

## **ENGINEERING EXHIBIT**

# **“Maximization” Application to Modify Post-Transition Digital Television Station Construction Permit**

prepared for

### **Wilderness Communications, LLC**

KLWB-DT New Iberia, LA

Facility ID 82476

Ch. 50 1000 kW 303 m

*Wilderness Communications, LLC (“Wilderness”)* is the licensee of television station KLWB(TV), analog Channel 50, New Iberia, LA. A Construction Permit (“CP”, BPCDT-20080502AAH) authorizes construction of the KLWB-DT post-transition digital facility on Channel 50, 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 KLWB-DT post-transition Channel 50 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.<sup>1</sup>

The current CP authorizes operation with an effective radiated power (“ERP”) of 195 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 50 operation will employ the existing directional antenna system licensed for KLWB’s analog Channel 50. The antenna is top-mounted on the existing KLWB antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1240294. No change to the overall structure height and no tower work are required to carry out this proposal.

---

<sup>1</sup>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 KLWB-DT antenna system is a Dielectric model TFU-31JTH 6T180. The directional antenna's azimuthal pattern is depicted in **Figure 1**. **Figures 2** and **2A** provide the theoretical vertical plane (elevation) pattern<sup>2</sup>.

A map is supplied as **Figure 3**, which depicts the standard predicted coverage contours. This map includes the boundaries of New Iberia, KLWB-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 KLWB-DT facility's predicted service population provides a 143.5 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	767,950	1,146,847
Not affected by terrain losses	767,950	1,146,847
Lost to all interference	0	45,166
Net DTV Service	<b>767,950</b>	<b>1,101,681</b>
Match of Appendix B	---	<b>143.46%</b>

A detailed interference study per OET Bulletin 69<sup>3</sup> 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 660 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

<sup>2</sup> 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.

<sup>3</sup>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 10 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  $3.7 \mu\text{W}/\text{cm}^2$ , which is 0.8 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**  
11993 Kahns Road  
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.*



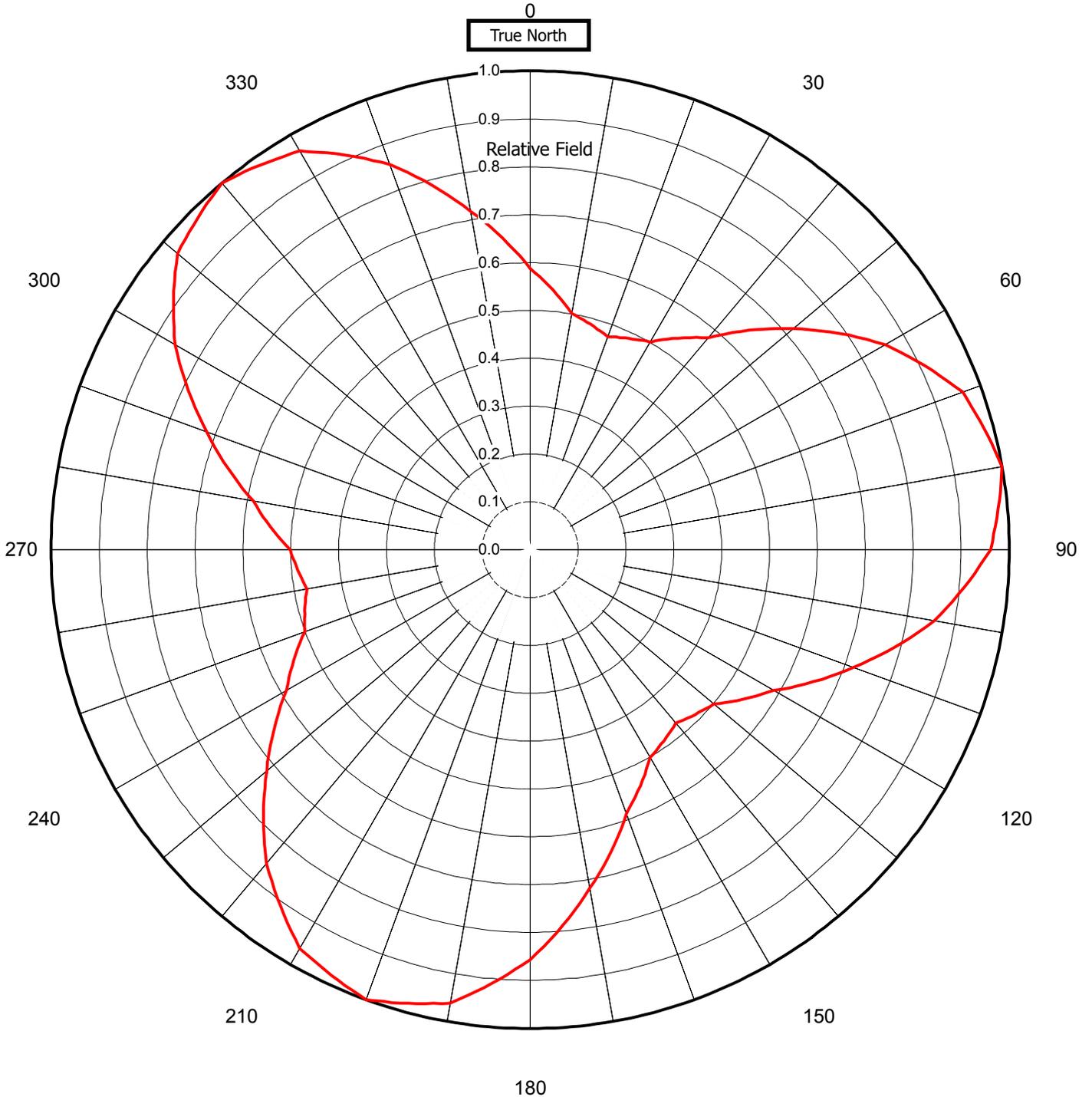
Proposal Number **DCA-10757** Revision: **1**  
Date **27-Apr-05**  
Call Letters **KACB** Channel **50**  
Location **New Iberia, LA**  
Customer  
Antenna Type **TFU-31JTH 6T180**

**Figure 1**  
**Antenna Horizontal**  
**Plane Pattern**

**AZIMUTH PATTERN**

Gain **1.80** (**2.55 dB**)  
Calculated / Measured **Calculated**

Frequency **689.00 MHz**  
Drawing # **TFU-6T180-50**

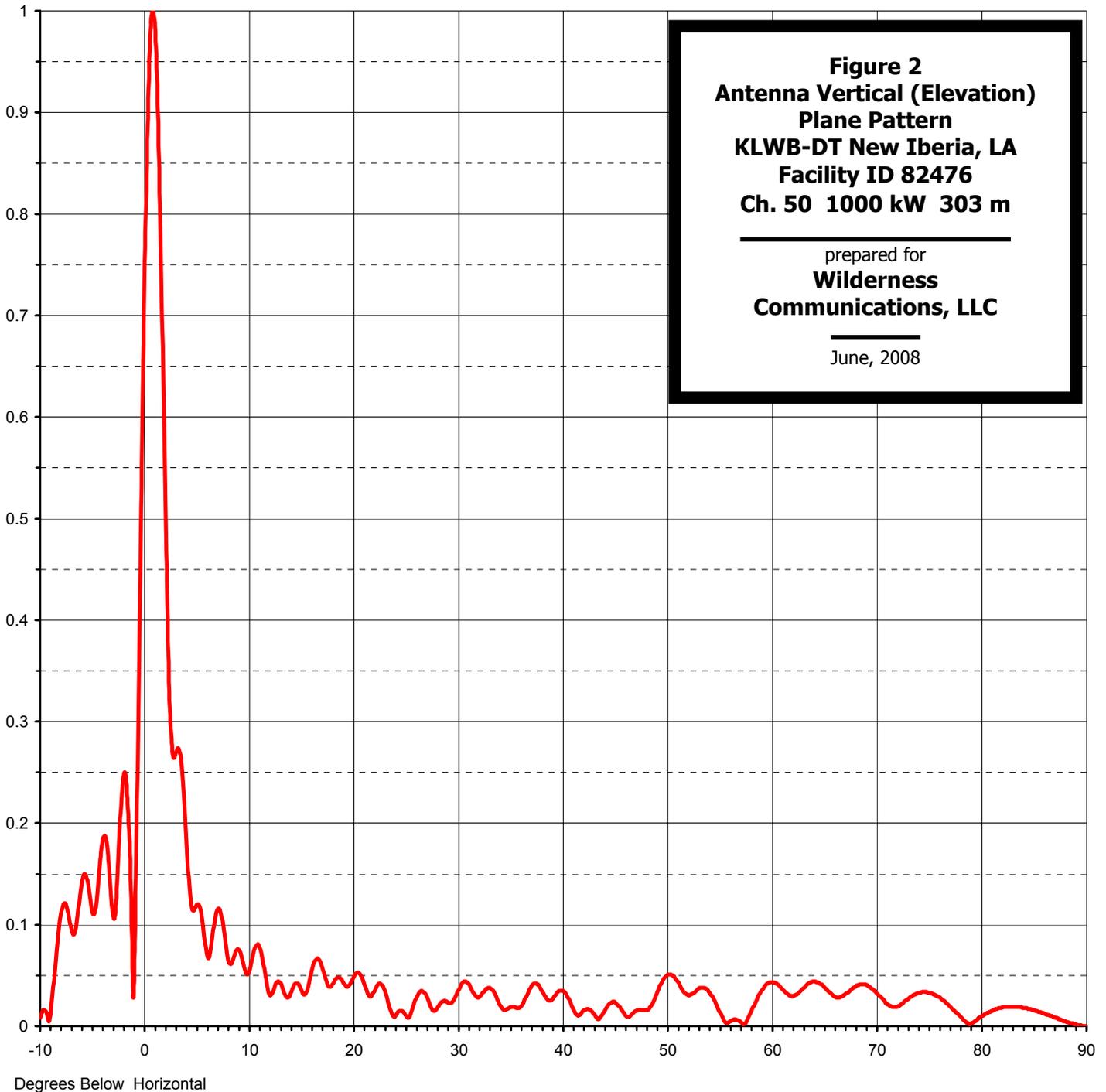




Proposal Number **DCA-10757** Revision: **1**  
Date **27-Apr-05**  
Call Letters **KACB** Channel **50**  
Location **New Iberia, LA**  
Customer  
Antenna Type **TFU-31JTH 6T180**

### ELEVATION PATTERN

RMS Gain at Main Lobe **30.00 ( 14.77 dB )** Beam Tilt **0.75 deg**  
RMS Gain at Horizontal **17.00 ( 12.30 dB )** Frequency **689.00 MHz**  
Calculated / Measured **Calculated** Drawing # **31J300075-90**

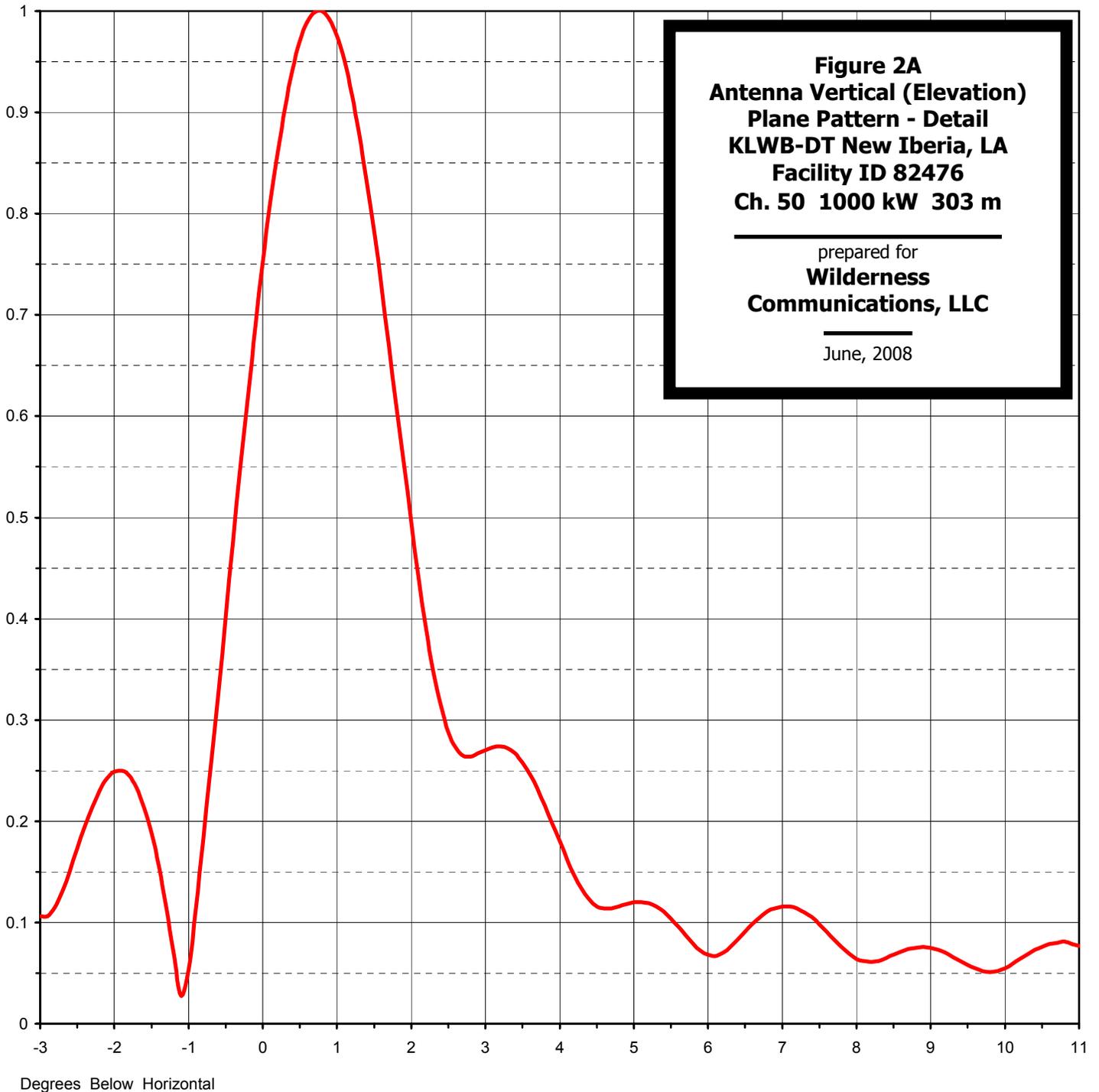




Proposal Number **DCA-10757** Revision: **1**  
Date **27-Apr-05**  
Call Letters **KACB** Channel **50**  
Location **New Iberia, LA**  
Customer  
Antenna Type **TFU-31JTH 6T180**

### ELEVATION PATTERN

RMS Gain at Main Lobe **30.00 ( 14.77 dB )** Beam Tilt **0.75 deg**  
RMS Gain at Horizontal **17.00 ( 12.30 dB )** Frequency **689.00 MHz**  
Calculated / Measured **Calculated** Drawing # **31J300075**



Degrees Below Horizontal

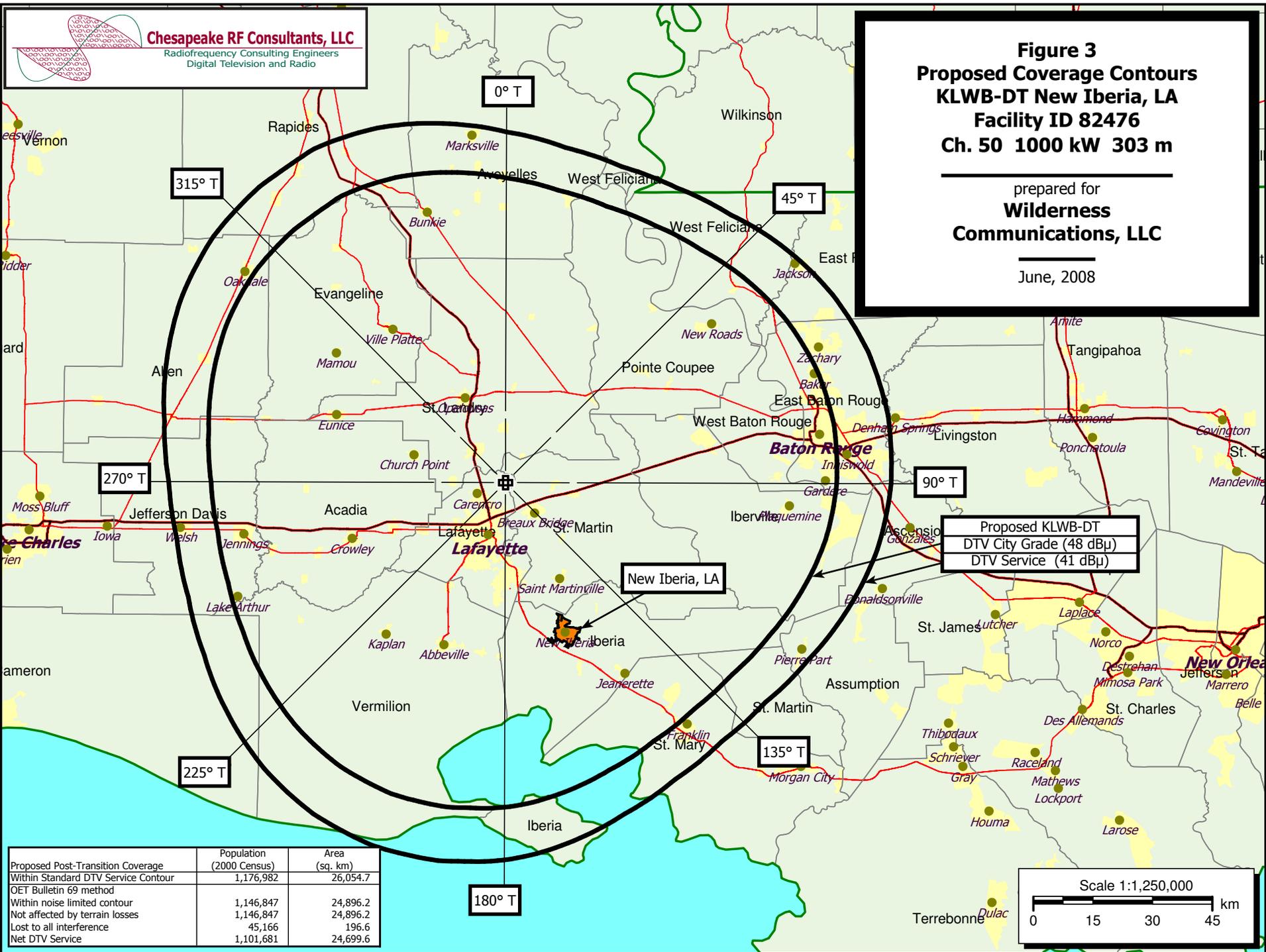
**Figure 3**  
**Proposed Coverage Contours**  
**KLWB-DT New Iberia, LA**  
**Facility ID 82476**  
**Ch. 50 1000 kW 303 m**

---

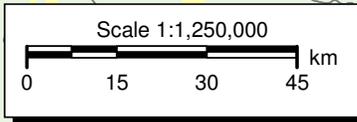
prepared for  
**Wilderness**  
**Communications, LLC**

---

June, 2008



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	1,176,982	26,054.7
OET Bulletin 69 method		
Within noise limited contour	1,146,847	24,896.2
Not affected by terrain losses	1,146,847	24,896.2
Lost to all interference	45,166	196.6
Net DTV Service	1,101,681	24,699.6



**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 1 of 9)

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: 19:02:24

Record Selected for Analysis

KLWB-DT USERRECORD-01 NEW IBERIA LA US  
Channel 50 ERP 1000. kW HAAT 303. m RCAMSL 00311 m  
Latitude 030-20-32 Longitude 0091-58-32  
Status APP Zone 3 Border  
Dir Antenna Make CDB Model 00000000086371 Beam tilt N Ref Azimuth 0.

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	344.569	304.9	87.8
45.0	419.904	305.9	89.6
90.0	923.521	306.1	96.8
135.0	237.169	305.7	84.9
180.0	732.736	306.1	94.7
225.0	619.369	298.8	92.2
270.0	251.001	297.7	84.3
315.0	961.380	297.5	96.2

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

Channel	Proposed Station Call	Proposed Station City/State	ARN
50	KLWB-DT	NEW IBERIA LA	USERRECORD01

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 2 of 9)

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
46	WBXH-CA	BATON ROUGE LA	77.2	LIC	BLTTL	-19900410IC
49	WNTZ	NATCHEZ MS	149.9	LIC	BLCDDT	-20060630AAV
49	WNTZ	NATCHEZ MS	149.9	PLN	DTVPLN	-DTVPI744
49	WNTZ	NATCHEZ MS	198.4	APP	BMPCDDT	-20011116ABJ
50	WFGX	FORT WALTON BEACH FL	415.9	APP	BMPCDDT	-20051108AFS
50	WPXL	NEW ORLEANS LA	193.3	LIC	BLCDDT	-20040408ABR
50	WPXL	NEW ORLEANS LA	193.3	PLN	DTVPLN	-DTVPI768
50	KBXS-CA	SHREVEPORT LA	294.2	LIC	BLTTA	-20030718ADM
50	KBTX-TV	BRYAN TX	389.3	CP MOD	BMPCDDT	-20080228ABF
50	KBTX-TV	BRYAN TX	389.3	PLN	DTVPLN	-DTVPI779

\*\*\*\*\*

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	WBXH-CA	BATON ROUGE LA	BLTTL	-19900410IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	KGLA-DT	HAMMOND LA	142.8	LIC	BLCDDT	-20070605ABE
42	KGLA-DT	HAMMOND LA	142.8	PLN	DTVPLN	-DTVPI505
43	WDSU	NEW ORLEANS LA	143.0	PLN	DTVPLN	-DTVPI538
43	WDSU	NEW ORLEANS LA	143.0	CP MOD	BMPCDDT	-20080207AAP
44	WGMB	BATON ROUGE LA	32.2	LIC	BLCT	-19910813KF
45	WGMB	BATON ROUGE LA	32.2	LIC	BLCDDT	-20060103ACW
45	WGMB	BATON ROUGE LA	32.2	PLN	DTVPLN	-DTVPI1615
46	KLAF-LP	LAFAYETTE LA	92.8	LIC	BLTT	-19970515JC
46	960920LV	WIGGINS MS	205.2	APP	BPCT	-19960920LV
46	NEW	WIGGINS MS	196.9	LIC	BPRM	-20020308ABU
48	WNTZ	NATCHEZ MS	143.6	CP	BPCT	-20011115AAF
49	WPXL	NEW ORLEANS LA	139.4	LIC	BLCT	-20040412ACY
49	WNTZ	NATCHEZ MS	125.1	LIC	BLCDDT	-20060630AAV
49	WNTZ	NATCHEZ MS	125.1	PLN	DTVPLN	-DTVPI744
49	WNTZ	NATCHEZ MS	143.6	APP	BMPCDDT	-20011116ABJ
50	NEW	NEW IBERIA LA	92.6	LIC	BPRM	-20020308ABY
50	KLWB	NEW IBERIA LA	77.2	PLN	DTVPLN	-DTVPI767
50	KLWB	NEW IBERIA LA	77.2	CP	BPCDDT	-20080502AAH
50	KLWB	NEW IBERIA LA	77.2	LIC	BLCT	-20060316ACO
50	WPXL	NEW ORLEANS LA	139.4	LIC	BLCDDT	-20040408ABR
50	WPXL	NEW ORLEANS LA	139.4	PLN	DTVPLN	-DTVPI768
50	KLWB-DT	NEW IBERIA LA	77.2	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

\*\*\*\*\*

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WNTZ	NATCHEZ MS	BLCDDT	-20060630AAV

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 9)

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KKYK-DT	CAMDEN AR	201.9	PLN	DTVPLN	-DTVPL1728
49	KKYK-DT	CAMDEN AR	201.8	CP	BPCDT	-20050224ABE
50	KLWB	NEW IBERIA LA	149.9	PLN	DTVPLN	-DTVPL1767
50	KLWB	NEW IBERIA LA	149.9	CP	BPCDT	-20080502AAH
50	KLWB-DT	NEW IBERIA LA	149.9	APP	USERRECORD-01	

Total scenarios = 2

Result key: 2  
Scenario 2 Affected station 2  
Before Analysis

Results for: 49A MS NATCHEZ			
HAAT	313.0 m, ATV ERP 1000.0 kW	BLCDDT	20060630AAV LIC
		POPULATION	AREA (sq km)
within Noise Limited Contour		340992	24457.7
not affected by terrain losses		340235	24389.6
lost to NTSC IX		0	0.0
lost to additional IX by ATV		1456	284.7
lost to ATV IX only		1456	284.7
lost to all IX		1456	284.7

Potential Interfering Stations Included in above Scenario 2

49A AR CAMDEN BPCDT 20050224ABE CP

After Analysis

Results for: 49A MS NATCHEZ			
HAAT	313.0 m, ATV ERP 1000.0 kW	BLCDDT	20060630AAV LIC
		POPULATION	AREA (sq km)
within Noise Limited Contour		340992	24457.7
not affected by terrain losses		340235	24389.6
lost to NTSC IX		0	0.0
lost to additional IX by ATV		1473	304.7
lost to ATV IX only		1473	304.7
lost to all IX		1473	304.7

Potential Interfering Stations Included in above Scenario 2

49A AR CAMDEN BPCDT 20050224ABE CP  
50A LA NEW IBERIA USERRECORD01 APP

Percent new IX = 0.0050%

Worst case new IX 0.0050% Scenario 2

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WNTZ	NATCHEZ MS	DTVPLN	-DTVPL1744

Stations Potentially Affecting This Station

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 4 of 9)

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KKYK-DT	CAMDEN AR	201.9	PLN	DTVPLN	-DTVPL1728
49	KKYK-DT	CAMDEN AR	201.8	CP	BPCDT	-20050224ABE
50	KLWB	NEW IBERIA LA	149.9	PLN	DTVPLN	-DTVPL1767
50	KLWB	NEW IBERIA LA	149.9	CP	BPCDT	-20080502AAH
50	KLWB-DT	NEW IBERIA LA	149.9	APP	USERRECORD-01	

Total scenarios = 2

Result key: 4  
Scenario 2 Affected station 3  
Before Analysis

Results for: 49A MS NATCHEZ			
HAAT	313.0 m, ATV ERP 1000.0 kW	DTVPLN	DTVP1744 PLN
		POPULATION	AREA (sq km)
within Noise Limited Contour		340992	24457.7
not affected by terrain losses		340235	24389.6
lost to NTSC IX		0	0.0
lost to additional IX by ATV		1456	284.7
lost to ATV IX only		1456	284.7
lost to all IX		1456	284.7

Potential Interfering Stations Included in above Scenario 2

49A AR CAMDEN BPCDT 20050224ABE CP

After Analysis

Results for: 49A MS NATCHEZ			
HAAT	313.0 m, ATV ERP 1000.0 kW	DTVPLN	DTVP1744 PLN
		POPULATION	AREA (sq km)
within Noise Limited Contour		340992	24457.7
not affected by terrain losses		340235	24389.6
lost to NTSC IX		0	0.0
lost to additional IX by ATV		1473	304.7
lost to ATV IX only		1473	304.7
lost to all IX		1473	304.7

Potential Interfering Stations Included in above Scenario 2

49A AR CAMDEN BPCDT 20050224ABE CP  
50A LA NEW IBERIA USERRECORD01 APP

Percent new IX = 0.0050%

Worst case new IX 0.0050% Scenario 2

#####

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WNTZ	NATCHEZ MS	BMPCDT	-2001116ABJ

Stations Potentially Affecting This Station

Chan Call City/State Dist(km) Status Application Ref. No.

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 9)

48	WXV-TV	GULFPORT MS	216.0	CP	BPCDT	-19991014ABJ
48	WXV-TV	GULFPORT MS	216.0	PLN	DTVPLN	-DTVPI712
49	KKYK-DT	CAMDEN AR	228.7	PLN	DTVPLN	-DTVPI728
49	KKYK-DT	CAMDEN AR	228.6	CP	BPCDT	-20050224ABE
50	KLWB	NEW IBERIA LA	198.4	PLN	DTVPLN	-DTVPI767
50	KLWB	NEW IBERIA LA	198.4	CP	BPCDT	-20080502AAH
50	KLWB-DT	NEW IBERIA LA	198.4	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WFGX	FORT WALTON BEACH FL	BMPCDT -20051108AFS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	WAWD	FORT WALTON BEACH FL	112.0	PLN	DTVPLN -DTVPI734
49	WAWD	FT. WALTON BEACH FL	111.6	CP	BPCDT -19991105AAL
50	WBRC	BIRMINGHAM AL	329.5	CP	BPCDT -20080314ACG
50	WBRC	BIRMINGHAM AL	329.5	PLN	DTVPLN -DTVPI758
50	WBRC	BIRMINGHAM AL	329.5	LIC	BLCDT -20050825ADM
50	KLWB	NEW IBERIA LA	415.9	PLN	DTVPLN -DTVPI767
50	KLWB	NEW IBERIA LA	415.9	CP	BPCDT -20080502AAH
50	WPXL	NEW ORLEANS LA	241.0	LIC	BLCDT -20040408ABR
50	WPXL	NEW ORLEANS LA	241.0	PLN	DTVPLN -DTVPI768
51	WBIF	MARIANNA FL	206.8	PLN	DTVPLN -DTVPI790
51	WBIF	MARIANNA FL	206.8	CP	BPCDT -20080328ACH
50	KLWB-DT	NEW IBERIA LA	415.9	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WPXL	NEW ORLEANS LA	BLCDT -20040408ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	WFGX	FORT WALTON BEACH FL	296.7	CP MOD	BMPCDT -20040204AAK
50	WFGX	FORT WALTON BEACH FL	296.7	PLN	DTVPLN -DTVPI763
50	WFGX	FORT WALTON BEACH FL	241.0	APP	BMPCDT -20051108AFS
50	KLWB	NEW IBERIA LA	193.3	PLN	DTVPLN -DTVPI767
50	KLWB	NEW IBERIA LA	193.3	CP	BPCDT -20080502AAH
50	KLWB-DT	NEW IBERIA LA	193.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 5

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 9)

Scenario	1	Affected station	6
Before Analysis			
Results for:	50A LA NEW ORLEANS	BLCDT	20040408ABR LIC
HAAT	272.0 m, ATV ERP 1000.0 kW		

	POPULATION	AREA (sq km)
within Noise Limited Contour	1671012	21583.4
not affected by terrain losses	1671012	21583.4
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

After Analysis

Results for:	50A LA NEW ORLEANS	BLCDT	20040408ABR LIC
HAAT	272.0 m, ATV ERP 1000.0 kW		

	POPULATION	AREA (sq km)
within Noise Limited Contour	1671012	21583.4
not affected by terrain losses	1671012	21583.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1672	72.5
lost to ATV IX only	1672	72.5
lost to all IX	1672	72.5

Potential Interfering Stations Included in above Scenario 1

50A LA NEW IBERIA USERRECORD01 APP

Percent new IX = 0.1001%

Worst case new IX 0.1001% Scenario 1

#####

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WPXL	NEW ORLEANS LA	DTVPLN -DTVPI768

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	WFGX	FORT WALTON BEACH FL	296.7	CP MOD	BMPCDT -20040204AAK
50	WFGX	FORT WALTON BEACH FL	296.7	PLN	DTVPLN -DTVPI763
50	WFGX	FORT WALTON BEACH FL	241.0	APP	BMPCDT -20051108AFS
50	KLWB	NEW IBERIA LA	193.3	PLN	DTVPLN -DTVPI767
50	KLWB	NEW IBERIA LA	193.3	CP	BPCDT -20080502AAH
50	KLWB-DT	NEW IBERIA LA	193.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 6

Scenario 1 Affected station 7

Before Analysis

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 7 of 9)

Results for: 50A LA NEW ORLEANS DTVPLN DTVP1768 PLN  
 HAAT 272.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1671012	21583.4
not affected by terrain losses	1671012	21583.4
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

After Analysis

Results for: 50A LA NEW ORLEANS DTVPLN DTVP1768 PLN  
 HAAT 272.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1671012	21583.4
not affected by terrain losses	1671012	21583.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1672	72.5
lost to ATV IX only	1672	72.5
lost to all IX	1672	72.5

Potential Interfering Stations Included in above Scenario 1

50A LA NEW IBERIA USERRECORD01 APP

Percent new IX = 0.1001%

Worst case new IX 0.1001% Scenario 1

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KXKS-CA	SHREVEPORT LA	BLTTA -20030718ADM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KKYK-DT	CAMDEN AR	128.9	LIC	BLCT -20000412ADA
49	KKYK-DT	CAMDEN AR	128.9	PLN	DTVPLN -DTVP1728
49	KKYK-DT	CAMDEN AR	128.8	CP	BPCDT -20050224ABE
50	K50EK	EL DORADO AR	128.9	LIC	BLTTL -20001130ABL
50	KTSS-LP	HOPE AR	128.4	LIC	BLTTL -20020311AAR
50	NEW	NEW IBERIA LA	344.4	LIC	BPRM -20020308ABY
50	KLWB	NEW IBERIA LA	294.2	PLN	DTVPLN -DTVP1767
50	KLWB	NEW IBERIA LA	294.2	CP	BPCDT -20080502AAH
50	KLWB	NEW IBERIA LA	294.2	LIC	BLCT -20060316ACO
50	KBTX-TV	BRYAN TX	306.8	CP MOD	BMPCDT -20080228ABF
50	KBTX-TV	BRYAN TX	306.8	PLN	DTVPLN -DTVP1779
51	KFKX	LONGVIEW TX	116.2	LIC	BLCT -19910904KE
54	KCEB	LONGVIEW TX	100.6	LIC	BLCT -20030721ABN
50	KLWB-DT	NEW IBERIA LA	294.2	APP	USERRECORD-01

Proposal causes no interference

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 8 of 9)

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KBTX-TV	BRYAN TX	BMPCDT -20080228ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KNVA	AUSTIN TX	171.4	CP MOD	BMPCDT -20060623AAC
49	KNVA	AUSTIN TX	171.4	PLN	DTVPLN -DTVP1752
49	KNVA	AUSTIN TX	171.4	LIC	BLCTD -20060721ABF
50	KLWB	NEW IBERIA LA	389.3	PLN	DTVPLN -DTVP1767
50	KLWB	NEW IBERIA LA	389.3	CP	BPCDT -20080502AAH
50	KLWB-DT	NEW IBERIA LA	389.3	APP	USERRECORD-01

Total scenarios = 3

Result key: 8

Scenario 2 Affected station 9  
 Before Analysis

Results for: 50A TX BRYAN BMPCDT 20080228ABF CP

HAAT 507.0 m, ATV ERP 790.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2871898	36114.8
not affected by terrain losses	2871416	35998.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	380	68.1
lost to ATV IX only	380	68.1
lost to all IX	380	68.1

Potential Interfering Stations Included in above Scenario 2

49A TX AUSTIN DTVPLN DTVP1752 PLN

After Analysis

Results for: 50A TX BRYAN BMPCDT 20080228ABF CP

HAAT 507.0 m, ATV ERP 790.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2871898	36114.8
not affected by terrain losses	2871416	35998.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	538	76.1
lost to ATV IX only	538	76.1
lost to all IX	538	76.1

Potential Interfering Stations Included in above Scenario 2

49A TX AUSTIN DTVPLN DTVP1752 PLN  
 50A LA NEW IBERIA USERRECORD01 APP

Percent new IX = 0.0055%

Worst case new IX 0.0055% Scenario 2

**Table 1 KLWB-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 9 of 9)

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	KBTX-TV	BRYAN TX	DTVPLN	-DTV1779

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KNVA	AUSTIN TX	171.4	CP MOD	BMPCDT	-20060623AAC
49	KNVA	AUSTIN TX	171.4	PLN	DTVPLN	-DTV1752
49	KNVA	AUSTIN TX	171.4	LIC	BLCDT	-20060721ABF
50	KLWB	NEW IBERIA LA	389.3	PLN	DTVPLN	-DTV1767
50	KLWB	NEW IBERIA LA	389.3	CP	BPCDT	-20080502AAH
50	KLWB-DT	NEW IBERIA LA	389.3	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	KLWB-DT	NEW IBERIA LA	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WNTZ	NATCHEZ MS	149.9	LIC	BLCDT	-20060630AAV
49	WNTZ	NATCHEZ MS	149.9	PLN	DTVPLN	-DTV1744
49	WNTZ	NATCHEZ MS	198.4	APP	BMPCDT	-20011116ABJ
50	WFGX	FORT WALTON BEACH FL	415.9	APP	BMPCDT	-20051108AFS
50	WPXL	NEW ORLEANS LA	193.3	LIC	BLCDT	-20040408ABR
50	WPXL	NEW ORLEANS LA	193.3	PLN	DTVPLN	-DTV1768
50	KBTX-TV	BRYAN TX	389.3	CP MOD	BMPCDT	-20080228ABF
50	KBTX-TV	BRYAN TX	389.3	PLN	DTVPLN	-DTV1779

Total scenarios = 2

Result key: 11

Scenario 2 Affected station 11  
Before Analysis

Results for: 50A LA NEW IBERIA USERRECORD01 APP

HAAT 303.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1146847	24896.2
not affected by terrain losses	1146847	24896.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	45166	196.6
lost to ATV IX only	45166	196.6
lost to all IX	45166	196.6

Potential Interfering Stations Included in above Scenario 2

50A LA NEW ORLEANS DTVPLN DTV1768 PLN

#####

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.**

**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.	<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 <b>submit the Exhibit</b> 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 50 Analog TV, if any 50
2.	Zone: <input type="radio"/> I <input type="radio"/> II <input checked="" type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 30 Minutes 20 Seconds 32 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 91 Minutes 58 Seconds 32 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1240294 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 7 meters
6.	Overall Tower Height Above Ground Level: 312.7 meters
7.	Height of Radiation Center Above Ground Level: 304.3 meters
8.	Height of Radiation Center Above Average Terrain : 303.1 meters

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

10. Antenna Specifications:

a. Manufacturer DIE Model TFU-31JTH 6T180

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. Polarization:  
 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	0.587	10	0.501	20	0.473	30	0.501	40	0.578	50	0.718
60	0.856	70	0.961	80	1	90	0.961	100	0.856	110	0.718
120	0.587	130	0.501	140	0.473	150	0.501	160	0.587	170	0.718
180	0.856	190	0.961	200	1	210	0.961	220	0.856	230	0.718
240	0.587	250	0.501	260	0.473	270	0.501	280	0.587	290	0.718
300	0.856	310	0.961	320	1	330	0.961	340	0.856	350	0.718
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.

