

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**KXPC (FM) RADIO STATION**  
**CH 250C1 - 97.9 MHZ - 9.7 KW**  
**ALOHA, OREGON**  
**July 2013**

**EXHIBIT A**

**KXPC Transmission System Calculations**

Effective Radiated Power :	10.0 Kilowatts (horizontal/vertical)
Antenna:	Shively 6014-8/3-(0.875)-NF-BT 8 bay, Three Around Circular Polarization Panel Antenna with 0.875° Beam Tilt and Null Fill
Gain	3.025
Transmission Line (X2) (815 feet) : Loss	6 1/8 inch air dielectric 0.4075 dB
Filter Insertion Loss :	0.4 dB
Other Losses :	0.25 dB
Total Losses :	1.0575 dB 0.78388 Power Factor
Required Transmitter Power Output To Reach Effective Radiated Power:	3.925 Kilowatts

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**EXHIBIT A (continued)**

**KXPC Transmission System Calculations**

Facilities Authorized:	Channel 250C1 - 106.9 MHZ
Effective Radiated Power:	9.7 kilowatts (H/V) Horizontal Plane 10.0 kilowatts (H/V) Maximum Beam
Geographic Coordinates:	North Latitude 45° 31' 21" West Longitude 122° 44' 45"
Antenna Center of Radiation:	Above Ground 219.0 meters Above MSL 561.0 meters HAAT 472.0 meters
Antenna Structure Registration #:	1204059