

[Exhibit 13]

Non-Interference Compliance

Regarding Facility id 144993

Channel 209

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 dB μ 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: The only buildings within the zone of predicted interference are unoccupied communications structures on the Glassford Peak Communications Center, 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 dB μ 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
20559	BPFT19800530IC	K211AA	64.8	64.8
258980	BLED19971209KD	KNAQ	64.5	64.5
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				64.5

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 **64.5 dB μ** , this makes the proposed translator's worst-case interfering contour **104.5 dB μ** . By the free-space equation, this contour is calculated to extend a maximum of **200.4 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").

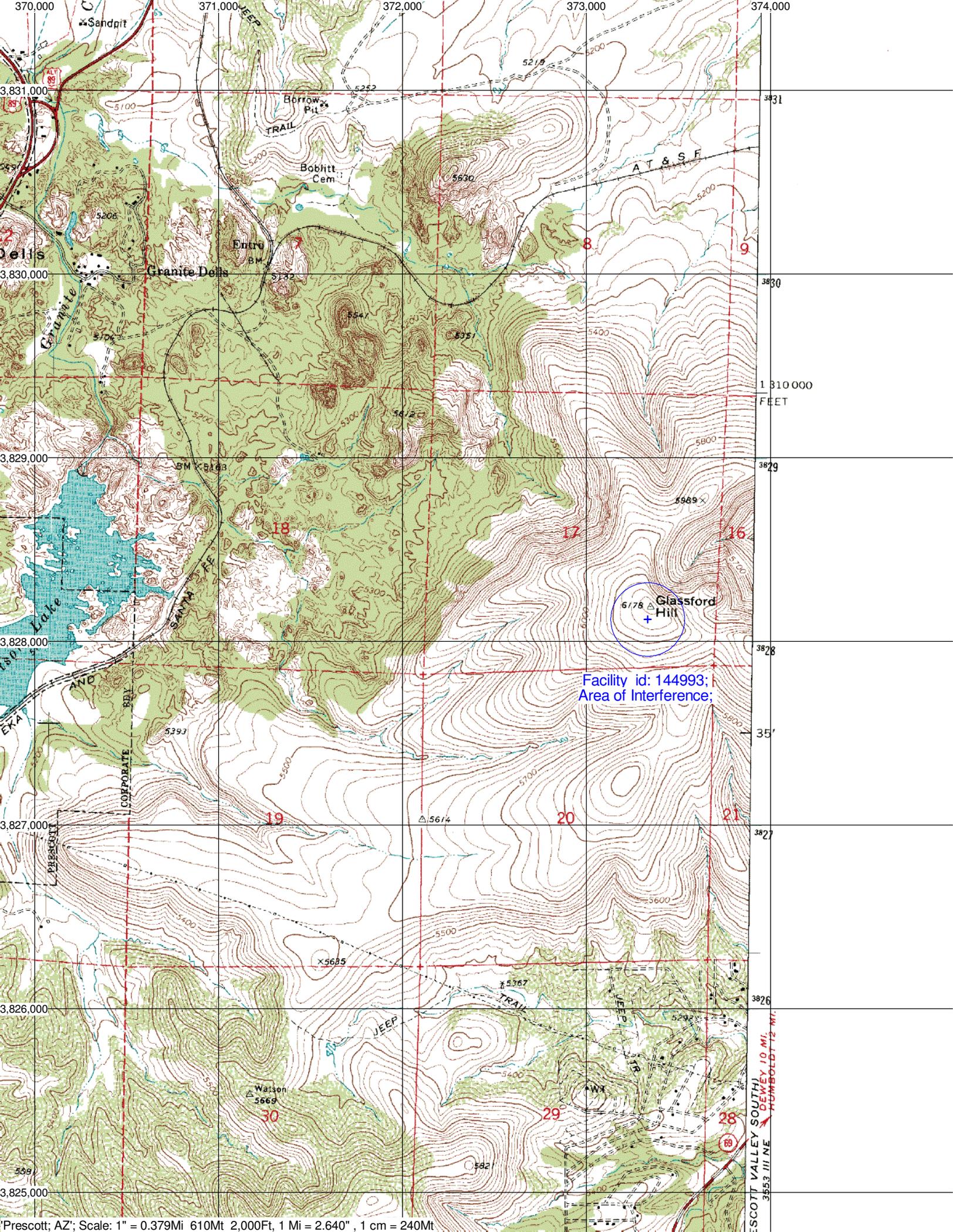
Note: The only buildings within the zone of predicted interference are unoccupied communications structures on the Glassford Peak Communications Center, so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

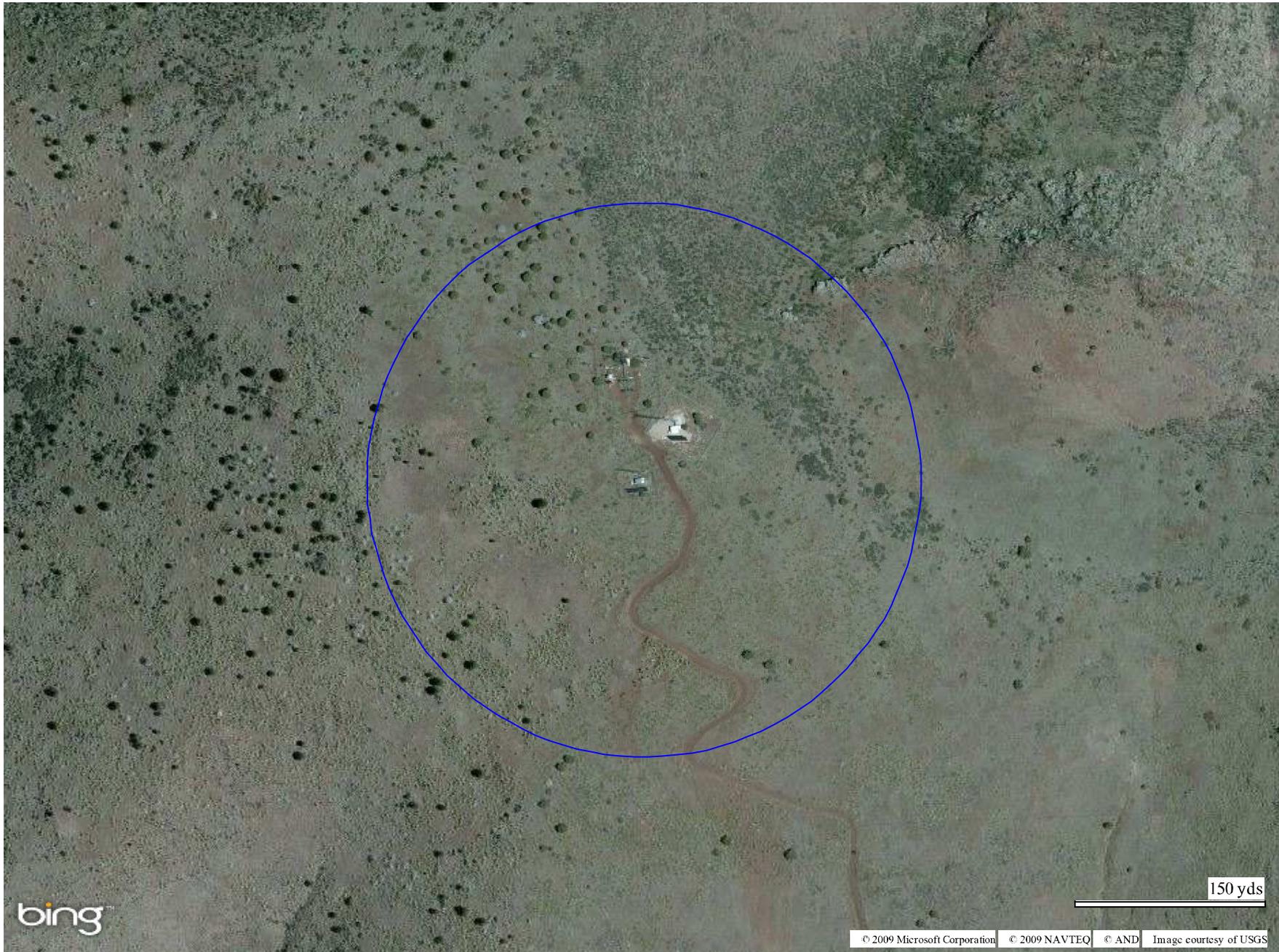
Antenna Manufacturer: SCA
Antenna Model: FMV1
CORAGL: 10 m
Maximum ERP: 0.023 kW
Interfering Contour: 104.5 dB μ
Max Int. Contour Distance: 200.4 m

Adjacent Channel Study
For Station K263AU, Facility_id: 144993

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
258980	49511	BLED	19971209KD	KNAQ	NORTHERN ARIZONA UNIVERSITY	A	PRESCOTT	AZ	LIC	0.1	2175	207	2	17.7	0.1373
20559	40098	BPFT	19800530IC	K211AA	MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT	D	PRESCOTT	AZ	CP	0.146	2129	211	2	18.2	0.1373
1365636	173032	BLED	20091015ABS	KJZP	ST. PAUL BIBLE COLLEGE	A	PRESCOTT	AZ	LIC	0.027	2174	211	2	17.8	0
1128447	93402	BLFT	20060503AAV	K210DY	CALVARY CHAPEL OF TWIN FALLS, INC.	D	BLACK CANYON CITY	AZ	LIC	0.25	658	210	1	62.5	0
1292006	92985	BPED	20090128AFO	KJZA	ST. PAUL BIBLE COLLEGE	C2	DRAKE	AZ	CP	1	2845	208	1	69.8	0
1108915	92985	BMLD	20060214ABY	KJZA	ST. PAUL BIBLE COLLEGE	C3	DRAKE	AZ	LIC	0.25	2845	208	1	69.8	0
1185515	145997	BLFT	20070511AAM	K212FP	ADVANCE MINISTRIES DBA NEW LIFE CHRISTIANITY	D	SELIGMAN	AZ	LIC	0.25	1607	212	3	94	0
80672	40092	BLFT	19850801TB	K208AB	MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT	D	FLAGSTAFF	AZ	LIC	0.009	2836	208	1	100.9	0
1260216	32367	BLED	20080801AVL	KJTA	FAMILY LIFE BROADCASTING, INC.	C2	FLAGSTAFF	AZ	LIC	1	2839	210	1	101.8	0
1390953	76329	BLED	20100720AIX	KLVK	EDUCATIONAL MEDIA FOUNDATION	C0	FOUNTAIN HILLS	AZ	LIC	30	1232	206	3	112.3	0
1448565	175859	BMPED	20111004ADV	KJPN	PAYSON SEVENTH-DAY ADVENTIST CHURCH	A	PAYSON	AZ	APP	0.1	1946	207	2	114	0
1327276	175859	BMPED	20090811ABZ	KJPN	PAYSON SEVENTH-DAY ADVENTIST CHURCH	C3	PAYSON	AZ	CP MOD	1	1959	207	2	114	0
1359111	94226	BLED	20100305ABC	KZAI	EDUCATIONAL MEDIA FOUNDATION	C	SUPERIOR	AZ	LIC	45	1748	210	1	134.9	0
1365003	94226	BXLED	20100428AAM	KZAI	EDUCATIONAL MEDIA FOUNDATION	C	SUPERIOR	AZ	LIC	6.5	797	210	1	139.7	0
1201298	20638	BLED	20070912ABQ	KFLR-FM	FAMILY LIFE BROADCASTING, INC.	C	PHOENIX	AZ	LIC	100	852	212	3	142.6	0
1391938	40096	BLED	20100721HZP	KBAQ	MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT	C1	PHOENIX	AZ	LIC	29.7	841	208	1	142.7	0
1358372	40096	BXPED	20100301ABL	KBAQ	MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT	C1	PHOENIX	AZ	CP	10	823	208	1	142.7	0





150 yds

bing™

© 2009 Microsoft Corporation © 2009 NAVTEQ © AND Image courtesy of USGS