

Engineering Special Temporary Authority Request KDOA-LP 97.5 FM Vancouver, Wash

Rusting Sprocket Arts (“RSA”), licensee of KDOA-LP Vancouver, requests an Engineering STA for a temporary broadcast site due to unforeseen damage to its broadcast chain.

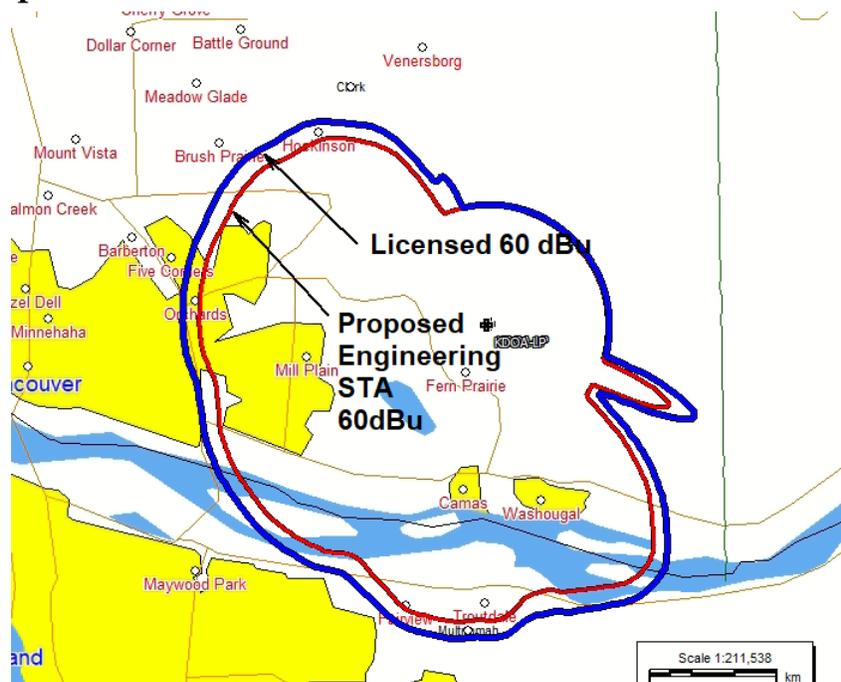
Within the last few days its Telecom FDCSDCo3 Star Point Combiner, which allows the station to share a broadcast antenna with KIEV-LP Camas, WA, failed. This required taking KDOA-LP offline and just running KIEV-LP through the feedline.

RSA requests a temporary operation within 40 feet of the KDOA-LP licensed broadcast site. This would include attaching a FM folded dipole antenna to an existing pole at the site.

RSA believes there is good cause to grant a temporary facility and that maintaining the license of KDOA-LP is in the public interest. The situation constitutes extraordinary circumstances beyond the control of the licensee, permitting restoration or relocation of existing facilities to continue communication service. The station is a community LPFM, which delivers important hyperlocal programming to its community. The temporary antenna would permit broadcast while its equipment is being repaired.

RSA expects the station to be back on air no longer than mid-September 2023. The combiner needs to be repaired, and a new broadband FM antenna is to be installed, which has already been purchased.

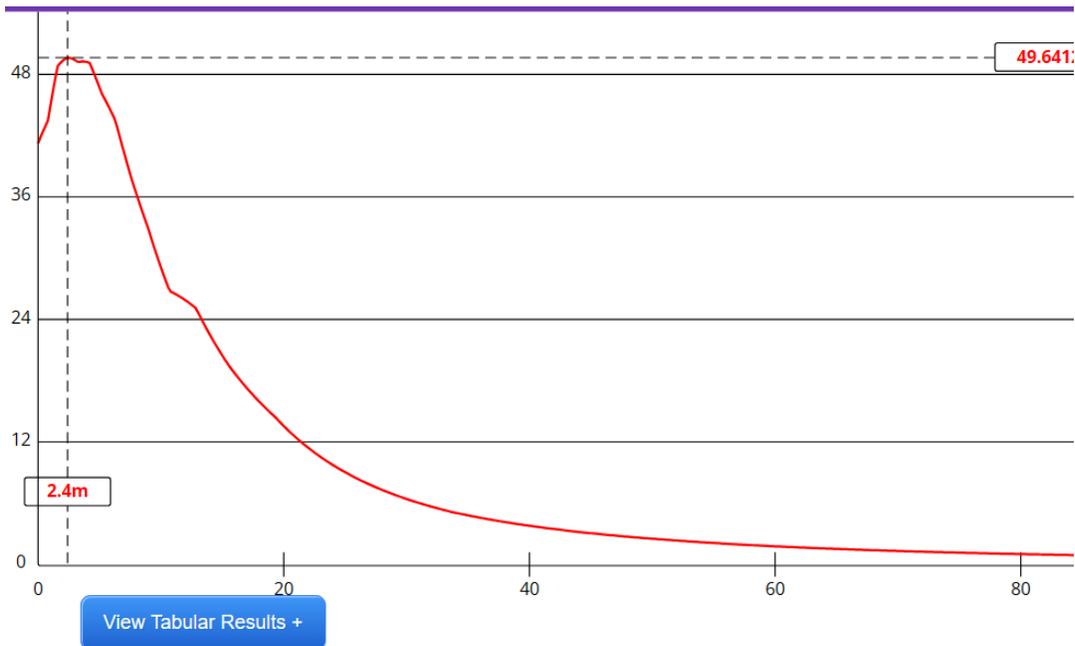
Technical Proposal



Channel: 248
New Location: 45 39 22.3 N, 122 23 07.8 W(NAD 83)

Antenna AGL 12.8 m
 Antenna Ground 234.3 m
 Antenna COR 247.1 m
 HAAT 11.8 m
 ERP 80 w
 Antenna: 1-bay Scala FMVP - Slant Mounted (0.5x gain)
 Coax: 75 ft RG-213 (1.565 db loss)
 TPO 287 w (87 watts loss through coax = 200 watts into antenna, 0.5x gain = 100 watts ERP)
 TOWAIR Pass / Established site (KIEV-LP).
 NIER: See below

Radio antenna 12.7 m above ground, or 11 m above a human male 1.7 m. The level of 49.6 $\mu\text{W}/\text{cm}^2$ is less than 25% of the FCC's Maximum Permissible Exposure (MPR) for 200 $\mu\text{W}/\text{cm}^2$ for Unrestricted Areas so the proposal passes compliance.



Channel Selection	Channel 248 (97.5 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="11"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="100"/>	ERP-V (W)	<input type="text" value="100"/>
Num of Elements	<input type="text" value="1"/>	λ	<input type="text" value="0"/>
Num of Points	<input type="text" value="500"/>	Apply	

