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Displacement for LPTV Station Application Application Submitted

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Application Summary

File Number: 0000052874
Application Purpose: Displacement
Status: Pending
Date Submitted: 2018-04-17

Applicant Information

Name: RED RIVER BROADCAST CO., LLC
Title:
Address: P.O. BOX 9115
FARGO, ND 58106
United States
Phone: +1 (701) 277-1515
Email: KLAU@KVRR.COM

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[Open Government Directive \(http://www.fcc.gov/open\)](#)
[Plain Writing Act \(http://www.fcc.gov/encyclopedia/plain-writing-fcc\)](#)
[2009 Recovery and Reinvestment Act \(http://www.fcc.gov/encyclopedia/american-recovery-and-reinvestment-act-2009\)](#)



(REFERENCE COPY - Not for submission)

Displacement for LPTV Station Application

File Number: 0000052874 | Submit Date: 04/17/2018 | Call Sign: K40FZ-D | Facility ID: 68032 | FRN: 0002622165 | State: South Dakota | City: BROOKINGS

Service: LPD | Purpose: Displacement 0000018919 | Status: Pending | Status Date: 04/17/2018 | Filing Status: Active

General Information

| Section | Question | Response |
|-------------|--|----------|
| Attachments | Are attachments (other than associated schedules) being filed with this application? | Yes |

Fees, Waivers, and Exemptions

| Section | Question | Response |
|---------|--|----------|
| Waivers | Does this filing request a waiver of the Commission's rule(s)? | No |
| | Total number of rule sections involved in this waiver request: | |

Applicant
Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|-----------------------|-------------------|------------------------------|
| RED RIVER BROADCAST CO., LLC Doing Business As: RED RIVER BROADCAST CO., LLC | P.O. BOX 9115 FARGO, ND 58106 United States | +1 (701) 277- 1515 | KLAU@KVRR. COM | Limited Liability Company |

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact
Representatives
(1)

| Contact Name | Address | Phone | Email | Contact Type |
|---|--|-----------------------|--------------------------------|-------------------------|
| CHARLES R. NAFTALIN , ESQ . <i>FCC LEGAL COUNSEL</i> HOLLAND & KNIGHT LLP | 800 17TH STREET NW, SUITE 1100 WASHINGTON, DC 20006 United States | +1 (202) 457- 7040 | CHARLES. NAFTALIN@HKLAW.COM | Legal Representative |

Alien Ownership

| Question | | Response |
|---|--|----------|
| 1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act? | | No |
| 2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1)) | | No |
| 3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2)) | | No |
| 4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3)) | | No |
| 5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4)) | | No |
| 6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act? | | |
| 6a) Enter the citation of the applicable declaratory ruling by DA/FCC number, FCC Record citation, release date, or any other identifying information. | | |
| 7) Has there been any change in the applicant's foreign ownership since issuance of the declaratory ruling(s) cited in response to Question 6? | | |
| 7a) Enter the File or Docket Number of the Petition for Declaratory Ruling that the applicant has filed for its foreign ownership in connection with this application pursuant to Section 310(b)(4) of the Communications Act. It is not necessary to file a request for a foreign ownership declaratory ruling if the applicant attaches a showing that the requested authorization(s) is exempt from the provisions of Section 310(b)(4). | | |
| 8) Does the applicant certify that it is in compliance with the terms and conditions of the foreign ownership declaratory ruling(s) cited in response to Question 6? | | |
| 9) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act? | | |

Basic Qualifying Questions

| Section | Question | Response |
|------------------------------|--|----------|
| Revoked Application | Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission? | No |
| State or Federal Convictions | Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court? | No |

Channel and Facility Information

| Section | Question | Response |
|-------------------------------|-------------|--------------|
| Proposed Community of License | Facility ID | 68032 |
| | State | South Dakota |
| | City | BROOKINGS |
| | LPD Channel | 17 |

Antenna Location Data

| Section | Question | Response |
|--------------------------------|---|---------------------------------------|
| Antenna Structure Registration | Do you have an FCC Antenna Structure Registration (ASR) Number? | Yes |
| | ASR Number | 1042108 |
| Coordinates (NAD83) | Latitude | 44° 20' 22.0" N+ |
| | Longitude | 096° 46' 08.0" W- |
| | Structure Type | TOWER-A free standing or guyed struct |
| | Overall Structure Height | 106.8 meters |
| | Support Structure Height | 106.0 meters |
| | Ground Elevation (AMSL) | 493.5 meters |
| Antenna Data | Height of Radiation Center Above Ground Level | 103 meters |
| | Height of Radiation Center Above Mean Sea Level | 596.5 meters |
| | Effective Radiated Power | 7.014 kW |

Antenna
Technical Data

| Section | Question | Response |
|--------------------------------|---|--------------------|
| Antenna Type | Antenna Type | Directional Custom |
| | Do you have an Antenna ID? | Yes |
| | Antenna ID | 16389 |
| Antenna Manufacturer and Model | Manufacturer: | AND |
| | Model | ALP12L2-HSOC |
| | Rotation | 185 degrees |
| | Electrical Beam Tilt | 0.5 |
| | Mechanical Beam Tilt | Not Applicable |
| | toward azimuth | |
| | Polarization | Horizontal |
| Elevation Radiation Pattern | Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt? | No |
| | Uploaded file for elevation antenna (or radiation) pattern data | |
| | Out-of-Channel Emission Mask: | Simple |

Directional Antenna Relative Field Values (Pre-rotated Pattern)

| Degree | V _A (Authorized Value) | Degree | V _A (Authorized Value) | Degree | V _A (Authorized Value) | Degree | V _A (Authorized Value) |
|--------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|
| 0 | 1 | 90 | 0.668 | 180 | 0.676 | 270 | 0.668 |
| 10 | 0.994 | 100 | 0.631 | 190 | 0.672 | 280 | 0.715 |
| 20 | 0.978 | 110 | 0.609 | 200 | 0.659 | 290 | 0.767 |
| 30 | 0.951 | 120 | 0.602 | 210 | 0.642 | 300 | 0.82 |
| 40 | 0.915 | 130 | 0.608 | 220 | 0.623 | 310 | 0.871 |
| 50 | 0.871 | 140 | 0.623 | 230 | 0.608 | 320 | 0.915 |
| 60 | 0.82 | 150 | 0.642 | 240 | 0.602 | 330 | 0.951 |
| 70 | 0.767 | 160 | 0.659 | 250 | 0.609 | 340 | 0.978 |
| 80 | 0.715 | 170 | 0.672 | 260 | 0.631 | 350 | 0.994 |

Additional Azimuths

| Degree | V _A |
|--------|----------------|
|--------|----------------|

**Parties to the
Application (0)**

Information not provided.

Attributable Interest

| Section | Question | Response |
|--------------------------------|--|----------|
| Equity and Financial Interests | Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable. | |
| Other Authorizations | Does the applicant or any party to the application have an attributable interest in any other broadcast station(s). | |

Construction
Permit
Certifications

| Section | Question | Response |
|--|--|----------|
| Post-Incentive Auction Expedited Processing | It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice. | |
| | It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice. | |
| | It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice. | |
| | The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect 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. | |
| Environmental Effect | Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.) | No |
| Broadcast Facility | The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793 (e), 74.793(f), 74.793(g), 74.793(h) | Yes |

Legal
Certifications

| Section | Question | Response |
|------------------------------------|---|----------|
| Character Issues | Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with: (a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or (b) any pending broadcast application in which character issues have been raised. | |
| Adverse Findings | Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination? | |
| Program Service Certification | Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area. | |
| Local Public Notice | Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580. | Yes |
| Equal Employment Opportunity (EEO) | If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report. | |
| Auction Authorization | If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable. | N/A |
| Rebroadcast Certification | (For Applicants proposing rebroadcasts that are not the licensee of the primary station) Applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted. | N/A |

Certification

| Section | Question | Response |
|---|--|--|
| General Certification Statements | The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.). | |
| | The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith. | |
| Authorized Party to Sign | FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503). | |
| | I certify that this application includes all required and relevant attachments. | Yes |
| | I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above. | KATHY LAU <i>CHIEF OPERATING OFFICER</i> 04/17/2018 |

Attachments

| File Name | Uploaded By | Attachment Type | Description |
|--|-------------|-----------------|--------------------------------|
| <u>BROOKINGS K40FZ-D ENGINEERING STATEMENT FOR CH17 DISPLACEMENT.pdf</u> | Applicant | All Purpose | K40FZ-D: Engineering Statement |
| <u>T-Mobile Letter K40FZ-D.pdf</u> | Applicant | All Purpose | K40FZ-D: Letter from T-Mobile |

ENGINEERING STATEMENT
APPLICATION FOR DISPLACEMENT
OF AN EXISTING LPTV TELEVISION TRANSLATOR
FOR STATION K40FZ-D LICENSED TO
BROOKINGS, SOUTH DAKOTA
FROM CHANNEL 40 TO CHANNEL 17
CHANNEL 17 4.27 KW 596.5 METERS RC/AMSL

APRIL 2018

Preparer Contact Information:

Chris Drovdal
Chief Engineer – KQDS FOX 21 Television
2001 London Rd.
Duluth, Minnesota 55812
218-728-1622
cdrovdal@kqdsfox21.tv

Introduction

This engineering statement supports the displacement application for a construction permit filed by Red River Broadcast Co., LLC., licensee of television translator station K40FZ, licensed to Brookings, South Dakota (Facility ID: 68032). K40FZ is displaced from its currently licensed Channel 40 to the proposed Channel 17 due to the 600MHz Incentive Auction and the recent notification by T-Mobile. T-Mobile has advised that it requires the station to terminate its operation by August 14th, 2018. This displacement application has a companion special temporary authority ("STA") application that accompanies this request.

K40FZ's displacement application due to the Incentive Auction requests a construction permit for digital translator television facilities for Channel 17 with an effective radiated power ("ERP") of 4.27 kW directional at a radiation center above mean sea level ("RCAMSL") of 596.5 meters. The K40FZ channel modification is located at the same transmitter site and specifying the same radiation center. No other changes are proposed.

Tower Location

The geographic coordinates of the proposed transmitter site are as follows:

North Latitude: 44° 20' 22"

West Longitude: 96° 46' 07"

NAD-27

The antenna registration number is 1042108. The application will specify the ASRN NAD-83 coordinates which are:

North Latitude: 44° 20' 22"

West Longitude: 96° 46' 08"

NAD-83

Elevation Data

| | |
|--|------------------------------|
| Antenna Location Site Elevation Above Mean Sea Level | 493.5 meters (1619 feet) |
| Height of Radiation Center Above Ground Level | 103 meters (337.9 feet) |
| Height of Radiation Center Above Mean Sea Level | 596.5 meters (1957 feet) |
| Overall Tower Height Above Ground Level | 106.8 meters (350.4 feet) |

Equipment Data

| | |
|--------------------|--|
| Transmitter: | Type-approved |
| Transmission Line: | 106.7 meters (350 feet) of Andrew, Type HJ7-50A, 1-5/8", 50 ohm or equivalent with 68.20% efficiency, 0.472 dB/100 feet loss |
| Antenna: | DIELECTRIC TLP-12B-17 with maximum gain of 13.12 dB and 1.00 degree of electrical beam tilt |

Power Data

| | | |
|------------------------------------|----------|------------|
| Transmitter output: | 0.305 kW | -5.156 dBk |
| Transmission line efficiency/loss: | 68.20% | 1.652 dB |
| Input power to the antenna: | 0.208 kW | -6.818 dBk |
| Antenna gain: | 20.5 | 13.12 dB |
| Effective Radiated Power: | 4.27 kW | 6.304 dBk |
| Emission Mask: | Simple | |

Note: Conversion to dB may result in slight difference.

As indicated above, the transmitter with a typical output power (simple emission mask) of 305 Watts will deliver 208 Watts to the input of the antenna. The antenna having a maximum gain of 13.12 dB and an electrical beam tilt of 1.00 degrees will produce a maximum ERP of 4.27 kW. A coverage map (Exhibit E-2) provides the normally protected contour of the proposed Channel 17 facility. A coverage map (Exhibit E-3) provides the normally protected contour of the proposed and licensed operations.

Other Broadcast Facilities

A brief analysis was completed to determine the presence of stations in the vicinity of the K45JD tower using the April 5th, 2018, data contained within the Commission's Consolidated Database System ("CDBS"). Within 500 meters of the proposed site, one authorized FM radio station was identified, no authorized DTV and NTSC television stations, no other low-power analog television and no television translator stations aside from K40FZ. There are no AM facilities within 3.2 km of the existing tower. Although no adverse technical affects are expected due to the proposed changes, the licensee will take measures to resolve any problems proven to be related to the changes proposed in this application.

Interference Analysis

A study of predicted interference caused by the proposed K40FZ operation on Channel 17 digital operation has been performed using the TVStudy 2.2.4 evaluation program for which the source data has been posted by the Commission on its website at <http://www.fcc.gov/oet/tvstudy>. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using one-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 2010 census centroids, all studies are based upon data in the current LMS database update of the FCC's engineering database. A Longley-Rice study was performed with the proposed K40FZ operating

on Channel 17 low-power digital facilities and all relevant stations listed in the FCC database as of April 5th, 2018. The study results and the included stations are listed in Table I.

Other Licensed and Broadcast Facilities

No adverse technical effect is anticipated by the proposed DTV operation to any other FCC licensed facility. If required, the licensee will install filters or take other measures as necessary to resolve the problem.

FCC Rule, Section 1.1307

Pursuant to OET Bulletin No. 65 dated August 1997, these non-broadcast stations are all exempt from RFF evaluations for the following reason:

| <u>Station</u> | <u>Licensed Under Part No.</u> | <u>Reason for Exemption</u> |
|----------------|--------------------------------|-----------------------------|
| | Part 74, Subpart F | Subpart F Exempt |
| | Part 90 | Antenna Height > 10 meters |
| | Part 90 | ERP < 1000 watts |
| | Part 74, Subpart F | Subpart F Exempt |

The RFF contribution of each station will be calculated using the following formula:

$$S = \frac{33.4(F^2) \text{ Total ERP}}{R^2}$$

where:

S = power density in $\mu\text{W}/\text{cm}^2$

F = relative field factor

Total ERP = ERP Horizontal Polarization + ERP Vertical Polarization

R = RCAGL - 2 meters

ERP = RMS ERP in watts for DTV Stations

The proposed 4.27 kW directional operation will utilize a DIELECTRIC TLP-12B-17 (or equivalent) described above with a center of radiation aboveground of 103 meters. The proposed antenna will be side-mounted on an existing tower with an overall height of 106.8 meters above ground. The proposed operation of K40FZ will create a radio frequency field level of less than one $\mu\text{W}/\text{cm}^2$ at the base of the tower. This level is less than one percent of the Maximum Permissible Exposure (“MPE”) limit for the general population and uncontrolled environment.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on or near the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

An environmental assessment (“EA”) is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.

(a)(5) The existing tower is not located near any known Indian religious sites.

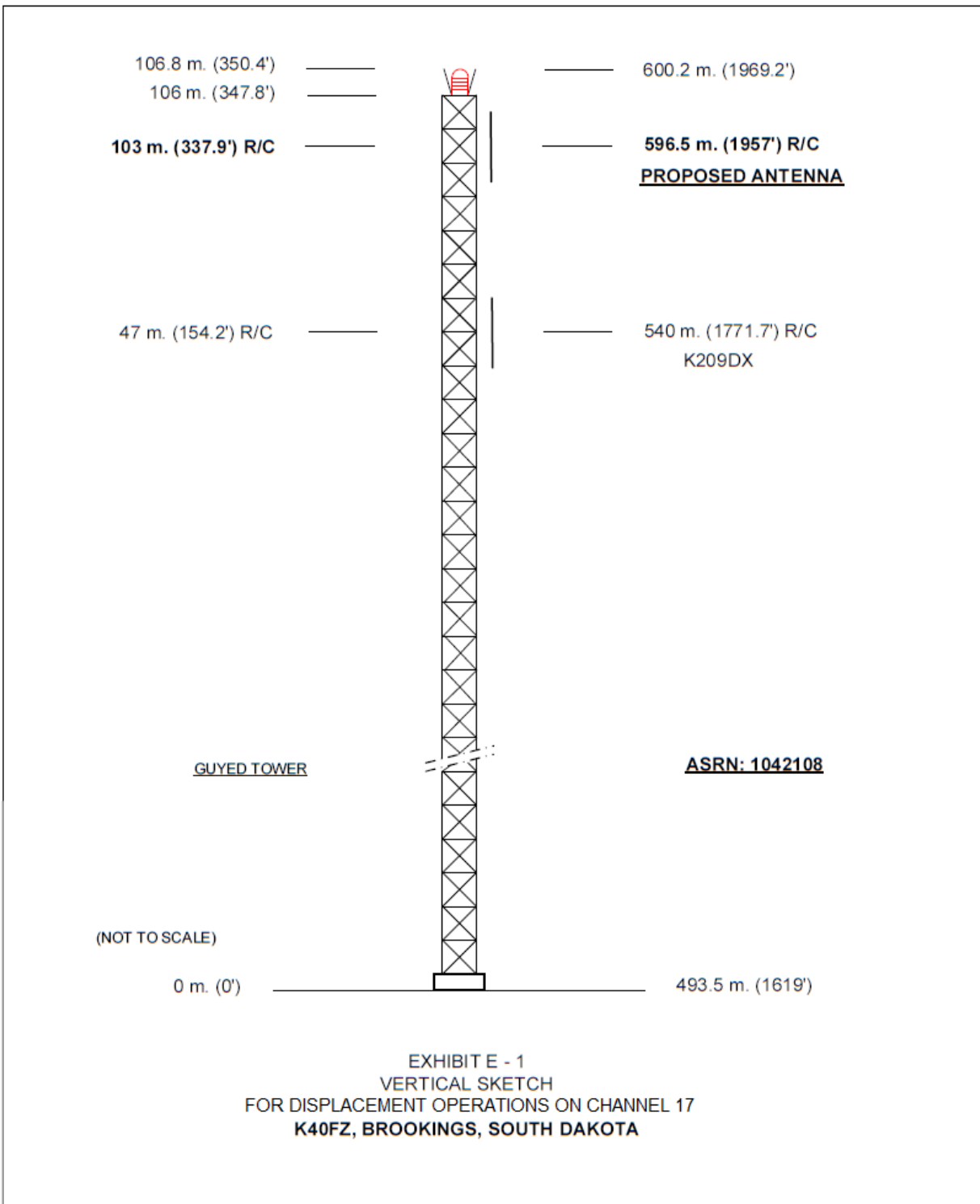
(a)(6) The existing tower is not located in a flood plain.

(a)(7) The installation of the DTV facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the tower.

(a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.

(b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

EXHIBIT E – 1





Antenna Model:

TLP-12B

Proposal Number: C-7111
 Date: 4-Apr-18
 Customer: KQDS
 Location: Brookings, SD

Electrical Specifications

| | | | |
|--------------------|-------------|------------|-----------------------|
| Polarization: | Horizontal | | |
| Azimuth Pattern: | Directional | | |
| Antenna Input: | 1-5/8" | 50 Ohm | EIA/DCA |
| VSWR: | Channel | 1.08 : 1 | |
| Bandwidth: | 6 MHz | | |
| Rated Input Power: | 5 kW | (6.99 dBk) | Maximum Average Power |

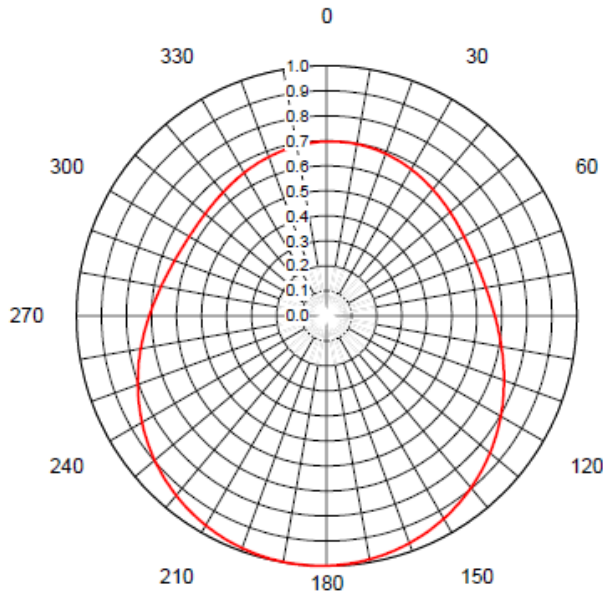
Mechanical Specifications

| | | | |
|---------------------------|---|-----------------|---------------------------------------|
| Mounting: | Side Mounted | | |
| Environmental Protection: | Slot Cover | | |
| Height: | 26.2 ft (8m) | | |
| Weight: | 200 lb (0.1t) | Excludes Mounts | |
| Effective Projected Area: | 25.2 ft ² (2.3m ²) | TIA/EIA-222-F | Basic Wind Speed: 90 m/h (144.8 km/h) |

Channel Specifications

| Call | CH | Freq | Hpol ERP | TPO | Peak Main Lobe Hpol Gain | Peak at Horizontal Hpol Gain |
|-------|----|---------|-----------------------|-------------------------|--------------------------------|------------------------------------|
| K40FZ | 17 | 491 MHz | 4.27 kW (6.30 dBk) | 0.305 kW (-5.16 dBk) | 20.50 (13.12dB) | 17.58 (12.45dB) |

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AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. C-7111
Date 4-Apr-18
Call Letters K40FZ
Channel 17
Frequency 491 MHz
Antenna Type TLP-12B
Gain 1.64 (2.15dB)
Calculated

| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0 | 0.697 | 36 | 0.667 | 72 | 0.635 | 108 | 0.745 | 144 | 0.914 | 180 | 0.999 | 216 | 0.949 | 252 | 0.794 | 288 | 0.651 |
| 1 | 0.697 | 37 | 0.665 | 73 | 0.636 | 109 | 0.750 | 145 | 0.918 | 181 | 0.999 | 217 | 0.946 | 253 | 0.789 | 289 | 0.648 |
| 2 | 0.697 | 38 | 0.663 | 74 | 0.637 | 110 | 0.754 | 146 | 0.921 | 182 | 0.999 | 218 | 0.943 | 254 | 0.784 | 290 | 0.646 |
| 3 | 0.698 | 39 | 0.662 | 75 | 0.639 | 111 | 0.759 | 147 | 0.925 | 183 | 1.000 | 219 | 0.940 | 255 | 0.779 | 291 | 0.645 |
| 4 | 0.698 | 40 | 0.660 | 76 | 0.640 | 112 | 0.764 | 148 | 0.929 | 184 | 1.000 | 220 | 0.936 | 256 | 0.774 | 292 | 0.643 |
| 5 | 0.698 | 41 | 0.658 | 77 | 0.641 | 113 | 0.769 | 149 | 0.933 | 185 | 1.000 | 221 | 0.933 | 257 | 0.769 | 293 | 0.641 |
| 6 | 0.698 | 42 | 0.657 | 78 | 0.643 | 114 | 0.774 | 150 | 0.936 | 186 | 1.000 | 222 | 0.929 | 258 | 0.764 | 294 | 0.640 |
| 7 | 0.698 | 43 | 0.655 | 79 | 0.645 | 115 | 0.779 | 151 | 0.940 | 187 | 1.000 | 223 | 0.925 | 259 | 0.759 | 295 | 0.639 |
| 8 | 0.697 | 44 | 0.653 | 80 | 0.646 | 116 | 0.784 | 152 | 0.943 | 188 | 0.999 | 224 | 0.921 | 260 | 0.754 | 296 | 0.637 |
| 9 | 0.697 | 45 | 0.652 | 81 | 0.648 | 117 | 0.789 | 153 | 0.946 | 189 | 0.999 | 225 | 0.918 | 261 | 0.750 | 297 | 0.636 |
| 10 | 0.697 | 46 | 0.650 | 82 | 0.651 | 118 | 0.794 | 154 | 0.949 | 190 | 0.999 | 226 | 0.914 | 262 | 0.745 | 298 | 0.635 |
| 11 | 0.696 | 47 | 0.649 | 83 | 0.653 | 119 | 0.798 | 155 | 0.953 | 191 | 0.998 | 227 | 0.910 | 263 | 0.740 | 299 | 0.635 |
| 12 | 0.696 | 48 | 0.647 | 84 | 0.655 | 120 | 0.803 | 156 | 0.956 | 192 | 0.997 | 228 | 0.906 | 264 | 0.736 | 300 | 0.634 |
| 13 | 0.695 | 49 | 0.646 | 85 | 0.658 | 121 | 0.808 | 157 | 0.959 | 193 | 0.997 | 229 | 0.901 | 265 | 0.731 | 301 | 0.634 |
| 14 | 0.695 | 50 | 0.644 | 86 | 0.660 | 122 | 0.813 | 158 | 0.961 | 194 | 0.996 | 230 | 0.897 | 266 | 0.727 | 302 | 0.633 |
| 15 | 0.694 | 51 | 0.643 | 87 | 0.663 | 123 | 0.818 | 159 | 0.964 | 195 | 0.995 | 231 | 0.893 | 267 | 0.722 | 303 | 0.633 |
| 16 | 0.693 | 52 | 0.642 | 88 | 0.666 | 124 | 0.823 | 160 | 0.967 | 196 | 0.993 | 232 | 0.889 | 268 | 0.718 | 304 | 0.633 |
| 17 | 0.692 | 53 | 0.641 | 89 | 0.669 | 125 | 0.828 | 161 | 0.969 | 197 | 0.992 | 233 | 0.884 | 269 | 0.714 | 305 | 0.633 |
| 18 | 0.691 | 54 | 0.639 | 90 | 0.672 | 126 | 0.833 | 162 | 0.972 | 198 | 0.991 | 234 | 0.880 | 270 | 0.709 | 306 | 0.633 |
| 19 | 0.691 | 55 | 0.638 | 91 | 0.675 | 127 | 0.838 | 163 | 0.974 | 199 | 0.989 | 235 | 0.875 | 271 | 0.705 | 307 | 0.633 |
| 20 | 0.689 | 56 | 0.637 | 92 | 0.679 | 128 | 0.843 | 164 | 0.976 | 200 | 0.988 | 236 | 0.871 | 272 | 0.701 | 308 | 0.633 |
| 21 | 0.688 | 57 | 0.636 | 93 | 0.682 | 129 | 0.847 | 165 | 0.979 | 201 | 0.986 | 237 | 0.866 | 273 | 0.697 | 309 | 0.634 |
| 22 | 0.687 | 58 | 0.636 | 94 | 0.686 | 130 | 0.852 | 166 | 0.981 | 202 | 0.984 | 238 | 0.862 | 274 | 0.693 | 310 | 0.634 |
| 23 | 0.686 | 59 | 0.635 | 95 | 0.690 | 131 | 0.857 | 167 | 0.983 | 203 | 0.983 | 239 | 0.857 | 275 | 0.690 | 311 | 0.635 |
| 24 | 0.685 | 60 | 0.634 | 96 | 0.693 | 132 | 0.862 | 168 | 0.984 | 204 | 0.981 | 240 | 0.852 | 276 | 0.686 | 312 | 0.636 |
| 25 | 0.683 | 61 | 0.634 | 97 | 0.697 | 133 | 0.866 | 169 | 0.986 | 205 | 0.979 | 241 | 0.847 | 277 | 0.682 | 313 | 0.636 |
| 26 | 0.682 | 62 | 0.633 | 98 | 0.701 | 134 | 0.871 | 170 | 0.988 | 206 | 0.976 | 242 | 0.843 | 278 | 0.679 | 314 | 0.637 |
| 27 | 0.681 | 63 | 0.633 | 99 | 0.705 | 135 | 0.875 | 171 | 0.989 | 207 | 0.974 | 243 | 0.838 | 279 | 0.675 | 315 | 0.638 |
| 28 | 0.679 | 64 | 0.633 | 100 | 0.709 | 136 | 0.880 | 172 | 0.991 | 208 | 0.972 | 244 | 0.833 | 280 | 0.672 | 316 | 0.639 |
| 29 | 0.678 | 65 | 0.633 | 101 | 0.714 | 137 | 0.884 | 173 | 0.992 | 209 | 0.969 | 245 | 0.828 | 281 | 0.669 | 317 | 0.641 |
| 30 | 0.676 | 66 | 0.633 | 102 | 0.718 | 138 | 0.889 | 174 | 0.993 | 210 | 0.967 | 246 | 0.823 | 282 | 0.666 | 318 | 0.642 |
| 31 | 0.675 | 67 | 0.633 | 103 | 0.722 | 139 | 0.893 | 175 | 0.995 | 211 | 0.964 | 247 | 0.818 | 283 | 0.663 | 319 | 0.643 |
| 32 | 0.673 | 68 | 0.633 | 104 | 0.727 | 140 | 0.897 | 176 | 0.996 | 212 | 0.961 | 248 | 0.813 | 284 | 0.660 | 320 | 0.644 |
| 33 | 0.672 | 69 | 0.634 | 105 | 0.731 | 141 | 0.901 | 177 | 0.997 | 213 | 0.959 | 249 | 0.808 | 285 | 0.658 | 321 | 0.646 |
| 34 | 0.670 | 70 | 0.634 | 106 | 0.736 | 142 | 0.906 | 178 | 0.997 | 214 | 0.956 | 250 | 0.803 | 286 | 0.655 | 322 | 0.647 |
| 35 | 0.668 | 71 | 0.635 | 107 | 0.740 | 143 | 0.910 | 179 | 0.998 | 215 | 0.953 | 251 | 0.798 | 287 | 0.653 | 323 | 0.649 |

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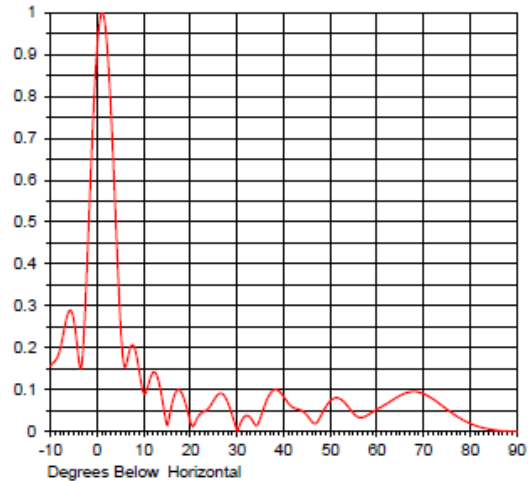
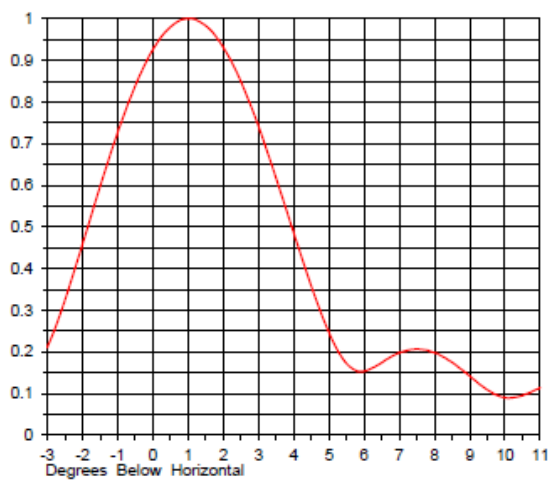


ELEVATION PATTERN

Proposal No. C-7111
 Date 4-Apr-18
 Call Letters K40FZ
 Channel 17
 Frequency 491 MHz
 Antenna Type TLP-12B

RMS Directivity at Main Lobe 12.5 (10.97 dB)
 RMS Directivity at Horizontal 10.7 (10.29 dB)
 Calculated

Beam Tilt 1.00 deg
 Pattern Number 12L125100



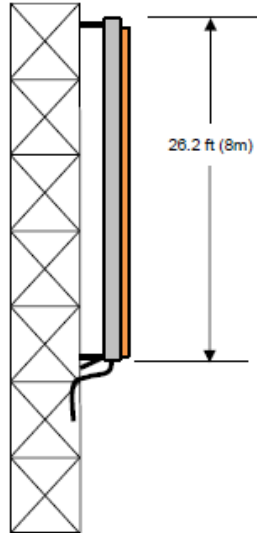
| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.156 | 10.0 | 0.090 | 30.0 | 0.000 | 50.0 | 0.074 | 70.0 | 0.090 |
| -9.0 | 0.170 | 11.0 | 0.114 | 31.0 | 0.027 | 51.0 | 0.080 | 71.0 | 0.094 |
| -8.0 | 0.197 | 12.0 | 0.142 | 32.0 | 0.038 | 52.0 | 0.078 | 72.0 | 0.077 |
| -7.0 | 0.250 | 13.0 | 0.125 | 33.0 | 0.030 | 53.0 | 0.069 | 73.0 | 0.089 |
| -6.0 | 0.288 | 14.0 | 0.070 | 34.0 | 0.014 | 54.0 | 0.056 | 74.0 | 0.061 |
| -5.0 | 0.262 | 15.0 | 0.015 | 35.0 | 0.034 | 55.0 | 0.042 | 75.0 | 0.052 |
| -4.0 | 0.171 | 16.0 | 0.066 | 36.0 | 0.066 | 56.0 | 0.034 | 76.0 | 0.044 |
| -3.0 | 0.211 | 17.0 | 0.097 | 37.0 | 0.090 | 57.0 | 0.034 | 77.0 | 0.037 |
| -2.0 | 0.459 | 18.0 | 0.093 | 38.0 | 0.100 | 58.0 | 0.039 | 78.0 | 0.030 |
| -1.0 | 0.727 | 19.0 | 0.082 | 39.0 | 0.096 | 59.0 | 0.046 | 79.0 | 0.024 |
| 0.0 | 0.926 | 20.0 | 0.021 | 40.0 | 0.082 | 60.0 | 0.053 | 80.0 | 0.019 |
| 1.0 | 1.000 | 21.0 | 0.022 | 41.0 | 0.067 | 61.0 | 0.059 | 81.0 | 0.014 |
| 2.0 | 0.931 | 22.0 | 0.041 | 42.0 | 0.057 | 62.0 | 0.066 | 82.0 | 0.010 |
| 3.0 | 0.742 | 23.0 | 0.048 | 43.0 | 0.053 | 63.0 | 0.073 | 83.0 | 0.008 |
| 4.0 | 0.496 | 24.0 | 0.058 | 44.0 | 0.048 | 64.0 | 0.080 | 84.0 | 0.005 |
| 5.0 | 0.247 | 25.0 | 0.076 | 45.0 | 0.038 | 65.0 | 0.086 | 85.0 | 0.003 |
| 6.0 | 0.154 | 26.0 | 0.089 | 46.0 | 0.023 | 66.0 | 0.091 | 86.0 | 0.002 |
| 7.0 | 0.188 | 27.0 | 0.088 | 47.0 | 0.021 | 67.0 | 0.094 | 87.0 | 0.001 |
| 8.0 | 0.188 | 28.0 | 0.068 | 48.0 | 0.039 | 68.0 | 0.095 | 88.0 | 0.000 |
| 9.0 | 0.142 | 29.0 | 0.035 | 49.0 | 0.059 | 69.0 | 0.093 | 89.0 | 0.000 |
| | | | | | | | | 90.0 | 0.000 |

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MECHANICAL SPECIFICATIONS



Proposal No. C-7111
 Date 4-Apr-18
 Call Letters K40FZ
 Channel 17
 Frequency 491 MHz
 Antenna Type TLP-12B

Preliminary Specifications

Side Mounted

With ice TIA/EIA-222-F

Height AGL 300 ft (91.4 m)
 Basic Wind Speed 90 m/h (144.8 km/h)

Design Ice 0.5 in (1.3 cm)
 Wind Speed w/ice 50 m/h (km/hr)

| Mechanical Specifications | | without ice | with ice | |
|-------------------------------|------|---|---|-----------------|
| Height | H2 | 26.2 ft (8m) | | |
| Height of Center of Radiation | H3 | 13.1 ft (4m) | | |
| Force Coeff. x Projected Area | CaAc | 25.2 ft ² (2.3m ²) | 30.7 ft ² (2.9m ²) | Mounts Excluded |
| Weight | W | 200 lb (0.1t) | 340 lb (0.2t) | Mounts Excluded |

Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA/EIA-222-F

Prepared by: JBC

Date: 4-Apr-18

ME:

EE:

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Summary

| | |
|--------------|----------|
| Proposal No. | C-7111 |
| Date | 4-Apr-18 |
| Call Letters | K40FZ |
| Channel | 17 |
| Frequency | 491 MHz |
| Antenna Type | TLP-12B |

Antenna

| | |
|------------|----------------------|
| | Hpol |
| ERP: | 4.27 kW (6.30 dBk) |
| Peak Gain* | 20.50 (13.12 dB) |

| | |
|---------------------|------------------------|
| Antenna Input Power | 0.208 kW -(6.81 dBk) |
|---------------------|------------------------|

Transmission Line

| | | | |
|------------|--------------|--------------|-------------|
| Type: | Flexline Air | Attenuation: | (1.66 dB) |
| Size: | 1-5/8" | Efficiency: | 68.3% |
| Impedance: | 50 Ohm | | |
| Length: | 350 ft | 106.7 m | |

Transmitter Output

| |
|------------------------|
| 0.305 kW -(5.16 dBk) |
|------------------------|

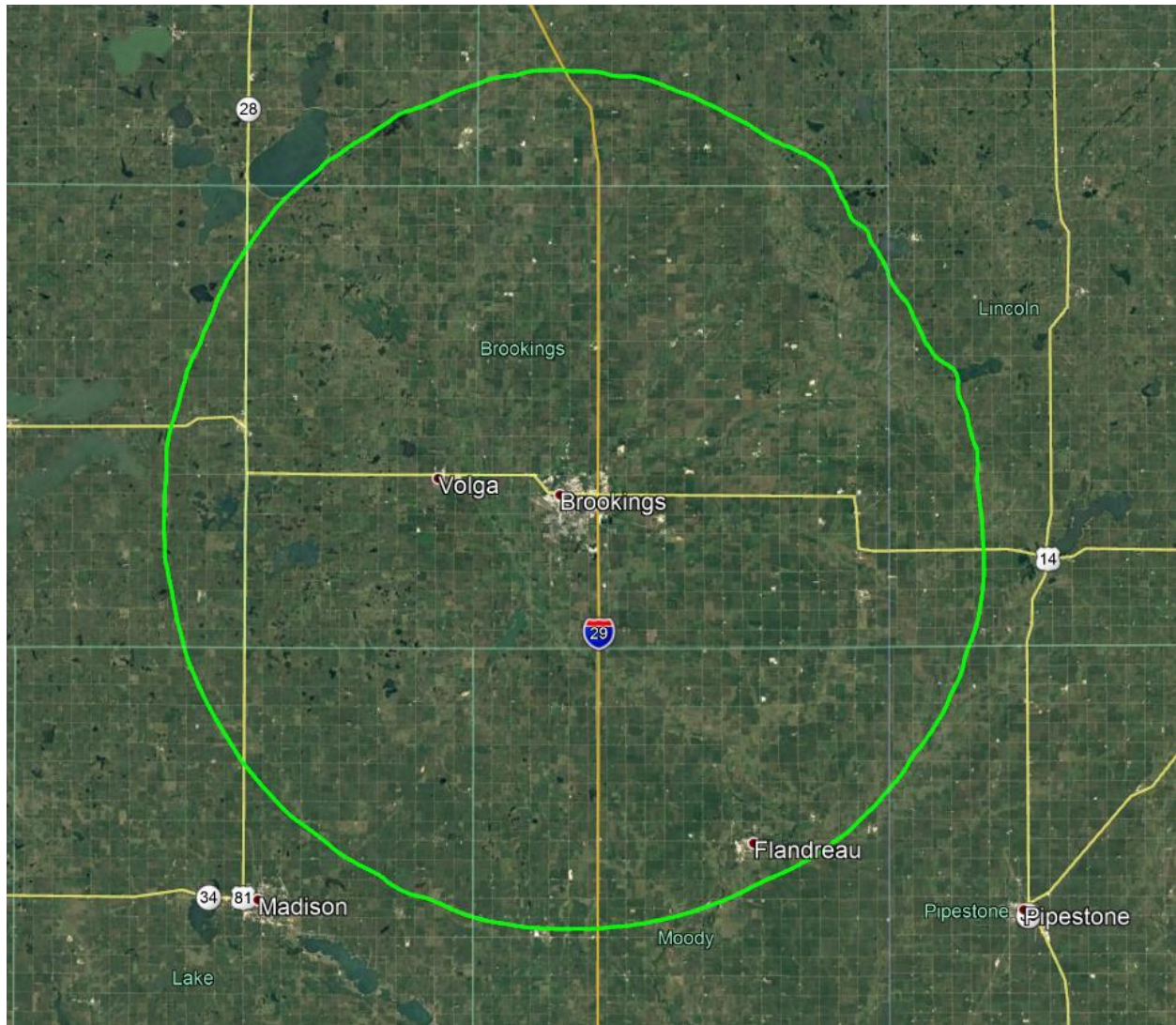
Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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EXHIBIT E2 – MAP SHOWING THE NOMALLY PROTECTED CONTOUR OF THE PROPOSED CHANNEL 17 FACILITY



Map Scale | ← 7mi. → |

CREATED USING TV STUDY .KML OUTPUT FILE

APRIL 2018

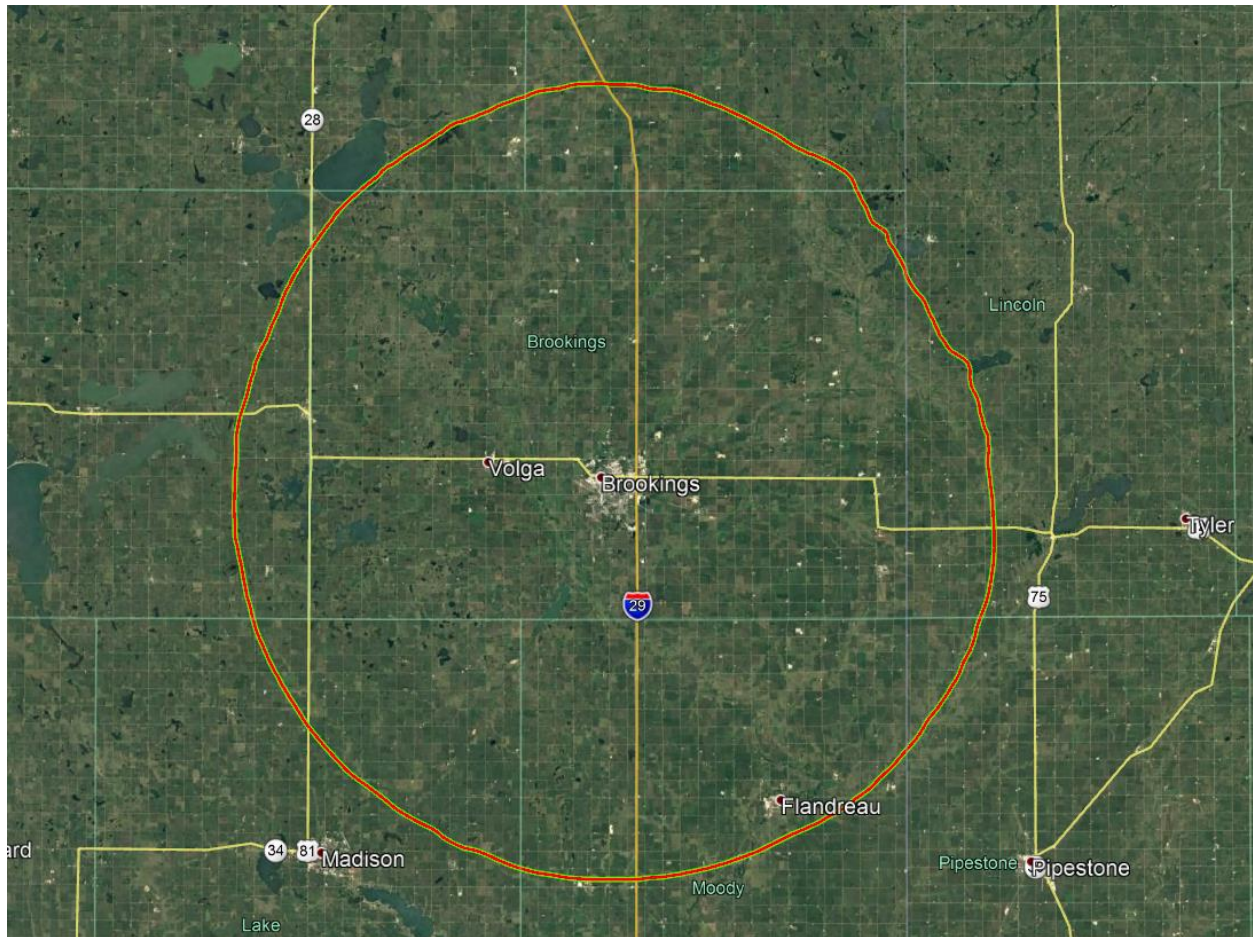
FOR THE PROPOSED DISPLACEMENT OPERATION OF

K40FZ-D, BROOKINGS, SOUTH DAKOTA

CHANNEL 17 – 4.27 kW ERP 596.5 METERS RC/AMSL

49.0 dBu F(50,90)

EXHIBIT E3 - COMPARISON OF PROPOSED CH17 49.0 dBu F(50,90) AND LICENSED CHANNEL 40 51 dBu F(50,90) NOISE-LIMITED CONTOUR



Green Contour = Proposed Channel 20 49.0 dBu F(50, 90)

Map Scale | ← 7mi. → |

Red Contour = Current License Channel 40 51 dBu F(50, 90)

CREATED USING TV STUDY .KML OUTPUT FILE

APRIL 2018

FOR THE PROPOSED DISPLACEMENT OPERATION OF

K40FZ-D, BROOKINGS, SOUTH DAKOTA

CHANNEL 17 – 4.27 kW ERP 596.5 METERS RC/AMSL

49.0 dBu F(50,90)

TABLE I

tvstudy v2.2.4 (Z2Qqz3)

Database: localhost, Study: K40FZ Brookings, SD on 17 (on 17), Model: Longley-Rice

Start: 2018.04.05 10:42:44

Study created: 2018.04.05 10:42:44

Study build station data: LMS TV 2018-04-05 (12)

Proposal: K40FZ-D D17 (D40+) LD LIC BROOKINGS, SD

File number: BLANK0000018919

Facility ID: 68032

Station data: LMS TV 2018-04-05 (12)

Record ID: 25076f915816498a0158b5f7d5e83d40

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

| IX | Call | Chan | Svc Status | City, State | File Number | Distance |
|----|---------|------|------------|-------------------|------------------|----------|
| No | K16CP-D | D16 | LD LIC | GRANITE FALLS, MN | BLDTL20110824ADB | 107.4 km |
| No | K17MH-D | D17 | LD CP | CEDAR FALLS, IA | BNPDTL20101013AB | 362.6 |

K40FZ-D BROOKINGS SOUTH DAKOTA

| | | | | | | |
|-----|---------|------|--------|-------------------|-------------------|-------|
| No | KQDS-TV | D17 | DT LIC | DULUTH, MN | BLCDT20060707ADN | 453.1 |
| No | WUMN-LD | D17 | LD LIC | MINNEAPOLIS, MN | BLDTL20141217AAM | 285.4 |
| No | K17BV-D | D17 | LD LIC | REDWOOD FALLS, MN | BLDTT20120604AAY | 144.9 |
| No | K17MA-D | D17 | LD CP | RUSHMORE, MN | BNPDTL20100510AHY | 112.6 |
| No | K17FE | N17+ | TX LIC | WADENA, MN | BLTT20021223AAH | 263.8 |
| No | K17FA-D | D17 | LD LIC | WILLMAR, MN | BLDTT20100122ABO | 164.3 |
| No | KBMY | D17 | DT LIC | BISMARCK, ND | BLCDT20090701ADJ | 401.7 |
| No | K17LT-D | D17 | LD CP | FARGO, ND | BNPDTL20100902AAZ | 275.6 |
| No | KYNE-TV | D17 | DT LIC | OMAHA, NE | BLANK0000019249 | 342.2 |
| No | KYNE-TV | D17 | DT APP | OMAHA, NE | BLANK0000035901 | 342.2 |
| Yes | KDSD-TV | D17 | DT LIC | ABERDEEN, SD | BLEDT20110816AAM | 147.2 |
| No | K17KW-D | D17 | LD CP | GETTYSBURG, SD | BLANK0000013919 | 276.2 |
| No | K17KW-D | D17 | LD LIC | GETTYSBURG, SD | BLANK0000013888 | 262.6 |
| No | WEAU | D17 | DT CP | EAU CLAIRE, WI | BLANK0000034098 | 461.7 |
| No | WLAX | D17 | DT LIC | LA CROSSE, WI | BLCDT20081105ABY | 435.0 |
| No | K18KG-D | D18 | LD LIC | SPENCER, IA | BLDTL20130327AAU | 187.6 |
| No | K18IR-D | D18 | LD LIC | OLIVIA, MN | BLDTT20120213ABO | 157.2 |
| Yes | K18IW-D | D18 | LD CP | RAPID CITY, SD | BPDTL20140613ABU | 66.1 |
| No | K18IW-D | D18 | LD LIC | RAPID CITY, SD | BLDTL20140228AEJ | 65.9 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17+

Mask: Simple

Latitude: 44 20 22.00 N (NAD83)

K40FZ-D BROOKINGS SOUTH DAKOTA

Longitude: 96 46 8.00 W

Height AMSL: 596.5 m

HAAT: 0.0 m

Peak ERP: 4.27 kW

Antenna: (replication) 0.0 deg

Elev Pattn: Generic

Elec Tilt: 0.50

49.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|--------|----------|
| 0.0 deg | 1.94 kW | 80.6 m | 32.3 km |
| 45.0 | 1.66 | 72.1 | 30.3 |
| 90.0 | 1.80 | 85.1 | 32.6 |
| 135.0 | 3.24 | 98.8 | 37.2 |
| 180.0 | 4.25 | 106.3 | 39.4 |
| 225.0 | 3.58 | 107.6 | 38.7 |
| 270.0 | 2.04 | 102.0 | 35.3 |
| 315.0 | 1.58 | 94.4 | 33.1 |

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 93 m

Distance to Canadian border: 514.0 km

Distance to Mexican border: 1631.6 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 200.2 degrees Distance: 403.3 km

K40FZ-D BROOKINGS SOUTH DAKOTA

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 239.1 degrees Distance: 836.4 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Interference to BLEDT20110816AAM LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|---------------|------------------|----------|
| Desired: | KDSD-TV | D17 | DT | LIC | ABERDEEN, SD | BLEDT20110816AAM | |
| Undesireds: | K40FZ-D | D17+ | LD | LIC | BROOKINGS, SD | BLANK0000018919 | 147.2 km |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|----------------|-----------------|-----------------|----------------|----------------|
| 17740.1 64,404 | 17027.8 59,677 | 17027.8 59,677 | 17024.7 59,623 | 0.02 0.09 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|---------------------|----------|-------------------|------------------|
| K40FZ-D D17+ LD LIC | 3.0 54 | | 3.0 54 |

K40FZ-D BROOKINGS SOUTH DAKOTA

Interference to BPDTL20140613ABU CP scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|----------------|------------------|----------|
| Desired: | K18IW-D | D18 | LD | CP | RAPID CITY, SD | BPDTL20140613ABU | |
| Undesireds: | K40FZ-D | D17+ | LD | LIC | BROOKINGS, SD | BLANK0000018919 | 66.1 km |
| | K18DG-D | D18z | LD | LIC | ALEXANDRIA, MN | BLANK0000024529 | 267.8 |
| | K18CD-D | D18 | LD | CP | LINCOLN, NE | BLANK0000036613 | 326.2 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|----------------|-----------------|-----------------|----------------|----------------|
| 4326.6 212,660 | 4320.6 212,659 | 4320.6 212,659 | 4319.6 212,655 | 0.02 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|---------------------|----------|-------------------|------------------|
| K40FZ-D D17+ LD LIC | 1.0 4 | | 1.0 4 |

Interference to proposal scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|----------------|------------------|----------|
| Desired: | K40FZ-D | D17+ | LD | LIC | BROOKINGS, SD | BLANK0000018919 | |
| Undesireds: | KDSD-TV | D17 | DT | LIC | ABERDEEN, SD | BLEDT20110816AAM | 147.2 km |
| | K17KW-D | D17 | LD | CP | GETTYSBURG, SD | BLANK0000013919 | 276.2 |
| | K18IW-D | D18 | LD | CP | RAPID CITY, SD | BPDTL20140613ABU | 66.1 |

| Service area | Terrain-limited | IX-free | Percent IX |
|---------------|-----------------|---------------|------------|
| 3827.3 39,576 | 3824.3 39,549 | 3823.3 39,549 | 0.03 0.00 |

| Undesired | Total IX | Unique IX | Prcnt Unique IX |
|--------------------|----------|-----------|-----------------|
| KDSD-TV D17 DT LIC | 1.0 0 | 1.0 0 | 0.03 0.00 |



VIA CERTIFIED MAIL & EMAIL

4/2/2018

LEIGHTON T. BROWN, ESQ. .
Holland & Knight LLP
800 17th St NW Ste 1100
Washington, DC 20006-3962

RE: Notification of Intent to Begin 600MHz Operations

Dear K40FZ-D Contact/ Facility ID: 68032:

T-Mobile USA, Inc. ("T-Mobile") is notifying you that T-Mobile is preparing to commence operations on its 600MHz spectrum in the Partial Economic Area ("PEA") # 290 by 8/14/2018 and your station is likely to cause harmful interference to T-Mobile's operations.

To determine if your station(s) is likely to cause interference, an interference analysis has been performed, as specified by the Federal Communications Commissions' ("FCC") Inter-service Interference procedures³, using publicly available information in the FCC's Licensing and Management System ("LMS") for your facility. This analysis predicts field strength at T-Mobile's base station and user equipment locations in the PEA # 290 market from your facility. The FCC has set the thresholds at which the predicted field strength from low power TV and translator stations creates a sufficient interference risk to wireless facilities. T-Mobile has determined that your facility exceeds those thresholds and is an interference risk to its wireless operations.

T-Mobile will commence its operations in the PEA # 290 market on 8/14/2018. This letter provides the 120 days' advance notification required by FCC regulations, 47 CFR §73.3700(g)(4). The FCC regulations also require you to cease operations or eliminate the potential for harmful interference to T-Mobile's wireless facilities in the PEA # 290 market.

The FCC will work with you to attempt find a new television channel outside of the new 600 MHz mobile band that will not interfere with T-Mobile's network. You should review the FCC's Tools Available to LPTV/Translator Station Public Notice (enclosed) released on June 14, 2017 and contact Hossein Hashemzadeh, Melvin Collins, or Barbara Kreisman at the FCC for more information about the options available in your area.⁴

Please email SpectrumClearing@T-Mobile.com once you have determined when you will eliminate the interference. If you would like additional information regarding our findings or if it might be possible to coordinate our operations, please submit a request to Dan Wilson, Sr. Manager, Spectrum Engineering, at SpectrumClearing@T-Mobile.com.

Sincerely,

/s/ Mark Bishop

Sr. Manager, Spectrum Engineering, T-Mobile USA, Inc.

³ See 30 FCC Rcd 12049, 12071, para. 49 (2015)

⁴ See <https://www.fcc.gov/document/iatf-mb-set-forth-tools-available-lptvtranslator-stations>