

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of ALASKA BROADCAST TELEVISION, INC., licensee of Class A Low Power Television Station KCFT-LP, Channel 20 in Anchorage, Alaska, in support of this application for modification of Construction Permit BDISDTA-20100517ADR, which authorizes operation on Channel 35. The purpose of this application is to specify a directional antenna. No change in effective radiated power, transmitter site location, or antenna height is proposed herein.

It is proposed to mount a Shively directional antenna at the 25-meter level of the existing 28-meter communications tower on which the analog KCFT-LP antenna is located. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the proposed 51 dBu contour continues to encompass the entire Grade A contour that obtains from the licensed analog KCFT-LP facility. Operating parameters for the proposed facility are tabulated in Exhibit C. An interference study is provided in Exhibit D, and a power density calculation follows as Exhibit E.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1062073 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.



KYLE T. FISHER

April 23, 2012

CONTOUR POPULATION
51 DBU : 249,429

SMITHANDFISHER



EXHIBIT B
PREDICTED SERVICE CONTOUR
PROPOSED KCFT-LD
CH. 35 - ANCHORAGE, ALASKA

EXHIBIT C

PROPOSED OPERATING PARAMETERS

**PROPOSED KCFT-LD
CHANNEL 35 – ANCHORAGE, ALASKA
[MODIFICATION OF BDISDTA-20100517ADR]**

| | |
|--|------------------------|
| Transmitter Power Output: | 0.57 kW |
| Transmission Line Efficiency: | 87.0% |
| Antenna Power Gain – Main Lobe: | 30.0 |
| Effective Radiated Power – Main Lobe: | 15.0 kW |
| Transmitter Make and Model: | Type-accepted |
| Transmission Line Make and Model: | Andrew LDF7-50A |
| Size and Type: | 1-5/8" foam heliax |
| Length: | 100 feet* |
| Antenna Make and Model: | Shively 2050-12/HSC140 |
| Orientation | 315 degrees true |
| Beam Tilt | none |
| Radiation Center Above Ground: | 25 meters |
| Radiation Center Above Mean Sea Level: | 540 meters |

*estimated

EXHIBIT D-1

LONGLEY-RICE INTERFERENCE STUDY
PROPOSED KCFT-LD
CHANNEL 35 – ANCHORAGE, ALASKA
[MODIFICATION OF BDISDTA-20100517ADR]

We conducted a detailed interference study using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to all facilities of concern. The software utilizes a 1-square kilometer cell size, calculates signal strength at 1.0 kilometer increments along each radial studied, and employs the 2000 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than proposed KCFT-LD) already is predicted to exist (also known as "masking"). The results of this study are provided in Exhibit D-2. It concludes that the facility proposed herein causes no significant new interference to any of the potentially affected stations, except for a recently granted low power television station authorization on Channel 34 in Anchorage, Alaska (BNPDTL-20090827ACR). However, since the instant proposal causes no additional interference to BNPDTL-20090827ACR (above and beyond that caused by the authorized KCFT-LD facility) this situation can be ignored.

Accordingly, it is believed that the proposed KCFT-LD facility complies with the requirements of Sections 73.6016, 73.6017, 73.6018, 73.6019, 73.6020, 73.6027 and 74.794(b) of the Commission's Rules.

INTERFERENCE SUMMARY**PROPOSED KCFT-LD
CHANNEL 35 – ANCHORAGE, ALASKA**

| <u>Call Sign</u> | <u>Status</u> | <u>City, State</u> | <u>Ch.</u> | <u>Longley-Rice Service Population</u> | <u>Unmasked Interference From Proposed Facility</u> | <u>%</u> | . |
|---------------------------|---------------|--------------------|------------|--|---|----------|---|
| NEW BNPDTL-20090827ACR | CP | Anchorage, AK | 34 | 296,412 | 0* | 0.0 | |

*The instant proposal causes no additional interference to BNPDTL-20090827ACR above and beyond that caused by the authorized KCFT-LD facility.

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED KCFT-LD
CHANNEL 35 – ANCHORAGE, ALASKA
[MODIFICATION OF BDISDTA-20100517ADR]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Anchorage facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15.0 kw, an antenna radiation center 25 meters above ground, and the specific elevation pattern of the proposed Shively antenna, maximum power density two meters above ground of 0.037 mw/cm^2 is calculated to occur 5.7 meters northwest of the base of the tower. This value is only 1.9 percent of the 2.0 mw/cm^2 reference for controlled environments (areas without public access) surrounding a facility operating on Channel 35 (596-602 MHz). Since the area surrounding the KCFT-LD transmitter site is secured by fence and locked gate and therefore is inaccessible to the public, this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to non-ionizing 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.