

Special Displacement Window Application

LPTV or Translator Facility: KREZ-LD Facility ID 32315 Durango, CO
Licensed Ch. 39 File# BLDTT-20090518ADF

Nature of Displacement: Within 600 MHz wireless spectrum

Proposed Facility: Ch. 35 0.38 kW ERP directional (azimuth pattern in Figure 1)

Modification Compliance: 1.5 km from licensed site (coordinate correction)
Contour comparison in Figure 2
TVStudy Analysis report in Table 1

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

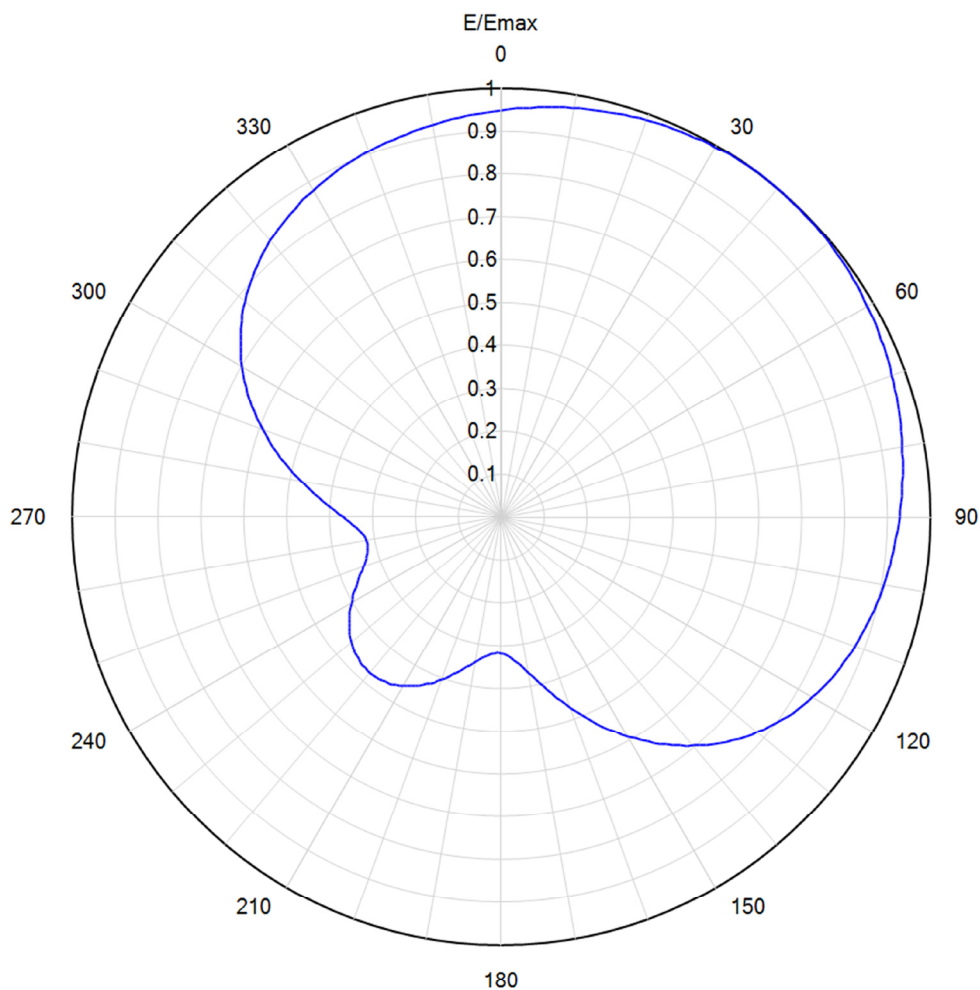
RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.5 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 15 percent relative field at downward angles (from antenna elevation pattern data). This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. April 5, 2018
207 Old Dominion Road Yorktown, VA 23692 703-650-9600



Azimuth Pattern



Model: RD8S180500626L1S

Location:

Customer:

Date: April 4, 2018

Rotation Angle: 40 degrees

Note: Pattern Tolerance +/-5% of Emax

Polarization: Horizontal

Frequency: 599.00 MHz

Directivity: 1.8 (2.57 dB)

Elevation Angle: 1.50 degrees

Horizontal Unit Pattern:

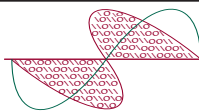
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Figure 1
Antenna Azimuthal Pattern
KREZ-LD Durango, CO
Facility ID 32315
Ch. 35 (digital) 0.38 kW

prepared for
Ramar Communications, Inc.

April, 2018



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 2
Coverage Contour Comparison
KREZ-LD Durango, CO
Facility ID 32315
Ch. 35 (digital) 0.38 kW

prepared for
Ramar Communications, Inc.

April, 2018

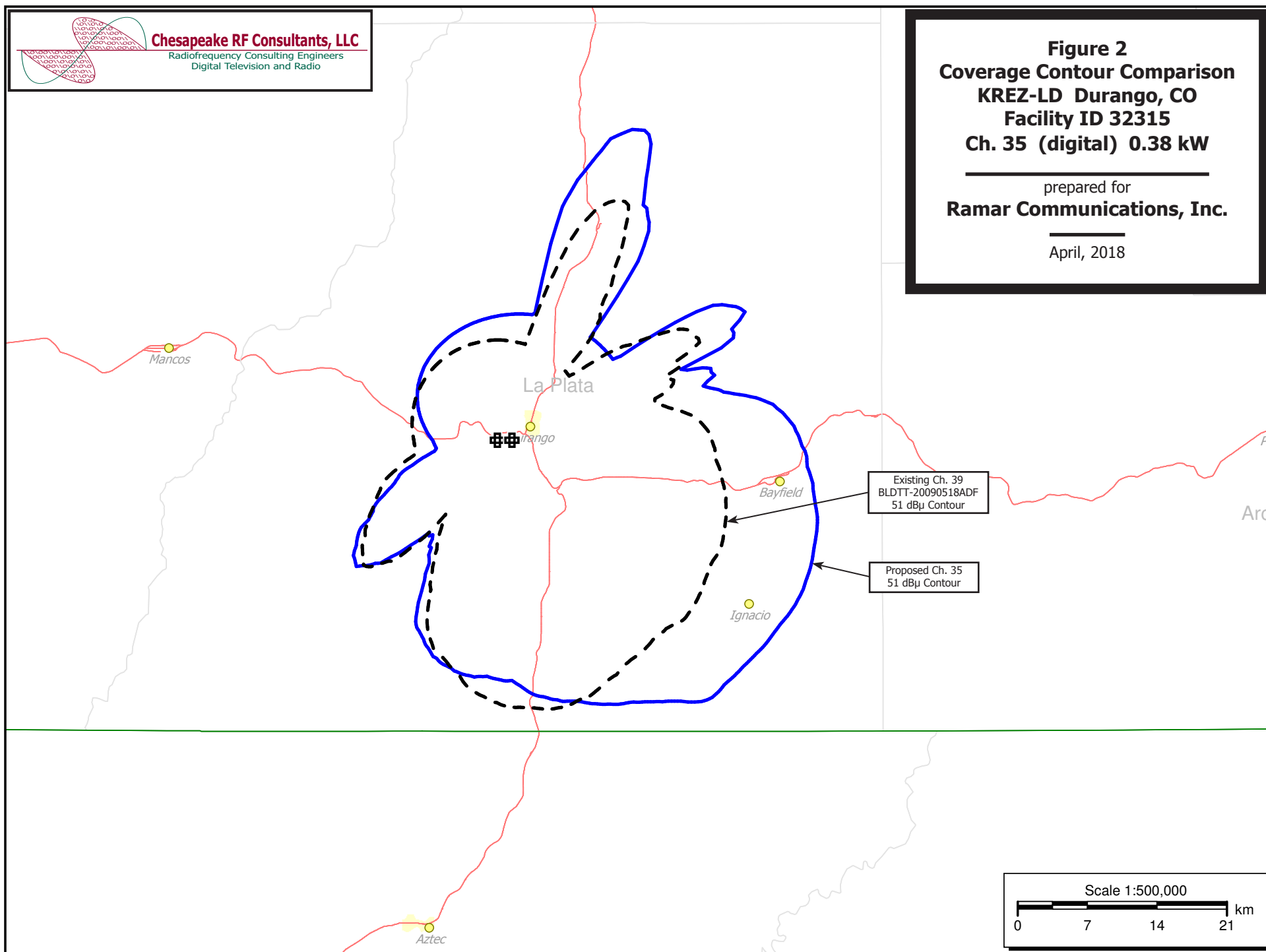


Table 1 KREZ-LD TVStudy Analysis of Proposal (page 1 of 2)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KREZ-LD Ch-35 prop, Model: Longley-Rice
Start: 2018.04.04 20:43:12

Study created: 2018.04.04 20:43:12

Study build station data: LMS TV 2018-04-04

Proposal: KREZ-LD D35 LD APP DURANGO, CO
File number: KREZ-LD Ch-35 prop
Facility ID: 32315
Station data: User record
Record ID: 1956
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K28ER	N28+	TX	LIC	DULCE & LUMBERTON, NM	BLTT19970421JC	88.1 km
No	K31CT	N31	TX	LIC	CORTEZ, CO	BLTTL20050802ACX	22.9
No	K34IA-D	D34	LD	LIC	DOVE CREEK, ETC, CO	BLDTT20120615ABN	104.9
No	K34HF-D	D34	LD	LIC	CUBA, NM	BLDTT20060718ABG	167.8
No	KFNM-LD	D34	LD	LIC	FARMINGTON, NM	BLANK0000007539	72.7
No	K34JO-D	D34	LD	LIC	BLUFF & AREA, UT	BLDTT20091222AMM	146.4
No	K34JN-D	D34	LD	LIC	MONTEZUMA CREEK-ANET, UT	BLDTT20091222AML	123.0
No	K35IX-D	D35	LD	LIC	BASALT, CO	BLDTT20091221ABH	242.7
Yes	K35CH-D	D35	LD	LIC	CORTEZ, MANCOS, ETC, CO	BLDTT20090522ABN	24.7
No	K35LJ-D	D35	LD	LIC	CRESTED BUTTE, CO	BLDTT20120522ADQ	199.5
No	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDT20090611AAQ	359.3
Yes	KNME-TV	D35	DT	LIC	ALBUQUERQUE, NM	BLEDT20030218BNH	262.2
No	K35DW	N35	TX	LIC	EMERY, UT	BLTT19950202IF	342.4
No	K35LC-D	D35	LD	LIC	HELPER, UT	BLDTT20120614AAU	371.5
No	K35JI-D	D35	LD	LIC	ORANGEVILLE, UT	BLDTT20100107AAU	356.3
No	K35DX-D	D35	LD	LIC	RURAL SEVIER COUNTY, UT	BLDTT20100108ABZ	367.9
No	K35JM-D	D35	LD	LIC	TEASDALE, UT	BLDTT20120806AAG	336.9
No	K35IQ-D	D35	LD	LIC	VERNAL, ETC., UT	BLDTT20150205ABO	360.2
No	K36JX-D	D36	LD	LIC	MANY FARMS, AZ	BLDTT20110725ADP	138.8
No	K36IH-D	D36	LD	LIC	IGNACIO, CO	BLDTT20101007AAT	37.7
No	KXHD-LP	N36z	TX	LIC	MONTROSE, CO	BLTTL20091006ADG	119.8
No	K36GQ-D	D36	LD	LIC	PARLIN, CO	BLDTL20100527AFW	174.9
No	KASY-TV	D36	DT	CP	ALBUQUERQUE, NM	BLANK0000028107	262.2
No	K36MH-D	D36	LD	CP	FARMINGTON, NM	BNPDTT20100730ADX	72.0
No	K36KD-D	D36	LD	LIC	TIERRA AMARILLA, NM	BLDTT20111102ACA	122.0
No	K36AK-D	D36	LD	LIC	BLANDING/MONTICELLO, UT	BLDTT20120410ACI	151.9
No	K43GT	N43z	TX	LIC	PAGOSA SPRINGS, CO	BLTT20040213AFR	71.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 37 15 46.00 N (NAD83)
Longitude: 107 54 0.20 W
Height AMSL: 2361.9 m
HAAT: 0.0 m
Peak ERP: 0.380 kW
Antenna: RFS RD8S 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.50

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.342 kW	-115.2 m	12.9 km
45.0	0.378	-27.8	13.3

Table 1 KREZ-LD TVStudy Analysis of Proposal
(page 2 of 2)



90.0	0.327	181.7	29.3
135.0	0.207	309.2	32.7
180.0	0.039	330.9	24.5
225.0	0.082	94.6	15.5
270.0	0.052	18.3	8.1
315.0	0.249	-131.7	12.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 83 m

Distance to Canadian border: 1304.6 km

Distance to Mexican border: 609.0 km

Conditions at FCC monitoring station: Douglas AZ

Bearing: 194.6 degrees Distance: 660.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 35.1 degrees Distance: 391.7 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Interference to BLDTT20090522ABN LIC scenario 1

Desired:	Call K35CH-D	Chan D35	Svc LD	Status LIC	City, State CORTEZ, MANCOS, ETC, CO	File Number BLDTT20090522ABN	Distance
Undesireds:	KREZ-LD	D35	LD	APP	DURANGO, CO	KREZ-LD Ch-35 prop	24.7 km
	KNME-TV	D35	DT	LIC	ALBUQUERQUE, NM	BLEDT20030218BNH	283.3

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	2790.4	26,026	2571.4	24,471	2569.5	24,471	2552.5	24,411	0.66 0.25

Undesired				Total IX	Unique IX, before	Unique IX, after
KREZ-LD D35 LD APP		17.0		60		17.0 60
KNME-TV D35 DT LIC		2.0		0	2.0 0	2.0 0

Interference to BLEDT20030218BNH LIC scenario 1

Desired:	Call KNME-TV	Chan D35	Svc DT	Status LIC	City, State ALBUQUERQUE, NM	File Number BLEDT20030218BNH	Distance
Undesireds:	KREZ-LD	D35	LD	APP	DURANGO, CO	KREZ-LD Ch-35 prop	262.2 km
	KASY-TV	D36	DT	CP	ALBUQUERQUE, NM	BLANK0000028107	0.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	54861.4	1,148,911	46487.9	1,100,460	46486.9	1,100,460	46479.8	1,100,460	0.02 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
KREZ-LD D35 LD APP		7.1		0		7.1 0
KASY-TV D36 DT CP		1.0		0	1.0 0	1.0 0

Interference to proposal scenario 1

2.25% interference received

Desired:	Call KREZ-LD	Chan D35	Svc LD	Status APP	City, State DURANGO, CO	File Number KREZ-LD Ch-35 prop	Distance
Undesireds:	K35CH-D	D35	LD	LIC	CORTEZ, MANCOS, ETC, CO	BLDTT20090522ABN	24.7 km

	Service area		Terrain-limited		IX-free		Percent IX
	1528.9	43,190	1312.0	40,130	1280.1	39,228	2.43 2.25

Undesired				Total IX	Unique IX	Pront Unique IX
K35CH-D D35 LD LIC		31.9		902	31.9	902 2.43 2.25