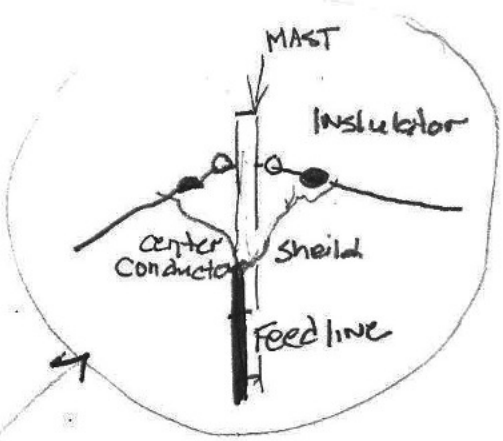
Engineering STA
KYLW(AM), Lockwood, MT FAC# 129384
4/5/2017

Licensee respectfully requests an engineering STA for an emergency antenna site for KYLW for a period of 180 days. The instant application is a proposal for a long-wire inverted "V", attached to an existing pole. Licensee has lost the use of the previously licensed site and is in the process of locating an alternate tower site from which to broadcast. KYLW is the only AM station licensed to Lockwood and is currently off air. It would serve the public interest to allow KYLW to return to service at reduced ERP under the authority of the proposed engineering STA. The proposed facility will provide service to the city of license and is not expected not cause any interference. The predicted STA coverage will not extend beyond the licensed protected contour of KYLW(AM). The technical parameters of the proposal are as follows:

Transmitter site:	.19km NW jct. Coburn Rd and Black Eagle Trail
Coordinates:	45-46-4.68N, 108-22-25.05W (NAD27)
Frequency:	1450 kHz
Operating Hours:	Unlimited
Operating Power:	.03kw
Antenna:	long-wire (inverted "V"), ¼ λ 51.7m, attached to existing pole
Overall Height:	10.7m
ASRN:	NA, unregistered

The long-wire antenna is over 3m AGL at the lowest point. The entire Sacrifice Cliff Electronics Site is fenced with a locked gate to prevent casual unauthorized persons from accessing the site. Appropriate warning signs are posted throughout the site. Please refer to the attached sketch of the long-wire inverted "V" facility.

nverted V Emergency Ant.



ormula: 468/fmhz = 1/2 WAVE
center fed

equal sides 1/4 wavelength 1/2 wave total span.

150' to 160'

150' + or - 10' due to capacitive coupling to ground

ylon ROPE

MAST 40'

Nylon ROPE

MAST 15'

17'

MAST 15'

GROUND LEVEL

50Ω coaxial feedline buried to Transmitter
RG-213, LMR-400 or similar

Expected IMPEDANCE 50Ω j0