

TECHNICAL EXHIBIT
APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
(FCC FILE NO. BPTTL-19980601US)
CLASS A STATION KHPX-LP
FACILITY ID 35911
GEORGETOWN, TEXAS
CH 28 7.4 KW (MAX-DA)

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for modification of the construction permit of Class A TV station KHPX-LP at Georgetown, Texas (Facility ID: 35911; File No. BPTTL-19980601US).¹ Specifically, this application proposes to change transmitter site, increase the antenna radiation center height above mean sea level from 350 meters to 395 meters, decrease the effective radiated power (ERP) from 10 kW to 7.4 kW and modify the antenna system. No other changes are proposed, including no change in channel (28), frequency offset designation (-) or community of license (Georgetown). As detailed below, this application is considered a "minor change" in facilities pursuant to Section 73.3572.

The proposal would not be subject to environmental processing in accordance with Section 1.1306. It is proposed to side-mount the directional antenna on an existing 152 meter supporting structure (Antenna Structure Registration Number 1204250). It is believed that the instant application conforms with all other applicable rules and regulations of the Federal Communications Commission.

Minor Change Application

Figure 1 depicts the authorized and herein proposed 74 dBu contours for KHPX-LP. As indicated, the proposed 74 dBu contour encompasses a portion of the authorized 74 dBu contour. Therefore, the proposed modification is considered a "minor" change in facilities pursuant to Section 73.3572.

¹ Station KHPX-LP's authorized facilities were specified in the application for Class A license, BLTTA-20001207ADO which was granted on January 19, 2001.

Analog TV Broadcast Station Protection

A study has been conducted using the provisions of Section 74.705 which indicates that the proposed KHPX-LP operation will not create prohibited interference to other existing, authorized or proposed NTSC full-power stations with the exception of the licensed operation (BLCT-19910916KE) of KXAM-TV on channel 14 at Llano, Texas (-14 channel sound image taboo). However, based on the provisions of the OET-69 Bulletin as permitted by FCC rules [Section 74.705(e)], including the effect of "masking" by other full-service NTSC and DTV stations, it is believed that KHPX-LP's operation complies with the FCC's interference criteria towards KXAM-TV. Specifically, calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin and a 2 square kilometer grid. The results of the OET Bulletin No. 69 are tabulated on Figure 2 and, as indicated, the proposal complies with the FCC's 0.5% interference threshold towards KXAM-TV.² Therefore, it is believed that the proposed KHPX-LP operation complies with the FCC's interference criteria towards KXAM-TV.

DTV Station and DTV Table of Allotments Protection

Calculations based on OET Bulletin No. 69 indicate that the proposed KHPX-LP operation on channel 28 complies with the FCC's 0.5% interference threshold criteria to all allotted, proposed or actual DTV operating facilities on channels 27, 28 and 29. Figure 3 provides the output of study based on OET-69 Bulletin.

LPTV/TV Translator, Class A and Digital Class A Protection

A study has been conducted which indicates that the KHPX-LP proposal will not create prohibited interference to

² The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed. An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

other existing, authorized or proposed LPTV, TV Translator, Class A and Digital Class A stations.

Land Mobile Station Protection

The proposed KHPX-LP operation does not cause interference to land mobile radio stations (LMRS).

Environmental Considerations

The proposed KHPX-LP television facilities were evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". The power density at the base of the tower was calculated using the appropriate equation on Page 13 of the Bulletin. As shown on Figure 4, the vertical plane field values at depression angles toward the tower base (-60° to -90° elevation) are less than 0.3. Therefore, using a greater than expected vertical relative field value of 0.3, a maximum visual effective radiated power of 7.4 kilowatts and 10 percent aural power, the calculated power density at 2 meters above ground level at the base of the tower is 0.0006 milliwatt per square centimeter (mW/cm^2), or less than 5 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas ($0.37 \text{ mW}/\text{cm}^2$ for TV channel 28). Therefore, based on the new responsibility threshold of 5%, the proposal will comply with the new RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

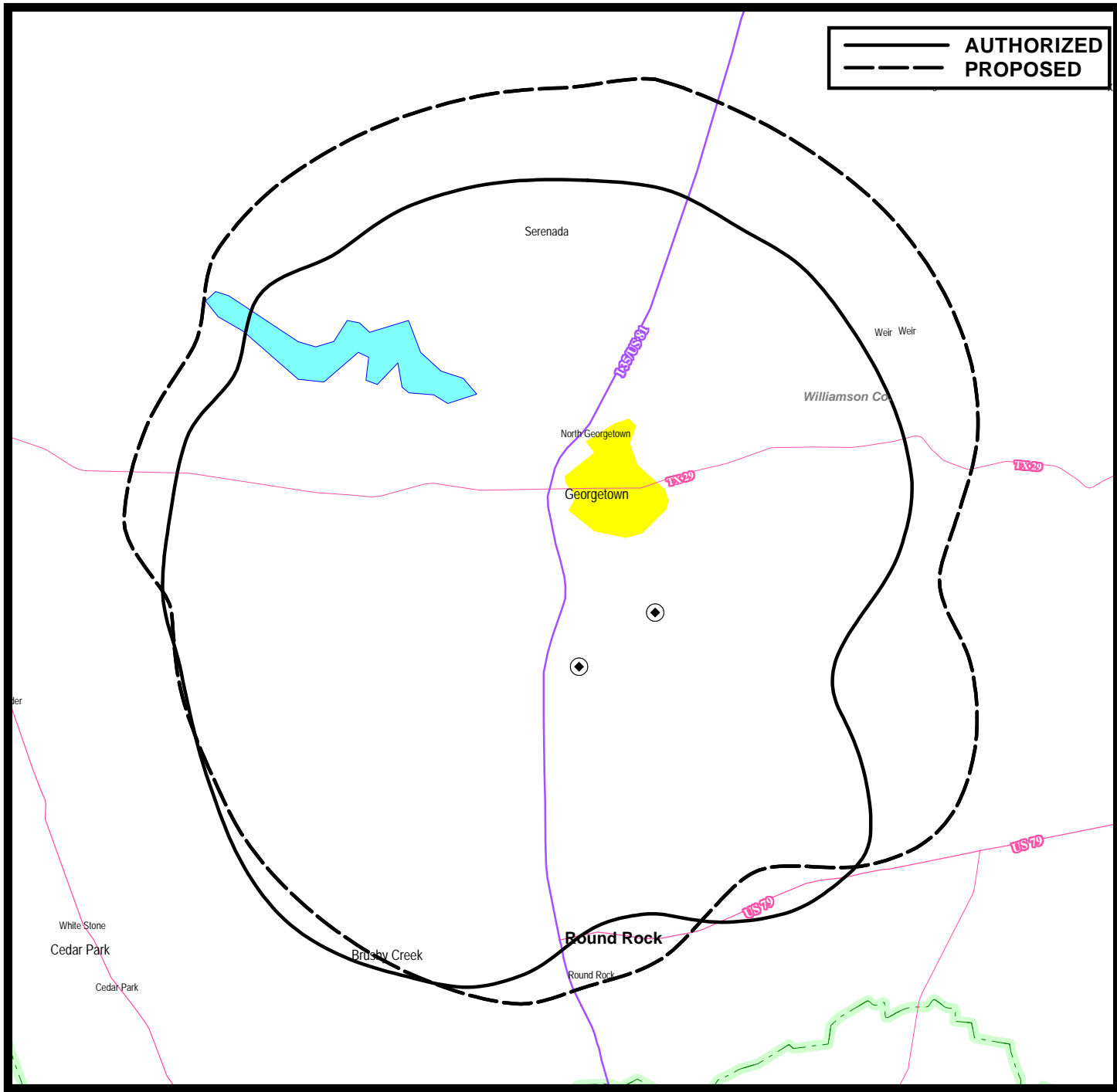
In addition, it appears that the existing tower is otherwise excluded from environmental processing as it complies with all the criteria for such an exclusion in Section 1.1306.

W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
JEFF@DLR.COM

December 7, 2001

FIGURE 1



**PREDICTED 74 DBU CONTOURS
CLASS A STATION KHPX-LP
GEORGETOWN, TEXAS
CH 28 7.4 KW (MAX-DA)**

OET-69 FULL-SERVICE NTSC INTERFERENCE RECEIVED STUDY

CELL SIZE : 2.00
Using offset in determining thresholds
Per 6th Report & Order and FCC OET-69 Bulletin

KXAM-T 30-40-36 098-33-59 14(-) 3160.000 kw 609 m 50.0 % 61.7 dBu
LLANO TX 17301 119 FCC NTSC BL: 286412 FCC IX POP%: 4.9
LIC BLCT19910916KE

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20202.18	286599
not affected by terrain losses	18707.80	238773

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1 dBu
GEORGETOWN TX Proposed

1.00	0.99	0.96	0.91	0.85	0.79	0.72	0.67	0.61	0.55	0.49	0.41
0.33	0.25	0.20	0.21	0.26	0.31	0.32	0.31	0.26	0.21	0.20	0.25
0.33	0.41	0.49	0.55	0.61	0.67	0.72	0.79	0.85	0.91	0.96	0.99

Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -25.00

	Area	Pop
Interference	15.98	2472(0.9 FCC - 0.9)

DKERAT 32-34-43 096-57-12 14(0) 484.600 kw 666 m DA 10.0 % 38.7 dBu
DALLAS TX 37811 4200 DTVSERVICE: 4200000 NTSCSERVICE: 4145000
DTVALT DTV ALLOTMENT

1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 34.00

	Area	Pop
Interference	1965.88	74969(26.2 FCC - 26.2)

DKHCE 29-31-25 098-43-25 16(0) 50.000 kw 573 m DA 10.0 % 38.9 dBu
SAN ANTONIO TX 11425 1363 DTVSERVICE: 1363000 NTSCSERVICE: 1362000
DTVALT DTV ALLOTMENT

0.18	0.25	0.32	0.40	0.49	0.58	0.68	0.79	0.89	0.97	1.00	0.99
0.96	0.88	0.77	0.66	0.55	0.46	0.37	0.30	0.24	0.18	0.14	0.11
0.12	0.14	0.17	0.20	0.21	0.20	0.18	0.15	0.13	0.11	0.11	0.14

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -28.00

	Area	Pop
Interference	0	0

DKXANT 30-19-33 097-47-58 21(0) 158.200 kw 597 m DA 10.0 % 39.4 dBu
AUSTIN TX 25028 1084 DTVSERVICE: 1084000 NTSCSERVICE: 1044000
DTVALT DTV ALLOTMENT
0.94 0.94 0.94 0.94 0.94 0.95 0.95 0.95 0.96 0.97 0.97 0.98
0.99 1.00 1.00 0.99 0.98 0.97 0.96 0.95 0.95 0.94 0.94 0.94
0.94 0.95 0.95 0.96 0.95 0.95 0.95 0.95 0.95 0.94 0.94 0.94
(136.0 1.00)
Ref Az: 0.0
Using DEFAULT vertical antenna pattern

D/U Baseline: -34.00

	Area	Pop
Interference	11.99	6714(2.3 FCC - 2.3)

KLRU 30-19-20 097-48-10 18(+) 1860.000 kw 574 m DA 10.0 % 62.1 dBu
AUSTIN TX 18352 904 FCC NTSC BL: 910288 FCC IX POP%: 0.8
LIC BLET19790424KG
0.74 0.87 0.96 1.00 0.96 0.88 0.76 0.65 0.58 0.56 0.58 0.65
0.74 0.88 0.96 1.00 0.96 0.87 0.75 0.65 0.58 0.55 0.57 0.65
0.75 0.88 0.97 1.00 0.96 0.87 0.75 0.65 0.57 0.55 0.58 0.65
Ref Az: 0.0
Using DEFAULT vertical antenna pattern

D/U Baseline: -23.00

	Area	Pop
Interference	775.16	105009(36.6 FCC - 36.7)

lost to NTSC IX	1270.63	114965
lost to additional IX by DTV	1366.52	13396
total lost to DTV IX	1965.88	74969

CallSign	No.cells	Unq Area	Unq Pop
DKERAT	342	1366.524	13396
KETH	43	171.8145	1929
KLRU	86	343.6289	32255

lost to all IX	2637.15	128361
----------------	---------	--------

Total SERVICE	16070.64	110412
---------------	----------	--------

All interference from the study station was masked.

OET-69 DTV INTERFERENCE CAUSED STUDY

CELL SIZE : 2.00
Using offset in determining thresholds
Per 6th Report & Order and FCC OET-69 Bulletin

KXAM-T 30-40-36 098-33-59 27(N) 1000.000 kw 589 m 90.0 % 40.0 dBu
LLANO TX 18908 236 DTVSERVICE: 236000 NTSCSERVICE: 119000
APP BPCDT19991018AAV

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	26660.75	917311
not affected by terrain losses	25134.54	831099

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX

CP null

1.00	0.99	0.96	0.91	0.85	0.79	0.72	0.67	0.61	0.55	0.49	0.41
0.33	0.25	0.20	0.21	0.26	0.31	0.32	0.31	0.26	0.21	0.20	0.25
0.33	0.41	0.49	0.55	0.61	0.67	0.72	0.79	0.85	0.91	0.96	0.99

Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0

DKXAMT 30-40-36 098-33-59 27(0) 174.100 kw 609 m DA 90.0 % 40.0 dBu
LLANO TX 18908 236 DTVSERVICE: 236000 NTSCSERVICE: 119000
DTVALT DTV ALLOTMENT

0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.99
0.99	1.00	1.00	1.00	0.98	0.96	0.94	0.90	0.88	0.86	0.85	0.85
0.85	0.87	0.88	0.90	0.92	0.94	0.96	0.99	1.00	1.00	1.00	1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20182.18	286386
not affected by terrain losses	19371.06	265223

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX

CP null

1.00	0.99	0.96	0.91	0.85	0.79	0.72	0.67	0.61	0.55	0.49	0.41
0.33	0.25	0.20	0.21	0.26	0.31	0.32	0.31	0.26	0.21	0.20	0.25
0.33	0.41	0.49	0.55	0.61	0.67	0.72	0.79	0.85	0.91	0.96	0.99

Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0

DKTRG 29-20-39 100-51-39 28(0) 1000.000 kw 409 m DA 90.0 % 40.1 dBu
DEL RIO TX 7805 47 DTVSERVICE: 47000 NTSCSERVICE: 47000

DTVALT DTV ALLOTMENT

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.07	0.15	0.31	0.49
0.68	0.85	0.95	1.00	0.96	0.87	0.72	0.52	0.34	0.17	0.08	0.03
0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	7821.142	47400
not affected by terrain losses	7805.124	47400

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX

CP null

1.00	0.99	0.96	0.91	0.85	0.79	0.72	0.67	0.61	0.55	0.49	0.41
0.33	0.25	0.20	0.21	0.26	0.31	0.32	0.31	0.26	0.21	0.20	0.25
0.33	0.41	0.49	0.55	0.61	0.67	0.72	0.79	0.85	0.91	0.96	0.99

Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

KTRG 29-20-39 100-51-39 28(N) 1000.000 kw 408 m 90.0 % 40.1 dBu
DEL RIO TX 7805 47 DTVSERVICE: 47000 NTSCSERVICE: 47000

APP BPCDT19991101AEN

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	17387.92	47185
not affected by terrain losses	17196.01	47185

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX

CP null

1.00	0.99	0.96	0.91	0.85	0.79	0.72	0.67	0.61	0.55	0.49	0.41
0.33	0.25	0.20	0.21	0.26	0.31	0.32	0.31	0.26	0.21	0.20	0.25
0.33	0.41	0.49	0.55	0.61	0.67	0.72	0.79	0.85	0.91	0.96	0.99

Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

DKFDXT 33-53-23 098-33-20 28(0) 1000.000 kw 607 m DA 90.0 % 40.1 dBu
WICHITA FALLS TX 33377 388 DTVSERVICE: 388000 NTSCSERVICE: 369000

DTVALT DTV ALLOTMENT

1.00	0.99	0.99	0.98	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.98
0.98	0.98	0.98	0.98	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99
0.99	0.99	0.98	0.98	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern
USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	33934.62	390079
not affected by terrain losses	33380.95	387388

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX
CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

KFDX-T 33-53-23 098-33-30 28(N) 10.000 kw 580.3 m 90.0 % 40.1 dBu
WICHITA FALLS TX 33377 388 DTVSERVICE: 388000 NTSCSERVICE: 369000
CP BPCDT19991029ACB

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	13384.36	160552
not affected by terrain losses	13380.34	160552

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX
CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

DKTBT 32-41-08 093-56-00 28(0) 1000.000 kw 608 m DA 90.0 % 40.1 dBu
SHREVEPORT LA 45594 1047 DTVSERVICE: 1047000 NTSCSERVICE: 899000
DTVALT DTV ALLOTMENT

1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1.00 1.00 0.99 0.99 0.99 0.99 0.99 0.98 0.98 0.98 0.98 0.98
0.99 0.99 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	48493.24	1096758
not affected by terrain losses	47947.16	1092782

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX

CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0
Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

KTBS-T 32-41-08 093-56-00 28(N) 1000.000 kw 623 m 90.0 % 40.1 dBu
SHREVEPORT LA 45594 1047 DTVSERVICE: 1047000 NTSCSERVICE: 899000
CP BPCDT19990909AAC
Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	45402.07	1049091
not affected by terrain losses	45189.26	1047789

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX
CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0
Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0

DKYLE 30-41-18 096-25-35 29(0) 50.000 kw 311 m DA 90.0 % 40.2 dBu
BRYAN TX 12694 224 DTVSERVICE: 224000 NTSCSERVICE: 224000
DTVALT DTV ALLOTMENT

0.56	0.65	0.73	0.81	0.87	0.92	0.95	0.98	0.99	1.00	0.99	0.98
0.95	0.92	0.87	0.81	0.74	0.65	0.56	0.47	0.39	0.32	0.30	0.31
0.34	0.38	0.40	0.41	0.40	0.37	0.34	0.30	0.29	0.32	0.38	0.47

Ref Az: 0.0
Using DEFAULT vertical antenna pattern
USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	12757.77	224621
not affected by terrain losses	12749.78	224621

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX
CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0
Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

Interference	Area 0	Pop 0

KYLE 30-41-18 096-25-35 29(N) 50.000 kw 311.2 m DA 90.0 % 40.2 dBu		
BRYAN TX 12694 224 DTVSERVICE: 224000 NTSCSERVICE: 224000		
CP BPCDT19991018ABD		
0.63 0.71 0.78 0.85 0.90 0.94 0.96 0.98 1.00 1.00 1.00 0.99		
0.97 0.94 0.90 0.85 0.79 0.72 0.63 0.55 0.47 0.41 0.38 0.39		
0.42 0.46 0.49 0.50 0.49 0.46 0.42 0.39 0.38 0.41 0.47 0.55		
Ref Az: 0.0		

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	13185.50	225964
not affected by terrain losses	13173.51	225935

KHPX-P 30-36-04 097-39-34 28(-) 7.400 kw 395 m DA 10.0 % 73.1
GEORGETOWN TX
CP null
1.00 0.99 0.96 0.91 0.85 0.79 0.72 0.67 0.61 0.55 0.49 0.41
0.33 0.25 0.20 0.21 0.26 0.31 0.32 0.31 0.26 0.21 0.20 0.25
0.33 0.41 0.49 0.55 0.61 0.67 0.72 0.79 0.85 0.91 0.96 0.99
Ref Az: 300.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

Interference	Area 0	Pop 0
--------------	-----------	----------

SUMMARY OF CALCULATIONS

Facility	Channel	Type	Baseline	Permissible	IX	%Base
KXAM-T, LLANO, TX	27	DTV	236000	0.5	0	0.00
DKXAMT, LLANO, TX	27	DTV	236000	0.5	0	0.00
DKTRG, DEL RIO, TX	28	DTV	47000	0.5	0	0.00
KTRG, DEL RIO, TX	28	DTV	47000	0.5	0	0.00
DKFDXT, WICHITA FALLS,	28	DTV	388000	0.5	0	0.00
KFDX-T, WICHITA FALLS,	28	DTV	388000	0.5	0	0.00
DKTBST, SHREVEPORT, LA	28	DTV	1047000	0.5	0	0.00
KTBS-T, SHREVEPORT, LA	28	DTV	1047000	0.5	0	0.00
DKYLE, BRYAN, TX	29	DTV	224000	0.5	0	0.00
KYLE, BRYAN, TX	29	DTV	224000	0.5	0	0.00



ANDREW

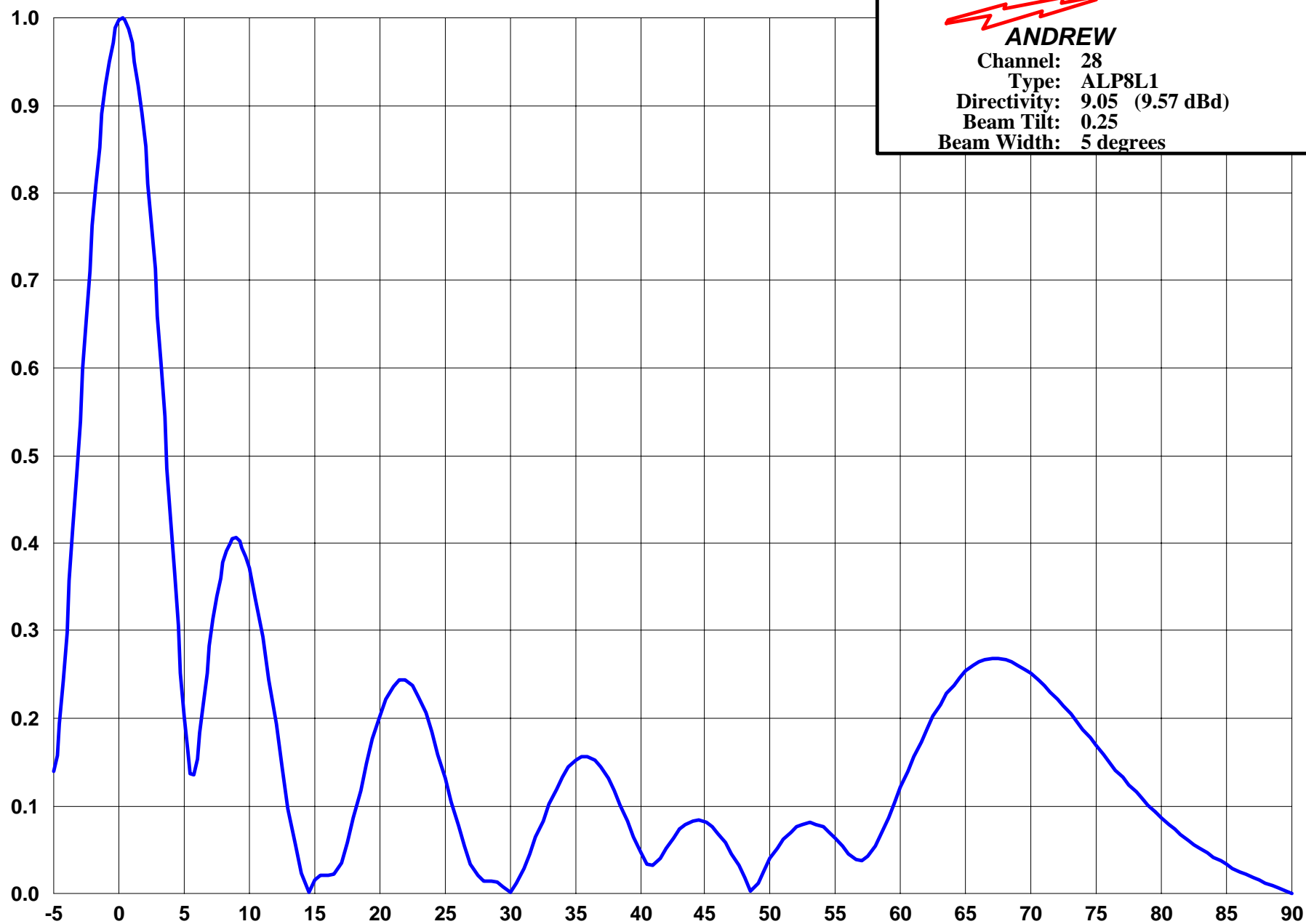
Channel: 28

Type: ALP8L1

Directivity: 9.05 (9.57 dBd)

Beam Tilt: 0.25

Beam Width: 5 degrees



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

FIGURE 4