

March 22, 2017

I certify that the following FM translators have been checked for spurious emissions and modulation and that they comply with the requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d).

Kihei, HI. K212FS 90.3 K217GE 91.3

Measurements were taken using a calibrated RF spectrum analyzer connected to the transmission line through an in-line watt meter -40dB sample port. An 88-108 Band reject filter was used to check frequencies outside of FM BROADCAST band.

Signed:

Jeremy Estabrooks
Field Engineer
Calvary Chapel of Twin Falls, Inc.

Intermod Calculation Sheet

			Fundamental	First Harmonic	Second Harmonic	
Frequency A:	90.3	1.7	90.3	180.6	270.9	
Frequency B:	91.3	1.6	91.3	182.6	273.9	

Note: Frequency B should be the greater of the two.

Second Order Products		1			1.2	
		181.6	N		87.9	N
		180.6	N		91.5	-63
		182.6	N		178.2	N
Third Order Products		92.3	-52		179.4	N
		89.3	-51		180.6	N
		272.9	N		267.3	N
		271.9	N		268.5	N
		270.9	N		269.7	N
		273.9	N		270.9	N

Noise floor: -68

USB-SA44B Spectrum Analyzer -40dB port on watt meter.

88-108 Band reject filter used to check frequencies outside of FM BROADCAST band