

Non-Interference Compliance

Regarding Facility id 49217

Channel 217

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 occupied 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
1081158	BLED20050826AAJ	KVNF	82.5	82.5
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				82.5

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 **82.5 dBμ**, this makes the proposed translator's worst-case interfering contour **122.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **83.2 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 occupied 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: SHI
Antenna Model: 6812B-2(1)
CORAGL: 7 m
Maximum ERP: 0.25 kW
Interfering Contour: 122.5 dBμ
Max Int. Contour Distance: 83.2 m

Adjacent Channel Study **For Station K217FY, Facility_id: 49217**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1081158	49221	BLED-20050826AAJ	KVNF	NORTH FORK VALLEY PUBLIC R	A	PAONIA	CO	LIC	2.6	2120	215	2	5.1	1.4918
1409601	175928	BLED-20101201ACL	KJOL-FM	UNITED MINISTRIES	A	MONTROSE	CO	LIC	0.475	1794	220	3	49.3	0
1551986	52698	BLFT-20130423AAY	K218FE	PITKIN COUNTY TRANSLATOR D	D	REDSTONE	CO	LIC	0.02	2654	218	1	54.3	0
203929	21054	BLFT-19941109TG	K214CA	FAMILY STATIONS, INC.	D	GRAND JUNCTIOI	CO	LIC	0.01	3036	214	3	59.5	0
273142	86638	BLFT-19980824TB	K219DH	PENSACOLA CHRISTIAN COLLEC	D	GRAND JUNCTIOI	CO	LIC	0.01	3040	219	2	59.5	0
1007116	12361	BLED-20040810ABV	KLXV	EDUCATIONAL MEDIA FOUNDAT	C2	GLENWOOD SPR	CO	LIC	0.75	3261	220	3	66.3	0
1513185	56679	BPFT-20120827AEN	K271BK	PITKIN COUNTY TRANSLATOR D	D	BASALT	CO	CP	0.025	2539	218	1	70.9	0
78020	71962	BLED-19850430LR	KWSB-FM	WESTERN STATE COLLEGE OF C	A	GUNNISON	CO	LIC	0.135	2627	216	1	71	0
1642587	12343	BLFT-20140708ABC	K220AH	EDUCATIONAL MEDIA FOUNDAT	D	GUNNISON	CO	LIC	0.05	2632	220	3	71.1	0
204301	12357	BLFT-19941122TC	K218BP	EDUCATIONAL MEDIA FOUNDAT	D	PARACHUTE	CO	LIC	0.014	2307	218	1	72.3	0
1673655	12357	BPFT-20150316ABP	K218BP	EDUCATIONAL MEDIA FOUNDAT	D	PARACHUTE	CO	CP	0.014	2292	218	1	72.3	0
1498871	173709	BLED-20120507AAJ	KRJX	EDUCATIONAL COMMUNICATION	A	RIFLE	CO	LIC	3	2242	215	2	72.3	0
1664715	12357	BSTA-20141211AAS	K218BP	EDUCATIONAL MEDIA FOUNDAT		PARACHUTE	CO	APP	0.014	2292	218	1	72.3	0
605105	56681	BLFT-20020614AAT	K215AC	ROARING FORK PUBLIC RADIO, I	D	SNOWMASS VILL	CO	LIC	0.02	2651	215	2	72.6	0
601842	88582	BLFT-20020501AAK	K216ES	EDUCATIONAL COMMUNICATION	D	CARDIFF	CO	LIC	0.014	2283	216	1	78.7	0
161255	3009	BLED-19910514KC	KAJX	ROARING FORK PUBLIC RADIO I	A	ASPEN	CO	LIC	0.38	2670	218	1	79.1	0
124562	52692	BLFT-19890224TJ	K216BF	PITKIN COUNTY TRANSLATOR D	D	ASPEN	CO	LIC	0.019	3185	216	1	79.7	0
155040	53743	BLFT-19901203TG	K218BE	PUBLIC BROADCASTING OF COL	D	OURAY	CO	LIC	0.1	2937	218	1	90.6	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
270267	83036	BLFT-19980622TE	K271AE	PROFESSIONAL ANTENNA, TOW	D	CEDAREDGE	CO	LIC	0.25	2387	271	54	31.1	21.1
1569539	149088	BNPFT-20130819AAC	K270BY	CIMARRON COMMUNICATIONS C	D	GRAND JUNCTIOI	CO	CP	0.25	1552	270	53	78.3	68.3

4461 (NW)
RESERVOIR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

107° 37' 30"
38° 52' 30"

273000m E.

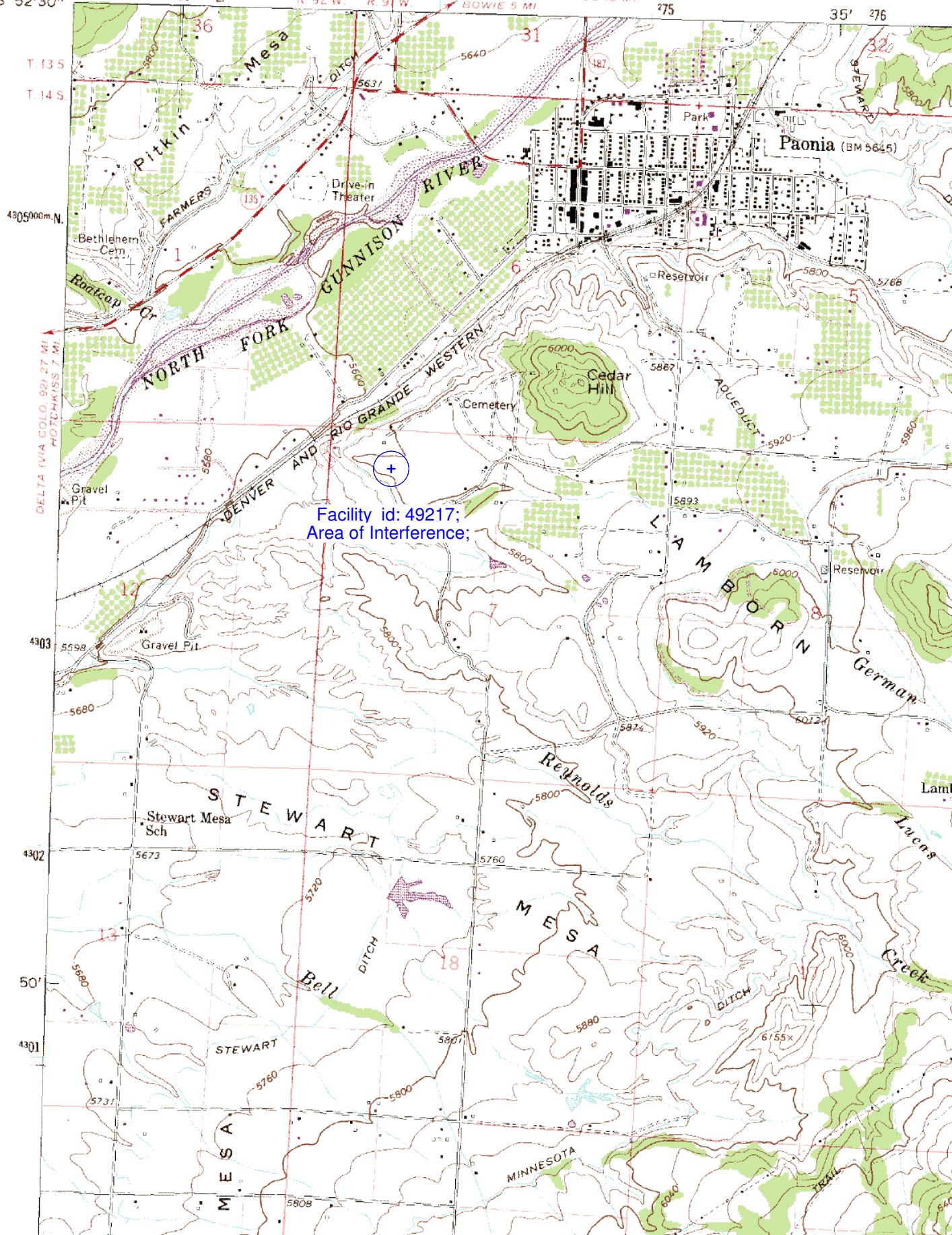
R 92 W.

R 91 W.

GLENWOOD SPRINGS 73 MI.
BOWIE 5 MI.

275

35' 276



Facility id: 49217;
Area of Interference;

