

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit

prepared for

Panhandle Telecasting LP

KFDA-TV Amarillo, TX

Facility ID 51466

Ch. 10 62 kW 466 m

Panhandle Telecasting LP (“*Panhandle*”) is the licensee of television station KFDA-TV, pre-transition digital Channel 9 and analog Channel 10, Amarillo, TX. A Construction Permit (“CP”, BPCDT-20080313ACJ) authorizes KFDA-TV to operate post-transition as digital on Channel 10 at 20.8 kW effective radiated power (“ERP”) at an antenna height above average terrain (“HAAT”) of 466 meters. A license application is pending (BLCDT-20090617ABB) to cover construction of the KFDA-TV digital Channel 10 facility. *Panhandle* herein seeks a new CP to increase the ERP to 62 kW while maintaining the authorized antenna location and height.

The transmitting antenna (GE model 4TY53A2) is located on an antenna supporting structure having FCC Antenna Structure Registration number 1052115. No change to the overall structure height and no tower work are required to carry out this proposal.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the boundaries of Amarillo, KFDA-TV’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 43 dB μ contour.

The proposed KFDA-TV facility’s predicted service population provides a 103.3 percent match of the Appendix B facility, as detailed in the following table.

Post-Transition Population Summary

| Population Summary (2000 Census) OET Bulletin 69 method | Appendix B | Proposed |
|--|----------------|----------------|
| Within Noise Limited Contour | 348,971 | 361,005 |
| Not affected by terrain losses | 348,142 | 360,049 |
| Lost to all interference | 335 | 681 |
| Net DTV Service | 347,807 | 359,368 |
| Match of Appendix B | --- | 103.32% |

A detailed interference study per OET Bulletin 69¹ shows that the proposal complies with the 0.5 percent limit of new interference caused to the allotment facilities and current post-transition authorizations of pertinent nearby stations.² The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 693 km distant at Grand Island, NE. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with “quiet” zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission’s database. The site location is beyond the border areas requiring international coordination.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the

¹FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission’s implementation of OET-69 show excellent correlation.

²The interference study includes analysis of KACV-TV Amarillo, TX on Channel 9 which was granted a channel change from Channel 8 to Channel 9 in MB Docket 09-70 (DA 09-1533, released July 14, 2009). It is noted that the Channel 9 allotment technical data in the FCC’s CDBS requires further updating in order to obtain proper interference study results. The KACV-TV allotment data contained in CDBS shows Channel 9 however it still indicates the geographic coordinates, ERP, and antenna height associated with the original Channel 8 allotment from Appendix B. MB Docket 09-70 changed those parameters to 35° 20’ 33” N-Lat 101° 49’ 21” W-Lon, 30 kW ERP, and 398 m HAAT (1433 m AMSL) for the KACV-TV Channel 9 allotment. The analysis provided in Table 1 employs the final facility data for KACV-TV’s Channel 9 allotment as adopted in MB Docket 09-70.

Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower construction or change in structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming 30% antenna relative field in downward elevations, the maximum calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is $1 \mu\text{W}/\text{cm}^2$, which is 0.5 percent of the "uncontrolled / general public" maximum permissible exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



Joseph M. Davis, P.E.
November 3, 2009

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Manassas, VA 20112
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List of Attachments

| | |
|----------|---|
| Figure 1 | Proposed Coverage Contours |
| Table 1 | OET Bulletin 69 Interference Study |
| Form 301 | Saved Version of Engineering Sections from FCC Form at Time of Upload |

This material was entered November 3, 2009 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's account number and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Proposed Coverage Contours
KFDA-TV Amarillo, TX
Facility ID 51466
Ch. 10 62 kW 466 m

prepared for
Panhandle Telecasting LP
November, 2009

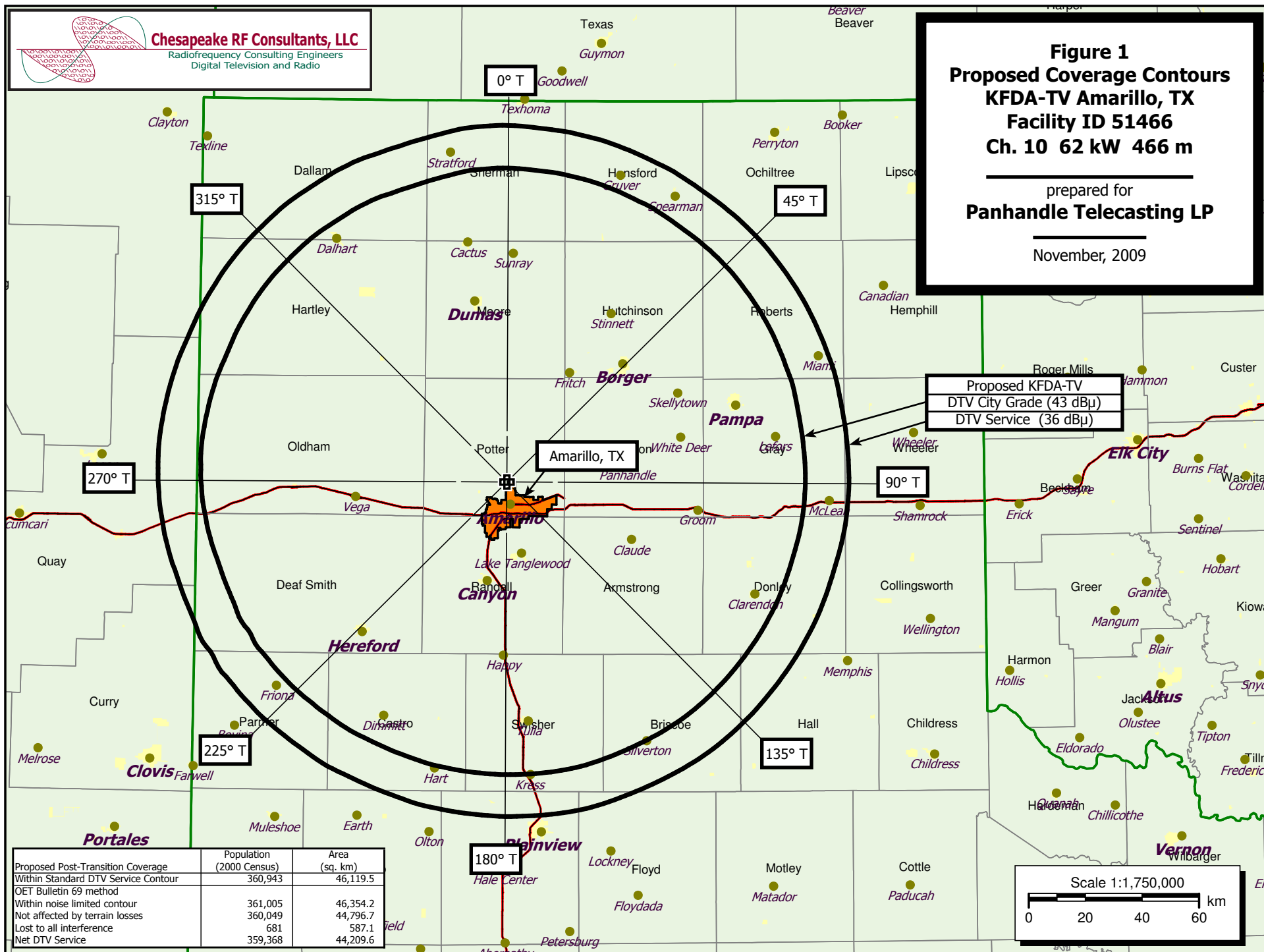


Table 1 KFSA-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 10)

TW Census data selected 2000
Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 11-02-2009 Time: 14:45:09

Record Selected for Analysis

KFSA-TV USERRECORD-01 AMARILLO TX US
Channel 10 ERP 62. kW HAAT 468. m RCMSL 01525 m
Latitude 035-17-34 Longitude 0101-50-42
Status APP Zone 2 Border

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

| Azimuth (Deg) | ERP (kW) | HAAT (m) | 36.0 dBu F(50,90) (km) |
|------------------|-------------|-------------|---------------------------|
| 0.0 | 62.000 | 528.1 | 125.4 |
| 45.0 | 62.000 | 488.5 | 123.0 |
| 90.0 | 62.000 | 447.5 | 120.3 |
| 135.0 | 62.000 | 430.7 | 118.6 |
| 180.0 | 62.000 | 421.2 | 117.6 |
| 225.0 | 62.000 | 436.0 | 119.2 |
| 270.0 | 62.000 | 479.9 | 122.5 |
| 315.0 | 62.000 | 515.0 | 124.5 |

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Table 1 KFSA-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 10)

| Channel | Call | Proposed Station City/State | ARN |
|---------|---------|--------------------------------|--------------|
| 10 | KFSA-TV | AMARILLO TX | USERRECORD01 |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------|----------|--------|-------------|--------------|
| 09 | KACV-TV | AMARILLO TX | 5.9 | APP | BPEDT | -20090903AAZ |
| 09 | KACV-TV | AMARILLO TX | 5.9 | PLN | DTVPLN | -DTVPO217 |
| 09 | KACV-DR | AMARILLO TX | 5.9 | APP | BPRM | -20081126AUK |
| 10 | KBIM-TV | ROSWELL NM | 307.9 | CP | BPEDT | -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 307.9 | PLN | DTVPLN | -DTVPO271 |
| 10 | KCHF | SANTA FE NM | 426.8 | CP | BPEDT | -19991029ACR |
| 10 | KCHF | SANTA FE NM | 426.8 | PLN | DTVPLN | -DTVPO272 |
| 10 | KCHF | SANTA FE NM | 426.8 | LIC | BLCDT | -20051007AAL |
| 11 | KCBD | LUBBOCK TX | 194.6 | CP | BPEDT | -20080520ACF |
| 11 | KCBD | LUBBOCK TX | 194.6 | PLN | DTVPLN | -DTVPO343 |
| 11 | KCBD | LUBBOCK TX | 194.6 | APP | BMPCDT | -20090722ACC |

Analysis of Interference to Affected Station 1

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|-------------|-------------|--------------|
| 09 | KACV-TV | AMARILLO TX | BPEDT | -20090903AAZ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------------|----------|--------|---------------|--------------|
| 08 | KWET | CHEYENNE OK | 197.1 | LIC | BLEDT | -20060601BMA |
| 08 | KWET | CHEYENNE OK | 197.1 | PLN | DTVPLN | -DTVPO152 |
| 09 | KWTV-DT | OKLAHOMA CITY OK | 392.3 | CP MOD | BMPCDT | -20080619ADT |
| 09 | KWTV | OKLAHOMA CITY OK | 392.3 | PLN | DTVPLN | -DTVPO209 |
| 09 | KACV-DR | AMARILLO TX | 0.0 | APP | BPRM | -20081126AUK |
| 09 | KWES-TV | ODESSA TX | 385.4 | CP | BPEDT | -20080317ADS |
| 09 | KWES-TV | ODESSA TX | 385.4 | PLN | DTVPLN | -DTVPO221 |
| 10 | KFSA-TV | AMARILLO TX | 5.9 | PLN | DTVPLN | -DTVPO288 |
| 10 | KFSA-TV | AMARILLO TX | 5.9 | APP | USERRECORD-01 | |

Total scenarios = 6

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 9A TX AMARILLO BPEDT 20090903AAZ APP
HAAT 398.0 m, ATV ERP 30.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 347763 | 37269.2 |
| not affected by terrain losses | 346540 | 36068.0 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 27 | 131.7 |
| lost to ATV IX only | 27 | 131.7 |
| lost to all IX | 27 | 131.7 |

Potential Interfering Stations Included in above Scenario 1

9A OK OKLAHOMA CITY BMPCDT 20080619ADT CP

Table 1 KFDA-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 10)

| | | | |
|-----------------|--------|-------------|-----|
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | DTVPLN | DTVP0288 | PLN |

After Analysis

| | | | | |
|--------------------------------|------------------|--------------|-------------|-----|
| Results for: | 9A TX AMARILLO | BPEDT | 20090903AAZ | APP |
| HAAT | 398.0 m, ATV ERP | 30.0 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 347763 | 37269.2 | | |
| not affected by terrain losses | 346540 | 36068.0 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 133 | 223.5 | | |
| lost to ATV IX only | 133 | 223.5 | | |
| lost to all IX | 133 | 223.5 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------------|-------------|-----|
| 9A OK OKLAHOMA CITY | BMPCDT | 20080619ADT | CP |
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | USERRECORD01 | | APP |

Percent new IX = 0.0306%

Worst case new IX 0.0306% Scenario 1

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Analysis of Interference to Affected Station 2

| | | | | |
|----------------------------|---------|-------------|-------------|-----------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application | Ref. No. |
| 09 | KACV-TV | AMARILLO TX | DTVPLN | -DTVP0217 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------------|----------|--------|---------------|--------------|
| 08 | KWET | CHEYENNE OK | 197.1 | LIC | BLED | -20060601BMA |
| 08 | KWET | CHEYENNE OK | 197.1 | PLN | DTVPLN | -DTVP0152 |
| 09 | KWTV-DT | OKLAHOMA CITY OK | 392.3 | CP MOD | BMPCDT | -20080619ADT |
| 09 | KWTV | OKLAHOMA CITY OK | 392.3 | PLN | DTVPLN | -DTVP0209 |
| 09 | KACV-DR | AMARILLO TX | 0.0 | APP | BPRM | -20081126AUK |
| 09 | KWES-TV | ODESSA TX | 385.4 | CP | BPCDT | -20080317ADS |
| 09 | KWES-TV | ODESSA TX | 385.4 | PLN | DTVPLN | -DTVP0221 |
| 10 | KFDA-TV | AMARILLO TX | 5.9 | PLN | DTVPLN | -DTVP0288 |
| 10 | KFDA-TV | AMARILLO TX | 5.9 | APP | USERRECORD-01 | |

Total scenarios = 6

Result key: 7
Scenario 1 Affected station 2
Before Analysis

| | | | | |
|--------------------------------|------------------|--------------|----------|-----|
| Results for: | 9A TX AMARILLO | DTVPLN | DTVP0217 | PLN |
| HAAT | 398.0 m, ATV ERP | 30.0 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 347763 | 37269.2 | | |
| not affected by terrain losses | 346540 | 36068.0 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 27 | 131.7 | | |

Table 1 KFDA-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 10)

| | | |
|---------------------|----|-------|
| lost to ATV IX only | 27 | 131.7 |
| lost to all IX | 27 | 131.7 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------|-------------|-----|
| 9A OK OKLAHOMA CITY | BMPCDT | 20080619ADT | CP |
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | DTVPLN | DTVP0288 | PLN |

After Analysis

| | | | | |
|--------------------------------|------------------|--------------|----------|-----|
| Results for: | 9A TX AMARILLO | DTVPLN | DTVP0217 | PLN |
| HAAT | 398.0 m, ATV ERP | 30.0 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 347763 | 37269.2 | | |
| not affected by terrain losses | 346540 | 36068.0 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 133 | 223.5 | | |
| lost to ATV IX only | 133 | 223.5 | | |
| lost to all IX | 133 | 223.5 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------------|-------------|-----|
| 9A OK OKLAHOMA CITY | BMPCDT | 20080619ADT | CP |
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | USERRECORD01 | | APP |

Percent new IX = 0.0306%

Worst case new IX 0.0306% Scenario 1

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Analysis of Interference to Affected Station 3

| | | | | |
|----------------------------|---------|-------------|-------------|--------------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application | Ref. No. |
| 09 | KACV-DR | AMARILLO TX | BPRM | -20081126AUK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------------|----------|--------|---------------|--------------|
| 08 | KWET | CHEYENNE OK | 197.1 | LIC | BLED | -20060601BMA |
| 08 | KWET | CHEYENNE OK | 197.1 | PLN | DTVPLN | -DTVP0152 |
| 09 | KWTV-DT | OKLAHOMA CITY OK | 392.3 | CP MOD | BMPCDT | -20080619ADT |
| 09 | KWTV | OKLAHOMA CITY OK | 392.3 | PLN | DTVPLN | -DTVP0209 |
| 09 | KACV-TV | AMARILLO TX | 0.0 | APP | BPEDT | -20090903AAZ |
| 09 | KACV-TV | AMARILLO TX | 0.0 | PLN | DTVPLN | -DTVP0217 |
| 09 | KWES-TV | ODESSA TX | 385.4 | CP | BPCDT | -20080317ADS |
| 09 | KWES-TV | ODESSA TX | 385.4 | PLN | DTVPLN | -DTVP0221 |
| 10 | KFDA-TV | AMARILLO TX | 5.9 | PLN | DTVPLN | -DTVP0288 |
| 10 | KFDA-TV | AMARILLO TX | 5.9 | APP | USERRECORD-01 | |

Total scenarios = 4

Result key: 13
Scenario 1 Affected station 3
Before Analysis

Table 1 KFDD-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 10)

| | | | | |
|--------------------------------|------------------|--------------|-------------|-----|
| Results for: | 9A TX AMARILLO | BPRM | 20081126AUK | APP |
| HAAT | 398.0 m, ATV ERP | 30.0 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 347763 | 37269.2 | | |
| not affected by terrain losses | 346540 | 36068.0 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 27 | 131.7 | | |
| lost to ATV IX only | 27 | 131.7 | | |
| lost to all IX | 27 | 131.7 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------|-------------|-----|
| 9A OK OKLAHOMA CITY | BMPCDT | 20080619ADT | CP |
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | DTVPLN | DTVP0288 | PLN |

After Analysis

| | | | | |
|--------------------------------|------------------|--------------|-------------|-----|
| Results for: | 9A TX AMARILLO | BPRM | 20081126AUK | APP |
| HAAT | 398.0 m, ATV ERP | 30.0 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 347763 | 37269.2 | | |
| not affected by terrain losses | 346540 | 36068.0 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 133 | 223.5 | | |
| lost to ATV IX only | 133 | 223.5 | | |
| lost to all IX | 133 | 223.5 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|---------------------|--------------|-------------|-----|
| 9A OK OKLAHOMA CITY | BMPCDT | 20080619ADT | CP |
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | USERRECORD01 | | APP |

Percent new IX = 0.0306%

Worst case new IX 0.0306% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|------------|----------------------|
| 10 | KBIM-TV | ROSWELL NM | BPCDT -20080313AAK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 09 | KWES-TV | ODESSA TX | 147.9 | CP | BPCDT -20080317ADS |
| 09 | KWES-TV | ODESSA TX | 147.9 | PLN | DTVPLN -DTVP0221 |
| 10 | KCHF | SANTA FE NM | 391.5 | CP | BPCDT -19991029ACR |
| 10 | KCHF | SANTA FE NM | 391.4 | PLN | DTVPLN -DTVP0272 |
| 10 | KCHF | SANTA FE NM | 391.5 | LIC | BLCDT -20051007AAL |
| 10 | KOVT | SILVER CITY NM | 412.8 | CP MOD | BMPCDT -20080619AAN |
| 10 | KOVT | SILVER CITY NM | 412.8 | PLN | DTVPLN -DTVP0273 |
| 10 | KFDA-TV | AMARILLO TX | 307.9 | PLN | DTVPLN -DTVP0288 |
| 11 | KCBD | LUBBOCK TX | 192.0 | CP | BPCDT -20080520ACF |
| 11 | KCBD | LUBBOCK TX | 192.0 | PLN | DTVPLN -DTVP0343 |
| 11 | KCBD | LUBBOCK TX | 192.0 | APP | BMPCDT -20090722ACC |

Table 1 KFDD-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 10)

| | | | | | |
|----|---------|-------------|-------|-----|---------------|
| 10 | KFDA-TV | AMARILLO TX | 307.9 | APP | USERRECORD-01 |
|----|---------|-------------|-------|-----|---------------|

Total scenarios = 2

Result key: 17
Scenario 1 Affected station 4
Before Analysis

| | | | | |
|--------------------------------|------------------|--------------|-------------|----|
| Results for: | 10A NM ROSWELL | BPCDT | 20080313AAK | CP |
| HAAT | 610.0 m, ATV ERP | 24.3 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 187528 | 45842.1 | | |
| not affected by terrain losses | 187416 | 45382.4 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 163 | 1159.4 | | |
| lost to ATV IX only | 163 | 1159.4 | | |
| lost to all IX | 163 | 1159.4 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-----------------|--------|-------------|-----|
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | DTVPLN | DTVP0288 | PLN |

After Analysis

| | | | | |
|--------------------------------|------------------|--------------|-------------|----|
| Results for: | 10A NM ROSWELL | BPCDT | 20080313AAK | CP |
| HAAT | 610.0 m, ATV ERP | 24.3 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 187528 | 45842.1 | | |
| not affected by terrain losses | 187416 | 45382.4 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 334 | 1651.2 | | |
| lost to ATV IX only | 334 | 1651.2 | | |
| lost to all IX | 334 | 1651.2 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-----------------|--------------|-------------|-----|
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | USERRECORD01 | | APP |

Percent new IX = 0.0913%

Worst case new IX 0.0913% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|------------|----------------------|
| 10 | KBIM-TV | ROSWELL NM | DTVPLN -DTVP0271 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------|----------|--------|----------------------|
| 09 | KWES-TV | ODESSA TX | 147.9 | CP | BPCDT -20080317ADS |
| 09 | KWES-TV | ODESSA TX | 147.9 | PLN | DTVPLN -DTVP0221 |
| 10 | KCHF | SANTA FE NM | 391.5 | CP | BPCDT -19991029ACR |
| 10 | KCHF | SANTA FE NM | 391.4 | PLN | DTVPLN -DTVP0272 |

Table 1 KFDA-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 10)

| | | | | | | |
|----|---------|----------------|-------|--------|---------------|--------------|
| 10 | KCHF | SANTA FE NM | 391.5 | LIC | BLCDT | -20051007AAL |
| 10 | KOVT | SILVER CITY NM | 412.8 | CP MOD | BMPCDT | -20080619AAN |
| 10 | KOVT | SILVER CITY NM | 412.8 | PLN | DTVPLN | -DTVP0273 |
| 10 | KFDA-TV | AMARILLO TX | 307.9 | PLN | DTVPLN | -DTVP0288 |
| 11 | KCBD | LUBBOCK TX | 192.0 | CP | BPCDT | -20080520ACF |
| 11 | KCBD | LUBBOCK TX | 192.0 | PLN | DTVPLN | -DTVP0343 |
| 11 | KCBD | LUBBOCK TX | 192.0 | APP | BMPCDT | -20090722ACC |
| 10 | KFDA-TV | AMARILLO TX | 307.9 | APP | USERRECORD-01 | |

Total scenarios = 2

Result key: 19
Scenario 1 Affected station 5
Before Analysis

| | | | | |
|--------------------------------|------------------|--------------|----------|-----|
| Results for: 10A NM ROSWELL | | DTVPLN | DTVP0271 | PLN |
| HAAT | 610.0 m, ATV ERP | 24.3 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 187465 | 45301.8 | | |
| not affected by terrain losses | 187332 | 44826.1 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 129 | 1075.5 | | |
| lost to ATV IX only | 129 | 1075.5 | | |
| lost to all IX | 129 | 1075.5 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-----------------|--------|-------------|-----|
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | DTVPLN | DTVP0288 | PLN |

After Analysis

| | | | | |
|--------------------------------|------------------|--------------|----------|-----|
| Results for: 10A NM ROSWELL | | DTVPLN | DTVP0271 | PLN |
| HAAT | 610.0 m, ATV ERP | 24.3 kW | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 187465 | 45301.8 | | |
| not affected by terrain losses | 187332 | 44826.1 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 276 | 1539.2 | | |
| lost to ATV IX only | 276 | 1539.2 | | |
| lost to all IX | 276 | 1539.2 | | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-----------------|--------------|-------------|-----|
| 9A TX ODESSA | BPCDT | 20080317ADS | CP |
| 10A TX AMARILLO | USERRECORD01 | | APP |

Percent new IX = 0.0785%

Worst case new IX 0.0785% Scenario 1

#####

Analysis of Interference to Affected Station 6

| | | | | |
|----------------------------|------|-------------|----------------------|--------------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application Ref. No. | |
| 10 | KCHF | SANTA FE NM | BPCDT | -19991029ACR |

Table 1 KFDA-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 10)

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|----------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 10 | KBIM-TV | ROSWELL NM | 391.5 | CP | BPCDT -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 391.5 | PLN | DTVPLN -DTVP0271 |
| 10 | KOVT | SILVER CITY NM | 360.5 | CP MOD | BMPCDT -20080619AAN |
| 10 | KOVT | SILVER CITY NM | 360.5 | PLN | DTVPLN -DTVP0273 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | PLN | DTVPLN -DTVP0288 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | APP | USERRECORD-01 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 7

| | | | | |
|----------------------------|------|-------------|----------------------|-----------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application Ref. No. | |
| 10 | KCHF | SANTA FE NM | DTVPLN | -DTVP0272 |

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|----------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 10 | KBIM-TV | ROSWELL NM | 391.4 | CP | BPCDT -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 391.4 | PLN | DTVPLN -DTVP0271 |
| 10 | KOVT | SILVER CITY NM | 360.4 | CP MOD | BMPCDT -20080619AAN |
| 10 | KOVT | SILVER CITY NM | 360.4 | PLN | DTVPLN -DTVP0273 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | PLN | DTVPLN -DTVP0288 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | APP | USERRECORD-01 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 8

| | | | | |
|----------------------------|------|-------------|----------------------|--------------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application Ref. No. | |
| 10 | KCHF | SANTA FE NM | BLCDT | -20051007AAL |

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|----------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 10 | KBIM-TV | ROSWELL NM | 391.5 | CP | BPCDT -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 391.5 | PLN | DTVPLN -DTVP0271 |
| 10 | KOVT | SILVER CITY NM | 360.5 | CP MOD | BMPCDT -20080619AAN |
| 10 | KOVT | SILVER CITY NM | 360.5 | PLN | DTVPLN -DTVP0273 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | PLN | DTVPLN -DTVP0288 |
| 10 | KFDA-TV | AMARILLO TX | 426.8 | APP | USERRECORD-01 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

| | | | | |
|----------------------------|------|------------|----------------------|--------------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application Ref. No. | |
| 11 | KCBD | LUBBOCK TX | BPCDT | -20080520ACF |

Table 1 KFDD-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 10)

| Stations Potentially Affecting This Station | | | | | | |
|---|---------|---------------|----------|--------|---------------|--------------|
| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
| 10 | KBIM-TV | ROSWELL NM | 192.0 | CP | BPCDT | -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 192.0 | PLN | DTVPLN | -DTVP0271 |
| 10 | KFDA-TV | AMARILLO TX | 194.6 | PLN | DTVPLN | -DTVP0288 |
| 11 | KSWO-TV | LAWTON OK | 297.2 | CP MOD | BMPCDT | -20030213AAF |
| 11 | KSWO-TV | LAWTON OK | 297.2 | PLN | DTVPLN | -DTVP0331 |
| 11 | KLST | SAN ANGELO TX | 294.4 | CP MOD | BMPCDT | -20070125ACQ |
| 11 | KLST | SAN ANGELO TX | 294.4 | PLN | DTVPLN | -DTVP0344 |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | CP MOD | BMPCDT | -20090206AEI |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | PLN | DTVPLN | -DTVP0386 |
| 12 | KVIH-DR | CLOVIS NM | 151.4 | APP | BPRM | -20080620AOB |
| 10 | KFDA-TV | AMARILLO TX | 194.6 | APP | USERRECORD-01 | |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 10

| Analysis of current record | | | | |
|----------------------------|------|------------|-------------|-----------|
| Channel | Call | City/State | Application | Ref. No. |
| 11 | KCBD | LUBBOCK TX | DTVPLN | -DTVP0343 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|---------------|--------------|
| 10 | KBIM-TV | ROSWELL NM | 192.0 | CP | BPCDT | -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 192.0 | PLN | DTVPLN | -DTVP0271 |
| 10 | KFDA-TV | AMARILLO TX | 194.6 | PLN | DTVPLN | -DTVP0288 |
| 11 | KSWO-TV | LAWTON OK | 297.2 | CP MOD | BMPCDT | -20030213AAF |
| 11 | KSWO-TV | LAWTON OK | 297.2 | PLN | DTVPLN | -DTVP0331 |
| 11 | KLST | SAN ANGELO TX | 294.4 | CP MOD | BMPCDT | -20070125ACQ |
| 11 | KLST | SAN ANGELO TX | 294.4 | PLN | DTVPLN | -DTVP0344 |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | CP MOD | BMPCDT | -20090206AEI |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | PLN | DTVPLN | -DTVP0386 |
| 12 | KVIH-DR | CLOVIS NM | 151.4 | APP | BPRM | -20080620AOB |
| 10 | KFDA-TV | AMARILLO TX | 194.6 | APP | USERRECORD-01 | |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 11

| Analysis of current record | | | | |
|----------------------------|------|------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 11 | KCBD | LUBBOCK TX | BMPCDT | -20090722ACC |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 10 | KBIM-TV | ROSWELL NM | 192.0 | CP | BPCDT | -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 192.0 | PLN | DTVPLN | -DTVP0271 |

Table 1 KFDD-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 10)

| | | | | | | |
|---------------------------------|---------|---------------|-------|--------|---------------|--------------|
| 10 | KFDA-TV | AMARILLO TX | 194.6 | PLN | DTVPLN | -DTVP0288 |
| 11 | KSWO-TV | LAWTON OK | 297.2 | CP MOD | BMPCDT | -20030213AAF |
| 11 | KSWO-TV | LAWTON OK | 297.2 | PLN | DTVPLN | -DTVP0331 |
| 11 | KLST | SAN ANGELO TX | 294.4 | CP MOD | BMPCDT | -20070125ACQ |
| 11 | KLST | SAN ANGELO TX | 294.4 | PLN | DTVPLN | -DTVP0344 |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | CP MOD | BMPCDT | -20090206AEI |
| 12 | KVIH-TV | CLOVIS NM | 151.4 | PLN | DTVPLN | -DTVP0386 |
| 12 | KVIH-DR | CLOVIS NM | 151.4 | APP | BPRM | -20080620AOB |
| 10 | KFDA-TV | AMARILLO TX | 194.6 | APP | USERRECORD-01 | |
| Proposal causes no interference | | | | | | |

#####

Analysis of Interference to Affected Station 12

| Analysis of current record | | | | |
|----------------------------|---------|-------------|---------------|----------|
| Channel | Call | City/State | Application | Ref. No. |
| 10 | KFDA-TV | AMARILLO TX | USERRECORD-01 | |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------|----------|--------|-------------|--------------|
| 09 | KACV-TV | AMARILLO TX | 5.9 | APP | BPEDT | -20090903AAZ |
| 09 | KACV-TV | AMARILLO TX | 5.9 | PLN | DTVPLN | -DTVP0217 |
| 09 | KACV-DR | AMARILLO TX | 5.9 | APP | BPRM | -20081126AUK |
| 10 | KBIM-TV | ROSWELL NM | 307.9 | CP | BPCDT | -20080313AAK |
| 10 | KBIM-TV | ROSWELL NM | 307.9 | PLN | DTVPLN | -DTVP0271 |
| 10 | KCHF | SANTA FE NM | 426.8 | CP | BPCDT | -19991029ACR |
| 10 | KCHF | SANTA FE NM | 426.8 | PLN | DTVPLN | -DTVP0272 |
| 10 | KCHF | SANTA FE NM | 426.8 | LIC | BLCDT | -20051007AAL |
| 11 | KCBD | LUBBOCK TX | 194.6 | CP | BPCDT | -20080520ACF |
| 11 | KCBD | LUBBOCK TX | 194.6 | PLN | DTVPLN | -DTVP0343 |
| 11 | KCBD | LUBBOCK TX | 194.6 | APP | BMPCDT | -20090722ACC |

Total scenarios = 2

Result key: 21
Scenario 1 Affected station 12
Before Analysis

| Results for: 10A TX AMARILLO | | | USERRECORD01 | APP |
|--------------------------------|------------|--------------|--------------|-----|
| HAAT 468.0 m, ATV ERP 62.0 kW | | | | |
| | POPULATION | AREA (sq km) | | |
| within Noise Limited Contour | 361005 | 46354.2 | | |
| not affected by terrain losses | 360049 | 44796.7 | | |
| lost to NTSC IX | 0 | 0.0 | | |
| lost to additional IX by ATV | 681 | 587.1 | | |
| lost to ATV IX only | 681 | 587.1 | | |
| lost to all IX | 681 | 587.1 | | |

Potential Interfering Stations Included in above Scenario 1

10A NM ROSWELL BPCDT 20080313AAK CP

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

| 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. | |
| <p>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 change 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.</p> <p>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 within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p> | |
| 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. | <input checked="" type="radio"/> Yes <input type="radio"/> 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. | <input type="radio"/> Yes <input type="radio"/> 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. | <input type="radio"/> Yes <input type="radio"/> 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"). | <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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. | <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A |
| 2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13. | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| 3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. | <input checked="" type="radio"/> Yes <input type="radio"/> 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. | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| 5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration 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. | <input checked="" type="radio"/> Yes <input type="radio"/> 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 10 Analog TV, if any |
| 2. | Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III |
| 3. | Antenna Location Coordinates: (NAD 27) Latitude: Degrees 35 Minutes 17 Seconds 34 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 101 Minutes 50 Seconds 42 <input checked="" type="radio"/> West <input type="radio"/> East |
| 4. | Antenna Structure Registration Number: 1052115 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA |
| 5. | Antenna Location Site Elevation Above Mean Sea Level: 1082 meters |
| 6. | Overall Tower Height Above Ground Level: 456 meters |
| 7. | Height of Radiation Center Above Ground Level: 443 meters |
| 8. | Height of Radiation Center Above Average Terrain : 466 meters |
| 9. | Maximum Effective Radiated Power (average power): 62 kW |

| | | |
|---|--|---|
| 10. | Antenna Specifications: | |
| | a. Manufacturer GE Model 4TY53A2 | |
| | b. Electrical Beam Tilt: 0.5 degrees <input type="checkbox"/> Not Applicable | |
| | c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 43] | |
| | d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical | |
| | e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional) | |
| | [For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values] | |
| | If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required. [Exhibit 44] | |
| 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? If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers. | <input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 45] |
| 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 46] |
| 13. | Environmental Protection Act. Submit in an Exhibit the following: 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 radiofrequency 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. | [Exhibit 47] |
| PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED. | | |

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 JOSEPH M. DAVIS, P.E. | | Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER | |
| Signature | | Date 11/03/2009 | |
| Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD | | | |
| City MANASSAS | State or Country (if foreign address) VA | | Zip Code 20112 - |
| Telephone Number (include area code) 7036509600 | | E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM | |