

ENGINEERING STATEMENT  
APPLICATION FOR  
LPTV DIGITAL COMPANION CHANNEL  
CONSTRUCTION PERMIT  
K20EK-D, KINGSVILLE-ALICE, TEXAS  
CHANNEL 31 15 KW DA ERP 115 METERS RC/AMSL

NOVEMBER 2008

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         )

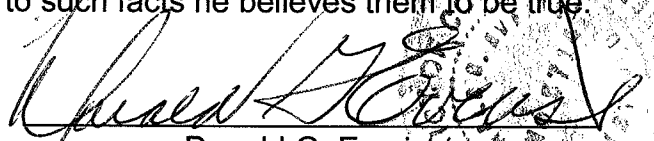
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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 25<sup>th</sup> day of November, 2008.



Notary Public

My Commission Expires: 2/28/2013

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington                    )  
  ) ss  
District of Columbia                )

Martin R. Doczkat being duly sworn upon his oath, deposes and states that:

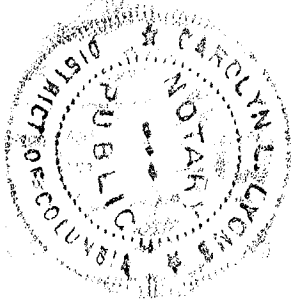
He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

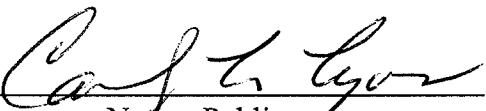
That the attached engineering report was prepared by him or under his supervision and direction and

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.

  
Martin R. Doczkat

Subscribed and sworn to before me this 25<sup>th</sup> day of November, 2008.



  
Notary Public

My Commission Expires: 2/28/2013

## INTRODUCTION

This engineering statement has been prepared on behalf of KVOA Communications, Inc. (“KVOA”), licensee of low-power television station K20EK, Kingsville-Alice, Texas (Facility ID 51374). This statement supports the licensee’s request for a digital companion channel to be operated simultaneously with K20EK’s licensed Channel 20 analog operation.

KVOA filed an application (FCC File No. BSFDTL-20060630CLB) for a digital low-power television companion channel during the Auction 85 filing window and the Commission has identified this application as mutually exclusive (“MX”) in group number MX109 in the FCC Public Notice, dated October 17, 2006. This application is the winner of its MX group in Auction 85, and therefore, is now deemed a “singleton”. Thus, KVOA hereby requests digital low-power facilities on Channel 31 with an effective radiated power (“ERP”) of 15 kW (directional) at a radiation center above mean sea level (“RCAMSL”) of 115 meters. No changes are proposed in this engineering statement from the technical details submitted in the amended Auction 85 settlement window aside from the requested operation with a directional antenna. The sole purpose of this engineering statement is to supplement the long-form submission of FCC Form 346 to request digital companion Channel 48 facilities for K20EK. The proposed F(50,90) 51 dBu contour encompasses the F(50,50) 74 dBu contour of the currently licensed operation of K20EK.

Transmitter Site

The proposed digital low-power operation will utilize an existing tower located 15.5 km west of Route 70 in Bishop, Texas.

The geographic coordinates of the existing transmitter site are as follows:

North Latitude: 27° 40' 10"

West Longitude: 97° 54' 59"

NAD-27

Antenna Structure Registration Number: 1055958

Elevation Data

|   |                             |
|---|-----------------------------|
| Antenna Location Site Elevation<br>Above Mean Sea Level | 35.0 meters<br>(114.8 feet) |
| Overall Tower Height Above Ground<br>Level              | 97.5 meters<br>(319.9 feet) |
| Center of Radiation of Antenna Above<br>Ground Level    | 80 meters<br>(262.5 feet)   |
| Center of Radiation of Antenna Above<br>Mean Sea Level  | 115 meters<br>(377.3 feet)  |

Equipment Data

|                    |  |
|--------------------|--|
| Transmitter:       | Type-approved  |
| Emission Mask:     | Stringent  |
| Transmission Line: | Andrew, Type HJ7-50A (or equivalent), 1-5/8", 50 ohm, 86 meters (281 feet) with 71.7% efficiency       |
| Antenna:           | Andrew, Type ALP8L1-HSBR-01 with maximum gain of 13.96 dB and 0.25° electrical beam tilt or equivalent |

Power Data

|                                    |         |           |
|------------------------------------|---------|-----------|
| Transmitter:                       | 0.84 kW | -0.75 dBk |
| Transmission Line Efficiency/Loss: | 71.7%   | 1.45 dB   |
| Input to Antenna:                  | 0.60 kW | -2.20 dBk |
| Antenna Gain, Maximum:             | 24.89   | 13.96 dB  |
| ERP, Maximum:                      | 15 kW   | 11.76 dBk |

As indicated above, the transmitter with typical power output of 0.84 kW will deliver 0.60 kW to the input of the antenna. The antenna having a maximum power gain of 13.96 dB and an electrical beam tilt of 0.25°, will produce a maximum ERP of 15 kW. A coverage map providing the protected contour of the proposed digital facility relative to the currently licensed analog operation of K20EK has been included as Exhibit E-1 of this report.

Other Broadcast Facilities

A brief analysis was completed to determine the presence of broadcast stations in the vicinity of the proposed K20EK site using the November 25, 2008 data contained within the Commission's Consolidated Database System ("CDBS"). Within 1 km of the proposed site, there are no authorized FM radio stations, no full-service DTV and no full-service NTSC television stations, and two existing low-power television stations aside from the proposed digital companion channel operation. There are no AM facilities within 3.22 of the existing tower. Although no adverse technical effects are expected due to the proposed changes, the applicant will take measures to resolve any problems proven to be related to the changes proposed in this application.

### Interference Analysis

A study of predicted interference caused by the proposed Channel 31 K20EK low-power digital operation has been performed using the Longley-Rice program for which the source data has been posted by the Commission on its website at [http://www.fcc.gov/oet/dtv/dtv\\_apps.html](http://www.fcc.gov/oet/dtv/dtv_apps.html). The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run on a Microsoft Windows XP/Intel platform. Comparison of service/interference areas and population indicates this model closely matches the FCC's digital low-power TV/translator evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using 3-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 1990 census centroids, all studies are based upon data in the current CDBS database update of the FCC's engineering database. A Longley-Rice study was performed with the proposed Channel 31, K20EK low-power digital facilities and all relevant stations listed in the FCC data base as of November 25, 2008. The study results and the included stations are listed in Exhibit E-2.

### Radio Frequency Field Level

According to the FCC database, there are no FM stations, no full-service DTV stations, no full-service NTSC stations, and two low-power analog television stations authorized to operate within 1 km of the existing tower which K20EK proposes to locate its digital companion

operation. There are no AM stations within 3.22 km of the site. The broadcasting stations are as follows:

| <u>Call Sign</u> | <u>Channel</u> | <u>Status</u> |
|------------------|----------------|---------------|
| K20EK-D          | 31             | Proposed      |
| K38EB-D          | 48             | CP            |
| K20EK            | 20             | Lic           |
| K38EB            | 38             | Lic           |

#### K20EK-D Digital Companion Facility (Proposed)

|            |                   |                   |
|------------|-------------------|-------------------|
| Channel 31 | Freq:             | 572-578 MHz range |
|            | ERP =             | 15 kW             |
|            | Polarization =    | Horizontal        |
|            | RCAGL -2 meters = | 78 meters         |

K20EK-D proposes to use an Andrew, Type ALP8L1-HSBR-01 antenna with 0.25° electrical beam tilt. The manufacturer's vertical plane pattern for this antenna indicates that the field factor will be less than 0.27 at any angle greater than 15 degrees below the horizon. A value of 0.27 will be used in the calculation.

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2}$$

Tot ERP = 15,000 watts (Horizontal Only)  
R = 78 meters  
F = 0.27 (field factor)

$$S = 6.0 \mu\text{W}/\text{cm}^2 \quad S = 0.006 \text{ mW}/\text{cm}^2$$

K20EK-D contributes less than 0.006 mW/cm<sup>2</sup> at 2 meters above ground. The limit for an uncontrolled environment is f/1500 for a station broadcasting in the 674-680 MHz range range.

$$(575 \text{ MHz})/1500 = 0.383 \text{ mW}/\text{cm}^2 \text{ is the RFF limit for K20EK-D.}$$

Therefore:

The proposed K20EK-D digital companion facility contributes less than 1.6% RFF for an uncontrolled environment two meters above ground in the vicinity of the tower site.



K38EB-D Digital Companion Facility (Construction Permit)

|            |                   |                   |
|------------|-------------------|-------------------|
| Channel 48 | Freq:             | 674-680 MHz range |
|            | ERP =             | 15 kW             |
|            | Polarization =    | Horizontal        |
|            | RCAGL -2 meters = | 78 meters         |

K38EB-D proposes to use an Andrew, Type ALP8L1-HSBR antenna with 0.25° electrical beam tilt. The manufacturer's vertical plane pattern for this antenna indicates that the field factor will be less than 0.27 at any angle greater than 15 degrees below the horizon. A value of 0.27 will be used in the calculation.

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2}$$

Tot ERP = 15,000 watts (Horizontal Only)  
R = 78 meters  
F = 0.27 (field factor)

$$S = 6.0 \mu\text{W}/\text{cm}^2 \quad S = 0.006 \text{ mW}/\text{cm}^2$$

K38EB-D contributes less than 0.006 mW/cm<sup>2</sup> at 2 meters above ground. The limit for an uncontrolled environment is f/1500 for a station broadcasting in the 674-680 MHz range range.

$$(677 \text{ MHz})/1500 = 0.451 \text{ mW}/\text{cm}^2 \text{ is the RFF limit for K38EB-D.}$$

Therefore:

The proposed K38EB-D digital companion facility contributes less than 1.4% RFF for an uncontrolled environment two meters above ground in the vicinity of the tower site.

K20EK Analog Class A Television Facility

|            |                   |  |
|------------|-------------------|--|
| Channel 20 | Freq:             | 506-512 MHz range                              |
|            | ERP =             | 9.35 kW = 0.4 [18.7 kW Visual] + 1.87 kW Aural |
|            | Polarization =    | Horizontal                                     |
|            | RCAGL -2 meters = | 78 meters                                      |

K20EK uses an Andrew, Type ALP8L1-HSBR antenna with 0.25° electrical beam tilt. The manufacturer's vertical plane pattern for this antenna indicates that the field factor will be less than 0.27 at any angle greater than 15 degrees below the horizon. A value of 0.27 will be used in the calculation.

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2}$$

Tot ERP = 9,350 watts (Horizontal Only)  
R = 78 meters  
F = 0.27 (field factor)

$$S = 3.8 \mu\text{W}/\text{cm}^2 \quad S = 0.0038 \text{ mW}/\text{cm}^2$$

K20EK contributes less than 0.0038 mW/cm<sup>2</sup> at 2 meters above ground.  
The limit for an uncontrolled environment is f/1500 for a station broadcasting in the 506-512 MHz range.

$$(509 \text{ MHz})/1500 = 0.339 \text{ mW}/\text{cm}^2 \text{ is the RFF limit for K20EK.}$$

Therefore:

K20EK analog Class A facility contributes less than 1.1% RFF for an uncontrolled environment two meters above ground in the vicinity of the tower site.

#### K38EB Analog Low-Power Television Facility

|            |                   |   |
|------------|-------------------|---|
| Channel 38 | Freq:             | 614-620 MHz range                             |
|            | ERP =             | 8.8 kW = 0.4 [17.6 kW Visual] + 1.76 kW Aural |
|            | Polarization =    | Horizontal                                    |
|            | RCAGL -2 meters = | 78 meters                                     |

K38EB uses an Andrew, Type ALP8L1-HSBR antenna with 0.25° electrical beam tilt. The manufacturer's vertical plane pattern for this antenna indicates that the field factor less than 0.27 at any angle greater than 15 degrees below the horizon. A value of 0.27 will be used in the calculation.

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2}$$

Tot ERP = 8,800 watts (Horizontal Only)  
R = 78 meters  
F = 0.27 (field factor)

$$S = 3.5 \mu\text{W}/\text{cm}^2 \quad S = 0.0035 \text{ mW}/\text{cm}^2$$

K38EB contributes less than 0.0035 mW/cm<sup>2</sup> at 2 meters above ground.  
The limit for an uncontrolled environment is f/1500 for a station broadcasting in the 614-620 MHz range.

$$(617 \text{ MHz})/1500 = 0.411 \text{ mW}/\text{cm}^2 \text{ is the RFF limit for K38EB.}$$

Therefore:

K38EB analog LPTV facility contributes less than 0.9% RFF for an uncontrolled environment two meters above ground in the vicinity of the tower site.

Total RFF at Site

The total RFF contribution for all transmitters can now be calculated:

$$\text{Total RFF\%} = 1.6\% + 1.4\% + 1.1\% + 0.9\% = 5.0\%$$

The total contribution of all stations, 2 meters above the ground at the base of the tower, will be less than 5.0% of the current FCC maximum for general population exposure.

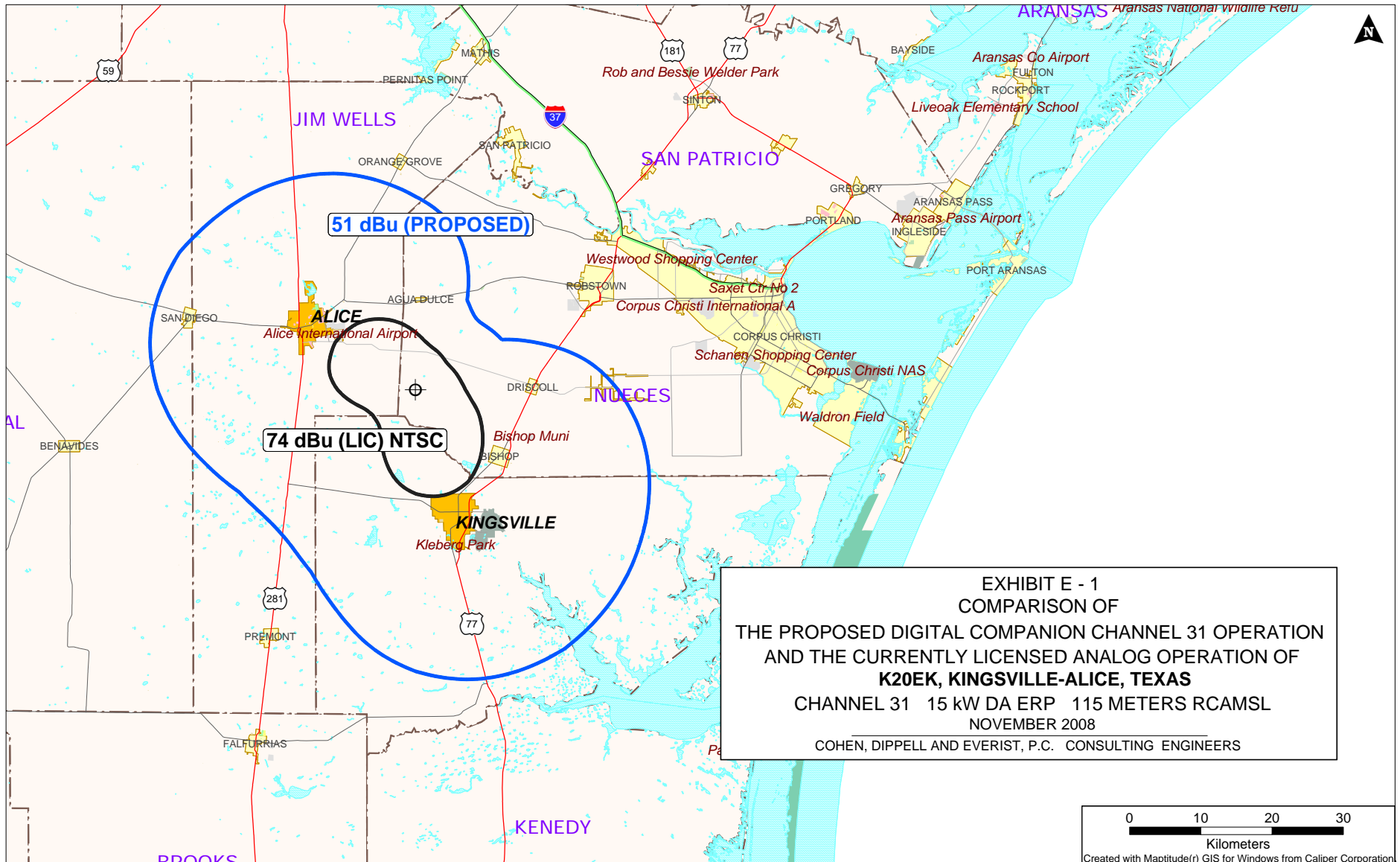
Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors 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.

Summary of 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 applicant indicates:

- (a)(1) The proposed facilities on an existing tower are not located in an officially designated wilderness area.
- (a)(2) The proposed facilities on an existing tower are not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities located on an existing tower will not affect any listed threatened or endangered species or habitats.

- (a)(3)(ii) The proposed facilities located on an existing tower 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 any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The proposed facilities located on an existing tower are not located near any known Indian religious sites.
- (a)(6) The proposed facilities are not located in a flood plain.
- (a)(7) There are no changes on an existing guyed tower, and therefore, are no significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) The existing tower lighting will remain unchanged.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines set forth in OET Bulletin No. 65, Edition 97-01, released August 1997 and Supplement A. Authorized personnel will be alerted to areas of the antennas where potential field levels are in excess of the FCC guidelines.



COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2  
DLPTV LONGLEY-RICE INTERFERENCE ANALYSIS  
FOR THE PROPOSED DIGITAL COMPANION CHANNEL OPERATION OF  
K20EK, KINGSVILLE-ALICE, TEXAS  
CHANNEL 31 15 KW DA ERP 115 METERS RCAMSL  
NOVEMBER 2008

| <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>   |
|----------------|-------------|-------------------|-----------------|---------------|---------------------|-----------------|
| 16             | K16DK       | ALEXANDRIA LA     | 669.1           | CP            | BPTTL-20071207ACH   | No interference |
| 16             | K16DK       | ALEXANDRIA LA     | 669.1           | LIC           | BLTTL-20001130AAF   | No interference |
| 16             | K16FH       | WINNFIELD LA      | 694.9           | LIC           | BLTTL-20050414ABX   | No interference |
| 16             | K16EB       | HOBBS NM          | 747.1           | LIC           | BLTTL-19990809JF    | No interference |
| 16             | KIVY-LP     | CROCKETT TX       | 469.2           | LIC           | BLTTL-19930201JK    | No interference |
| 17             | KNTS-LP     | NATCHITOCHES LA   | 627.4           | LIC           | BLTTL-19961112JI    | No interference |
| 17             | K17EQ       | WEST MONROE LA    | 773.4           | STA           | BMSTA-20010817AAQ   | No interference |
| 17             | K17FV       | WEST MONROE LA    | 773.4           | LIC           | BLTTL-20020508AAA   | No interference |
| 17             | NEW         | BEAUMONT TX       | 453.6           | CP            | BNPTTL-20000831AXR  | No interference |
| 17             | K63AY       | GARFIELD TX       | 295.2           | LIC           | BLTTL-20041214AEC   | No interference |
| 17             | K17GZ       | HARPER TX         | 323             | LIC           | BLTTL-20070507AEW   | No interference |
| 17             | K17BP       | PALESTINE TX      | 500.4           | LIC           | BLTT-19930301IC     | No interference |
| 17             | KNIC-LP     | SAN ANTONIO TX    | 203.4           | LIC           | BLTTL-19910311JJ    | No interference |
| 17             | K61FM       | UVALDE TX         | 251.7           | LIC           | BLTTL-20060331AIK   | No interference |
| 23             | K23DZ       | ALEXANDRIA LA     | 669.1           | CP            | BPTTL-20071207ACK   | No interference |
| 23             | K23DZ       | ALEXANDRIA LA     | 669.1           | LIC           | BLTTL-20001213AAZ   | No interference |
| 23             |             | JASPER TX         | 529.1           | APP           | BNPTTL-20000828AGT  | No interference |
| 23             | NEW         | JASPER TX         | 529.1           | APP           | BNPTTL-20000828AZI  | No interference |
| 23             | NEW         | JASPER TX         | 528.9           | APP           | BNPTTL-20000830BLW  | No interference |
| 23             | K23HF       | WOODVILLE TX      | 485             | LIC           | BLTTL-20080208AAA   | No interference |
| 24             | KCCX-LP     | CORPUS CHRISTI TX | 47.8            | LIC           | BLTTL-20070717ABA   | No interference |
| 27             | KWCE-LP     | ALEXANDRIA LA     | 669.1           | LIC           | BLTTL-20060714ACI   | No interference |
| 27             | K27FK       | NATCHITOCHES LA   | 627.4           | LIC           | BLTTL-19980204JD    | No interference |
| 27             | W59DK       | NATCHEZ MS        | 760.1           | LIC           | BLTT-20061024AFP    | No interference |
| 27             | K56GG       | HOBBS NM          | 756.8           | LIC           | BLTT-20020322ACH    | No interference |
| 27             | K27FL       | MONAHANS TX       | 668.4           | LIC           | BLTTL-19960311JB    | No interference |
| 28             |             | BROWNWOOD TX      | 462.4           | APP           | BNPTTL-20000828AGH  | No interference |
| 28             | KHPK-LP     | DE SOTO TX        | 554.3           | LIC           | BLTTL-20070829AAG   | No interference |
| 28             | KHPX-CA     | GEORGETOWN TX     | 326.8           | LIC           | BLTTA-20020408AAP   | No interference |
| 28             | KHMY-CA     | HOUSTON TX        | 315.9           | LIC           | BLTTA-20061214ABD   | No interference |

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| <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>   |
|----------------|-------------|---------------------|-----------------|---------------|---------------------|-----------------|
| 28             | K28FL       | MCALLEN TX          | 160.1           | LIC           | BLTTL-19990218JB    | No interference |
| 28             |             | SAN ANGELO TX       | 490.1           | APP           | BNPTTL-20000807AAZ  | No interference |
| 28             | NEW         | SAN ANGELO TX       | 490.9           | APP           | BNPTTL-20000830BBY  | No interference |
| 28             | NEW         | SAN ANGELO TX       | 489.9           | APP           | BNPTTL-20000831BGC  | No interference |
| 28             | NEW         | SAN ANGELO TX       | 502.9           | APP           | BNPTTL-20000831AXX  | No interference |
| 28             | NEW         | SAN ANGELO TX       | 485             | APP           | BNPTTL-20000829AXP  | No interference |
| 28             | KSAA-LP     | SAN ANTONIO TX      | 205.2           | LIC           | BLTTL-20020122AAM   | No interference |
| 29             | K57GK       | ALEXANDRIA LA       | 669.1           | CP            | BDISTTL-20071207ACC | No interference |
| 29             | K29EI       | ELK CITY, ETC. OK   | 864             | LIC           | BLTT-20031211ABL    | No interference |
| 29             | K29FR       | QUANAH TX           | 747.5           | LIC           | BLTT-20051129AEF    | No interference |
| 29             | K29BH       | WELLINGTON, ETC. TX | 818.3           | LIC           | BLTT-19880623ID     | No interference |
| 30             | WLFT-CA     | BATON ROUGE LA      | 731.6           | LIC           | BLTTA-20070813AFZ   | No interference |
| 30             | K30EG       | BEEVILLE-REFUGIO TX | 93.5            | LIC           | BLTTL-19931101IJ    | No interference |
| 30             | NEW         | CORPUS CHRISTI TX   | 52.9            | CP            | BNPTTL-20000831ELH  | No interference |
| 30             | K30FF       | LA FERIA TX         | 170.1           | LIC           | BLTTL-19980421JB    | No interference |
| 30             | NEW         | LAREDO TX           | 158.1           | APP           | BNPTTL-20000831EIP  | No interference |
| 30             | KABB-DT     | SAN ANTONIO TX      | 183.5           | APP           | BMPCDT-20080620AKE  | No interference |
| 30             | KABB-DT     | SAN ANTONIO TX      | 183.5           | CP            | BPCDT-19991028AAR   | No interference |
| 30             | KCPV-LP     | VICTORIA TX         | 157.1           | LIC           | BLTTL-20070619AAE   | No interference |
| 31             | K30CE       | AUSTIN TX           | 295.2           | LIC           | BLTTL-20010403AAM   | No interference |
| 31             | K59IK       | CORPUS CHRISTI TX   | 47.8            | CP            | BDISTTL-20080417AAT | No interference |
| 31             | NEW         | CORPUS CHRISTI TX   | 47.8            | APP           | BDCCDTL-20061002BPV | 1.22%           |
| 31             | KHPG-CA     | GIDDINGS TX         | 295.1           | LIC           | BLTTA-20020913AAQ   | No interference |
| 31             | KGBT-DT     | HARLINGEN TX        | 169.3           | LIC           | BLCDDT-20030619ABF  | No interference |
| 31             | KPLE-LP     | KILLEEN TX          | 379.5           | LIC           | BLTTL-19930713IH    | No interference |
| 31             | K31EX       | SAN ANTONIO TX      | 205.3           | LIC           | BLTTL-19980102JB    | No interference |
| 31             | KVDF-CA     | SAN ANTONIO TX      | 205.2           | APP           | BPTTA-20080804ACG   | No interference |
| 31             | K31EY       | VICTORIA TX         | 152.3           | LIC           | BLTTL-19980616JF    | No interference |
| 32             | K47DF       | CORPUS CHRISTI TX   | 52.2            | APP           | BMJPTTA-20030326AHE | No interference |
| 32             | K47DF       | CORPUS CHRISTI TX   | 52.2            | CP            | BPTTL-JG0601XY      | No interference |

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| <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>   |
|----------------|-------------|----------------------|-----------------|---------------|---------------------|-----------------|
| 32             | K38EB       | KINGSVILLE/ALICE TX  | 0               | APP           | BDISTTL-20071220AAU | 0.03%           |
| 32             | K32ER       | MCALLEN TX           | 160.1           | LIC           | BLTTL-19980622JE    | No interference |
| 32             | KTFV-CA     | MCALLEN TX           | 159             | APP           | BPTTA-20070103AAU   | No interference |
| 33             | KCCG-LP     | CORPUS CHRISTI TX    | 53.1            | LIC           | BLTTL-20071022BWT   | No interference |
| 33             | NEW         | KINGSVILLE TX        | 17.4            | APP           | BNPTTL-20000802AEU  | No interference |
| 34             | KAEU-LP     | ALICE TX             | 35.4            | LIC           | BLTTL-20080801AOL   | No interference |
| 34             | KYDF-LP     | CORPUS CHRISTI TX    | 53.6            | LIC           | BLTTL-20071003AAH   | No interference |
| 34             | GU0308S     | C RIO GRANDE CITY TX | 168.5           | APP           | BPTTL-GU0308SC      | No interference |
| 34             | KNIC-CA     | SAN ANTONIO TX       | 203.4           | CP            | BDISTTA-20070615ADF | No interference |
| 35             | NEW         | GEORGE WEST TX       | 76.6            | CP            | BNPTTL-20000831BZM  | No interference |
| 38             | NEW         | CORPUS CHRISTI TX    | 52.3            | APP           | BNPTTL-20000830AJH  | No interference |
| 38             | K38EB       | KINGSVILLE-ALICE TX  | 0               | LIC           | BLTTL-19931013IC    | No interference |
| 39             | KBDF-LP     | BROWNSVILLE TX       | 176.9           | APP           | BDISTTL-20060214ACP | No interference |
| 39             | NEW         | CORPUS CHRISTI TX    | 34.6            | APP           | BNPTTL-20000831BEB  | No interference |



### Section III - Engineering (Digital)

#### 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: \_\_\_\_\_
2. Translator Input Channel No. \_\_\_\_\_
3. Station proposed to be rebroadcast:

| Call Sign | City | State | Channel |
|-----------|------|-------|---------|
|-----------|------|-------|---------|

4. Antenna Location Coordinates: (NAD 27)

\_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ N ☐ S Latitude  
\_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " ☐ E ☐ W Longitude

5. Antenna Structure Registration Number: \_\_\_\_\_

☐ Not applicable ☐ See Explanation in Exhibit No. ☐ FAA Notification Filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: \_\_\_\_\_ meters
7. Overall Tower Height Above Ground Level: \_\_\_\_\_ meters
8. Height of Radiation Center Above Ground Level: \_\_\_\_\_ meters
9. Maximum Effective Radiated Power (ERP): \_\_\_\_\_ kW
10. Transmitter Output Power: \_\_\_\_\_ kW

11. a. Transmitting Antenna: ☐ Nondirectional ☐ Directional ☐ Directional composite

| Manufacturer | Model |
|--------------|-------|
|--------------|-------|

- b. Electrical Beam Tilt: \_\_\_\_\_ degrees ☐ Not applicable

c. Directional Antenna Relative Field Values:

Rotation: \_\_\_\_\_ ° ☐ No rotation ☐ N/A (Nondirectional)

| 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 |       |        |       |        |       |        |       |        |       |        |       |

**NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.**

12. **Out-of-Channel Emission Mask:** Simple ☐ Stringent ☐

**CERTIFICATION**

13. **Interference.** The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. ☐ Yes ☐ No 

See Explanation in Exhibit No.

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance. An **Exhibit is required.** ☐ Yes ☐ No 

See Explanation in Exhibit No.

Exhibit No.

By checking "Yes" above, 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 radiofrequency electromagnetic exposure in excess of FCC guidelines.

15. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

☐ The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.

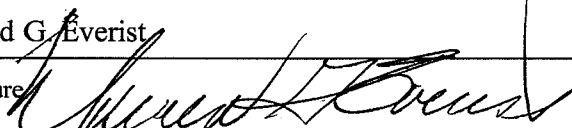
☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

**PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.**

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

- ☐ Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees,
- ☐ Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreement(s) with 700 MHz public safety regional planning committee(s) and state frequency administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.
- ☐ Pursuant to Section 74.786(e), an applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.

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>Donald G. Everist  |   | Relationship to Applicant (e.g., Consulting Engineer)<br>Consulting Engineer |                   |
| Signature<br> |   | Date<br>November 25, 2008  |                   |
| Mailing Address<br>Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100               |   |  |                   |
| 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                           |                   |

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).