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

ENGINEERING EXHIBIT

"Maximization" Application to Modify Post-Transition Digital Television Station Construction Permit

prepared for

Wilderness Communications, LLC
KBCA-DT Alexandria, LA
Facility ID 16940
Ch. 41 1000 kW 303 m

Wilderness Communications, LLC ("Wilderness") is the licensee of television station KBCA(TV), analog Channel 41, Alexandria, LA. A Construction Permit ("CP", BPCDT-20080502AAI) authorizes construction of the KBCA-DT post-transition digital facility on Channel 41, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. *Wilderness* herein seeks to modify the CP to expand the KBCA-DT post-transition Channel 41 digital facility. The instant application is intended to be filed by June 20, 2008 in response to the FCC's lifting of the August 3, 2004 "freeze" concerning expansion in service area.[1]

The current CP authorizes operation with an effective radiated power ("ERP") of 210 kW at 303 meters antenna height above average terrain ("HAAT"), with a directional antenna. An increase in ERP to 1000 kW is proposed herein. No other changes are proposed.

The proposed digital Channel 41 operation will employ the existing directional antenna system licensed for KBCA's analog Channel 41. The antenna is top-mounted on the existing KBCA antenna supporting structure, having FCC Antenna Structure Registration ("ASR") number 1231316. No change to the overall structure height and no tower work are required to carry out this proposal.

[1]Public Notice *"Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately"* DA 08-1213, released May 30, 2008.

The proposed KBCA-DT antenna system is an ERI model ATW30H3-HTC4-41H. The directional antenna's azimuthal pattern is depicted in **Figure 1**. **Figures 2** and **2A** provide the theoretical vertical plane (elevation) pattern[2].

A map is supplied as **Figure 3,** which depicts the standard predicted coverage contours. This map includes the boundaries of Alexandria, KBCA-DT'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 48 dBμ contour.

The proposed KBCA-DT facility's predicted service population provides a 123.7 percent match of the Appendix B facility, as detailed in the table below.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	368,631	455,839
Not affected by terrain losses	368,631	455,819
Lost to all interference	2	0
Net DTV Service	**368,629**	**455,819**
Match of Appendix B	---	**123.65%**

A detailed interference study per OET Bulletin 69[3] shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. 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 640 km distant at Kingsville, TX. 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

[2] These patterns are supplied in terms of relative field. In recent years, FCC Staff have not required pattern data in dBk format however such patterns are available upon request.

[3] FCC 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.

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 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 considering 10 percent antenna relative field in downward elevations (pattern data shows less than 10 percent relative field at angles 15 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.8 $\mu W/cm^2$, which is 0.9 percent of the general population/uncontrolled maximum permitted exposure limit. This is 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.
June 14, 2008

Chesapeake RF Consultants, LLC
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Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1	Antenna Horizontal Plane Pattern
Figure 2, 2A	Antenna Vertical Plane (Elevation) Pattern
Figure 3	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

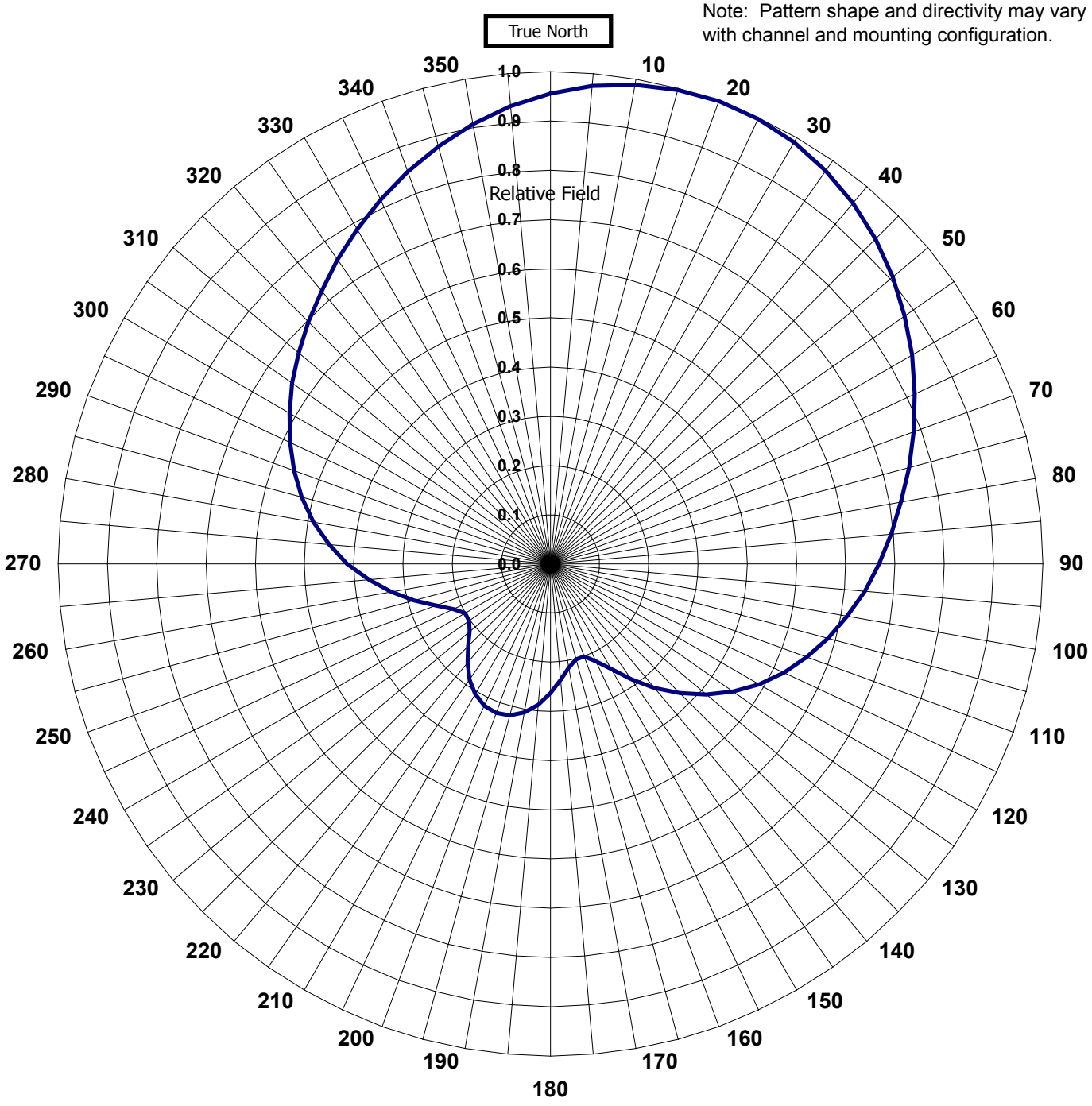
This material was entered June 14, 2008 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.

Figure 1
Antenna Horizontal Plane Pattern

AZIMUTH PATTERN

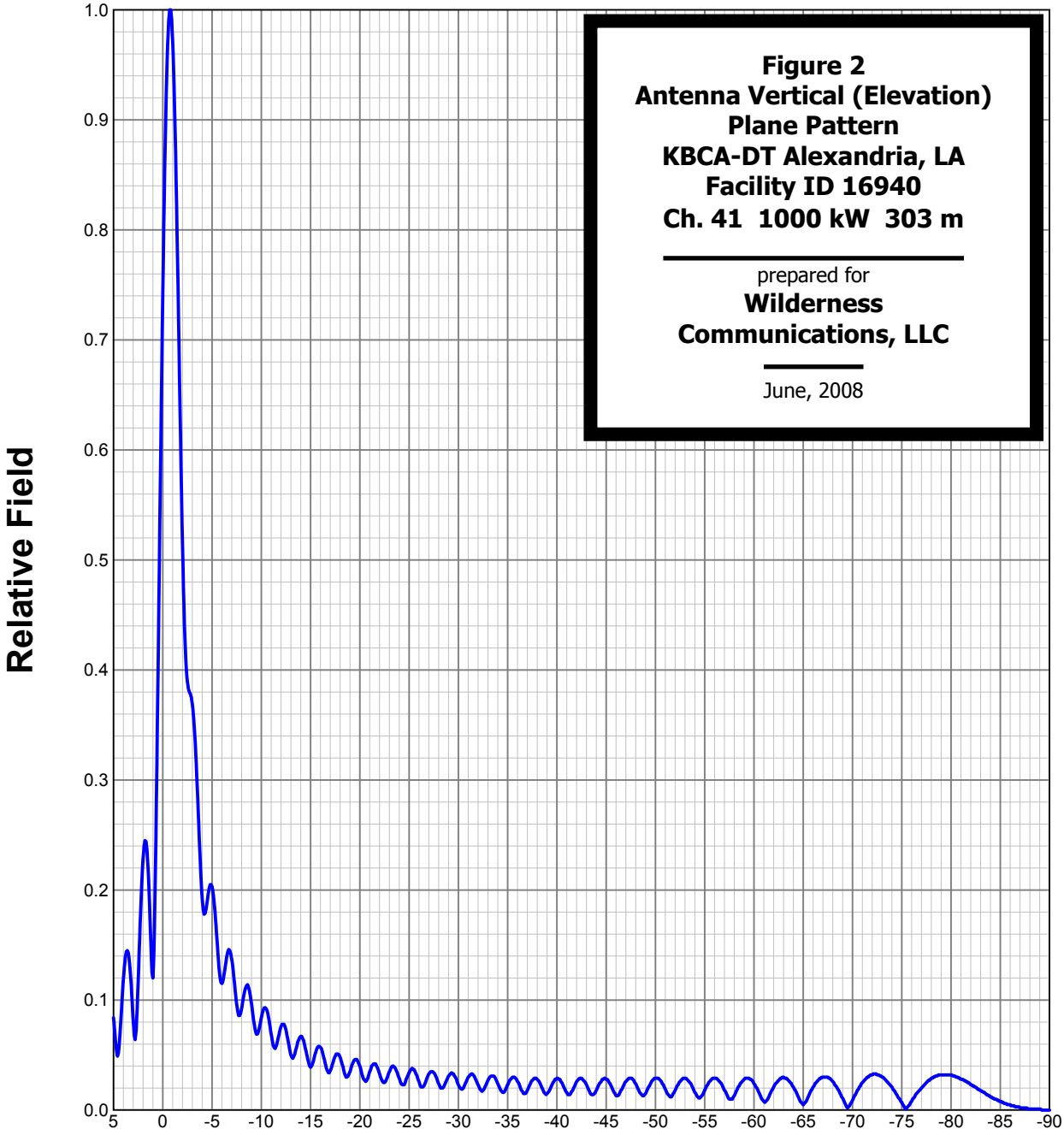
TYPE:	***CH41HAZ-C4***	
	Numeric	***dB***
Directivity:	***2.54***	***4.05***
Peak(s) at:		
Polarization:	***Horizontal***	
Frequency:	***41(Analog)***	
Location:	***Alexandria, LA***	

Note: Pattern shape and directivity may vary with channel and mounting configuration.



ELEVATION PATTERN

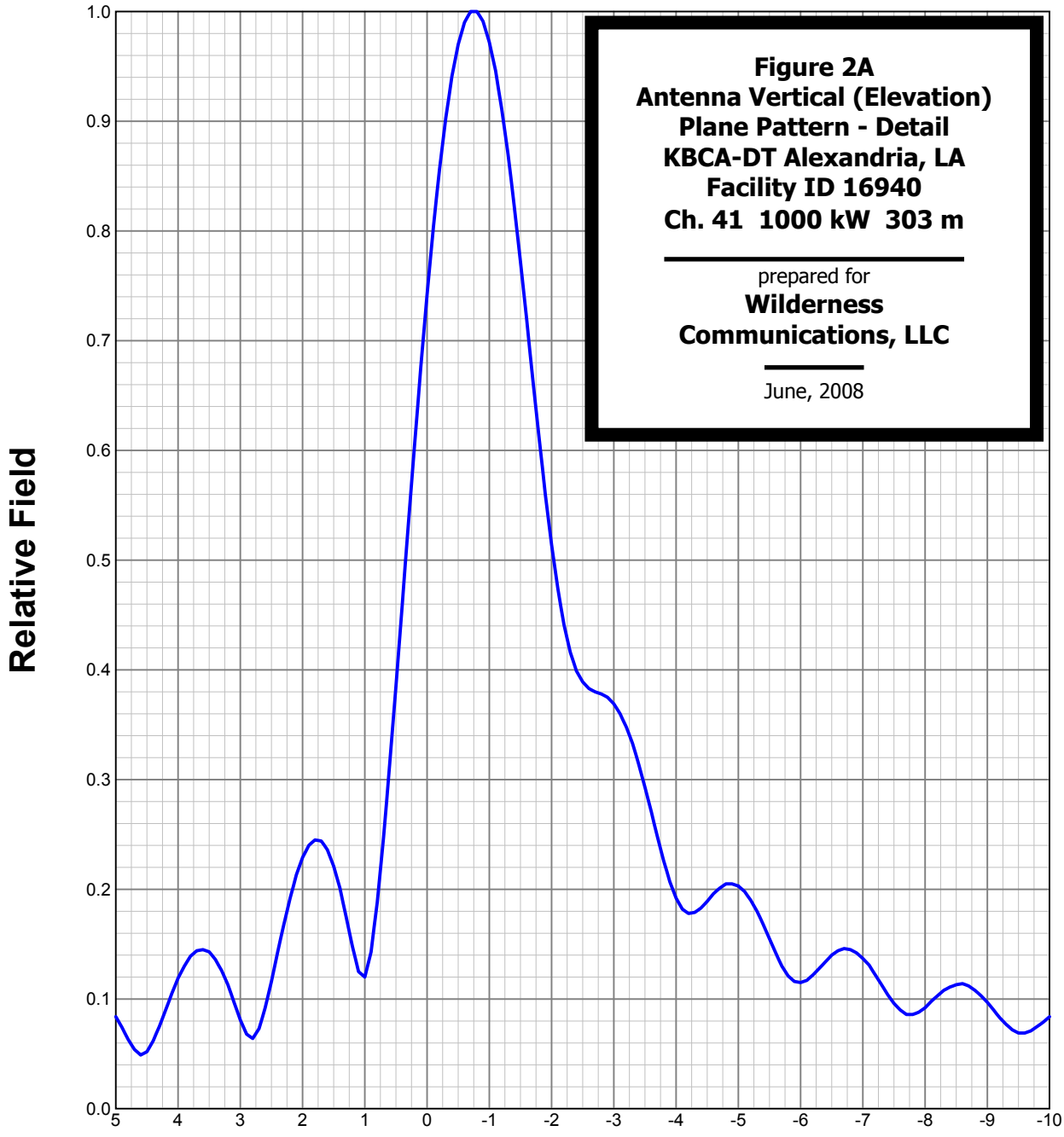
Type:	ATW30H3H		Channel:	41
Directivity:	Numeric	dBd	Location:	Alexandria, LA
Main Lobe:	30.00	14.77	Beam Tilt:	-0.75
Horizontal:	16.52	12.18	Polarization:	Horizontal



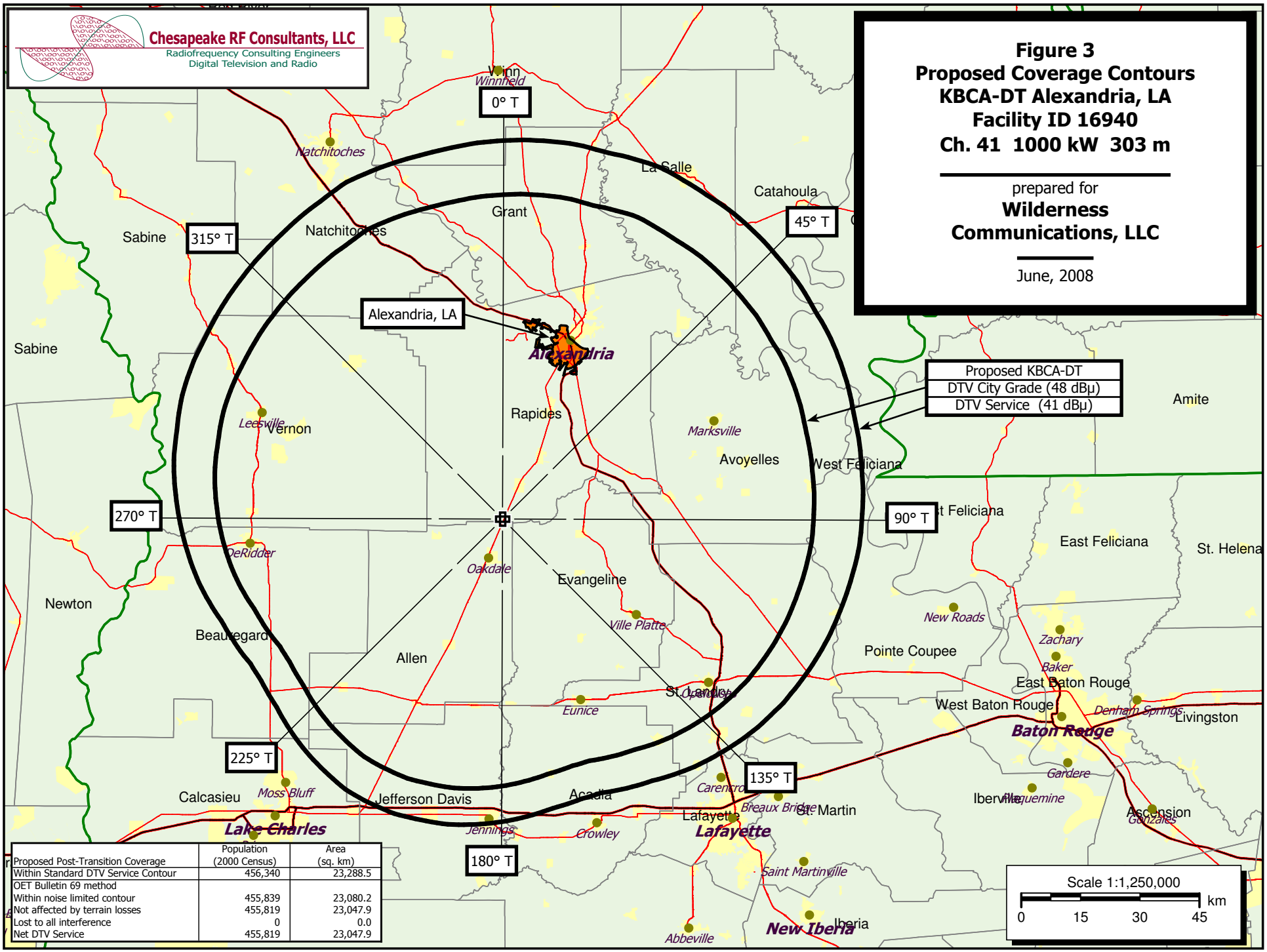
Preliminary, subject to final design and review.

ELEVATION PATTERN

Type:	ATW30H3H		Channel:	41
Directivity:	Numeric	dBd	Location:	Alexandria, LA
Main Lobe:	30.00	14.77	Beam Tilt:	-0.75
Horizontal:	16.52	12.18	Polarization:	Horizontal



Preliminary, subject to final design and review.



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	456,340	23,288.5
OET Bulletin 69 method		
Within noise limited contour	455,839	23,080.2
Not affected by terrain losses	455,819	23,047.9
Lost to all interference	0	0.0
Net DTV Service	455,819	23,047.9

Table 1 KBCA-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 6)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-14-2008 Time: 19:17:46

Record Selected for Analysis

KBCA-DT USERRECORD-01 ALEXANDRIA LA US
Channel 41 ERP 1000. kW HAAT 303. m RCAMSL 00341 m
Latitude 030-54-17 Longitude 0092-37-28
Status APP Zone 3 Border
Dir Antenna Make CDB Model 00000000086372 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

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)	41.0 dBu F(50,90) (km)
0.0	913.936	296.0	95.5
45.0	867.692	303.7	96.0
90.0	444.889	310.0	90.6
135.0	137.270	308.3	81.2
180.0	68.644	304.8	76.6
225.0	56.644	308.4	75.8
270.0	170.569	297.7	81.5
315.0	483.025	298.0	89.8

Evaluation toward Class A Stations

Contour overlap to Class A station
KBTR-CA 41 BATON ROUGE LA BLTTA 20041201CAF

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

Table 1 KBCA-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 6)

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Start of Interference Analysis

Proposed Station

Channel	Call	City/State	ARN
41	KBCA-DT	ALEXANDRIA LA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KAJN-LP	LAFAYETTE LA	112.6	LIC	BLTTA	-20030508ACV
40	KBTV-TV	PORT ARTHUR TX	113.9	CP MOD	BMPCDT	-20080305ABQ
40	KBTV-TV	PORT ARTHUR TX	154.7	PLN	DTVPLN	-DTVP1455
41	KBTR-CA	BATON ROUGE LA	151.4	LIC	BLTTA	-20041201CAF
41	WUFX	VICKSBURG MS	247.1	PLN	DTVPLN	-DTVP1478
41	KAZH	BAYTOWN TX	314.3	CP	BPCDT	-19991101ADZ
41	KAZH	BAYTOWN TX	314.3	PLN	DTVPLN	-DTVP1485

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KAJN-LP	LAFAYETTE LA	BLTTA	-20030508ACV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WVLA	BATON ROUGE LA	75.8	LIC	BLCT	-19871224KH
40	WDBD	JACKSON MS	285.5	CP	BPCDT	-20080401ATJ
40	WDBD	JACKSON MS	285.5	PLN	DTVPLN	-DTVP1443
40	WDBD	JACKSON MS	285.5	CP MOD	BMPCT	-20020429ABF
40	KBTV-TV	PORT ARTHUR TX	154.1	CP MOD	BMPCDT	-20080305ABQ
40	KBTV-TV	PORT ARTHUR TX	191.6	PLN	DTVPLN	-DTVP1455
41	KBCA	ALEXANDRIA LA	112.5	PLN	DTVPLN	-DTVP1473
41	KBCA	ALEXANDRIA LA	112.6	CP	BPCDT	-20080502AAI
41	KBCA	ALEXANDRIA LA	112.6	LIC	BLCT	-20050728AMI
44	WGMB	BATON ROUGE LA	75.8	LIC	BLCT	-19910813KF
55	K54FT	NEW IBERIA LA	25.8	LIC	BLTT	-19951020IM
41	KBCA-DT	ALEXANDRIA LA	112.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KBTV-TV	PORT ARTHUR TX	BMPCDT	-20080305ABQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	WDBD	JACKSON MS	371.3	CP	BPCDT	-20080401ATJ
40	WDBD	JACKSON MS	371.3	PLN	DTVPLN	-DTVP1443

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 40   KXTX-TV  DALLAS TX                410.6  LIC    BLCDT     -20021106ABR
 40   KXTX-TV  DALLAS TX                410.6  PLN    DTVPLN    -DTVP1453
 41   KBCA     ALEXANDRIA LA            114.2  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            113.9  CP     BPCDT     -20080502AAI
 41   KAZH     BAYTOWN TX               202.7  CP     BPCDT     -19991101ADZ
 41   KAZH     BAYTOWN TX               202.7  PLN    DTVPLN    -DTVP1485
 41   KBCA-DT  ALEXANDRIA LA            113.9  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   3


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   40      KBTV-TV    PORT ARTHUR TX            DTVPLN    -DTVP1455

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 40   WDBD     JACKSON MS               412.0  CP     BPCDT     -20080401ATJ
 40   WDBD     JACKSON MS               412.0  PLN    DTVPLN    -DTVP1443
 40   KXTX-TV  DALLAS TX                391.2  LIC    BLCDT     -20021106ABR
 40   KXTX-TV  DALLAS TX                391.2  PLN    DTVPLN    -DTVP1453
 41   KBCA     ALEXANDRIA LA            155.0  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            154.7  CP     BPCDT     -20080502AAI
 41   KAZH     BAYTOWN TX               160.6  CP     BPCDT     -19991101ADZ
 41   KAZH     BAYTOWN TX               160.6  PLN    DTVPLN    -DTVP1485
 41   KBCA-DT  ALEXANDRIA LA            154.7  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   4


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   41      KBTR-CA    BATON ROUGE LA            BLTTA     -20041201CAF

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 34   WVLA     BATON ROUGE LA            19.5  LIC    BLCDT     -20051221AOO
 34   WVLA     BATON ROUGE LA            19.5  PLN    DTVPLN    -DTVP1253
 41   WIIQ     DEMOPOLIS AL             375.6  LIC    BLET      -20040120ACY
 41   WEIQ     MOBILE AL                310.9  LIC    BLEDT     -20030430AAX
 41   WEIQ     MOBILE AL                310.9  PLN    DTVPLN    -DTVP1461
 41   KBCA     ALEXANDRIA LA            151.1  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            151.4  CP     BPCDT     -20080502AAI
 41   KBCA     ALEXANDRIA LA            151.4  LIC    BLCT      -20050728AMI
 41   WUFX     VICKSBURG MS             214.2  PLN    DTVPLN    -DTVP1478
 42   KGLA-DT  HAMMOND LA               125.9  LIC    BLCDT     -20070605ABE
 42   KGLA-DT  HAMMOND LA               125.9  PLN    DTVPLN    -DTVP1505
 43   WDSU     NEW ORLEANS LA           125.7  PLN    DTVPLN    -DTVP1538
 43   WDSU     NEW ORLEANS LA           125.7  CP MOD BMPCDT    -20080207AAP
 45   WGMB     BATON ROUGE LA            19.5  LIC    BLCDT     -20060103ACW
 45   WGMB     BATON ROUGE LA            19.5  PLN    DTVPLN    -DTVP1615
 49   WNTZ     NATCHEZ MS               145.6  LIC    BLCDT     -20060630AAV
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 49   WNTZ     NATCHEZ MS               145.6  PLN    DTVPLN    -DTVP1744
 41   KBCA-DT  ALEXANDRIA LA            151.4  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   5


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   41      WUFX       VICKSBURG MS              DTVPLN    -DTVP1478

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 40   WDBD     JACKSON MS                25.4  CP     BPCDT     -20080401ATJ
 40   WDBD     JACKSON MS                25.4  PLN    DTVPLN    -DTVP1443
 41   WEIQ     MOBILE AL                317.9  LIC    BLEDT     -20030430AAX
 41   WEIQ     MOBILE AL                317.9  PLN    DTVPLN    -DTVP1461
 41   KBCA     ALEXANDRIA LA            246.8  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            247.1  CP     BPCDT     -20080502AAI
 41   WBUY-TV  HOLLY SPRINGS MS         308.2  CP     BPCDT     -20080307ACA
 41   WBUY-TV  HOLLY SPRINGS MS         308.2  PLN    DTVPLN    -DTVP1477
 41   WBUY-TV  HOLLY SPRINGS MS         308.2  LIC    BLCDT     -20060320AEN
 41   KBCA-DT  ALEXANDRIA LA            247.1  APP    USERRECORD-01

 Total scenarios =   24


Result key:        1
Scenario        1  Affected station        5
Before Analysis

Results for: 41A MS VICKSBURG            DTVPLN    DTVP1478     PLN
   HAAT  253.0 m, ATV ERP  208.7 kW
                                      POPULATION   AREA (sq km)
   within Noise Limited Contour      532061      14830.1
   not affected by terrain losses    531917      14797.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       85983       2962.8
   lost to ATV IX only                85983       2962.8
   lost to all IX                     85983       2962.8

 Potential Interfering Stations Included in above Scenario     1

40A MS JACKSON              BPCDT     20080401ATJ  CP
41A AL MOBILE               BLEDT     20030430AAX  LIC
41A LA ALEXANDRIA           DTVPLN    DTVP1473     PLN
41A MS HOLLY SPRINGS        BPCDT     20080307ACA  CP

After Analysis

Results for: 41A MS VICKSBURG            DTVPLN    DTVP1478     PLN
   HAAT  253.0 m, ATV ERP  208.7 kW
                                      POPULATION   AREA (sq km)
   within Noise Limited Contour      532061      14830.1
   not affected by terrain losses    531917      14797.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       86161       2995.1
   lost to ATV IX only                86161       2995.1
```

Table 1 KBCA-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 6)

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   lost to all IX                     86161       2995.1

 Potential Interfering Stations Included in above Scenario     1

40A MS JACKSON              BPCDT     20080401ATJ  CP
41A AL MOBILE               BLEDT     20030430AAX  LIC
41A LA ALEXANDRIA           DTVPLN    DTVP1473     PLN
41A MS HOLLY SPRINGS        BPCDT     20080307ACA  CP
41A LA ALEXANDRIA           USERRECORD01           APP

Percent new IX =    0.0399%

Worst case new IX    0.0399% Scenario      1

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     Analysis of Interference to Affected Station   6


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   41      KAZH       BAYTOWN TX               BPCDT     -19991101ADZ

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 40   KBTV-TV  PORT ARTHUR TX           202.7  CP MOD BMPCDT    -20080305ABQ
 40   KBTV-TV  PORT ARTHUR TX           160.6  PLN    DTVPLN    -DTVP1455
 41   KBCA     ALEXANDRIA LA            314.6  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            314.3  CP     BPCDT     -20080502AAI
 41   KXAS-TV  FORT WORTH TX            362.7  LIC    BLCDT     -19981125KG
 41   KXAS-TV  FORT WORTH TX            362.8  PLN    DTVPLN    -DTVP1486
 41   KWEX-TV  SAN ANTONIO TX           267.8  CP     BPCDT     -20080313ACM
 41   KWEX-TV  SAN ANTONIO TX           267.8  PLN    DTVPLN    -DTVP1487
 42   KTBU     CONROE TX                  1.0  LIC    BLCDT     -20050103AJA
 42   KTBU     CONROE TX                  1.0  PLN    DTVPLN    -DTVP1518
 41   KBCA-DT  ALEXANDRIA LA            314.3  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   7


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   41      KAZH       BAYTOWN TX               DTVPLN    -DTVP1485

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 40   KBTV-TV  PORT ARTHUR TX           202.7  CP MOD BMPCDT    -20080305ABQ
 40   KBTV-TV  PORT ARTHUR TX           160.6  PLN    DTVPLN    -DTVP1455
 41   KBCA     ALEXANDRIA LA            314.6  PLN    DTVPLN    -DTVP1473
 41   KBCA     ALEXANDRIA LA            314.3  CP     BPCDT     -20080502AAI
 41   KXAS-TV  FORT WORTH TX            362.7  LIC    BLCDT     -19981125KG
 41   KXAS-TV  FORT WORTH TX            362.8  PLN    DTVPLN    -DTVP1486
 41   KWEX-TV  SAN ANTONIO TX           267.8  CP     BPCDT     -20080313ACM
 41   KWEX-TV  SAN ANTONIO TX           267.8  PLN    DTVPLN    -DTVP1487
 42   KTBU     CONROE TX                  1.0  LIC    BLCDT     -20050103AJA
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Table 1 KBCA-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 6)

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 42   KTBU     CONROE TX                  1.0  PLN    DTVPLN    -DTVP1518
 41   KBCA-DT  ALEXANDRIA LA            314.3  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   8


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   41      KBCA-DT    ALEXANDRIA LA            USERRECORD-01

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 40   KBTV-TV  PORT ARTHUR TX           113.9  CP MOD BMPCDT    -20080305ABQ
 40   KBTV-TV  PORT ARTHUR TX           154.7  PLN    DTVPLN    -DTVP1455
 41   WUFX     VICKSBURG MS             247.1  PLN    DTVPLN    -DTVP1478
 41   KAZH     BAYTOWN TX               314.3  CP     BPCDT     -19991101ADZ
 41   KAZH     BAYTOWN TX               314.3  PLN    DTVPLN    -DTVP1485

 Total scenarios =   1


Result key:       25
Scenario        1  Affected station        8
Before Analysis

Results for: 41A LA ALEXANDRIA           USERRECORD01           APP
   HAAT  303.0 m, ATV ERP 1000.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour      455839      23080.2
   not affected by terrain losses    455819      23047.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV           0          0.0
   lost to ATV IX only                    0          0.0
   lost to all IX                         0          0.0

 Potential Interfering Stations Included in above Scenario     1


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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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SECTION III-D - DTV Engineering

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

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to 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.

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.

1.	The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:		
	(a)	It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	(●) Yes ( ) No
	(b)	It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(c)	It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(d)	It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	( ) Yes (●) No ( ) N/A
	(e)	It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	(●) Yes ( ) No ( ) N/A
2.	The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of 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.		(●) Yes ( ) 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.		(●) Yes ( ) No
4.	The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.		(●) Yes ( ) No
5.	The antenna structure to be used by this facility has been registered by the Commission and will not require 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.		(●) Yes ( ) No

SECTION III-D - DTV Engineering

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

TECH BOX

1.	Channel Number: DTV 41 Analog TV, if any 41	
2.	Zone: ( ) I ( ) II (●) III	
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 30 Minutes 54 Seconds 17 (●) North ( ) South Longitude: Degrees 92 Minutes 37 Seconds 28 (●) West ( ) East	
4.	Antenna Structure Registration Number: 1231316 ☐ Not Applicable ☐ Notification filed with FAA	
5.	Antenna Location Site Elevation Above Mean Sea Level:	43.3 meters
6.	Overall Tower Height Above Ground Level:	304.8 meters
7.	Height of Radiation Center Above Ground Level:	297.2 meters
8.	Height of Radiation Center Above Average Terrain :	302.7 meters

9. Maximum Effective Radiated Power (average power): 1000 kW

10. Antenna Specifications:

a. Manufacturer ERI Model ATW30H3-HTC4-41H

b. Electrical Beam Tilt:
0.75 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 42]

d. Polorization:
◉ Horizontal ○ Circular ○ Elliptical

e. Directional Antenna Relative Field Values: ☐ 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]

10e. Directional Antenna Relative Field Values

[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]

e. Directional Antenna Relative Field Values:

Rotation (Degrees): 0 ☑ No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.956	10	0.989	20	1	30	0.989	40	0.956	50	0.907
60	0.848	70	0.785	80	0.723	90	0.667	100	0.612	110	0.554
120	0.489	130	0.413	140	0.328	150	0.247	160	0.2	170	0.214
180	0.262	190	0.306	200	0.322	210	0.306	220	0.262	230	0.214
240	0.2	250	0.247	260	0.328	270	0.413	280	0.489	290	0.554
300	0.612	310	0.667	320	0.723	330	0.785	340	0.848	350	0.907
Additional Azimuths											

Relative Field Polar Plot

If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.** [Exhibit 43]

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 [Exhibit 44]

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

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 45]

13. **Environmental Protection Act. Submit in an Exhibit** the following: [Exhibit 46]

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.

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 6/14/2008	
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	

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).

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.