

TECHNICAL STATEMENT
ENVIRONMENTAL CONSIDERATIONS
APPLICATION FOR CONSTRUCTION PERMIT
DIGITAL COMPANION CHANNEL FOR K02KJ (DIGITAL)
DEL NORTE, COLORADO
CHANNEL 46 0.25 KW

An evaluation was conducted for the proposed facility concerning compliance with Section 1.1307(b) of the FCC Rules regarding human exposure to radio frequency (RF) energy.*

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground[†] based on the following conservative assumptions, with the following results:

Call Sign	Channel	Average ERP (kW)	Distance (m)	Relative Field Factor [‡]	FCC Limit [§] (mW/cm ²)	Percentage of Limit
K02KJ	46	0.25	24	0.5	0.443	0.8%

As indicated above, the exposure to RF radiation at 2-m above ground level will not exceed 0.8% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant, in coordination

* See FCC Office of Engineering and Technology Bulletin No. 56 for background information on non-ionizing RF energy of the type discussed here. Internet web reference:

http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf

[†] The radiation center height above ground is 26 m.

[‡] This is a conservative estimate of the downward relative field factor at steep elevation angles.

[§] for general population/uncontrolled environments

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with other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from radio frequency radiation in excess of the FCC guidelines.



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