RF HAZARD STATEMENT APPLICATION FOR CONSTRUCTION PERMIT CLASS A STATION KRNS-CD RENO, NEVADA CHANNEL 18 15 KW (MAX-DA)

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy 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	Total ERP (kW) ²	Distance (m)	Relative Field Factor ³	FCC Limit ⁴ (mW/cm ²)	Percentage of Limit
KRNS-CD	18	18.75	21	0.1	0.331	4.3%

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 4.3% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures are taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure.

² Horizontally polarized ERP 15 kW, Vertically polarized ERP 3.75 kW.

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¹ The radiation center is located 23 m above ground level.

³ This is a conservative assumption for the maximum relative field at steep downward angles. See attached vertical relative field pattern.

⁴ For general population/uncontrolled environments



ELEVATION PATTERN

Proposal No. C-70720

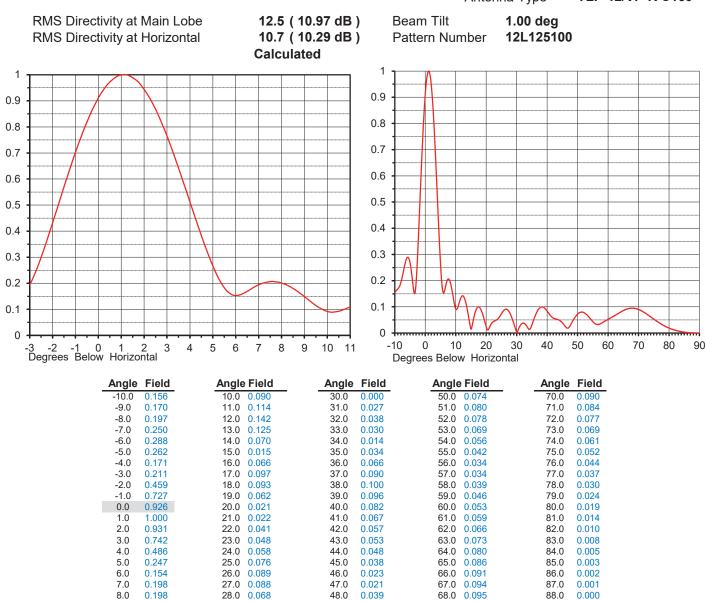
Date 6-May-17

Call Letters KRNS

Channel 18

Frequency 497 MHz

Antenna Type TLP-12/VP-R C160



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49.0

0.059

69.0 0.093

89.0

0.000

0.142

29.0 0.035