

ENGINEERING STATEMENT
RE ENGINEERING DATA FOR APPLICATION
TO SUPPORT REQUEST FOR
SPECIAL TEMPORARY AUTHORITY
ON BEHALF OF
INDEPENDENCE TELEVISION COMPANY
WMYO-DT, SALEM, INDIANA
CHANNEL 51 776 KW ND ERP 390.4 METERS HAAT

AUGUST 2009

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)

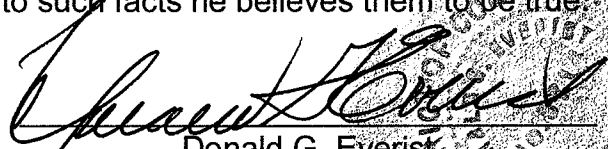
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

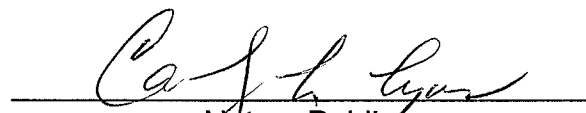
That his qualifications are a matter of record in the Federal Communications Commission;

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

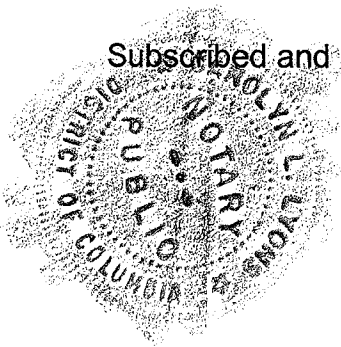
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true;


Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 21st day of August, 2009.


Notary Public

My Commission Expires: 2/28/2013



This engineering statement has been prepared on behalf of Independence Television Company, licensee of WMYO-DT, Salem, Indiana, in support of an application for special temporary authority to operate at reduced effective radiated power ("ERP") pending completion of the construction authorized by the outstanding construction permit, FCC File No. BMPCDT-20080620AJK.

Transmitter Site and Equipment Data

WMYO(TV) operated on NTSC television Channel 58 with a maximum visual ERP of 1780 kW directional and an antenna height above average terrain ("HAAT") of 346 meters (1135 feet). WMYO-DT has been allocated DTV Channel 51 with facilities of 1000 kW directional and HAAT of 390 meters in the revised DTV Table of Allotments¹ and has received a construction permit for these facilities and is authorized to construct DTV facilities of 1000 kW non-directional at a height above average terrain of 390.4 meters. WMYO-DT will be diplexed into a common antenna with WDRB-DT. This diplexed antenna has been installed. Prior to this installation, it was necessary to dismantle and remove the existing WDRB NTSC antenna.

Transmitter Site and Equipment Data

There are no AM stations located within 3.2 km of the proposed WMYO-DT tower site. There are no FM and there is one full-service DTV facility, WDRB-DT within 100 meters.

¹In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service", MM Docket 87-268, Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report and Order (FCC 08-72) Appendix B, Released March 6, 2008.

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ENGINEERING STATEMENT
WMYO-DT, SALEM, INDIANA

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The DTV antenna is top-mounted on the existing tower. The WMYO-DT common antenna will be located on an existing tower having a total overall structure height above ground of 304.8 meters (1000 feet). The existing transmitter site is located at 5257 South Skyline Drive, Floyds Knob, Indiana. The registration number for the tower is 1028421.

Since there is no change in overall height, FAA airspace approval is not required. Exhibit E-1 is a vertical sketch of the existing tower and the proposed transmitting antenna.

The geographic coordinates of the proposed site are as follows:

North Latitude: 38° 21' 00"

West Longitude: 85° 50' 57"

NAD-27

Equipment Data

Antenna: Dielectric, Model TFU-32GTH-R O6 antenna with 0.90° electrical beam tilt. The vertical plane pattern and other exhibits required by Section 73.625(c) are herein included as Exhibit E-2.

Transmission Line: 325 meters (1065 ft) of Dielectric, Type EIA rigid TL, 8-3/16", 75 ohm or equivalent

Power Data

| | | |
|-----------------------------------|----------|-----------|
| Transmitter output | 40 kW | 16.02 dBk |
| Combiner Loss | 94.4% | 0.25 dBk |
| Transmission line efficiency/loss | 79.1% | 1.02 dB |
| Input power to the antenna | 29.81 kW | 14.75 dBk |

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ENGINEERING STATEMENT
WMYO-DT, SALEM, INDIANA

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| | | |
|----------------------------------|--------|----------|
| Antenna power gain, Main Lobe | 26 | 14.15 dB |
| Effective Radiated Power, | 776 kW | 28.9 dBk |

Elevation Data

| | |
|--|---------------------------|
| Vertical dimension for Channel WMYO-DT diplexed antenna | 16.1 meters 52.8 feet |
| Overall height above ground of the existing antenna structure (including beacon and lightning rod) | 304.8 meters 1000 feet |
| Center of radiation of Channel 51 antenna above ground | 296 meters 971 feet |
| Elevation of site above mean sea level | 292.9 meters 961 feet |
| Center of radiation of Channel 51 antenna above mean sea level | 588.9 meters 1932 feet |
| Overall height above mean sea level of existing tower and diplexed antenna (including beacon) | 597.7 meters 1961 feet |
| Antenna height above average terrain | 390.4 meters 1281 feet |

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

Coverage

The average elevation data for 3.2 to 16.1 km along each radial are based upon the 3-second NGDC profile data and conforms very closely to the terrain information of that determined by using the 7.5 minute topographic maps on file at the Commission.

The F(50,90) DTV coverage contour has been computed every 45 degrees in azimuth from reference to the propagation data for Channels 14-69, as published by the FCC in Figure 10b and Figure 10c, 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 0.503 to 0.595 degrees. Since the relative vertical field is greater than 90% of the maximum at these depression angles, the maximum power was used in determining the distance to the DTV contour.

Table I includes the distances to the 48 and 41 dBu F(50,90) STA coverage contours, the average elevation 3.2 to 16.1 km, and the antenna height above average terrain for each of the 45 degree spaced radials. Exhibit E-3 provides the proposed 48 and 41 dBu F(50,90) STA coverage contours and demonstrates that the community of license is covered by the F(50,90) 48 dBu contour. Exhibit E-4 illustrates the predicted 41 dBu STA contour in relation to that authorized by the 1000 kW construction permit.

Total Radiofrequency Field Levels at WMYO-DT Tower Site

The total percentage of radiofrequency field levels ("RFF") can be calculated by combining the percentage contribution of each station.

| <u>Station</u> | <u>ERP</u> (kW) | <u>Frequency</u> (MHz) | <u>Ch</u> | <u>RCAGL</u> (m) | <u>Relative Field</u> | <u>S</u> ($\mu\text{W}/\text{cm}^2$) | <u>RFF</u> (%) |
|----------------|--------------------|---------------------------|-----------|---------------------|-----------------------|---|-------------------|
| WMYO-DT STA | 776 | 695 | 51 | 296 | 0.15 | 6.7 | 1.4 |
| WDRB-DT STA | 875 | 683 | 49 | 296 | 0.15 | 7.6 | 1.7 |

For STA DTV operation, WMYO-DT will transmit from a Dielectric, Type TFU-32GTH-R O6. The elevation pattern for this antenna shows a maximum relative field of less than 0.15 10° downward towards the ground 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 $6.7 \mu\text{W}/\text{cm}^2$. This is less than 2.0% of the $463.3 \mu\text{W}/\text{cm}^2$ maximum human exposure to RFF recommended by the current FCC guidelines for the uncontrolled/general population.

The total contribution by the proposed WMYO-DT broadcast facilities and the addition of the proposed operation of WDRB-DT at 2 meters above ground level is less than 3.5% of the current FCC guidelines for uncontrolled/general population exposure.

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 permittee 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 located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has 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.

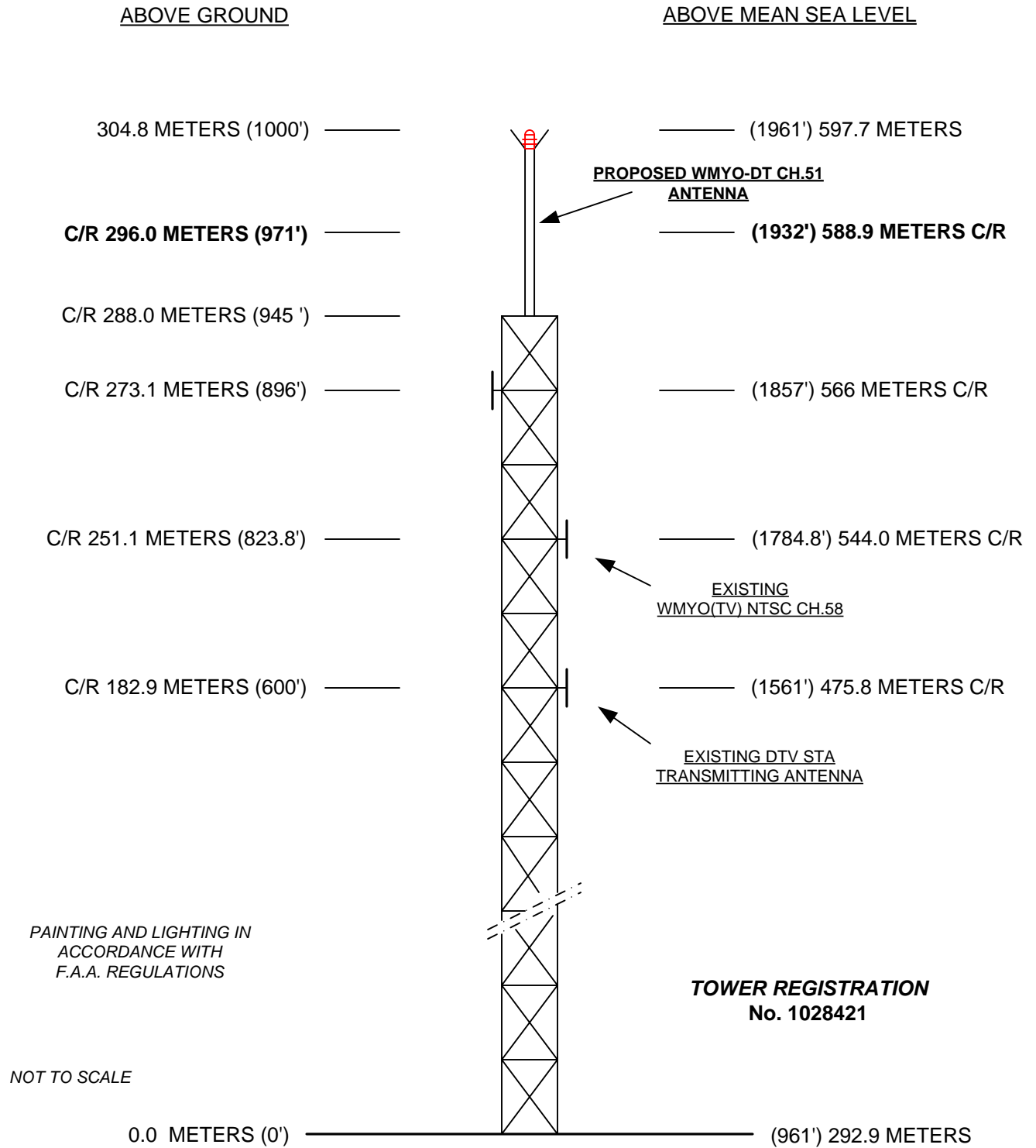


EXHIBIT E - 1
TOWER SKETCH
EXISTING TOWER
WMYO-DT, SALEM, INDIANA
AUGUST 2009

Cohen, Dippell and Everist, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

WMYO-DT, SALEM, INDIANA



Proposal #: **C-02697**
 Call Letters: **WDRB**

Antenna Type: **TFU-32GTH-R O6 TC**
 Location: **Louisville, KY**

Channel: **49 DTV**
51 DTV

| Electrical Specifications | | Value | | Remarks | |
|---|-----------|------------------|--------------|-------------------------------------|----------------------|
| | | Ratio | dBd | | |
| RMS Gain at Main Lobe over Halfwave Dipole | Hpol | 26.0 | 14.15 | D49; | D51: 26.0 (14.15 dB) |
| | Vpol | | | | |
| RMS Gain at Horizontal over Halfwave Dipole | Hpol | 14.5 | 11.61 | D49; | D51: 14.5 (11.61 dB) |
| | Vpol | | | | |
| Peak Directional Gain over Halfwave Dipole | Hpol | | | | |
| | Vpol | | | | |
| Peak Directional Gain at Horizontal over Halfwave Dipole | Hpol | | | | |
| | Vpol | | | | |
| Circularity | | +/- 1.5 dB | | | |
| Axial Ratio | | dB | | | |
| Beam Tilt | | 0.90 deg | | D49; | D51: 0.90 deg |
| Average Power | | 40 kW | 16.02 dBk | +40 kW average DTV power | |
| Antenna Input: T/L | | 8 3/16 in | 75.0 ohm | Type: EIA/DCA | |
| Maximum Antenna Input VSWR | | | | Notes: | |
| | | Channel 1.20 : 1 | | 5 psi dry air or Nitrogen required. | |
| | | | | D51: Channel: 1.20 : 1 | |
| Patterns | Azimuth | TFU-O6 | | D49 D51 | |
| | Elevation | 32G260090 | 32G260090-90 | | |
| | | 32G260090 | 32G260090-90 | | |
| Mechanical Specifications | | Metric | English | | Preliminary |
| Height with Lightning Protector | H4 | 16.1 m | 52.8 ft | | |
| Height Less Lightning Protector | H2 | 14.9 m | 48.8 ft | TIA/EIA-222-F. | |
| Height of Center of Radiation | H3 | 7.0 m | 24.4 ft | | |
| Basic Wind Speed | V | 112.7 km/h | 70 mi/h | | |
| | | | | | |
| Force Coeff. x Projected Area | CaAc | 5.1 m² | 55.2 ft² | Above base flange | |
| Moment Arm | D1 | 8.0 m | 26.2 ft | Above base flange | |
| Force Coeff. x Projected Area | CaAc | m² | ft² | | |
| Moment Arm | D3 | m | ft | | |
| Pole Bury Length | D2 | m | ft | | |
| Weight | W | 2.9 t | 6,500 lbs | | |
| Radome | | | | | |
| Antenna designed in accordance with AISC specifications for design of structural steel for building as prescribed by TIA/EIA-222-F. | | | | | |

NOTE:

Prepared By : **SWB**
 Original Date : **12-Jun-08**

Approved By : **JLS**

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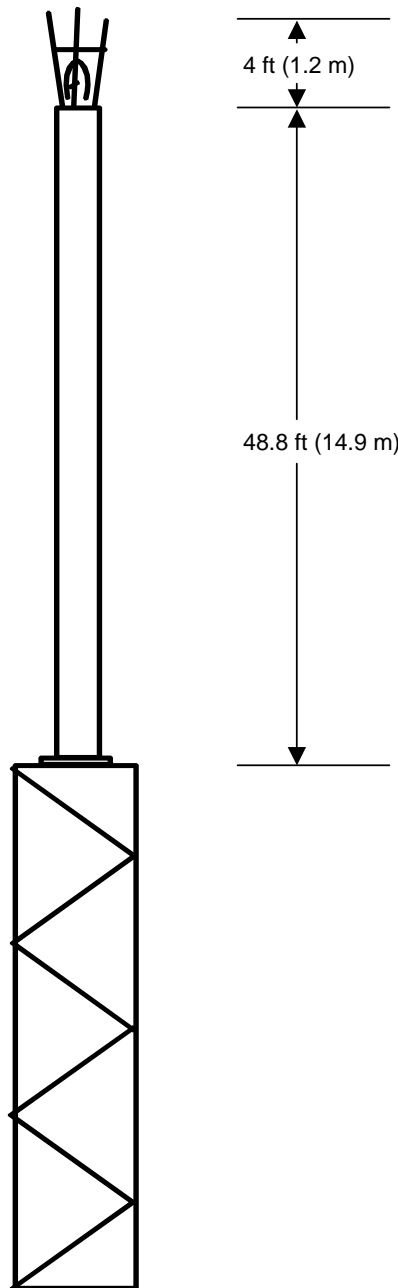


Proposal #: **C-02697**
Call Letters: **WDRB**

Antenna Type:
Location:

TFU-32GTH-R O6 TC
Louisville, KY

Channel: **49 DTV**
51 DTV



Mechanical Specifications

TIA/EIA-222-F. @ 70 mi/h (112.7 km/h)

CaAc = 55.2 ft²(5.1 m²)

D1 = 26.2 ft(7.99 m)

W = 6500 lbs(2.9 t)

TFU-32GTH-R O6 TC
Channel: D49 D51

SWB=080625-4

Not to Scale

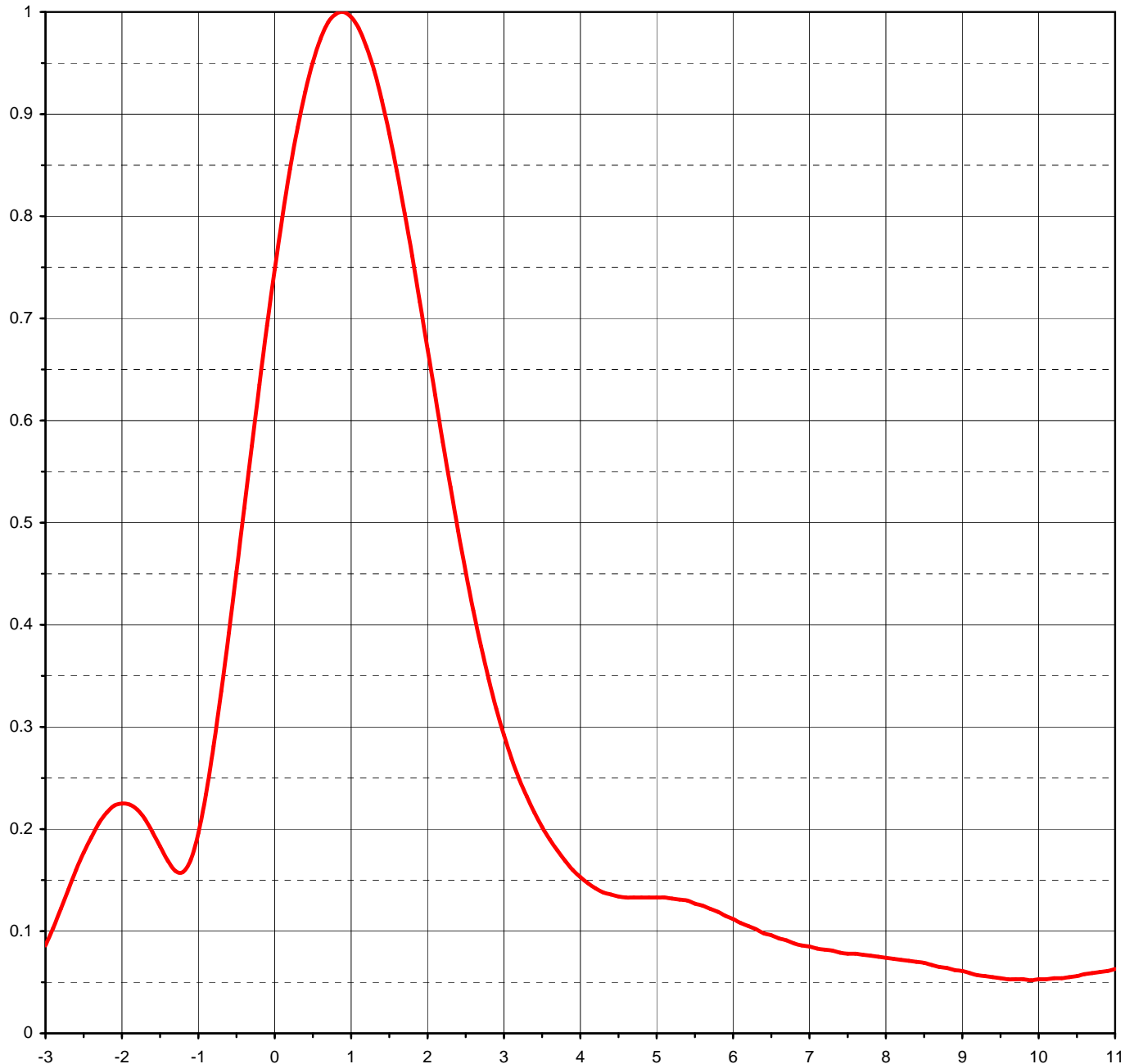
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| | | | |
|-----------------|--------------------------|---------|-----------|
| Proposal Number | C-02697 | | |
| Date | 12-Jun-08 | | |
| Call Letters | WMYO-DT | Channel | 51 |
| Location | Louisville, KY | | |
| Customer | | | |
| Antenna Type | TFU-32GTH-R O6 TC | | |

ELEVATION PATTERN

| | | | |
|------------------------|---------------------------|-----------|-------------------|
| RMS Gain at Main Lobe | 26.00 (14.15 dB) | Beam Tilt | 0.90 deg |
| RMS Gain at Horizontal | 14.50 (11.61 dB) | Frequency | 695.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 32G260090 |



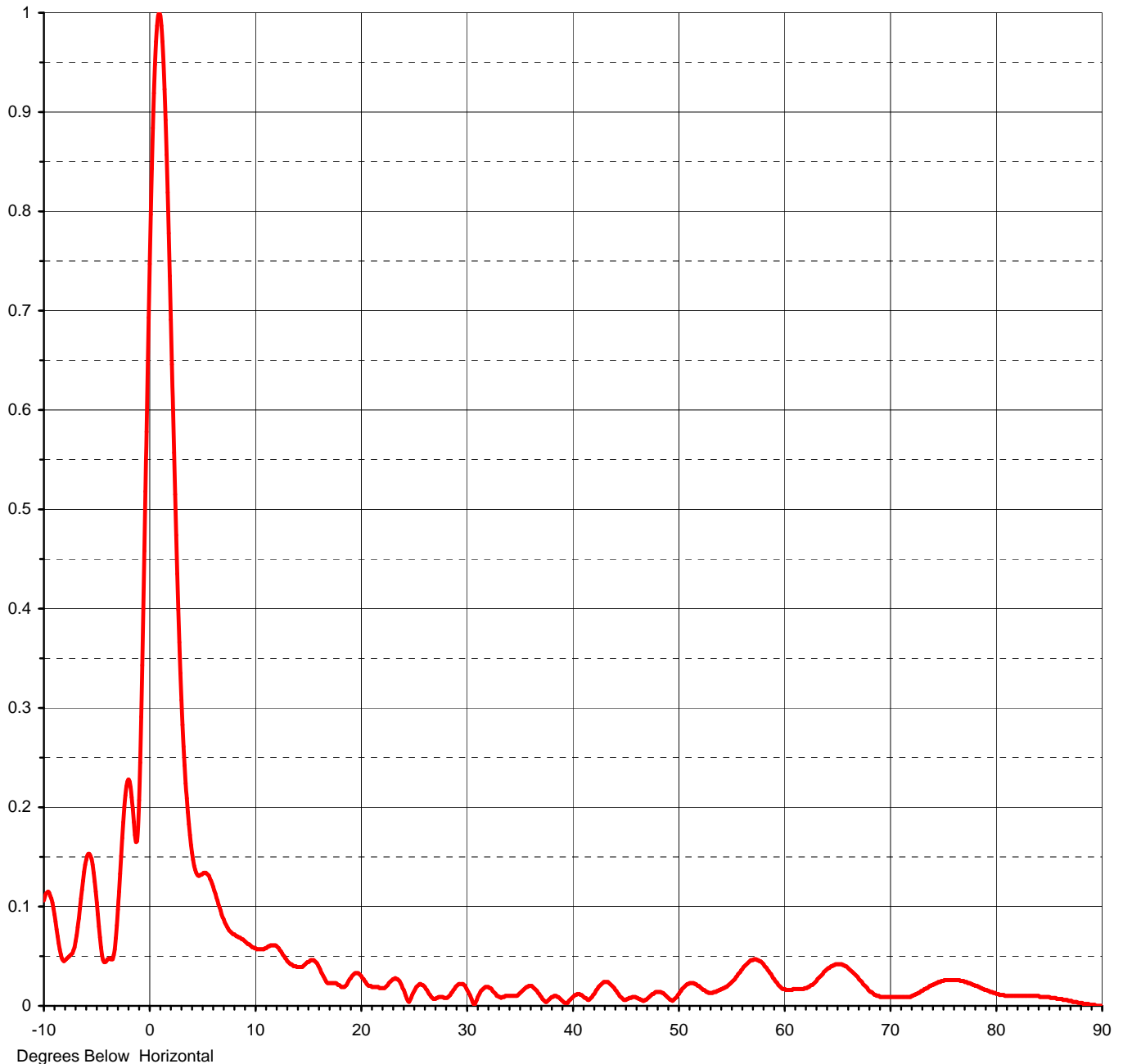
Degrees Below Horizontal



| | | | |
|-----------------|--------------------------|---------|-----------|
| Proposal Number | C-02697 | | |
| Date | 12-Jun-08 | | |
| Call Letters | WMYO-DT | Channel | 51 |
| Location | Louisville, KY | | |
| Customer | | | |
| Antenna Type | TFU-32GTH-R O6 TC | | |

ELEVATION PATTERN

| | | | |
|------------------------|---------------------------|-----------|---------------------|
| RMS Gain at Main Lobe | 26.00 (14.15 dB) | Beam Tilt | 0.90 deg |
| RMS Gain at Horizontal | 14.50 (11.61 dB) | Frequency | 695.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 32G260090-90 |





Proposal Number **C-02697**
Date **12-Jun-08**
Call Letters **WMYO-DT** Channel **51**
Location **Louisville, KY**
Customer
Antenna Type **TFU-32GTH-R O6 TC**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **32G260090-90**

| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.096 | 2.4 | 0.492 | 10.6 | 0.056 | 30.5 | 0.009 | 51.0 | 0.020 | 71.5 | 0.033 |
| -9.5 | 0.115 | 2.6 | 0.414 | 10.8 | 0.059 | 31.0 | 0.019 | 51.5 | 0.016 | 72.0 | 0.035 |
| -9.0 | 0.103 | 2.8 | 0.347 | 11.0 | 0.061 | 31.5 | 0.020 | 52.0 | 0.015 | 72.5 | 0.036 |
| -8.5 | 0.069 | 3.0 | 0.292 | 11.5 | 0.065 | 32.0 | 0.015 | 52.5 | 0.016 | 73.0 | 0.036 |
| -8.0 | 0.047 | 3.2 | 0.249 | 12.0 | 0.062 | 32.5 | 0.008 | 53.0 | 0.017 | 73.5 | 0.034 |
| -7.5 | 0.047 | 3.4 | 0.216 | 12.5 | 0.051 | 33.0 | 0.006 | 53.5 | 0.020 | 74.0 | 0.031 |
| -7.0 | 0.054 | 3.6 | 0.190 | 13.0 | 0.040 | 33.5 | 0.006 | 54.0 | 0.027 | 74.5 | 0.027 |
| -6.5 | 0.094 | 3.8 | 0.169 | 13.5 | 0.035 | 34.0 | 0.007 | 54.5 | 0.036 | 75.0 | 0.023 |
| -6.0 | 0.141 | 4.0 | 0.153 | 14.0 | 0.036 | 34.5 | 0.013 | 55.0 | 0.043 | 75.5 | 0.020 |
| -5.5 | 0.152 | 4.2 | 0.142 | 14.5 | 0.042 | 35.0 | 0.020 | 55.5 | 0.049 | 76.0 | 0.019 |
| -5.0 | 0.115 | 4.4 | 0.136 | 15.0 | 0.049 | 35.5 | 0.021 | 56.0 | 0.049 | 76.5 | 0.019 |
| -4.5 | 0.059 | 4.6 | 0.133 | 15.5 | 0.047 | 36.0 | 0.016 | 56.5 | 0.046 | 77.0 | 0.022 |
| -4.0 | 0.045 | 4.8 | 0.133 | 16.0 | 0.036 | 36.5 | 0.008 | 57.0 | 0.038 | 77.5 | 0.025 |
| -3.5 | 0.042 | 5.0 | 0.133 | 16.5 | 0.022 | 37.0 | 0.005 | 57.5 | 0.030 | 78.0 | 0.029 |
| -3.0 | 0.086 | 5.2 | 0.132 | 17.0 | 0.016 | 37.5 | 0.008 | 58.0 | 0.022 | 78.5 | 0.032 |
| -2.8 | 0.122 | 5.4 | 0.130 | 17.5 | 0.016 | 38.0 | 0.007 | 58.5 | 0.018 | 79.0 | 0.035 |
| -2.6 | 0.160 | 5.6 | 0.125 | 18.0 | 0.016 | 38.5 | 0.001 | 59.0 | 0.018 | 79.5 | 0.037 |
| -2.4 | 0.192 | 5.8 | 0.119 | 18.5 | 0.026 | 39.0 | 0.006 | 59.5 | 0.017 | 80.0 | 0.038 |
| -2.2 | 0.216 | 6.0 | 0.112 | 19.0 | 0.035 | 39.5 | 0.011 | 60.0 | 0.017 | 80.5 | 0.039 |
| -2.0 | 0.225 | 6.2 | 0.105 | 19.5 | 0.035 | 40.0 | 0.010 | 60.5 | 0.019 | 81.0 | 0.039 |
| -1.8 | 0.219 | 6.4 | 0.098 | 20.0 | 0.027 | 40.5 | 0.004 | 61.0 | 0.024 | 81.5 | 0.038 |
| -1.6 | 0.197 | 6.6 | 0.093 | 20.5 | 0.017 | 41.0 | 0.008 | 61.5 | 0.031 | 82.0 | 0.037 |
| -1.4 | 0.169 | 6.8 | 0.088 | 21.0 | 0.013 | 41.5 | 0.018 | 62.0 | 0.038 | 82.5 | 0.035 |
| -1.2 | 0.158 | 7.0 | 0.085 | 21.5 | 0.013 | 42.0 | 0.024 | 62.5 | 0.044 | 83.0 | 0.033 |
| -1.0 | 0.196 | 7.2 | 0.082 | 22.0 | 0.019 | 42.5 | 0.025 | 63.0 | 0.047 | 83.5 | 0.031 |
| -0.8 | 0.281 | 7.4 | 0.079 | 22.5 | 0.027 | 43.0 | 0.020 | 63.5 | 0.046 | 84.0 | 0.028 |
| -0.6 | 0.392 | 7.6 | 0.078 | 23.0 | 0.030 | 43.5 | 0.012 | 64.0 | 0.043 | 84.5 | 0.025 |
| -0.4 | 0.514 | 7.8 | 0.076 | 23.5 | 0.022 | 44.0 | 0.006 | 64.5 | 0.036 | 85.0 | 0.023 |
| -0.2 | 0.635 | 8.0 | 0.074 | 24.0 | 0.007 | 44.5 | 0.007 | 65.0 | 0.028 | 85.5 | 0.020 |
| 0.0 | 0.748 | 8.2 | 0.072 | 24.5 | 0.011 | 45.0 | 0.006 | 65.5 | 0.021 | 86.0 | 0.017 |
| 0.2 | 0.846 | 8.4 | 0.070 | 25.0 | 0.021 | 45.5 | 0.003 | 66.0 | 0.015 | 86.5 | 0.014 |
| 0.4 | 0.922 | 8.6 | 0.067 | 25.5 | 0.020 | 46.0 | 0.006 | 66.5 | 0.011 | 87.0 | 0.011 |
| 0.6 | 0.974 | 8.8 | 0.064 | 26.0 | 0.012 | 46.5 | 0.012 | 67.0 | 0.011 | 87.5 | 0.009 |
| 0.8 | 0.998 | 9.0 | 0.061 | 26.5 | 0.005 | 47.0 | 0.015 | 67.5 | 0.011 | 88.0 | 0.006 |
| 1.0 | 0.995 | 9.2 | 0.057 | 27.0 | 0.005 | 47.5 | 0.013 | 68.0 | 0.010 | 88.5 | 0.004 |
| 1.2 | 0.966 | 9.4 | 0.055 | 27.5 | 0.005 | 48.0 | 0.007 | 68.5 | 0.009 | 89.0 | 0.002 |
| 1.4 | 0.914 | 9.6 | 0.053 | 28.0 | 0.011 | 48.5 | 0.004 | 69.0 | 0.010 | 89.5 | 0.001 |
| 1.6 | 0.844 | 9.8 | 0.053 | 28.5 | 0.020 | 49.0 | 0.013 | 69.5 | 0.014 | 90.0 | 0.000 |
| 1.8 | 0.761 | 10.0 | 0.052 | 29.0 | 0.023 | 49.5 | 0.020 | 70.0 | 0.018 | | |
| 2.0 | 0.670 | 10.2 | 0.053 | 29.5 | 0.017 | 50.0 | 0.024 | 70.5 | 0.024 | | |
| 2.2 | 0.579 | 10.4 | 0.054 | 30.0 | 0.005 | 50.5 | 0.023 | 71.0 | 0.029 | | |

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COHEN, DIPPELL AND EVERIST, P.C.

TABLE I
COMPUTED COVERAGE DATA
FOR THE PROPOSED DTV OPERATION OF
WMYO-DT, SALEM, INDIANA
CHANNEL 51 776 KW 390.4 METERS HAAT
AUGUST 2009

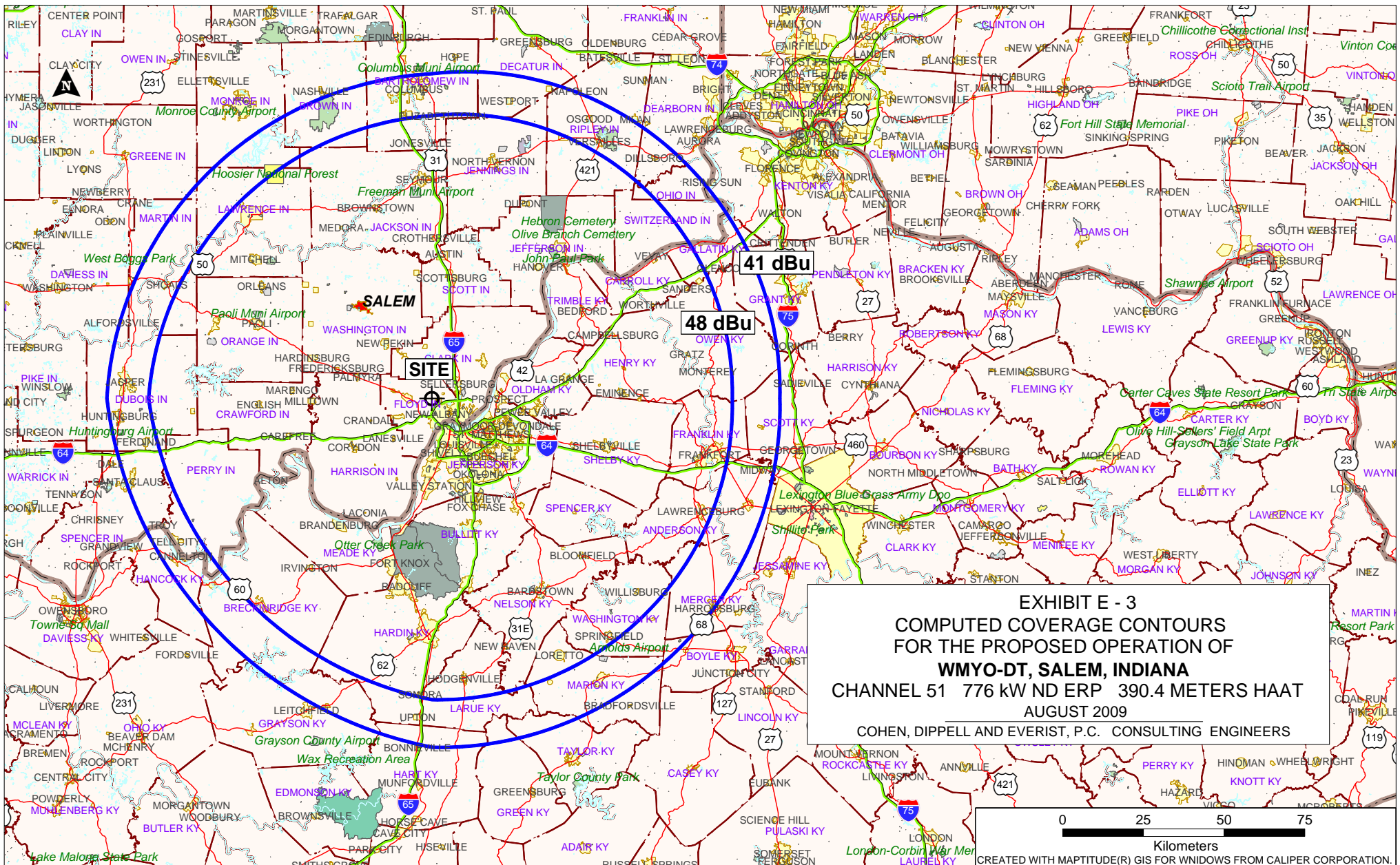
| Radial Bearing N ° E, T | Average* Elevation 3.2 to 16.1 km meters | Effective Height meters | Depression Angle | ERP At Radio Horizon kW | Distance to Contour F(50,90) | |
|-------------------------------|---|-------------------------------|---------------------|----------------------------------|------------------------------|-------------------------------|
| | | | | | 48 dBu City Grade km | 41 dBu Noise-Limited km |
| 0 | 231.8 | 357.1 | 0.523 | 776 | 87.3 | 100.2 |
| 45 | 153.2 | 435.7 | 0.578 | 776 | 92.3 | 106.7 |
| 90 | 142.2 | 446.7 | 0.585 | 776 | 92.9 | 107.7 |
| 135 | 129.7 | 459.2 | 0.594 | 776 | 93.8 | 108.7 |
| 180 | 140.6 | 448.3 | 0.586 | 776 | 93.1 | 107.8 |
| 225 | 260.5 | 328.4 | 0.502 | 776 | 84.4 | 97.6 |
| 270 | 226.3 | 362.6 | 0.527 | 776 | 87.8 | 100.7 |
| 315 | 254.7 | 334.2 | 0.506 | 776 | 85.0 | 98.2 |
| Average | 192.4 | | | | | |

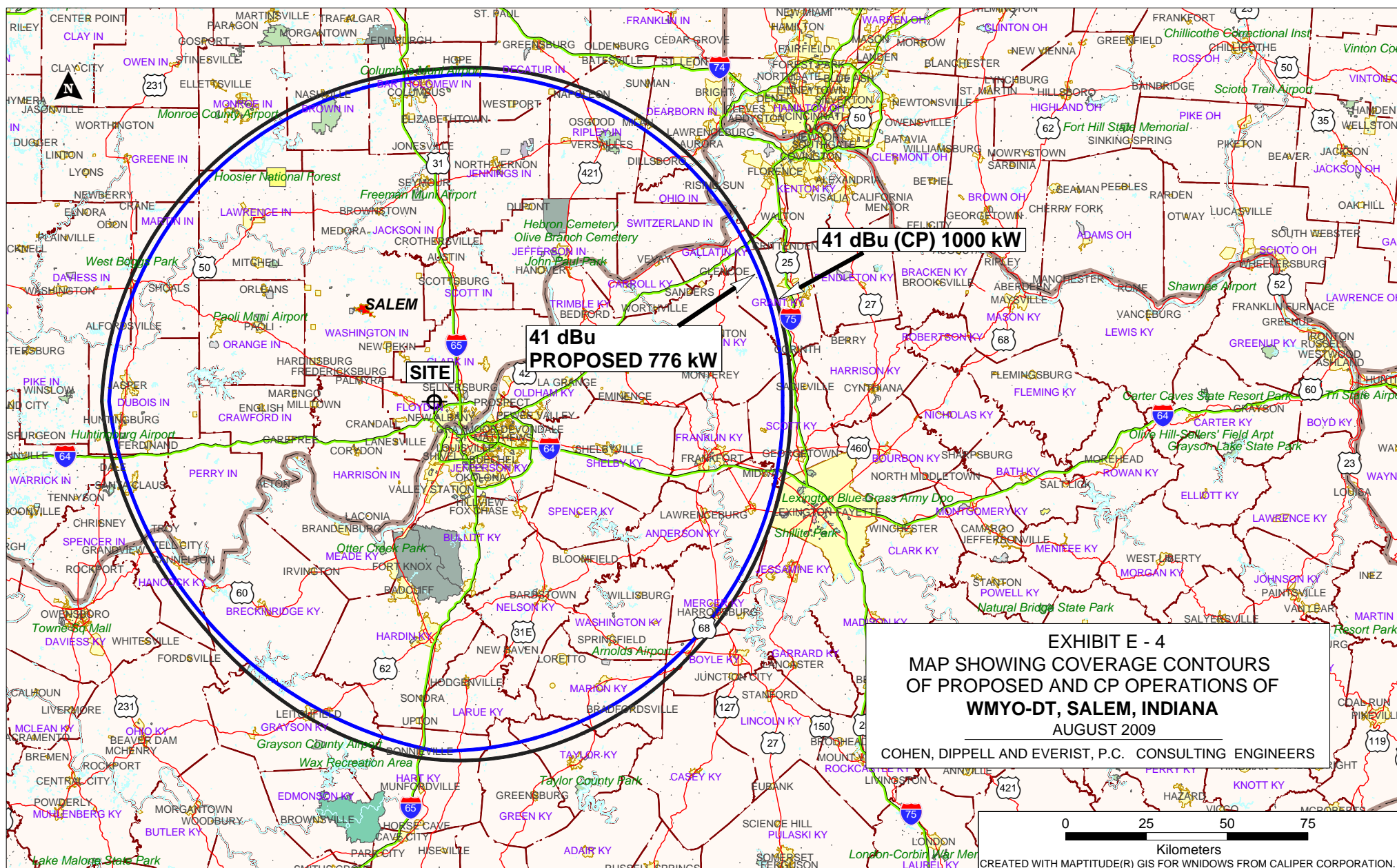
*Based on data from FCC 3-second data base

DTV Channel 51 (692-698 MHz)
Average Elevation 3.2 to 16.1 km 192.4 meters AMSL
Center of Radiation 588.9 meters AMSL
Antenna Height Above Average Terrain 390.4 meters
Effective Radiated Power 776 kW (28.9 dBk) Max.

North Latitude: 38° 21' 00"
West Longitude: 85° 50' 57"

(NAD-27)





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.

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 I'M 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 Donald G. Everist | | Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer | |
| Signature  | | Date August 21, 2009 | |
| Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, N.W., Suite 1100 | | | |
| City Washington | State or Country (if foreign address) DC | ZIP Code 20005 | |
| Telephone Number (include area code) (202) 898-0111 | | E-Mail Address (if available) cde@attglobal.net | |

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