

## Engineering Statement Regarding Second &/or Third Adjacent Channel Interference

---

This application proposes an FM translator that will, according to the FCC Rules cause interference to facilities on either or both of the second or third adjacent channels in the area immediately surrounding the proposed FMT site.

In either or both cases, the applicant will demonstrate with map diagrams and/or text descriptions that demonstrate that the interference, while predicted, will not cause actual interference.

The applicant hereby requests a waiver of section 73.1204 of the rules based on paragraph 73.1204(d) of the rules, in that the proposed area of interference is uninhabited and/or unpopulated and thus will there not cause any actual interference.

Further, the applicant hereby requests that the Commission allow the applicant to calculate and demonstrate the area of interference using the well established principles of Undesirable/Desirable signal ratio of 40 dBu, as outlined in section 73.215(2) of the rules. In this case, KQMT has a signal of 65.3 dBu at the proposed FMT site. (KIMN has a signal strength of 87.8 dBu at the proposed FMT site). Therefore, the 105.3 dBu contour is the effective interference contour that must be demonstrated uninhabited and unpopulated. As shown on the map below, the proposed FMT site is plotted on a 7.5 minute USGS map, as is the proposed 105.3 dBu interference contour.

The applicant has personally visited the site, and can attest that the closest building to the proposed FMT site is a storage building, and not a habitable dwelling. A photograph of that building is herein attached.

In making these requests, the applicant submits that by granting them, the Commission would allow additional service that would otherwise not be permitted, and that are in conformity with the Commission's rules. The public interest would thus be served.

Exhibit Demonstrating 105.3 dBu Interference Contour  
free of population, structures or dwellings --thus uninhabited

Proposed 105.3 dBu Interference Contour  
Proposed FM Translator Site

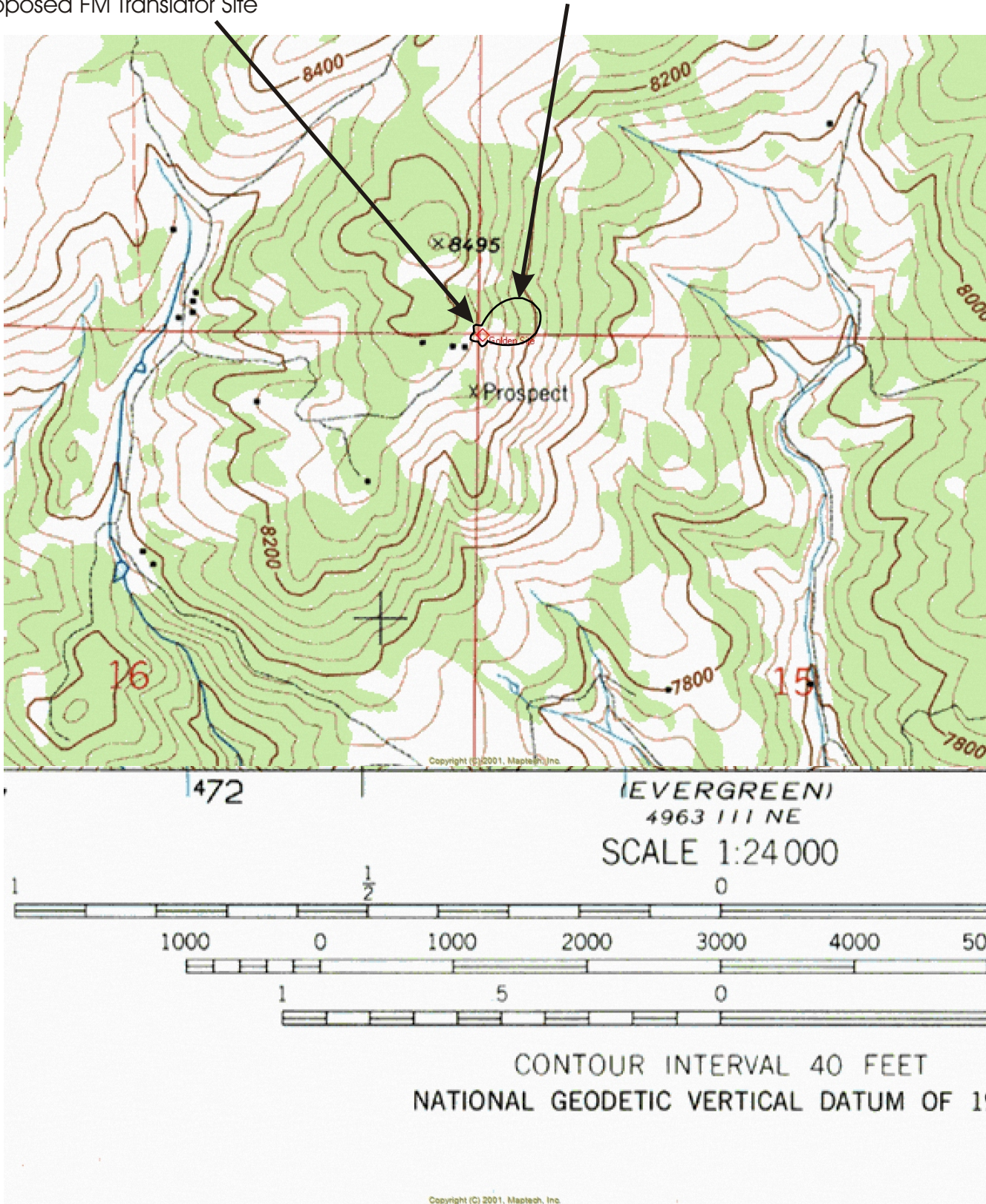




Exhibit demonstrating proposed 105.3 dBu contour overlaid on an aerial photograph of the proposed FMT site. The interference contour area is free of structures or dwellings and is uninhabited.

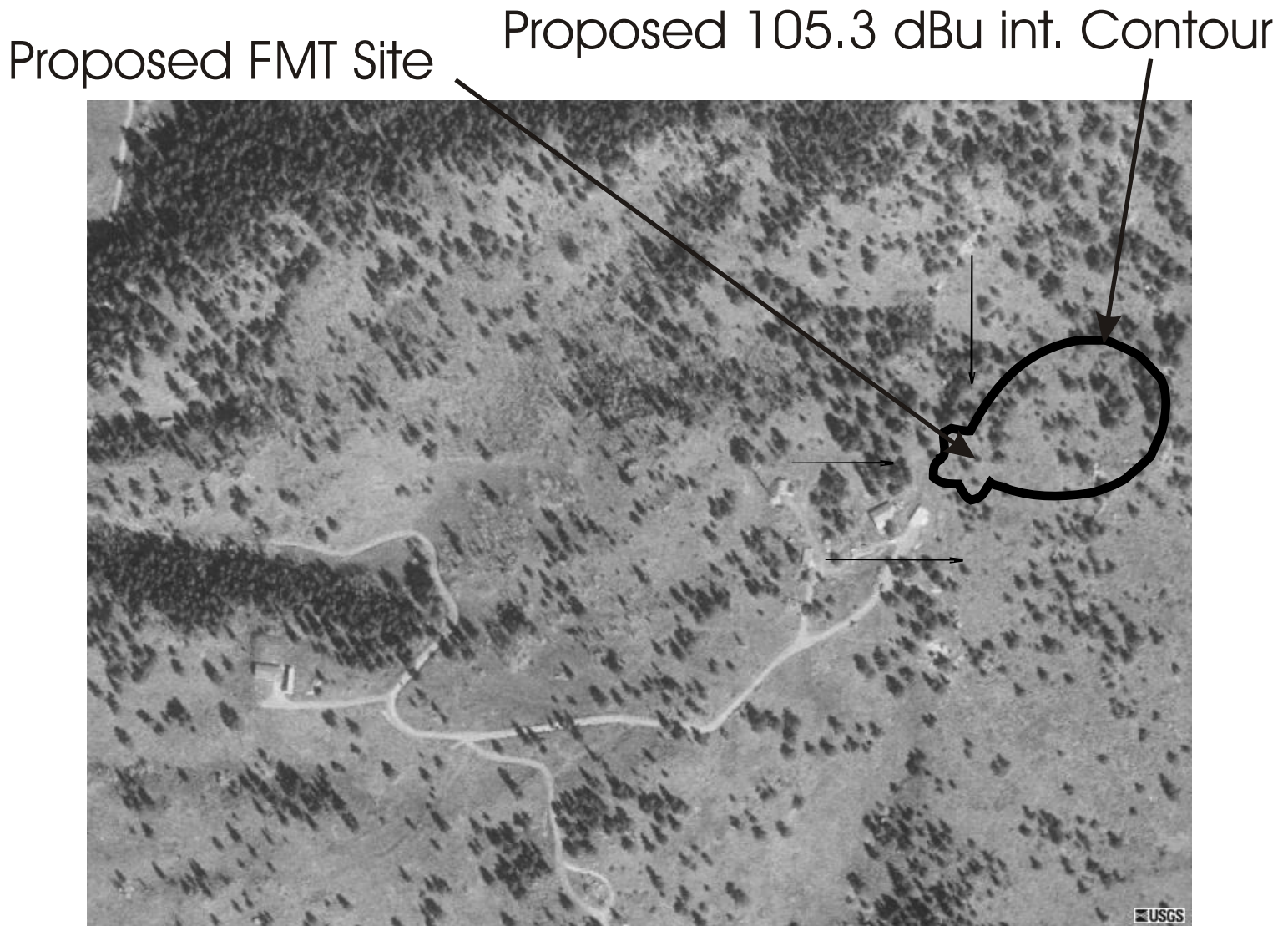


Exhibit Demonstrating nearest structure to proposed FMT site. Structure is a storage building, not a dwelling, thus is uninhabited.



## Channel Study

K260AL

REFERENCE 39 47 51 N CH# 260D - 99.9 MHz, Pwr= 0.011 kW, HAAT=0.0 M, COR= 2547 M DISPLAY DATES  
 105 19 50 W Ave. F(50-10) 40 dBu= 10.4 54 dBu= 4.5 80 dBu= 1.6 100 dBu= .2 DATA 08-07-04  
 Average Protected F(50-50)= 3.23 km SEARCH 08-10-04

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
258C Denver	KQMT	LIC DC CO	132.9 312.9	11.16 BLH20020118AAT	39 43 45 105 14 06	4.984 -150	2262 1.6	15.0 Entercom Denver	6.14<	-3.86*<
262C Denver	KIMN	LIC DCY CO	145.9 325.9	16.88 BLH19960205KA	39 40 18 105 13 12	100.000 204	2379 8.3	64.1 Infinity Radio Inc.	5.66<	-47.28*<
258C Denver	ALLO	USE CO	224.6 44.6	18.92	39 40 35 105 29 09	100.000 841	3355 16.7	101.1	0.62<	-82.25*<
262C Denver	ALLO	USE CO	119.0 299.0	25.74	39 41 06 105 04 05	100.000 538	2302 12.9	89.0	6.59	-63.33*<
Coordinates updated from LIC record BLH781218AA										
260D Arvada	K260AL	APP DC CO	0.0 180.0	0.00 BMPFT20040512AAB	39 47 51 105 19 50	0.001 297	2547 18.6	5.0 Educational Communications	-20.99*<	-13.59*<
260D Arvada	K260AL	APP DC CO	270.0 90.0	0.07 BMPFT20040202AAF	39 47 51 105 19 53	0.008 709	2597 51.7	13.8 Educational Communications	-53.28*<	-17.69*<
260D Arvada	K260AL	CP DC CO	221.0 41.0	4.67 BNPFT20030808ADC	39 45 57 105 21 59	0.008 279	2509 30.6	9.2 Educational Communications	-27.79<	-10.60*<
260C Pueblo	ALLO	USE CO	160.7 340.7	123.55	38 44 47 104 51 37	100.000 691	2815 203.6	95.3	-83.20<	14.73
Coordinates updated from LIC record BLH6881										
260C Pueblo	KVUU	LIC CY CO	160.8 340.8	123.60 BLH19990311KF	38 44 44 104 51 42	79.000 785	2922 203.9	96.3 Capstar Tx Limited Partner	-83.49<	13.84
262D Boulder	KIMNF1	LIC DC CO	29.0 209.0	20.69 BLFTB20030502AAZ	39 57 37 105 12 46	0.001 -243	1762 0.1	1.8 Infinity Radio Inc.	11.85	18.75
260C2 Cheyenne	KKPL	LIC C WY	9.6 189.6	134.29 BMLH20010426AAK	40 59 22 105 03 47	50.000 328	2129 158.3	67.4 Agm-nevada, Lic	-27.70<	53.46
257D Dillon	K257CS	LIC CN CO	252.3 72.3	66.39 BLFT19990205TL	39 36 50 106 04 02	0.035 -519	2861 0.4	4.3 Nrc Broadcasting, Inc.	64.36	62.05
TRANSLATOR FOR KSKE, VAIL, CO.										
258D Breckenridge	K258AS	CP DC CO	240.9 60.9	68.68 BNPFT20030814AAV	39 29 44 106 01 44	0.001 -134	3225 0.1	1.8 Educational Communications	66.19	66.82
258D Estes Park	K258BE	CP DE CO	352.1 172.1	69.82 BNPFT20030814ABG	40 25 13 105 26 39	0.000 243	2740 0.0	0.0 Educational Communications	67.70	69.79

ERP and HAAT are on direct line to and from reference station.

\*\*\*Affixed to 'IN' or 'Out' values = site inside protected contour.

"<" = Station meets FCC minimum distance spacing for its class. "<" = Contour Overlap

Terrain and Contour Study

N. Lat. = 39 47 51 W. Lng. = 105 19 50

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	100-F1	105.3-F1
000	2396.7	150.3	0.0003	-36.02	0.151	2.46	8.97	0.04	0.02
030	2066.3	480.7	0.0038	-24.24	0.585	9.27	34.31	0.14	0.07
060	1923.6	623.4	0.0103	-19.88	0.966	14.10	51.61	0.22	0.12
090	1888.5	658.5	0.0074	-21.29	0.822	12.99	49.04	0.19	0.10
120	1925.7	621.3	0.0009	-30.42	0.287	5.77	27.34	0.07	0.04
150	2152.6	394.4	0.0002	-36.27	0.147	3.04	14.25	0.03	0.02
180	2237.8	309.2	0.0004	-34.38	0.182	3.43	14.11	0.04	0.02
210	2432.0	115.0	0.0002	-37.54	0.127	2.03	7.19	0.03	0.02
240	2458.4	88.6	0.0004	-34.23	0.185	2.31	7.56	0.04	0.02
270	2678.7	-131.7	0.0003	-35.92	0.153	1.61	3.97	0.04	0.02
300	2701.9	-154.9	0.0002	-36.10	0.149	1.61	3.93	0.03	0.02
330	2673.8	-126.8	0.0003	-34.79	0.174	1.61	4.24	0.04	0.02

Ave El= 2294.68 M HAAT= 252.32 M AMSL= 2547

Channel Study  
K260AL vs KVUU (Area View)

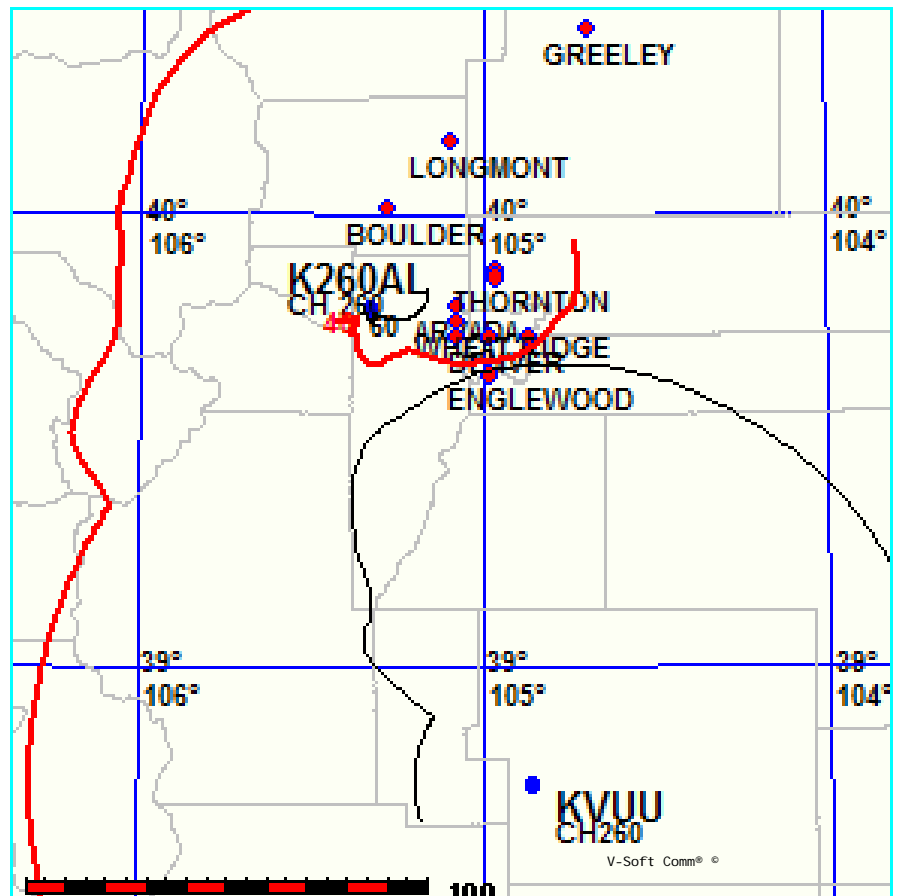
FMCONT Allocation Study

08-10-2004

K260AL CH 260 D  
.011 kW 2547M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu

KVUU CH 260 C  
79kW, 2922 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu  
File # BLH19990311KF

1:2,000,000



Channel Study  
K260AL vs KVUU (Detail View)

FMCONT Allocation Study

08-10-2004

K260AL CH 260 D  
.011 kW 2547M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu

KVUU CH 260 C  
79kW, 2922 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu  
File # BLH19990311KF

1: 878, 906

