

Technical Report K283AW Minor Modification

This technical report is submitted for a minor modification to K283AW at Huntsville, TX, FCC file no. BLFT-20070910ABP. Changes for the translator are requested to move to channel 285 with corresponding changes in tower site, antenna and ERP for the facility to serve as a fill-in to rebroadcast the primary signal of KHVL(AM) 1490 kHz at Huntsville, TX, FCC facility I.D. 70720.

The following exhibits are provided for the FCC form 349 application:

- E-1 K283AW Mod. to Channel 285 Overlap Study
- E-2 K283AW Mod. Contour Plots
- E-3 ASR 1064090

K283AW Modification Analysis:

An overlap study in exhibit E-1 shows the K283AW modification to channel 285 will not produce an interference overlap to any other facilities.

K283AW Mod. Antenna:

The K283AW modification will be located at an existing tower, ASR 1064090, at a COR AGL of 50 meters and operate at 0.250 kW ERP using a Nicom BKG77-2 full wavelength nondirectional antenna. Exhibit E-2 demonstrates the 60 dBu contour overlaps the current K283AW 60 dBu contour, and is contained within the primary KHVL(AM) 2.0 mV/m contour.

Anderson Associates

Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

RF Exposure Calculation:

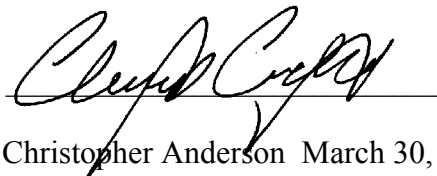
The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (distance to radiation center in meters -2m)}}$$

Using a worst-case vertical (F) factor of 1.0 results in an RF value of 7.25 $\mu\text{W/cm}^2$ to the ground, which is well below 5% of the 200 $\mu\text{W/cm}^2$ maximum permissible for general public exposure, allowing its exclusion from consideration.

Conclusion:

It is concluded the K283AW modification complies with all Commission rules and policies.



Christopher Anderson March 30, 2011
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E-1 K283AW Mod. Overlap Study

| REFERENCE | | CH# 285D - 104.9 MHz, Pwr= 0.25 kW, HAAT= 96.0 M, COR= 192 M | | | | | | | DISPLAY DATES | | | |
|---------------|---------|--|-----|-------|------------------|------------|---------|---------|----------------------------|----------|--------|--|
| 30 41 40.0 N. | | Average Protected F(50-50)= 12.6 km | | | | | | | DATA 03-29-11 | | | |
| 95 33 04.0 W. | | Omni-directional | | | | | | | SEARCH 03-30-11 | | | |
| CH | CALL | TYPE | ANT | AZI. | DIST | LAT. | Pwr(kW) | INT(km) | PRO(km) | *IN* | *OUT* | |
| CITY | | STATE | | <-- | FILE # | LNG. | HAAT(M) | COR(M) | LICENSEE | (Overlap | in km) | |
| 283D | K283AW | LIC | C | 43.6 | 3.2 | 30 42 54.0 | 0.099 | 0.7 | 9.4 | -11.1* | -7.4* | |
| Huntsville | | | TX | 223.6 | BLFT20070910ABP | 95 31 42.0 | 89 | 182 | Houston Christian Broadcas | | | |
| 285C2 | KAMA-FM | APP | NCY | 168.9 | 105.9 | 29 45 26.0 | 10.600 | 121.4 | 50.3 | -27.7*< | 12.6 | |
| Deer Park | | | TX | 349.0 | BPH200911103ABV | 95 20 19.0 | 300 | 312 | Tichenor License Corporati | | | |
| 285C2 | KAMA-FM | LIC | NC | 168.9 | 105.9 | 29 45 26.0 | 8.700 | 117.5 | 48.5 | -23.9*< | 14.5 | |
| Deer Park | | | TX | 349.0 | BLH20080815AAW | 95 20 19.0 | 300 | 312 | Tichenor License Corporati | | | |
| 286C0 | KYKS | LIC | CN | 48.8 | 114.3 | 31 22 08.0 | 100.000 | 107.4 | 74.0 | -6.3< | 20.5 | |
| Lufkin | | | TX | 229.2 | BLH19900827KA | 94 38 45.0 | 325 | 403 | Townsquare Media Lufkin Li | | | |
| 284C2 | KKYS | LIC | CN | 272.0 | 78.7 | 30 42 59.0 | 50.000 | 70.0 | 45.0 | -4.3< | 14.5 | |
| Bryan | | | TX | 91.6 | BLH19891113KC | 96 22 20.0 | 87 | 185 | Cc Licenses, Llc | | | |
| 284D | 643823 | APP | C | 167.3 | 32.0 | 30 24 45.5 | 0.100 | 10.8 | 7.5 | 8.9 | 6.2 | |
| Willis | | | TX | 347.4 | BNPFT20030317AGG | 95 28 39.3 | 81 | 154 | Gerald R. Proctor | | | |
| 288A | AL1510 | VAC | | 1.1 | 39.9 | 31 03 14.0 | 6.000 | 2.9 | 29.8 | 23.6 | 9.1 | |
| Lovelady | | | TX | 181.1 | RM11030 | 95 32 34.0 | 100 | 167 | Charles Crawford | | | |
| 282C3 | KHMR | LIC | CX | 5.8 | 55.4 | 31 11 30.0 | 10.500 | 4.0 | 39.9 | 37.9 | 14.5 | |
| Lovelady | | | TX | 185.8 | BLH20090220ADI | 95 29 32.0 | 153 | 239 | Km Radio Of Lovelady Llc | | | |
| 287C3 | KTWL | LIC | C | 226.7 | 62.9 | 30 18 19.0 | 9.200 | 3.7 | 37.3 | 46.0 | 24.5 | |
| Hempstead | | | TX | 46.4 | BLH19990804KD | 96 01 40.0 | 166 | 242 | Roy E. Henderson | | | |
| 286D | 634947 | APP | C | 148.1 | 65.8 | 30 11 25.2 | 0.205 | 18.4 | 12.4 | 35.9 | 36.6 | |
| New Caney | | | TX | 328.3 | BNPFT20030313ABV | 95 11 20.2 | 115 | 143 | Aleluya Christian Broadcas | | | |
| 288D | K288FY | LIC | C | 89.9 | 58.9 | 30 41 38.3 | 0.075 | 0.6 | 12.6 | 46.7 | 45.0 | |
| Livingston | | | TX | 270.2 | BLFT20071015ACW | 94 56 12.2 | 146 | 203 | Ccs Radio Inc | | | |
| 283D | 643807 | APP | C | 129.0 | 57.8 | 30 22 00.9 | 0.100 | 0.7 | 6.8 | 45.4 | 49.9 | |
| Cleveland | | | TX | 309.2 | BNPFT20030317AGA | 95 04 57.9 | 54 | 99 | Gerald R. Proctor | | | |
| 283D | 636202 | APP | C | 173.6 | 62.4 | 30 08 06.2 | 0.250 | 1.1 | 13.7 | 49.0 | 47.8 | |
| The Woodlands | | | TX | 353.7 | BNPFT20030313ADN | 95 28 44.2 | 124 | 165 | Aleluya Christian Broadcas | | | |
| 285A | KWBT | LIC | NC | 316.5 | 146.1 | 31 38 39.0 | 2.850 | 85.0 | 29.7 | 48.4 | 72.4 | |
| Mexia | | | TX | 136.0 | BLH20060515ABS | 96 36 51.0 | 147 | 304 | M&m Broadcasters, Ltd. | | | |
| 284L1 | KDLP-LP | LIC | | 104.9 | 73.5 | 30 31 23.0 | 0.079 | 10.2 | 7.1 | 51.1 | 48.7 | |
| Ace | | | TX | 285.2 | BLL200611103ACL | 94 48 40.0 | 34 | 75 | Ace Radio Inc | | | |
| 283D | 634946 | APP | C | 148.1 | 65.8 | 30 11 25.2 | 0.205 | 1.0 | 12.4 | 53.3 | 52.4 | |
| New Caney | | | TX | 328.3 | BNPFT20030313ABU | 95 11 20.2 | 115 | 143 | Aleluya Christian Broadcas | | | |
| 285A | KBUK | LIC | NCX | 234.8 | 156.6 | 29 52 32.0 | 1.750 | 76.4 | 25.7 | 67.2 | 86.5 | |
| La Grange | | | TX | 54.1 | BLH20090722ABI | 96 52 39.0 | 161 | 258 | Kbuk Radio, Inc. | | | |
| 231C2 | KLTR« | CP | CX | 246.1 | 82.6 | 30 23 31.0 | 50.000 | 60.2 | 52.5 | 14.5R | 68.1M | |
| Brenham | | | TX | 65.7 | BPH20070820AAZ | 96 20 15.0 | 150 | 221 | Roy E. Henderson | | | |
| 283D | 634966 | APP | C | 179.1 | 83.1 | 29 56 41.2 | 0.115 | 0.8 | 12.7 | 70.4 | 69.6 | |
| Houston | | | TX | 359.1 | BNPFT20030313ACR | 95 32 13.2 | 150 | 182 | Aleluya Christian Broadcas | | | |
| 286C3 | KMIL | LIC | NCX | 277.7 | 142.7 | 30 51 30.0 | 15.000 | 54.4 | 35.3 | 75.3 | 88.2 | |
| Cameron | | | TX | 97.0 | BLH20070208AIB | 97 01 47.0 | 100 | 213 | Roy E. Henderson | | | |
| 285A | KWBT | APP | ZCX | 302.6 | 175.7 | 31 32 05.0 | 6.000 | 87.2 | 29.0 | 75.7 | 103.0 | |
| Bellmead | | | TX | 121.7 | BPH20091211AFR | 97 06 46.0 | 82 | 225 | M&m Broadcasters, Ltd. | | | |
| 231D | 634837« | APP | C | 165.8 | 102.7 | 29 47 45.2 | 0.140 | 13.0 | 13.0 | 9.5R | 93.2M | |
| Houston | | | TX | 345.9 | BNPFT20030313AAD | 95 17 22.2 | 141 | 153 | Aleluya Christian Broadcas | | | |
| 287D | 634938 | APP | C | 165.8 | 102.7 | 29 47 45.2 | 0.140 | 0.8 | 13.0 | 89.8 | 88.9 | |
| Houston | | | TX | 345.9 | BNPFT20030313ABL | 95 17 22.2 | 141 | 153 | Aleluya Christian Broadcas | | | |
| 283D | 634937 | APP | C | 165.8 | 102.7 | 29 47 45.2 | 0.140 | 0.8 | 13.0 | 89.8 | 88.9 | |
| Houston | | | TX | 345.9 | BNPFT20030313ABK | 95 17 22.2 | 141 | 153 | Aleluya Christian Broadcas | | | |
| 285A | KWBT | RSV-A | | 303.3 | 192.6 | 31 38 02.0 | 6.000 | 90.9 | 31.4 | 88.9 | 117.4 | |
| Bellmead | | | TX | 122.4 | | 97 15 03.0 | 100 | 256 | M&m Broadcasters, Ltd. | | | |

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone= West Zone, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
***affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap

E-2 K283AW Mod. Contour Plot

K283AW Mod.

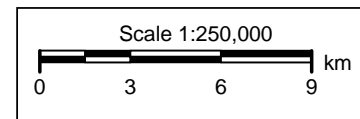
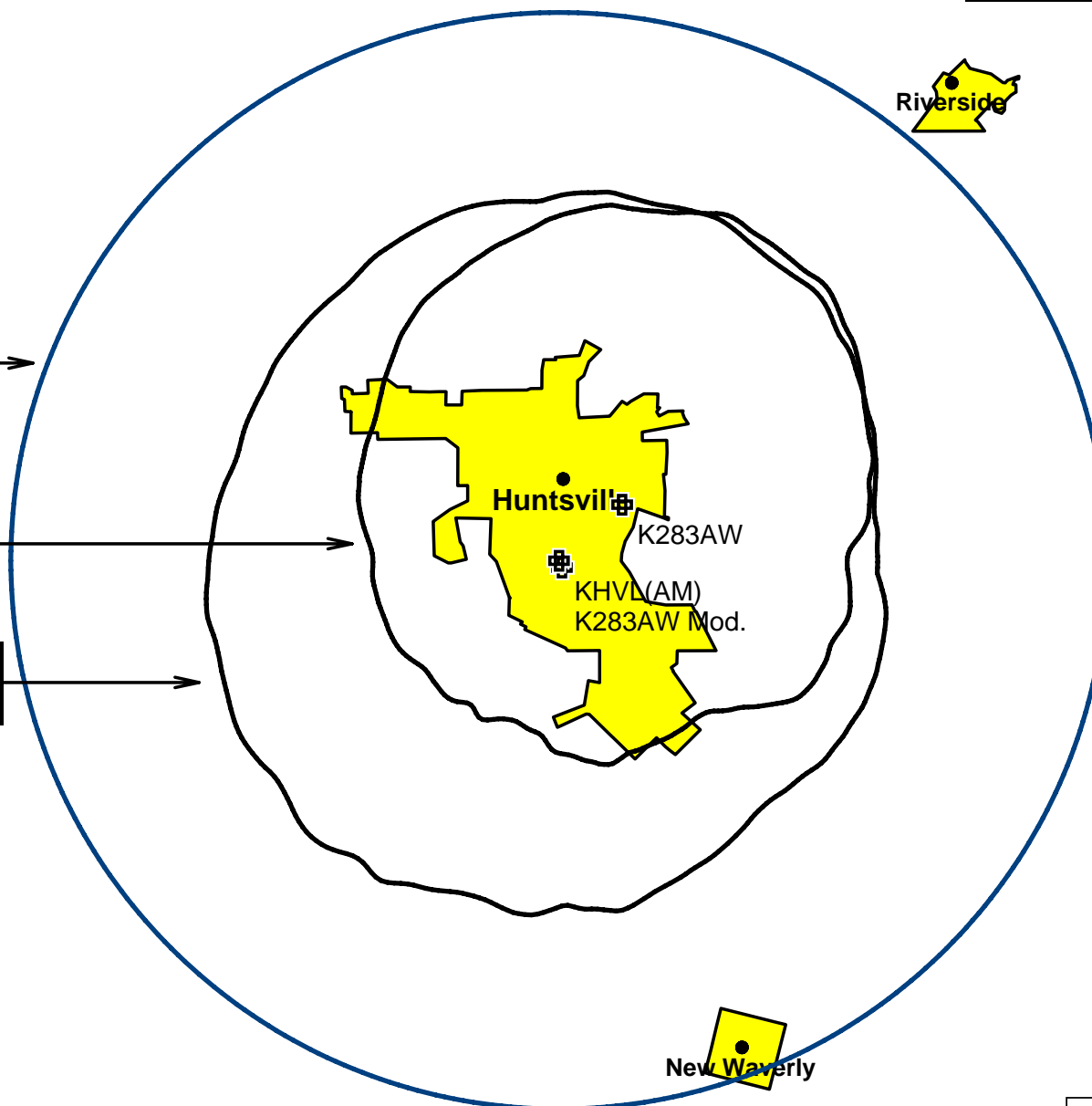
Latitude: 30-41-40 N
Longitude: 095-33-04 W
ERP: 0.25 kW
Channel: 285
Frequency: 104.9 MHz
AMSL Height: 192.0 m
Elevation: 142.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

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KHVL(AM) 1490 kHz
2.0 mV/m Contour

K283AW Lic.
60 dBu (50-50) Contour

K283AW Mod. to Ch. 285
60 dBu F(50-50) Contour



E-3 K283AW Mod. ASR

ASR Registration Search

Registration 1064090

 [Map Registration](#)

Registration Detail

| | | | |
|----------------|----------------|-------------|-------------|
| Reg Number | 1064090 | Status | Constructed |
| File Number | A0366509 | Constructed | 04/01/1990 |
| FAA Study | 99-ASW-0945-OE | EMI | No |
| FAA Issue Date | 04/27/1999 | NEPA | No |

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long 30-41-41.0 N 095-33-05.0 W 3303 INTERSTATE ROAD
City, State HUNTSVILLE , TX
Center of
AM Array

Heights (meters)

| | |
|--|---|
| Elevation of Site Above Mean Sea Level | Overall Height Above Ground (AGL) |
| 142.0 | 93.0 |
| Overall Height Above Mean Sea Level | Overall Height Above Ground w/o Appurtenances |
| 235.0 | 92.0 |

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

Owner & Contact Information

| | | | |
|--------------|------------|-------------|-----------|
| FRN | 0004997243 | Licensee ID | L00560091 |
| Assignor FRN | 0003741477 | Assignor ID | L00817203 |

Owner

HEH COMMUNICATIONS LLC
Attention To: STEVE EVERETT
P.O. Box 330
HUNTSVILLE , TX 77342

P: (936)295-2651
E: steveeverett@ksam1017.com

Contact

P:
E:

Last Action Status

| | | | |
|---------|------------------|----------|------------|
| Status | Constructed | Received | 02/24/2004 |
| Purpose | Change Owner | Entered | 03/05/2004 |
| Mode | Mail In (Manual) | | |