

MODIFICATION OF STATION LICENSE
JYH BROADCASTING
KNOB RADIO STATION
CH 244A - 96.7 MHZ - 2.4 KW
HEALDSBURG, CALIFORNIA
April 2009

EXHIBIT A

KNOB Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	2.4 kilowatts (H/V)
Antenna:	Shively Labs.
	6814BB-2-SS 2 bay half wavelength spaced
Horizontal gain	0.70 ¹
Transmission Line:	Andrew HJ7-50A
(40 feet)	1 5/8 inch air dielectric
	98.1% Efficiency
Transmission Line:	Andrew LDF5-50
(15 feet)	7/8 inch foam dielectric
	98.8% Efficiency
Transmission Line:	Andrew LDF6-50
(9 feet)	1 1/4 inch foam dielectric
	99.4% Efficiency
Transmitter combiner:	Shively Labs - Branch Combiner - 2630-2A-06
	Insertion loss : 0.416 dB
	90.866% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	3.9204 kilowatts

1) The gain is slightly different than that of a standard two bay half wavelength system, due to the fact that the antenna is being shared by another station and the gain value differs from frequency to frequency. A vertical elevation pattern of the antenna is included in Exhibit C.

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EXHIBIT A (continued)

Facilities Authorized:	Channel 244A - 96.7 MHz
Effective Radiated Power:	2.4 kilowatts (H/V)
Geographic Coordinates:	North Latitude 38° 44' 08" West Longitude 122° 50' 55"
Antenna Center of Radiation:	Above Ground 17.0 meters Above MSL 581.0 meters HAAT 156.0 meters
Antenna Structure Registration #:	N/A