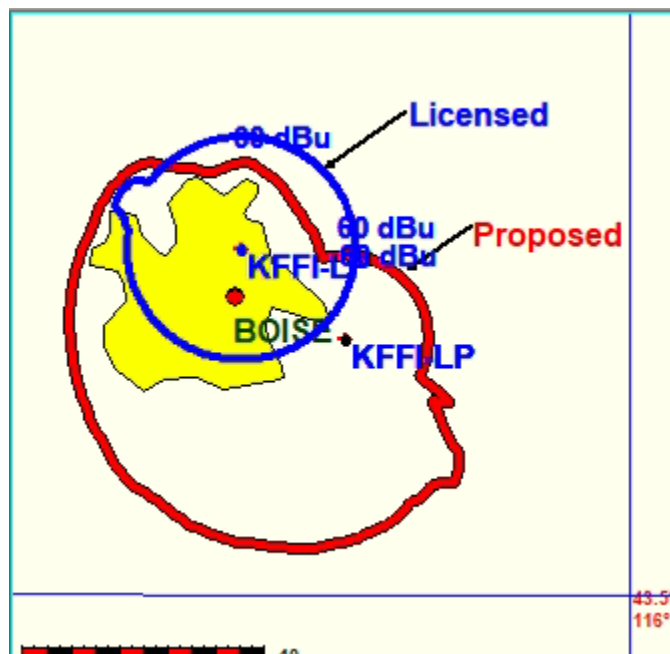


## Minor Change - Technical Attachment

### (1) Minor Change - Overlapping Licensed and Proposed



### (2) HAAT = 75 m, equaling 16 watts ERP

**Antenna Height Above Average Terrain Calculations -- Results**

**Input Data**

Latitude 43° 35' 52.8" North  
Longitude 116° 8' 45.8" West (NAD 83)

These coordinates convert to NAD 27 coordinates of  
43° 35' 53.20", North, 116° 08' 42.39" West (NAD 27).

Height of antenna radiation center above mean sea level: 1136 meters AMSL

Number of Evenly Spaced Radials = 8 0° is referenced to True North

**Results**

Calculated HAAT = 75 meters

Antenna Height Above Average Terrain calculated  
using FCC 30 second terrain database (continental USA only)

**Individual "Radial HAAT" Values, in meters**

Angle	HAAT (m)
0°	146.6
45°	197.1
90°	129.3
135°	90.0
180°	176.4
225°	251.9
270°	305.8
315°	252.9

Select Contour Type: F(50,50) Service Contour -- FM and NTSC (analog) TV  
F(50,10) Interfering Contour  
F(50,90) Digital TV Service Contour

Select Channel Range: FM Radio or TV Transmit Channels 2-6  
TV Transmit Channels 7-13  
TV Transmit Channels 14-69

Find This: Field Strength, given a Distance (in km)  
Distance, Given a Field Strength (in dBu)  
FM ERP, given Distance and Field Strength [F(50,50) Service Contour]

ERP (kW) 5.64 Distance (km)

HAAT (meters) 75 Field (dBu) 60

Find Result Clear Form

**Results:**

Calculated ERP (rounded per Section 73.212) = 0.016 kW  
(FM 60 dBu Service Contour only)

Unrounded ERP = 0.015875 kW

### (3) Spacing

REFERENCE  
 43 35 52.80 N. CLASS = L1 DATA 12-21-23  
 116 08 45.80 W. Current Spacings to 2nd Adj. SEARCH  
 12-22-23

----- Channel 276 - 103.1 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
KZMG	LIC 274C	Melba	ID	12.4	17.84	92.5	-74.7
KSAS-FM	LIC 278C	Caldwell	ID	12.3	17.84	92.5	-74.7
KFFI-LP	LIC 276L1	Boise	ID	311.7	5.71	23.5	-17.8
K276GE	LIC 276D	Notus	ID	299.5	56.37	38.5	17.9
AL1713	RSV-A 276C1	Jerome	ID	123.9	170.29	110.5	59.8
KEDJ	LIC 276C1	Jerome	ID	123.9	170.29	110.5	59.8
AU9111338VAC	276C3	Mccall	ID	1.4	145.63	77.5	68.1

-----  
 RSV-R = reserved - needs protection, RSV-A = allocation.  
 All separation margins include rounding

#### (4) Waiver Request

##### SECOND ADJACENT WAIVER REQUEST

Applicant respectfully requests a "second adjacent channel waiver" with regards to Section 47 C.F.R. Section 73.807 of the FCC rules based upon the "Living Way" precedent (Living Way Ministries, Inc., Memorandum Opinion and Order, 17 FCC Red 17054, 17056, ¶ 5 (2002), recon. denied 23 FCC Red 15070 (2008)). This will be accomplished by using Free Space methodology of calculation.

Second adjacent channels KZMG and KSAS-FM have a signal strengths of 95.4 dBu and 95.7 dBu at the proposed site. Interference occurs with the proposed station where the proposed station's signal is +40 dB above 95.4 or 135.4 dBu.

The distance to this contour, using free space method:

$$D = (7.01 \cdot P^{1/2}) / E,$$

where P is power (watts), E is field strength (v/m), and D is distance to contour (meters):

P = 16 w, E = 135.4 dBu D = 4.7 meters

Antenna is proposed at 20 m above ground, so the interference area is contained 100% above the ground. Since zero population is affected, the proposed meets the criteria to request a waiver.