

## **Non-Interference Compliance**

Regarding Facility id 143311

Channel 221

### **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.

**Note: The adjacent channel study demonstrates overlap with 1<sup>st</sup> adjacent KTAR-FM. The proposed is first adjacent fill-in for KTAR-FM.**

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.

Page 6 of this exhibit shows the 60 dBμ F(50,50) and 54 dBμ F(50,10) of the proposed, the 60 dBμ F(50,50) of first adjacent fill-in primary KTAR-FM and the location of KTAR-FM's city of license, Glendale. The interfering 54 dBμ contour of the proposal does not overlap the city of license.

**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.**

### 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.

<b>Application_id</b>	<b>File Number</b>	<b>Callsign</b>	<b>Contour at Tower</b>	<b>Min. Contour</b>
1291537	BMLED20090127AC	KJZZ	63.2	63.2
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>63.2</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 **63.2 dBμ**, this makes the proposed translator's worst-case interfering contour **103.2 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **767.3 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: 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:** FMV1  
**CORAGL:** 8 m  
**Maximum ERP:** 0.25 kW  
**Interfering Contour:** 103.2 dBμ  
**Max Int. Contour Distance:** 767.3 m

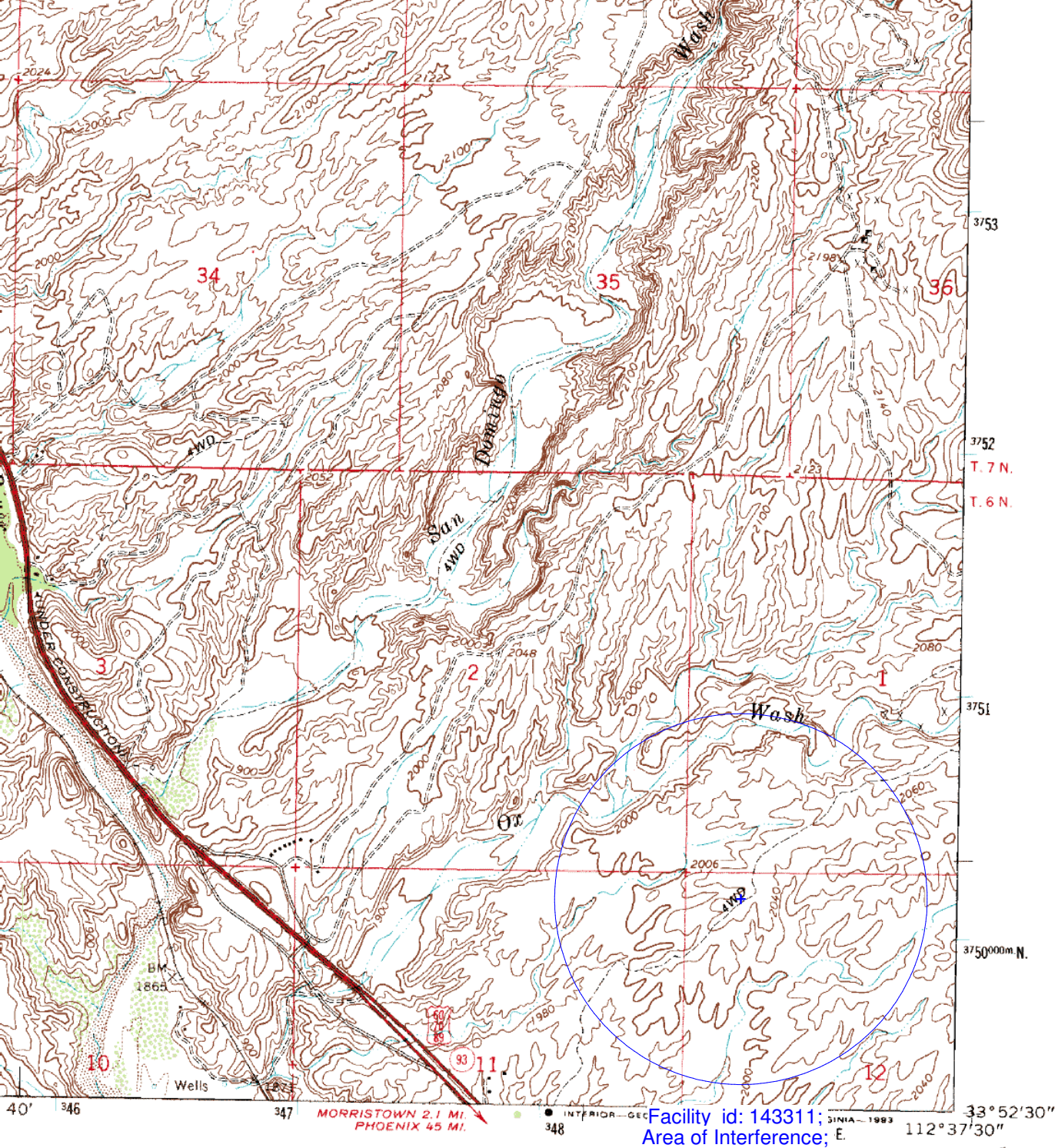
# **Adjacent Channel Study** **For Station NEW, Facility\_id: 143311**

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

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
1014948	65479	BLH-20040707ABM	KTAR-FM	BONNEVILLE INTERNATIONAL CORPORATION	C	GLENDALE	AZ	LIC	98	911	222	1	80.9	179.282
1291537	40095	BMLED-20090127ACM	KJZZ	MARICOPA COUNTY COMMUNITY COLLEGE DISTRI	C	PHOENIX	AZ	LIC	100	856	218	3	80.8	1.4918
1551679	141164	BNPFT-20030312APR	NEW	ADVANCE MINISTRIES, INC. D/B/A NEW LIFE	D	WICKENBURG	AZ	APP	0.25	680	224	3	14.7	0
213241	41609	BLFT-19950828UF	K223AG	PRESCOTT SOUND INVESTMENTS, LLC	D	PRESCOTT	AZ	LIC	0.016	2173	223	2	68	0
550270	92006	BLFT-20010109AAW	K219DZ	MARICOPA COUNTY COMMUNITY COLLEGE DISTRI	D	RIO VERDE	AZ	LIC	0.01	1225	219	2	80.6	0
237367	6445	BLFT-19961209TB	K224CJ	HAPPY DOG COMMUNICATIONS, LLC	D	PHOENIX	AZ	LIC	0.01	818	224	3	80.8	0
1382088	171022	BLH-20100706IZD	KFLX	GRENAX BROADCASTING II, LLC	A	CHINO VALLEY	AZ	LIC	1.5	1696	223	2	93	0
257523	86642	BLFT-19971125TC	K220GI	CALVARY CHAPEL OF TWIN FALLS, INC.	D	CAMP VERDE	AZ	LIC	0.01	1997	220	1	95.6	0

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

App\_id



Facility id: 143311;  
Area of Interference; E

#### ROAD CLASSIFICATION

Heavy-duty ——— Light-duty ———  
Medium-duty ——— Unimproved dirt ———  
U. S. Route State Route

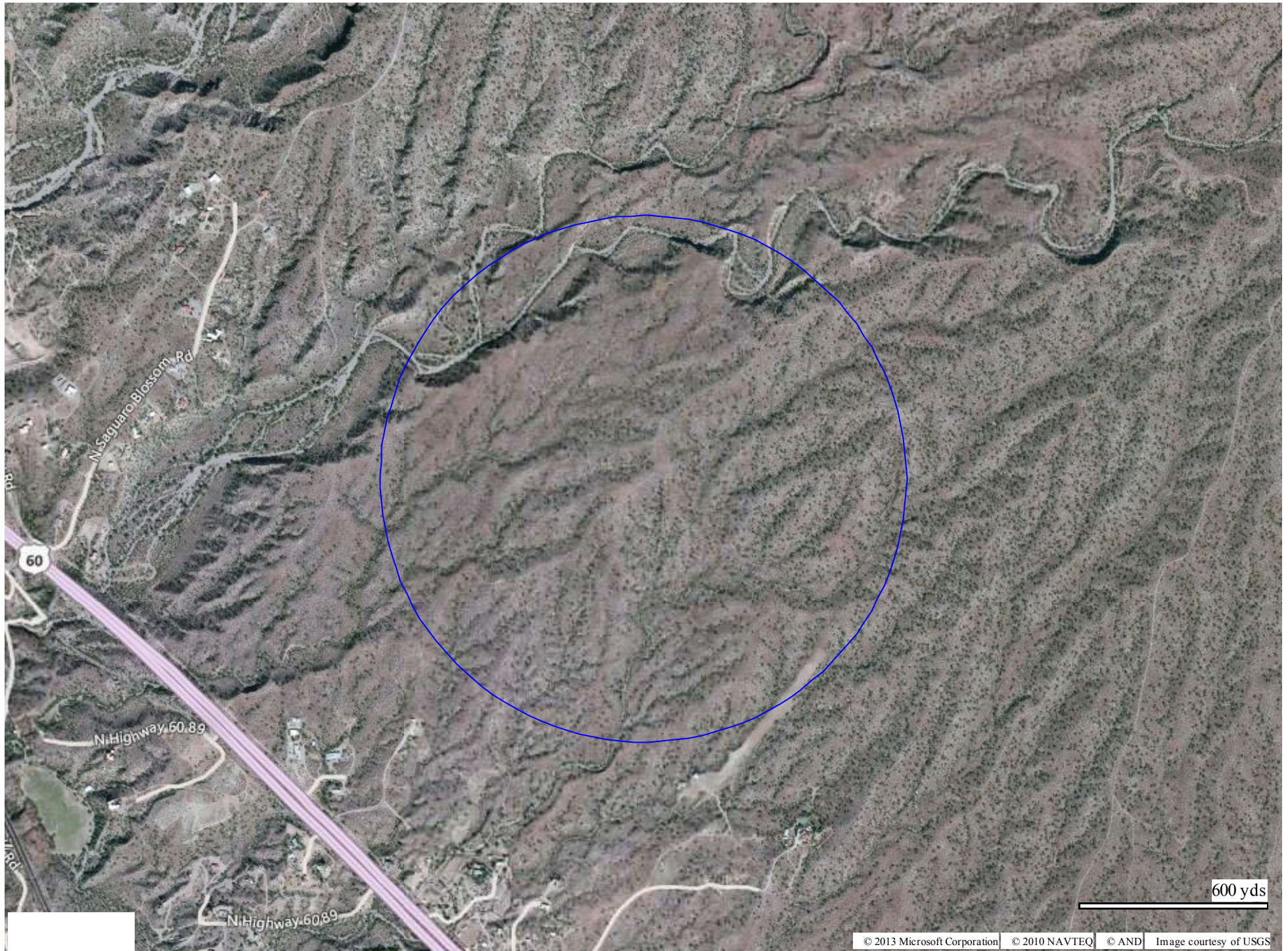


Map photoinspected 1978  
No major culture or drainage changes observed

WICKENBURG, ARIZ.  
33112-H6-TF-024

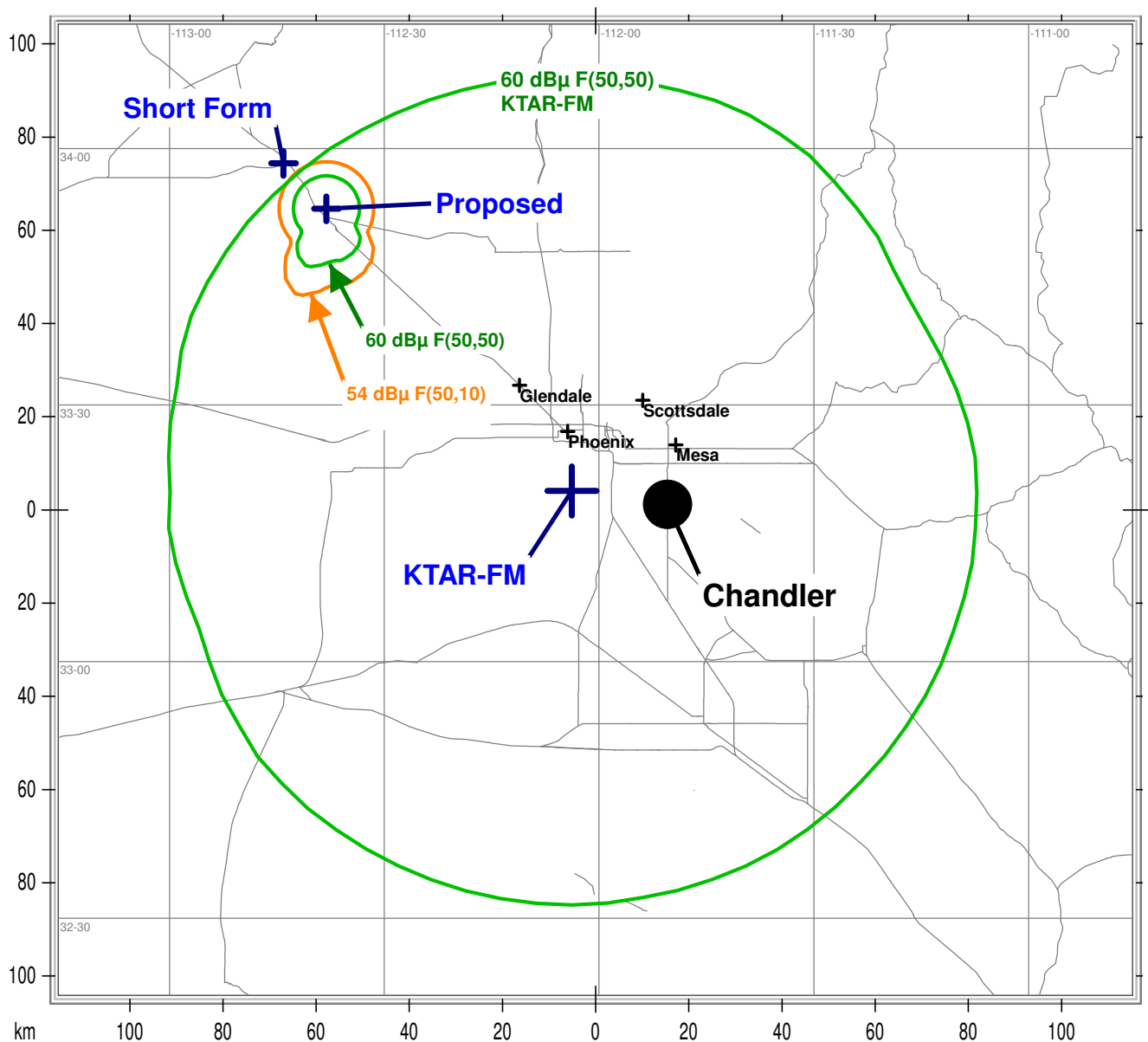
1964  
PHOTOINSPECTED 1978  
DMA 3451 I NW-SERIES V898







## Proposed &amp; 1st adjacent Fill-In KTAR-FM Contour Map



AZ053, 10m, 250W, channel 221, FMV, Fill-in KTAR-FM

State Borders      Highways      Lat/Lon Grid

Map Scale: 1:1404767    1 cm = 14.05 km    VIH Size: 208.34 x 230.59 km

Gene Wisniewski