

## **Non-Interference Compliance**

Regarding Facility id 9039

Channel 246

### **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 a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by Google Earth. The proposed transmit site and the zone of interference have been identified on the map. It has been included to provide clarification of the nature of the buildings in the vicinity.

**Note: The zone of predicted interference extends only 11.1 m from the proposed transmit site. There are no buildings or major roads within the zone 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.**

### 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
1259788	BLH20080731ACG	KRCY-FM	100	100
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>100</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 **100 dBμ**, this makes the proposed translator's worst-case interfering contour **140 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **11.1 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").

**Note: The zone of predicted interference extends only 11.1 m from the proposed transmit site. There are no buildings or major roads within the zone 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.**

<b>Antenna Manufacturer:</b>	<b>SCA</b>
<b>Antenna Model:</b>	<b>CL-FM @ 290°</b>
<b>CORAGL:</b>	<b>10 m</b>
<b>Maximum ERP:</b>	<b>0.25 kW</b>
<b>Interfering Contour:</b>	<b>140 dBμ</b>
<b>Max Int. Contour Distance:</b>	<b>11.1 m</b>

# **Adjacent Channel Study** **For Station K246AE, Facility\_id: 9039**

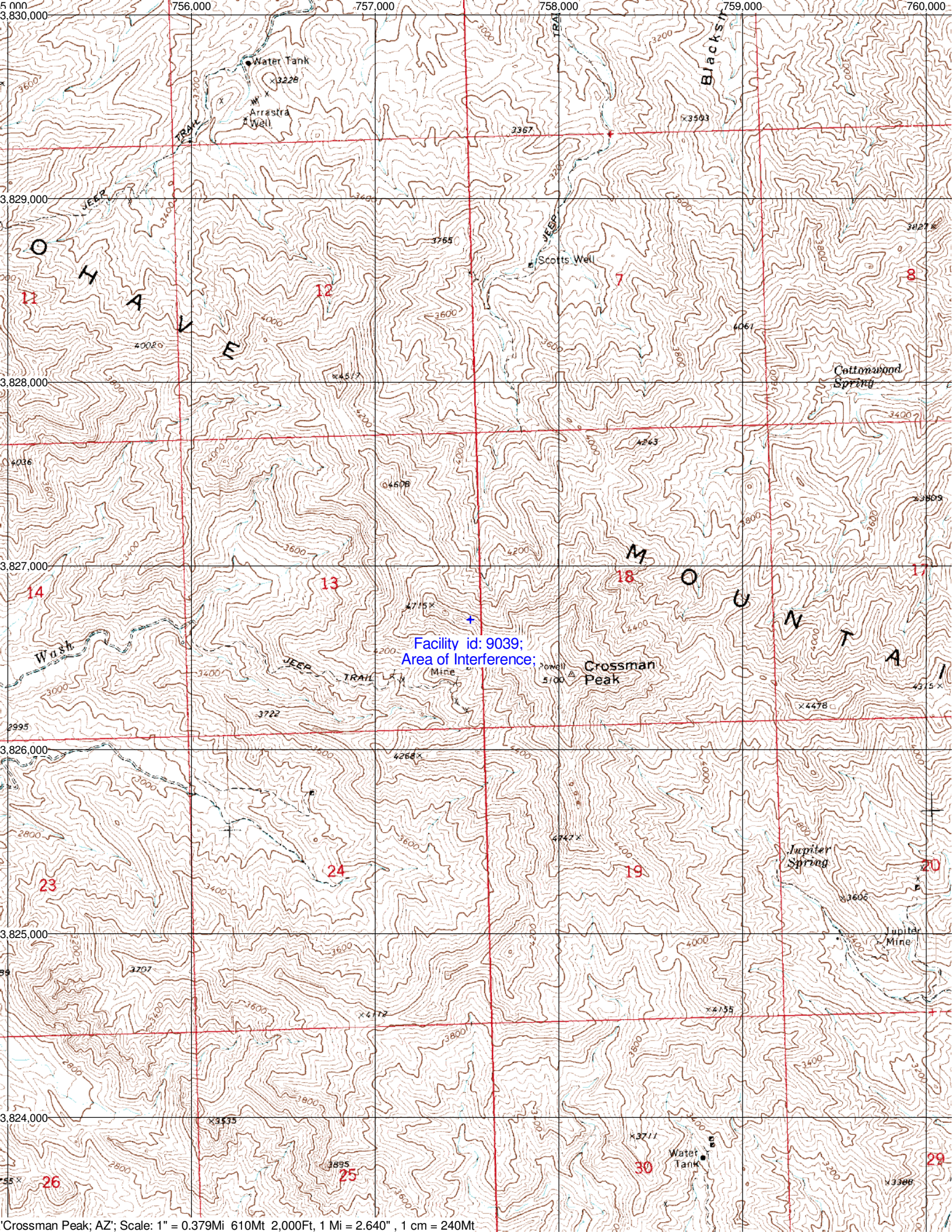
## **Co-channel through third adjacent:**

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1259788	77754	BLH	20080731ACG	KRCY-FM	RICK L. MURPHY	C3	LAKE HAVASU CITY	AZ	LIC	0.26	1451	244	2	0	0.2275
639656	147057	BNPFT	20030317DKE	NEW	RADIO ASSIST MINISTRY, INC.	D	LAKE HAVASU CITY	AZ	APP	0.041	416.5	248	2	9.7	0
1369558	170952	BLH	20090810ABC	KPKR	RIVER RAT RADIO, LLC	C3	PARKER	AZ	LIC	1.7	512	247	1	47.5	0
639676	147074	BNPFT	20030317DUQ	NEW	RADIO ASSIST MINISTRY, INC.	D	PARKER STRIP	AZ	APP	0.015	511.9	248	2	47.5	0
638916	146332	BNPFT	20030317DYX	NEW	RADIO ASSIST MINISTRY, INC.	D	PARKER STRIP	AZ	APP	0.015	511.9	246	0	47.5	0
1232538	147059	BLFT	20080206ABU	K248BJ	ADVANCE MINISTRIES, INC. D/B/A/ NEW LIFE CH	D	MOHAVE VALLEY	AZ	LIC	0.22	174	248	2	60.9	0
1229940	147059	BPFT	20080125ACQ	K248BJ	ADVANCE MINISTRIES, INC. D/B/A/ NEW LIFE CH	D	MOHAVE VALLEY	AZ	CP	0.22	174	248	2	60.9	0
637584	145073	BNPFT	20030314BEH	NEW	CAMERON BROADCASTING, INC.	D	KINGMAN	AZ	APP	0.01	2564	248	2	64.6	0
649774	156483	BNPFT	20030317JKH	NEW	DONALD F. HENDREN	D	KINGMAN	AZ	APP	0.25	1860	243	3	72.2	0
131264	8384	BLFT	19890724TA	K244CV	CAMERON BROADCASTING, INC.	D	KINGMAN	AZ	LIC	0.084	1164	244	2	73.2	0
649697	156413	BNPFT	20030317HMA	NEW	DONALD F. HENDREN	D	NOTHING	AZ	APP	0.25	2018	249	3	79	0
1251438	54323	BLFT	20080619AIH	K245AW	ADVANCE MINISTRIES, INC.	D	RIVERIA, ETC.	AZ	LIC	0.157	1473	245	1	92.1	0
189678	14876	BLFT	19930907TH	K247AC	PHELPS DODGE BAGDAD, INC.	D	BAGDAD	AZ	LIC	0.046	1215	247	1	92.7	0
650601	157256	BNPFT	20030317LIO	NEW	DONALD F. HENDREN	D	QUARTZ SITE	AZ	APP	0.25	1280	249	3	98.2	0
645310	152189	BNPFT	20030317HJO	NEW	DONALD F. HENDREN	D	KINGMAN	AZ	APP	0.25	2990	247	1	98.6	0
1006613	143730	BNPFT	20030829ADH	NEW	ADVANCE MINISTRIES, INC. D/B/A NEW LIFE CH	D	DESERT CENTER	CA	APP	0.01	1107	245	1	152.8	0
635953	143730	BNPFT	20030317HLV	NEW	ADVANCE MINISTRIES, INC. D/B/A NEW LIFE CH	D	DESERT CENTER	CA	APP	0.01	1112	245	1	152.8	0
1062902	68566	BLH	20050413ABX	KMVA	TRUMPER COMMUNICATIONS III LICENSE, LLC	C	DEWEY-HUMBOLDT	AZ	LIC	42	2382	248	2	171.2	0

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

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
650833	157424	BNPFT	20030317LNZ	NEW	DONALD F. HENDREN	D	LAKE HAVASU CITY	AZ	APP	0.25	282	300	54	19.1	9.1
1180263	77750	BPH	20070122ALR	KFTT	SMOKE AND MIRRORS, LLC	C3	BAGDAD	AZ	CP	1	1381	299	53	84.9	72.9
650683	157314	BNPFT	20030317LNB	NEW	DONALD F. HENDREN	D	QUARTZ SITE	AZ	APP	0.25	1280	300	54	98.2	88.2







9039 - Proposed 140 dBu

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Imagery Date: Jun 8, 2007

34°33'06.47" N 114°11'41.18" W elev 1422 m

Eye alt 1.98 km