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ENVIRONMENTAL AND RADIO FREQUENCY STATEMENT OF COMPLIANCE

The KTXD-TV transmit antenna is located at a multiple-use transmitter site. In accordance with Section 1.1307(b) of the FCC Rules, "when performing an evaluation for compliance with the FCC RF guidelines all significant contributors to the ambient RF environment should be considered". As discussed below, the KTXD-TV predicted power density contribution at the multiple-use site is not considered significant and does not require consideration.

As shown on the vertical elevation pattern submitted elsewhere in this application, the relative field of the proposed antenna does not exceed a value of 0.2 at any downward direction greater than 4.0 degrees below the horizontal. Considering this worst-case downward relative field of 0.2, KTXD-TV is predicted to produce a maximum power density of only 8.63 microwatts per square centimeter at two meters above ground level at the multiple-use transmitter site. This represents only 2.46% of the FCC Guideline value of 351.33 microwatts per square centimeter for uncontrolled RFR environments at the KTXD-TV operating frequency. Pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would contribute less than 5% of the uncontrolled and controlled exposure limit at the multiple use site, the proposal's power density contribution is insignificant.

Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed KTXD-TV facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

APPENDIX A

SUMMARY OF RADIOFREQUENCY
RADIATION STUDY
KTXD-TV, Greenville, Texas
CHANNEL 23, 1000 kW ERP, 512.6 m HAAT
October, 2017

CALL	SERVICE	CHANNEL	FREQUENCY	POLARIZATION	ANTENNA HEIGHT ** mAGL	ERP (kW)	VERT. RELATIVE FIELD FACTOR	PREDICTED POWER DENSITY (mW/cm^2)	FCC UNCONTROLLED LIMIT (mW/cm^2)	PERCENT OF UNCONTROLLED LIMIT
KTXD-TV	DT	23	527	H	448.7	1000.000	0.200	0.00664	0.351	1.89%
KTXD-TV	DT	23	527	V	448.7	300.000	0.200	0.00199	0.351	0.57%
								TOTAL PERCENTAGE OF ANSI VALUE=		2.46%

*** The antenna heights indicated above are 2 meters less than the actual antenna heights so that the predicted power densities consider the 2 meter human height allowance.*

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