

MODIFY BLED-19930324KB
BOARD OF REGENTS OF THE NEVADA SYSTEM
OF HIGHER EDUCATION
KNCC (FM) RADIO STATION
CH 218A - 91.5 MHZ - 0.054 KW
ELKO, NEVADA
April 2011

EXHIBIT A

KNCC Transmission System Calculations

Effective Radiated Power:	
Horizontal	0.054 kilowatt
Vertical	0.054 kilowatt
Antenna:	Shively 6812B 2 bay full wavelength spaced
Horizontal gain	0.99
Transmission Line:	Andrew Corporation LDF4-50A (85 feet) 1/2 inch air dielectric 88.0% Efficiency
Bandpass filter:	TWPC-1005-2 Insertion loss: 1.5 dB 70.8% Efficiency
Isolator:	EMR FM7350/4AH Insertion loss: 0.5 dB 89.1% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.098 kilowatt (98 watts)

Facilities Authorized:	Channel 218A - 91.5 MHZ
Effective Radiated Power:	0.054 kilowatt (H/V)
Geographic Coordinates: ²	North Latitude 40° 53' 41" West Longitude 115° 37' 44"
Antenna Center of Radiation:	Above Ground 9.0 meters Above MSL 2,297.0 meters HAAT 622.0 meters
Antenna Structure Registration Number:	N/A