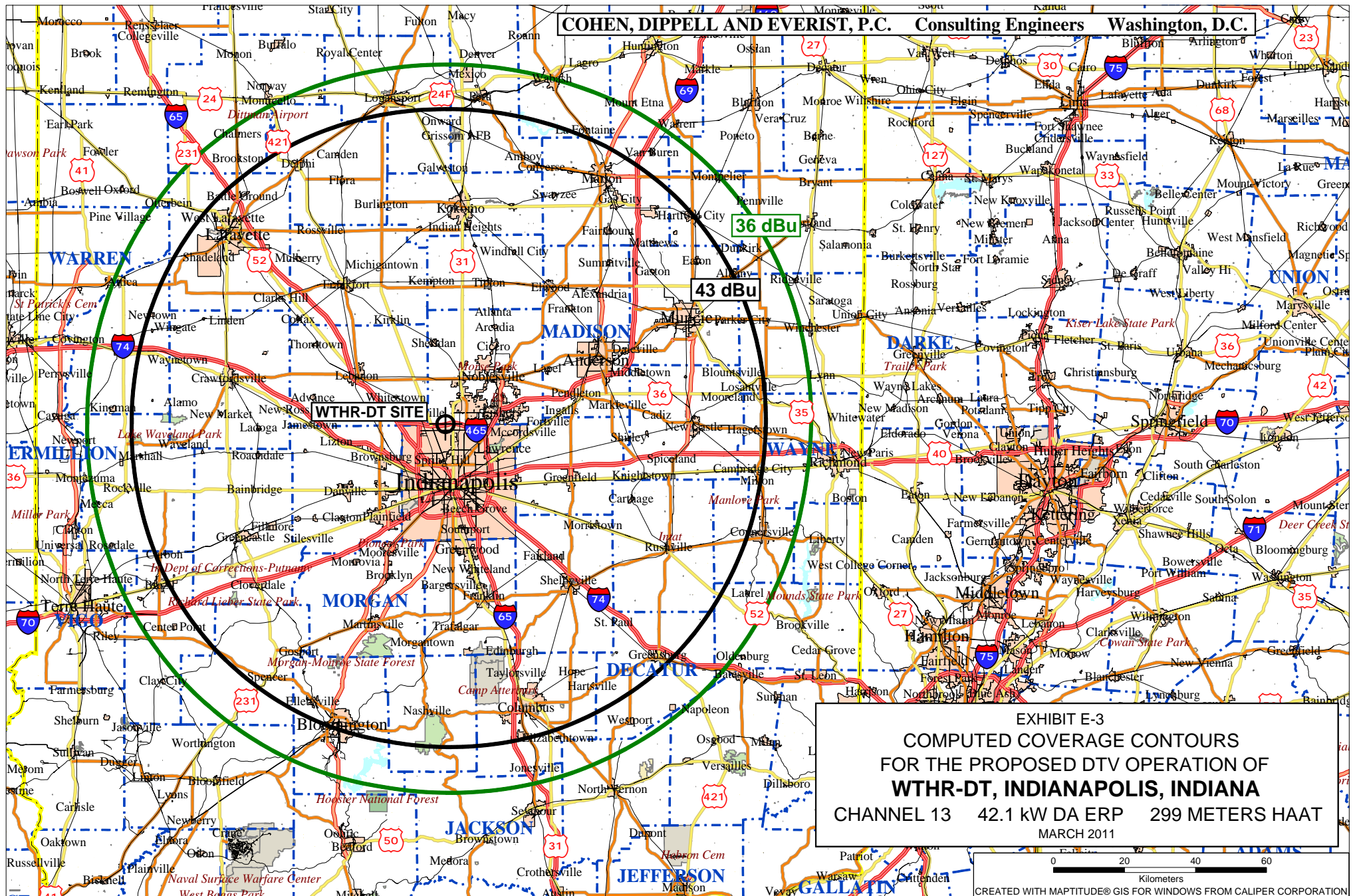
## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **03T080090-90**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.074 | 2.4   | 0.603 | 10.6  | 0.142 | 30.5  | 0.038 | 51.0  | 0.020 | 71.5  | 0.011 |
| -9.5  | 0.078 | 2.6   | 0.518 | 10.8  | 0.123 | 31.0  | 0.034 | 51.5  | 0.018 | 72.0  | 0.012 |
| -9.0  | 0.110 | 2.8   | 0.436 | 11.0  | 0.107 | 31.5  | 0.035 | 52.0  | 0.016 | 72.5  | 0.013 |
| -8.5  | 0.159 | 3.0   | 0.362 | 11.5  | 0.084 | 32.0  | 0.047 | 52.5  | 0.015 | 73.0  | 0.014 |
| -8.0  | 0.213 | 3.2   | 0.302 | 12.0  | 0.094 | 32.5  | 0.066 | 53.0  | 0.016 | 73.5  | 0.015 |
| -7.5  | 0.266 | 3.4   | 0.262 | 12.5  | 0.110 | 33.0  | 0.086 | 53.5  | 0.019 | 74.0  | 0.016 |
| -7.0  | 0.308 | 3.6   | 0.244 | 13.0  | 0.113 | 33.5  | 0.102 | 54.0  | 0.023 | 74.5  | 0.017 |
| -6.5  | 0.330 | 3.8   | 0.247 | 13.5  | 0.100 | 34.0  | 0.111 | 54.5  | 0.029 | 75.0  | 0.017 |
| -6.0  | 0.320 | 4.0   | 0.261 | 14.0  | 0.083 | 34.5  | 0.113 | 55.0  | 0.035 | 75.5  | 0.017 |
| -5.5  | 0.277 | 4.2   | 0.277 | 14.5  | 0.089 | 35.0  | 0.106 | 55.5  | 0.041 | 76.0  | 0.018 |
| -5.0  | 0.214 | 4.4   | 0.291 | 15.0  | 0.122 | 35.5  | 0.093 | 56.0  | 0.047 | 76.5  | 0.018 |
| -4.5  | 0.175 | 4.6   | 0.297 | 15.5  | 0.160 | 36.0  | 0.076 | 56.5  | 0.051 | 77.0  | 0.017 |
| -4.0  | 0.208 | 4.8   | 0.295 | 16.0  | 0.185 | 36.5  | 0.058 | 57.0  | 0.053 | 77.5  | 0.017 |
| -3.5  | 0.271 | 5.0   | 0.286 | 16.5  | 0.192 | 37.0  | 0.041 | 57.5  | 0.054 | 78.0  | 0.017 |
| -3.0  | 0.304 | 5.2   | 0.269 | 17.0  | 0.182 | 37.5  | 0.029 | 58.0  | 0.054 | 78.5  | 0.016 |
| -2.8  | 0.304 | 5.4   | 0.247 | 17.5  | 0.158 | 38.0  | 0.024 | 58.5  | 0.051 | 79.0  | 0.016 |
| -2.6  | 0.295 | 5.6   | 0.222 | 18.0  | 0.128 | 38.5  | 0.025 | 59.0  | 0.048 | 79.5  | 0.015 |
| -2.4  | 0.280 | 5.8   | 0.197 | 18.5  | 0.096 | 39.0  | 0.027 | 59.5  | 0.043 | 80.0  | 0.015 |
| -2.2  | 0.263 | 6.0   | 0.178 | 19.0  | 0.067 | 39.5  | 0.027 | 60.0  | 0.038 | 80.5  | 0.014 |
| -2.0  | 0.249 | 6.2   | 0.169 | 19.5  | 0.049 | 40.0  | 0.026 | 60.5  | 0.032 | 81.0  | 0.013 |
| -1.8  | 0.250 | 6.4   | 0.173 | 20.0  | 0.047 | 40.5  | 0.024 | 61.0  | 0.026 | 81.5  | 0.012 |
| -1.6  | 0.272 | 6.6   | 0.188 | 20.5  | 0.056 | 41.0  | 0.022 | 61.5  | 0.021 | 82.0  | 0.012 |
| -1.4  | 0.317 | 6.8   | 0.209 | 21.0  | 0.063 | 41.5  | 0.025 | 62.0  | 0.017 | 82.5  | 0.011 |
| -1.2  | 0.381 | 7.0   | 0.234 | 21.5  | 0.062 | 42.0  | 0.034 | 62.5  | 0.015 | 83.0  | 0.010 |
| -1.0  | 0.458 | 7.2   | 0.258 | 22.0  | 0.055 | 42.5  | 0.046 | 63.0  | 0.013 | 83.5  | 0.009 |
| -0.8  | 0.541 | 7.4   | 0.279 | 22.5  | 0.051 | 43.0  | 0.059 | 63.5  | 0.013 | 84.0  | 0.008 |
| -0.6  | 0.626 | 7.6   | 0.296 | 23.0  | 0.064 | 43.5  | 0.070 | 64.0  | 0.014 | 84.5  | 0.008 |
| -0.4  | 0.709 | 7.8   | 0.308 | 23.5  | 0.090 | 44.0  | 0.079 | 64.5  | 0.014 | 85.0  | 0.007 |
| -0.2  | 0.786 | 8.0   | 0.315 | 24.0  | 0.118 | 44.5  | 0.084 | 65.0  | 0.015 | 85.5  | 0.006 |
| 0.0   | 0.854 | 8.2   | 0.318 | 24.5  | 0.137 | 45.0  | 0.084 | 65.5  | 0.014 | 86.0  | 0.005 |
| 0.2   | 0.911 | 8.4   | 0.316 | 25.0  | 0.145 | 45.5  | 0.080 | 66.0  | 0.014 | 86.5  | 0.005 |
| 0.4   | 0.956 | 8.6   | 0.310 | 25.5  | 0.140 | 46.0  | 0.072 | 66.5  | 0.013 | 87.0  | 0.004 |
| 0.6   | 0.985 | 8.8   | 0.301 | 26.0  | 0.125 | 46.5  | 0.061 | 67.0  | 0.012 | 87.5  | 0.004 |
| 0.8   | 0.999 | 9.0   | 0.289 | 26.5  | 0.103 | 47.0  | 0.049 | 67.5  | 0.011 | 88.0  | 0.003 |
| 1.0   | 0.997 | 9.2   | 0.274 | 27.0  | 0.078 | 47.5  | 0.038 | 68.0  | 0.010 | 88.5  | 0.002 |
| 1.2   | 0.978 | 9.4   | 0.258 | 27.5  | 0.054 | 48.0  | 0.028 | 68.5  | 0.009 | 89.0  | 0.002 |
| 1.4   | 0.945 | 9.6   | 0.241 | 28.0  | 0.037 | 48.5  | 0.021 | 69.0  | 0.008 | 89.5  | 0.001 |
| 1.6   | 0.897 | 9.8   | 0.222 | 28.5  | 0.031 | 49.0  | 0.019 | 69.5  | 0.008 | 90.0  | 0.000 |
| 1.8   | 0.836 | 10.0  | 0.202 | 29.0  | 0.033 | 49.5  | 0.020 | 70.0  | 0.009 |       |       |
| 2.0   | 0.765 | 10.2  | 0.182 | 29.5  | 0.038 | 50.0  | 0.021 | 70.5  | 0.009 |       |       |
| 2.2   | 0.686 | 10.4  | 0.162 | 30.0  | 0.040 | 50.5  | 0.021 | 71.0  | 0.010 |       |       |

Remarks:





### SECTION III - D - DTV Engineering

**Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.**

**Pre-Transition Certification Checklist:** An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to modify pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

**Post-Transition Expedited Processing.** An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed on or before March 17, 2008 (45 days of the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91).

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:
  - (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
  - (b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
  - (c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
  - (d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"). ☐ Yes ☐ No  
☐ N/A
  - (e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B. ☐ Yes ☐ No  
☐ N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RIF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. ☐ Yes ☐ No

Applicant must **submit the Exhibit** called for in Item 13.

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☐ Yes ☐ No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. ☐ Yes ☐ No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. ☐ Yes ☐ No

### SECTION III - D DTV Engineering

**TECHNICAL SPECIFICATIONS** Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

#### TECH BOX

1. Channel Number: DTV \_\_\_\_\_ Analog TV, if any \_\_\_\_\_
2. Zone: ☐ I ☐ II ☐ III
3. Antenna Location Coordinates: (NAD 27)
- \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ N ☐ S Latitude  
\_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ E ☐ W Longitude
4. Antenna Structure Registration Number: \_\_\_\_\_
- ☐ Not applicable ☐ FAA Notification Filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level: \_\_\_\_\_ meters
6. Overall Tower Height Above Ground Level: \_\_\_\_\_ meters
7. Height of Radiation Center Above Ground Level: \_\_\_\_\_ meters
8. Height of Radiation Center Above Average Terrain: \_\_\_\_\_ meters
9. Maximum Effective Radiated Power (average power): \_\_\_\_\_ kW
10. Antenna Specifications:
- a. 

|              |       |
|--------------|-------|
| Manufacturer | Model |
|--------------|-------|
- b. Electrical Beam Tilt: \_\_\_\_\_ degrees ☐ Not Applicable
- c. Mechanical Beam Tilt: \_\_\_\_\_ degrees toward azimuth \_\_\_\_\_ degrees True ☐ Not Applicable
- Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). 

|             |
|-------------|
| Exhibit No. |
|-------------|
- d. Polarization: ☐ Horizontal ☐ Circular ☐ Elliptical

## TECH BOX

e. Directional Antenna Relative Field Values:

☐

Not applicable (Nondirectional)

Rotation: \_\_\_\_\_

☐

No rotation

| Degree              | Value | Degree | Value | Degree | Value | Degree | Value | Degree | Value | Degree | Value |
|---------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0                   |       | 60     |       | 120    |       | 180    |       | 240    |       | 300    |       |
| 10                  |       | 70     |       | 130    |       | 190    |       | 250    |       | 310    |       |
| 20                  |       | 80     |       | 140    |       | 200    |       | 260    |       | 320    |       |
| 30                  |       | 90     |       | 150    |       | 210    |       | 270    |       | 330    |       |
| 40                  |       | 100    |       | 160    |       | 220    |       | 280    |       | 340    |       |
| 50                  |       | 110    |       | 170    |       | 230    |       | 290    |       | 350    |       |
| Additional Azimuths |       |        |       |        |       |        |       |        |       |        |       |

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.

11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?

☐

Yes

☐

No

If "No," attach as an Exhibit justification therefore, including a summary of any related previously granted waivers.

Exhibit No.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.

- a. If **Certification Checklist Item 2** is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.



10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.

☐ WTHR-DT  
Y 42.1 KW

Exhibit No.

An exhibit is required unless this question is inapplicable.

11. **Anti-Drug Abuse Act Certification.** Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.

☐ Yes ☐ No

12. **Equal Employment Opportunity (EEO).** If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.

☐ Yes ☐ No ☐ N/A

13. **Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments.** If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. Section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.

☐ Yes ☐ No ☐ N/A

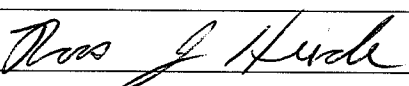
I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in 'good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

|   |  |
|---|--|
| Typed or Printed Name of Person Signing | Typed or Printed Title of Person Signing |
| Signature                               | Date                                     |

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

### SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

|  |  |                   |
|--|--|-------------------|
| Name<br>Ross J. Heide  | Relationship to Applicant (e.g., Consulting Engineer)<br>Consulting Engineer |                   |
| Signature<br> | Date<br>March 28, 2011   |                   |
| Mailing Address<br>Cohen, Dippell and Everist, PC, 1420 N Street NW, Suite One                   |  |                   |
| City<br>Washington   | State or Country (if foreign address)<br>DC                                  | ZIP Code<br>20005 |
| Telephone Number (include area code)<br>202-898-0111   | E-Mail Address (if available)<br>cde@attglobal.net                           |                   |

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