

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KTVK, Inc., licensee of television translator K11LC, Channel 11 in Prescott, Arizona, in support of this Application for Construction Permit to specify digital operation on Channel 11 from the licensed K11LC site, as a "flashcut" proposal.

It is proposed to utilize the licensed Scala directional antenna, which is mounted at the 6-meter level of an existing 10-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed K11LC 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. Due to diminutive height of the tower and its proximity to the nearest airport runway, FCC antenna structure registration is not required. This conclusion is supported by the Commission's TOWAIR program.

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

February 8, 2011

CONTOUR POPULATIONS

48 DBU : 87,784

36 DBU : 114,760

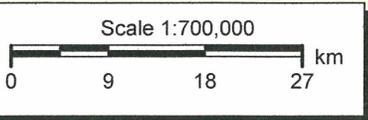


EXHIBIT B

PROPOSED OPERATING PARAMETERS

PROPOSED K11LC-D
CHANNEL 11 – PRESCOTT, ARIZONA

Transmitter Power Output:	0.02 kw
Transmission Line Efficiency:	97.8%
Antenna Power Gain – Toward Horizon:	10.0
Antenna Power Gain – Main Lobe:	10.0
Effective Radiated Power – Toward Horizon:	0.2 kw
Effective Radiated Power – Main Lobe:	0.2 kw
Transmitter Make and Model:	Type-accepted
Transmission Line Make and Model:	Andrew LDF5-50A
Size and Type:	7/8" foam heliax
Length:	20 feet
Antenna Make and Model:	Scala HDCA-10/HCM
Orientation	0 degrees true
Beam Tilt	None
Radiation Center Above Ground:	6 meters
Radiation Center Above Mean Sea Level:	2131 meters

LONGLEY-RICE INTERFERENCE STUDY
PROPOSED K11LC-D
CHANNEL 11 – PRESCOTT, ARIZONA

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 0.1 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 that proposed K11LC-D) 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.

As a result, it is believed that the proposed K11LC-D facility complies with the requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030 of the Commission's Rules.

INTERFERENCE SUMMARY

PROPOSED K11LC-D
CHANNEL 11 – PRESCOTT, ARIZONA

<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>
KPDT-LD BDCCDVL-20061002AEN	CP	Prescott, AZ	12	136,110	581	0.4

POWER DENSITY CALCULATION
PROPOSED K11LC-D
CHANNEL 11 – PRESCOTT, ARIZONA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Prescott facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 0.2 kw, an antenna radiation center 6 meters above ground, and assuming a vertical relative field value of 20 percent at the steeper elevation angles for the Scala antenna, maximum power density two meters above ground of 0.017 mw/cm^2 is calculated to occur near the base of the tower. Since this 8.5 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 11 (198-204 MHz), a grant of this proposal can be considered a minor environmental action with respect to public exposure to nonionizing 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.
