

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of WFAA-TV, INC., licensee of WFAA-DT, Channel 9 in Dallas, Texas, in support of this amendment to its Application for Construction Permit BXPCDT-20081118AAS, a proposal to operate a post-transition auxiliary facility on Channel 8, the allotted post-transition DTV channel for WFAA-DT. The purpose of this amendment is to specify an increase in effective radiated power, based on the recent Commission grant of the WFAA-DT maximization application (BMPCDT-20080617ADW). No change in auxiliary transmitter site, antenna model or antenna height is proposed herein.

It is proposed to utilize the existing pre-transition WFAA-DT Channel 9 omnidirectional antenna, which is mounted at the 473-meter level of an existing 481-meter tower. Exhibit B provides an elevation pattern for the licensed antenna, and newly proposed operating parameters are tabulated in Exhibit C. Exhibit D is a map upon which the predicted service contours of the authorized post-transition WFAA-DT facility and the amended auxiliary facility are plotted. As shown, the auxiliary's 36 dBu contour is completely contained within the service contour authorized to WFAA-DT. A power density calculation appears in Exhibit E.

The instant application specifies an ERP of 39.8 kw (omnidirectional) at 527 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various post-transition digital television facilities as they will exist on or before June 12, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

EXHIBIT A

In evaluating the interference effect of this proposal, we have relied upon the V-Soft SunDTV program, which utilizes methodology contained in the FCC's OET Bulletin No. 69 (Longley-Rice-based methodology). In conducting our studies, we employed a cell size of 2.0 kilometers and an increment spacing of 1.0 kilometer along each radial. In addition, we utilized the 2000 U. S. Census.

We include as Exhibit F the post-transition interference study for the WFAA-DT facility recently authorized in BMPCDT-20080617ADW. It shows that the only facility which receives predicted interference above the 0.5 percent threshold is the maximization authorization of KLTU-DT, Channel 7 in Tyler, Texas (BMPCDT-20080619AAU). The owners of WFAA-DT and KLTU-DT have entered into an agreement in which both stations agree to accept this predicted interference situation. Exhibit G is the post-transition interference study for the proposed WFAA-DT auxiliary facility. As shown, the interference to the KLTU-DT maximization facility is less than that caused by the WFAA-DT facility authorized in BMPCDT-20080617ADW.

Therefore, the study concludes that the proposed WFAA-DT auxiliary facility would not contribute more than 0.5% interference (beyond that which is caused by the recently authorized WFAA-DT facility) to the service population of any potentially affected post-transition DTV station. A Longley-Rice interference study also reveals that the proposed WFAA-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station. Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the WFAA-DT site.

EXHIBIT A

However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1011407 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

May 12, 2009



EXHIBIT NO.

Date 06 Nov 2008

Call Letters

Channel 8

Location

Customer

Antenna Type TW-7B8

## ELEVATION PATTERN

RMS Gain at Main Lobe

7.0 (8.45 dB)

Beam Tilt

0.90 Degrees

RMS Gain at Horizontal

6.7 (8.26 dB)

Frequency

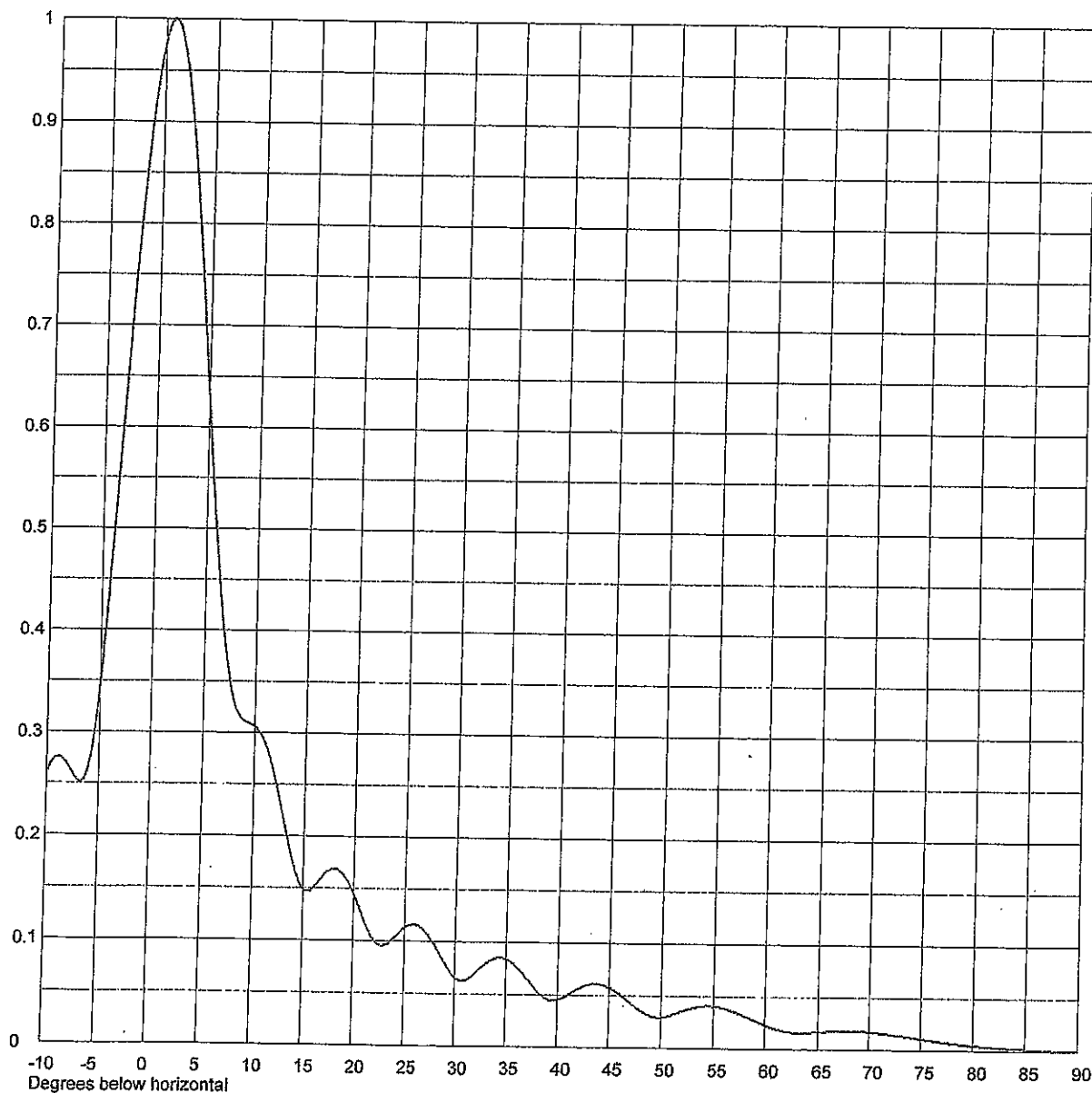
183.00 MHz

Calculated / Measured

Calculated

Drawing #

16W070090-90



Remarks:

**EXHIBIT B****ANTENNA ELEVATION PATTERN**

**PROPOSED WFAA-DT AUXILIARY  
CHANNEL 8 - DALLAS, TEXAS  
[AMENDMENT TO BXPCDT-20081118AAS]**

SMITH AND FISHER

EXHIBIT C

PROPOSED OPERATING PARAMETERS

PROPOSED WFAA-DT AUXILIARY  
CHANNEL 8 – DALLAS, TEXAS

[AMENDMENT TO BXPCDT-20081118AAS]

Transmitter Power Output:	7.4 kw
Transmission Line Efficiency:	77.0%
Antenna Power Gain – Main Lobe:	7.0
Effective Radiated Power – Main Lobe:	39.8 kw

Transmitter Make and Model:	Type-accepted
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Transmission Line Make and Model:	Dielectric EIA/DCA
Size and Type:	6-1/8" rigid
Length:	1600 feet

Antenna:

Make and Model:	Dielectric TW-7B8-R
Orientation	Omnidirectional
Beam Tilt	0.9 degrees
Radiation Center Above Ground:	473 meters
Radiation Center Above Mean Sea Level:	720 meters



**Smith and Fisher**

**MAIN 36 DBU**

**AUXILIARY 36 DBU**

**EXHIBIT D**

**PREDICTED SERVICE CONTOURS**

**PROPOSED WFAA-DT AUXILIARY  
CHANNEL 8 – DALLAS, TEXAS  
[AMENDMENT TO BXPCDT-2008118AAS]**

SMITH AND FISHER

Scale 1:1,400,000  
0 10.0 20.0 30 km



EXHIBIT E

POWER DENSITY CALCULATION  
PROPOSED WFAA-DT AUXILIARY  
CHANNEL 8 – DALLAS, TEXAS  
[AMENDMENT TO BXPCDT-20081118AAS]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Dallas facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 39.8 kw, an antenna radiation center 473 meters above ground, and the elevation pattern of the proposed Dielectric antenna, maximum power density two meters above ground of  $0.000018 \text{ mw/cm}^2$  is calculated to occur 924 meters from the base of the tower. Since this is less than 0.1 percent of the  $0.2 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 8 (180-186 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.

EXHIBIT F

INTERFERENCE STUDY  
AUTHORIZED WFAA-DT MAIN  
(BMPCDT-20080617ADW)



# Summary Study

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
Census data selected 2000  
Post Transition Data Base Selected ./data\_files/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-07-2009 Time: 22:19:42

Record Selected for Analysis

WFAA-TV- USERRECORD-01 DALLAS TX US  
Channel 08 ERP 45. kW HAAT 511. m RCAMSL 00704 m  
Latitude 032-35-06 Longitude 0096-58-41  
Status APP Zone 2 Border  
Dir Antenna Make usr Model USRPAT01 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)	36.0 dBu F(50,90) (km)
0.0	45.000	546.8	123.2
45.0	45.000	495.6	120.1
90.0	45.000	495.3	120.1
135.0	45.000	493.6	120.0
180.0	45.000	469.4	118.7
225.0	45.000	523.1	121.6
270.0	45.000	528.8	122.0
315.0	45.000	535.8	122.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WFAA-TV- 08 DALLAS

TX USERRECORD01

and station

SHORT TO: WFAA-TV 08 DALLAS TX BLCT 19900615KG  
032-35- 6 0096-58-41  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: WFAA-TV 08 DALLAS TX DTVPLN DTVP0167  
32 -35-06 96 -58-41  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

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

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#### Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
08	WFAA-TV~	DALLAS TX	USERRECORD01

#### Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KLTV	TYLER TX	164.8	PLN	DTVPLN	-
DTVP0104						
07	KLTV	TYLER TX	164.8	CP MOD	BMPCDT	-
20080619AAU						
08	KWET	CHEYENNE OK	416.0	LIC	BLEDT	-
20060601BMA						
08	KWET	CHEYENNE OK	416.0	PLN	DTVPLN	-
DTVP0155						
08	KJRH	TULSA OK	400.2	PLN	DTVPLN	-
DTVP0156						
08	KJRH	TULSA OK	400.2	CP	BPCDT	-
20080228ABB						
08	KUHT	HOUSTON TX	363.2	PLN	DTVPLN	-
DTVP0168						
08	KUHT	HOUSTON TX	363.2	CP MOD	BMPEDT	-
20080619AJE						
09	KFWD	FORT WORTH TX	1.0	PLN	DTVPLN	-
DTVP0223						
09	KFWD	FORT WORTH TX	1.0	CP	BPCDT	-
20080312ACF						
09	KCEN-TV	TEMPLE TX	147.6	LIC	BLCDT	-
20021010AAB						

09 KCEN-TV TEMPLE TX 147.6 PLN DTVPLN -  
DTVP0227

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Study of this proposal found the following interference problem(s):

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 1

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4625 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 2

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4586 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 3

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4599 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 4

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4560 to BMPCDT

20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 5

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4615 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 6

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4576 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 7

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4588 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 45.00 kW HAAT 511.0 m RCAMSL 704.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 8

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4549 to BMPCDT  
20080619AAU



EXHIBIT G

INTERFERENCE STUDY  
PROPOSED WFAA-DT AUXILIARY

# Summary Study

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
Census data selected 2000  
Post Transition Data Base Selected ./data\_files/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-06-2009 Time: 19:24:47

Record Selected for Analysis

WFAA-DT USERRECORD-01 DALLAS TX US  
Channel 08 ERP 39.8 kW HAAT 527. m RCAMSL 00720 m  
Latitude 032-35-06 Longitude 0096-58-41  
Status APP Zone 2 Border  
Dir Antenna Make usr Model USRPAT01 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)	36.0 dBu F(50,90) (km)
0.0	39.800	562.8	123.1
45.0	39.800	511.6	119.8
90.0	39.800	511.3	119.7
135.0	39.800	509.6	119.7
180.0	39.800	485.4	118.4
225.0	39.800	539.1	121.4
270.0	39.800	544.8	121.8
315.0	39.800	551.8	122.3

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WFAA-DT 08 DALLAS

TX USERRECORD01

and station

SHORT TO: WFAA-TV 08 DALLAS TX BLCT 19900615KG  
032-35- 6 0096-58-41  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: WFAA-TV 08 DALLAS TX DTVPLN DTVP0167  
32 -35-06 96 -58-41  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: WFAA-TV 08 DALLAS TX BSTA 20080612AAM  
032-35- 6 0096-58-41  
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

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

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#### Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
08	WFAA-DT	DALLAS TX	USERRECORD01

#### Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KLTV	TYLER TX	164.8	PLN	DTVPLN	-
DTVP0104						
07	KLTV	TYLER TX	164.8	CP MOD	BMPCDT	-
20080619AAU						
08	KWET	CHEYENNE OK	416.0	LIC	BLEDT	-
20060601BMA						
08	KWET	CHEYENNE OK	416.0	PLN	DTVPLN	-
DTVP0155						
08	KJRH	TULSA OK	400.2	PLN	DTVPLN	-
DTVP0156						
08	KJRH	TULSA OK	400.2	CP	BPCDT	-
20080228ABB						
08	KUHT	HOUSTON TX	363.2	PLN	DTVPLN	-
DTVP0168						
08	KUHT	HOUSTON TX	363.2	CP MOD	BMPEDT	-
20080619AJE						
09	KFWD	FORT WORTH TX	1.0	APP	BMPCDT	-

20080620AKS						
09	KFWD	FORT WORTH TX	1.0	PLN	DTVPLN	-
DTVP0223						
09	KFWD	FORT WORTH TX	1.0	CP	BPCDT	-
20080312ACF						
09	KCEN-TV	TEMPLE TX	147.6	LIC	BLCDT	-
20021010AAB						
09	KCEN-TV	TEMPLE TX	147.6	PLN	DTVPLN	-
DTVP0227						

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Study of this proposal found the following interference problem(s):

The following station failed the de minimis interference criteria.

8D TX DALLAS	USERRECORD01
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m	
Antenna usr USRPAT01	

Due to interference to the following station and scenario: 1

7D TX TYLER	BMPCDT	20080619AAU
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m		
Antenna CDB 9999999999999999		

Percent new interference from proposal: 1.4469 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS	USERRECORD01
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m	
Antenna usr USRPAT01	

Due to interference to the following station and scenario: 2

7D TX TYLER	BMPCDT	20080619AAU
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m		
Antenna CDB 9999999999999999		

Percent new interference from proposal: 1.4431 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS	USERRECORD01
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m	
Antenna usr USRPAT01	

Due to interference to the following station and scenario: 3

7D TX TYLER	BMPCDT	20080619AAU
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m		
Antenna CDB 9999999999999999		

Percent new interference from proposal: 1.4444 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS	USERRECORD01
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m	
Antenna usr USRPAT01	



Due to interference to the following station and scenario: 4  
7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4405 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.  
8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 5  
7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4459 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.  
8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 6  
7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4421 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.  
8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 7  
7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4433 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.  
8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 8  
7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 999999999999999

Percent new interference from proposal: 1.4395 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 9

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 99999999999999

Percent new interference from proposal: 1.4456 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 10

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 99999999999999

Percent new interference from proposal: 1.4430 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 11

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 99999999999999

Percent new interference from proposal: 1.4445 to BMPCDT  
20080619AAU

The following station failed the de minimis interference criteria.

8D TX DALLAS USERRECORD01  
ERP 39.80 kW HAAT 527.0 m RCAMSL 720.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 12

7D TX TYLER BMPCDT 20080619AAU  
ERP 66.00 kW HAAT 300.0 m RCAMSL 420.0 m  
Antenna CDB 99999999999999

Percent new interference from proposal: 1.4419 to BMPCDT  
20080619AAU