

## **Non-Interference Compliance**

Regarding Facility id 141125

Channel 224

### **Description of Exhibit 13 Contents**

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all of the applicable rule sections and that this application for a construction permit is in full compliance with 47 C.F.R. § 74.1204.

**Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.**

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

*[A]n application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.*

Page 3 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 4 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using the free space equation and 120 radials.

Page 5 of this exhibit is an aerial photo of the vicinity surrounding the proposed translator's tower site.

**Note: There are no buildings or major roads within the zone of predicted interference so, a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.**

**Note: This application is a proposal for a 2<sup>nd</sup> adjacent fill-in for KEZQ, Iona, ID, FAC# 23306. Please refer to the contour map attached to Exhibit 4. The 60 dBμ F (50,50) of this proposal is entirely contained within the 60 dBμ F(50,50) of the proposed CP fo KEZQ. Furthermore, the interfering 100 dBμ of the Proposed does not overlap the city limits of Iona, the city of license for the proposed Fill-In primary.**

### Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1484532	BMLH20120314ADS	KEGE	94.7	94.7
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>94.7</b>

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **94.7 dBμ**, this makes the proposed translator's worst-case interfering contour **134.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **20.4 m** from the transmit antenna.

The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section II.A.6 states that USGS quadrangles "have been recognized as acceptable to demonstrate lack of population"). Hence, in accordance with 47 C.F.R. § 74.1204(d) and the clarification provided by the FCC in the decision *Re: Living Way Ministries* (FCC 02-244), a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

**Note: There are no buildings or major roads within the zone of predicted interference so, a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.**

**Antenna Manufacturer:** SCA  
**Antenna Model:** FMV  
**CORAGL:** 58 m  
**Maximum ERP:** 0.25 kW  
**Interfering Contour:** 134.7 dBμ  
**Max Int. Contour Distance:** 20.4 m

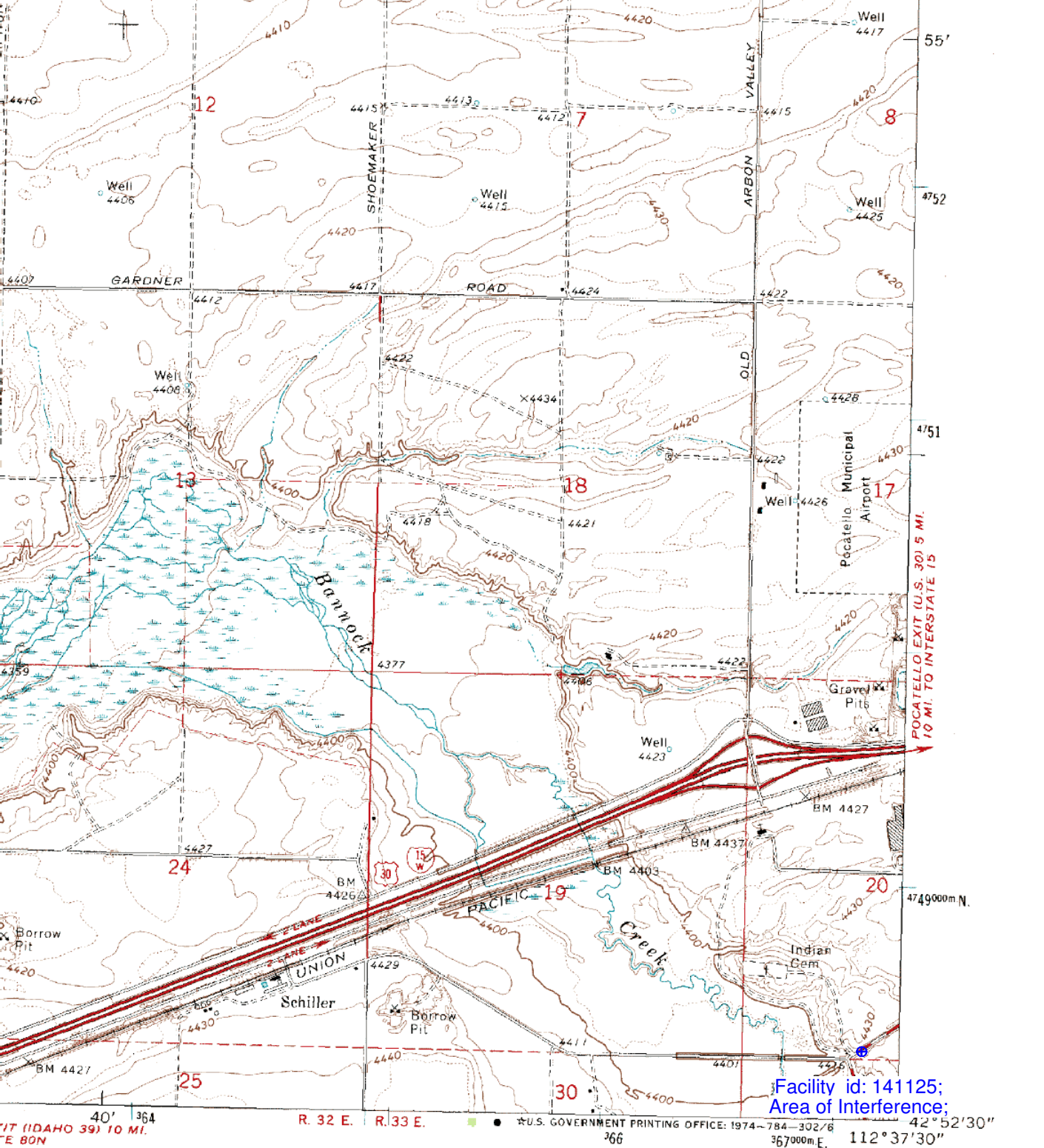
# **Adjacent Channel Study** **For Station NEW, Facility\_id: 141125**

## **Co-channel through third adjacent:**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Chan	Adj	Dist	Overlap
1484532	87656	BMLH-20120314ADS	KEGE	RICH BROADCASTING IDAHO LS, LLC	C2	POCATELLO	ID	LIC	12	1808	221	3	9.3	1.4918
1543713	23306	BPH-20130304ABO	KEZQ	CHAPARRAL BROADCASTING, INC.	C1	IONA	ID	CP	37	2009	226	2	69.4	1.4918
637949	145392	BNPFT-20030314AAK	NEW	TAUNAM. BARBIERI	D	POCATELLO	ID	APP	0.045	1787	226	2	9.3	0
1570763	149073	BNPFT-20130826ABM	NEW	IDAHO WIRELESS CORPORATION	D	POCATELLO	ID	APP	0.003	1993	223	1	23.4	0
1563871	149073	BNPFT-20030317MNI	NEW	IDAHO WIRELESS CORPORATION	D	POCATELLO	ID	APP	0.003	1993	223	1	23.4	0
1570779	149089	BNPFT-20130826ABX	NEW	IDAHO WIRELESS CORPORATION	D	POCATELLO	ID	APP	0.07	1997	224	0	39.8	0
1564316	149089	BNPFT-20030317MLC	NEW	IDAHO WIRELESS CORPORATION	D	POCATELLO	ID	APP	0.07	1997	224	0	39.8	0
641936	149098	BNPFT-20030317MJI	NEW	IDAHO WIRELESS CORPORATION	D	LAVA HOT SPRING	ID	APP	0.25	1647	227	3	58.7	0
1569972	149098	BNPFT-20130826ABK	NEW	IDAHO WIRELESS CORPORATION	D	LAVA HOT SPRING	ID	APP	0.25	1912	227	3	58.9	0
1444789	152716	BPFT-20110804AAA	DK276FM	SANDHILL MEDIA GROUP, LLC	D	SODA SPRINGS	ID	CP	0.25	1689	223	1	65.5	0
1372118	148644	BLFT-20100601AEL	K223BU	FRANDSEN MEDIA COMPANY, LLC	D	IDAHO FALLS	ID	LIC	0.099	1754	223	1	72.9	0
638532	145963	BNPFT-20030314BBM	NEW	TED W. AUSTIN, JR.	D	IDAHO FALLS	ID	APP	0.028	1736	227	3	95.3	0
974139	63832	BLH-20040129AJH	KBLQ-FM	SUN VALLEY RADIO, INCORPORATED	C1	LOGAN	UT	LIC	100	1746	225	1	130.5	0
1444401	164127	BPH-20111003ABE	KTPZ	LOCALLY OWNED RADIO, LLC	C1	HAZELTON	ID	CP	100	1398	224	0	147	0

## **Intermediate Frequencies (53 and 54 channels difference):**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
984582	18118	BLFTB-20040428AAC	KFTZ-FM1	RIVERBEND COMMUNICATIONS, LLC	D	POCATELLO	ID	LIC	2	1438	277	53	15.1	5.1
198481	18116	BLH-19940420KB	KFTZ	RIVERBEND COMMUNICATIONS, LLC	C1	IDAHO FALLS	ID	LIC	100	1801	277	53	73	51



#### ROAD CLASSIFICATION

- Primary highway, hard surface ————
- Secondary highway, hard surface ————
- Light-duty road, hard or improved surface ————
- Unimproved road ————
- Interstate Route (Red circle with number)
- U. S. Route (Red circle with number)
- State Route (Red circle with number)



#### SCHILLER, IDAHO

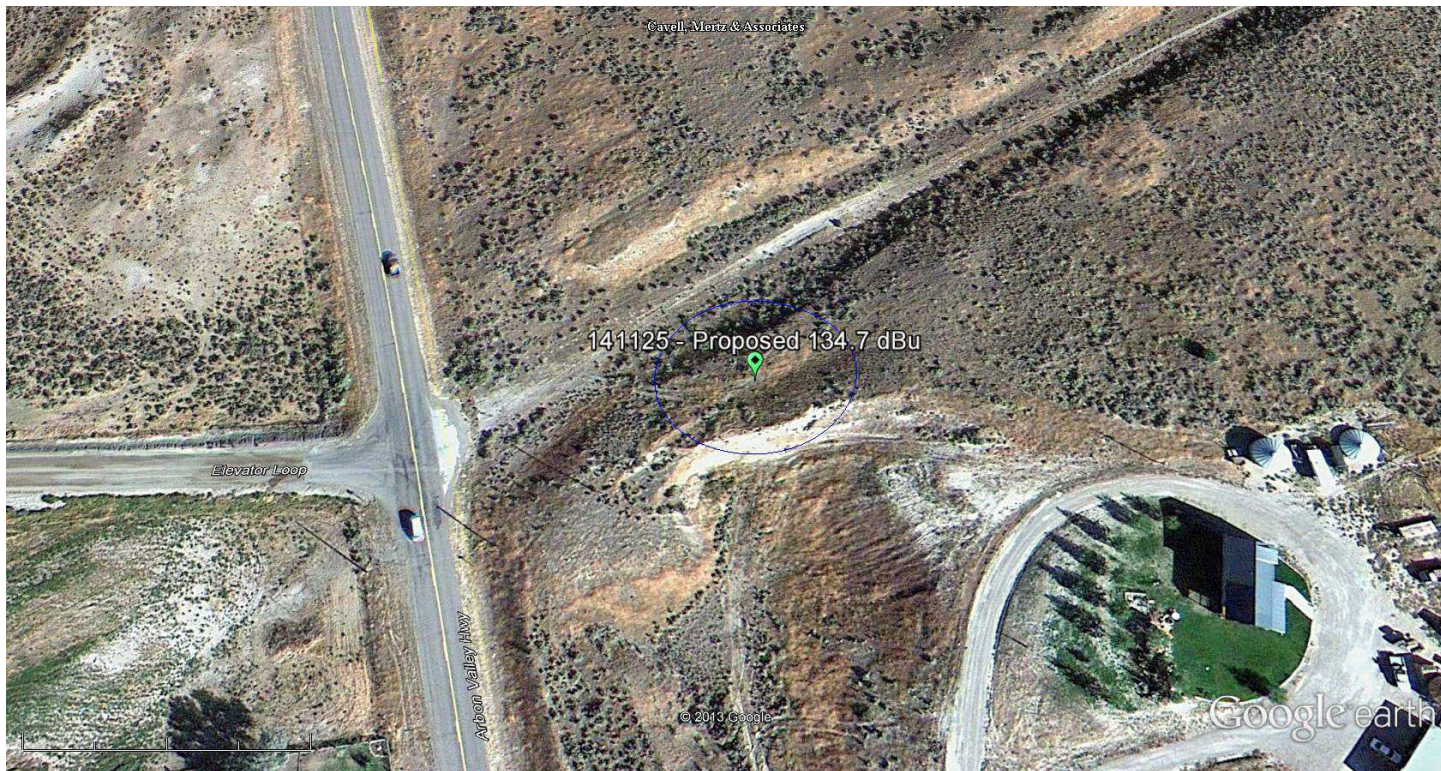
NW 1/4 MICHAUD 15' QUADRANGLE  
N4252.5—W11237.5/7.5

1971

AMS 3469 I NW—SERIES V893

D. C. 20242  
T





Google earth

feet  
meters

