

Non-Interference Compliance

Regarding Facility id 154457

Channel 202

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.

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
1334879	BPED20090923ADT	KENM	96	96
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				96

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 **96 dBμ**, this makes the proposed translator's worst-case interfering contour **136 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **11.9 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:	TEL
Antenna Model:	ANT90D
CORAGL:	15 m
Maximum ERP:	0.115 kW
Interfering Contour:	136 dBμ
Max Int. Contour Distance:	11.9 m

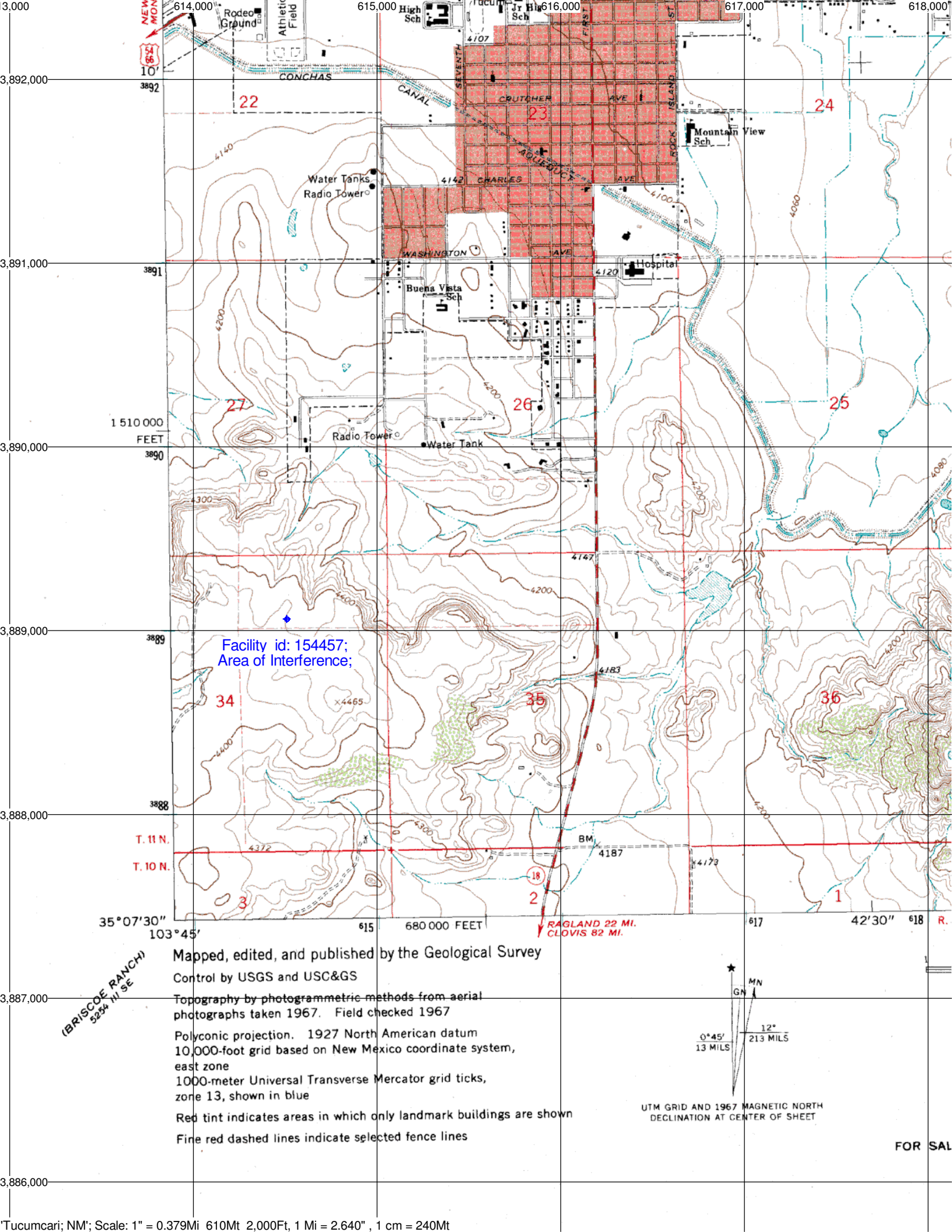
Adjacent Channel Study **For Station K205EV, Facility_id: 154457**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1334879	174720	BPED	20090923ADT	KENM	EASTERN NEW MEXICO UNIVERSITY	C3	TUCUMCARI	NM	CP	3	1528	205	3	4.1	0.6862
1021939	90377	BLFT	20041022ACA	K202CX	EASTERN NEW MEXICO UNIVERSITY	D	CONCHAS	NM	LIC	0.023	1641	202	0	45.9	0
275800	10895	BLFT	19981016TD	K201CY	CALVARY CHAPEL OF ALBUQUERQUE, INC.	D	CLOVIS	NM	LIC	0.17	1402	201	1	91.7	0
1163489	154270	BLFT	20070207AAR	K205EX	FAMILY LIFE BROADCASTING SYSTEM	D	CLOVIS	NM	LIC	0.06	1442	205	3	92	0
1258462	122433	BNPED	20071015DMI	KCOI	AMERICAN FAMILY ASSOCIATION	A	CLOVIS	NM	CP	1.1	1347	201	1	95.8	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
47284	74563	BLH	19820923AI	KCLV-FM	ZIA BROADCASTING COMPANY	C1	CLOVIS	NM	LIC	74	1358	256	54	97.9	75.9



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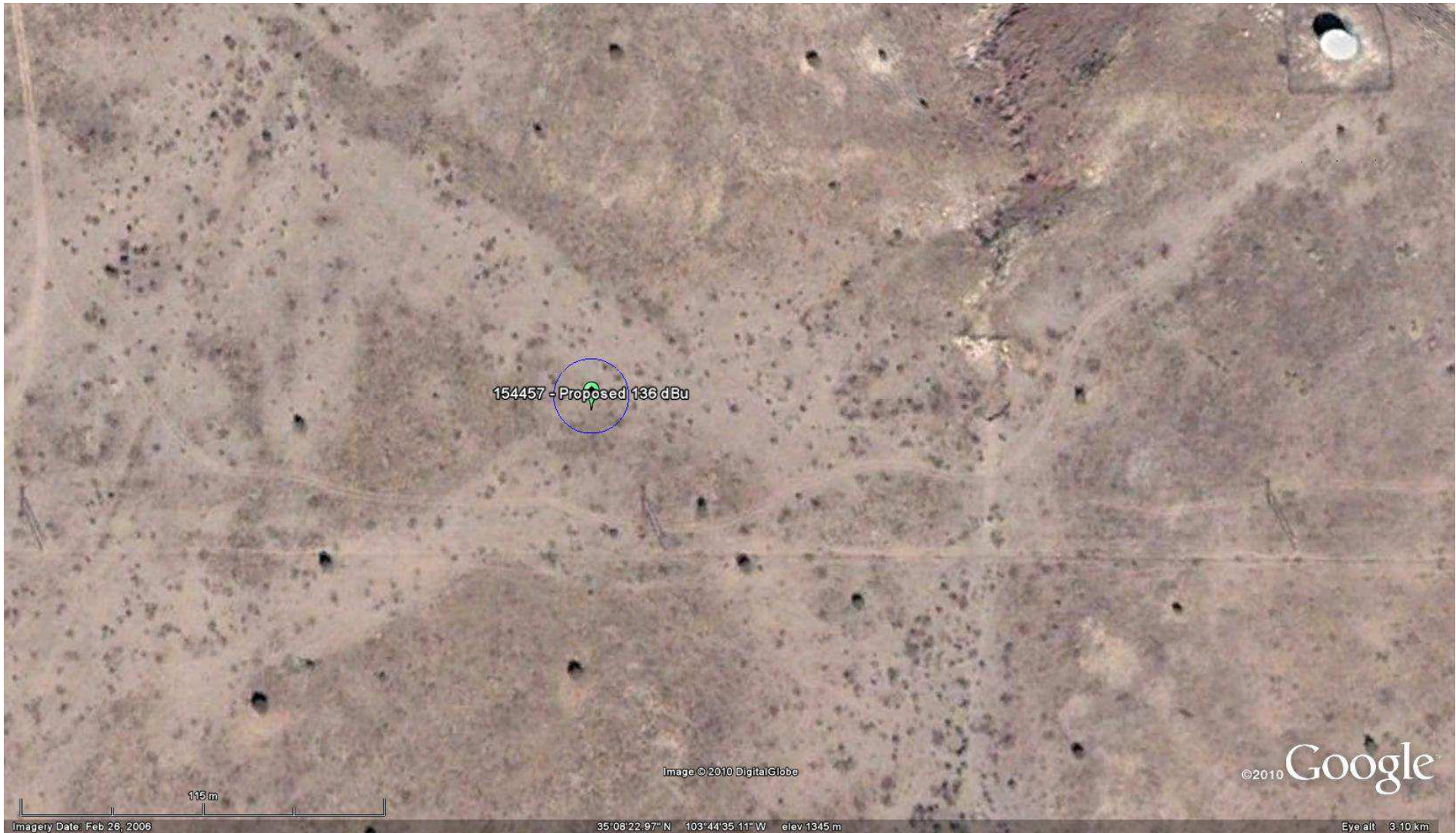
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154457 - Proposed 136 dBu

Image © 2010 DigitalGlobe

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Imagery Date: Feb 26, 2006

35°08'22.97" N 103°44'35.11" W elev 1345 m

Eye alt 3.10 km