

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
K253CF FM TRANSLATOR STATION
CH 253D - 98.5 MHZ - 0.25 KW
COTTAGE GROVE, OREGON
June 2017

EXHIBIT A

K253CF Transmission System Calculations

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|---|--|
| Effective Radiated Power: | 0.25 Kilowatt (Horizontal/Vertical) |
| Antenna: | Shively 6812B-4-CF Four bay half wavelength antenna |
| Power Gain | 1.32 |
| Transmission Line: (155 feet / 47.2 meters) | LDF4-50 1/2 inch air dielectric 78.3% Efficiency |
| Required Transmitter Power Output To Reach Effective Radiated Power: | 0.242 Kilowatt (242 Watts) |

| | |
|-----------------------------------|---|
| Facilities Authorized: | Channel 253D - 98.5 MHz |
| Effective Radiated Power: | 0.25 Kilowatt (H/V) |
| Geographic Coordinates: | North Latitude 43° 46' 41" West Longitude 123° 02' 33" |
| Antenna Center of Radiation: | Above Ground 39.0 meters Above MSL 478.0 meters |
| Antenna Structure Registration #: | 1272316 |