K02RA-D MINOR MODIFICATION OF CONSTRUCTION PERMIT CH 2 0.06 kW NON-DIRECTIONAL
BEAUMONT, TEXAS FACILITY ID 187583

ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
DECEMBER 2021

Proposed Change in Facilities

K02RA-D is an LPTV DTV facility authorized in file number 0000071735. The facility proposed herein is believed to qualify as a minor change as no change in channel is proposed, the minor mod site is located 19.9 kM from the CP site and 21.9 kM from the original CP site specified in BNPDVL-20100610AFB and there is substantial common overlap of 43 dBu F(50,90) contours between all three sites.

The proposed antenna system consists of a generic 3 dB gain vertical polarized antenna without beam tilt. The antenna radiation center is 6.1 meters AGL. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 1 has been used to calculate the power density 2 meters above ground. The maximum power density is 119.2 uw/cm squared calculated for an ERP of 60 watts V. polarization. This value is 59.6% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed tower site is existing along with the transmitter building, access road and power.

Below is a copy of the TVStudy interference analysis for CH 2 based on the facilities described above. As can be seen at the conclusion of the report there is no impermissible caused interference. It is believed that the proposed facility provides full protection to other television facilities.

TVStudy Report

```
Study created: 2021.12.23 10:12:26

Study build station data: LMS TV 2021-12-21

    Proposal: K02RA-D D2 LD CP BEAUMONT, TX
 File number: BLANK0000071735
 Facility ID: 187583
Station data: User record
   Record ID: 1074
     Country: U.S.

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State              File Number            Distance
No   KSFW-LD   D2         LD  LIC     DALLAS, TX               BLANK0000001483        408.4 km
No   KLNK-LD   D2         LD  LIC     GROVETON, TX             BLANK0000121226        123.5
No   KLNK-LD   D2         LD  CP      GROVETON, TX             BLANK0000132752        140.3
No   KNCD-LD   N2z        TX  LIC     NACOGDOCHES, TX          BLTVL19930430IA        197.0
No   KZHO-LD   D3         LD  LIC     HOUSTON, TX              BLANK0000158409        140.4
Yes  K03IT-D   D3         LD  CP      ORANGE, TX               BNPDVL20100611AAA       32.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D2
       Mask: Stringent
```

```
   Latitude:  29 58 36.10 N (NAD83)
  Longitude:  93 56  0.80 W
Height AMSL: 14.0 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 0.060 kW
    Antenna: Omnidirectional
Elev Pattrn: None

43.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg  0.060 kW    10.8 m   13.3 km
 45.0      0.060       11.8     13.3
 90.0      0.060       13.2     13.3
135.0      0.060       13.2     13.3
180.0      0.060       12.2     13.3
225.0      0.060       12.4     13.3
270.0      0.060        9.9     13.3
315.0      0.060       12.2     13.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 12 m

Distance to Canadian border: 1640.8 km

Distance to Mexican border: 532.9 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 234.8 degrees   Distance: 477.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 320.8 degrees   Distance: 1522.6 km


Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
```

```
Maximum new IX to LPTV: 2.00%


---- Below is IX received by proposal BLANK0000071735 ----

Proposal receives 4.74% interference from scenario 2
No IX check failures found.
```

The foregoing was prepared on behalf of SagamoreHill of Beaumont, LLC by Clarence M. Beverage of *Communications Technologies, Inc.*, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

Clarence M. Beverage
for Communications Technologies, Inc.
Medford, New Jersey
December 23, 2021