

# OET-69 Interference Analysis (KRMA-TV, Denver, CO, Ch. 18)

Percent allowed new interference: 0.500  
Percent allowed new interference to non Class A LPTV: 2.000  
TW Census data selected 2000  
Data Base Selected  
/export/home/cdbs/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-07-2012

### Record Selected for Analysis

KRMA-TV USERRECORD-01 DENVER CO US  
Channel 18 ERP 750. kW HAAT 309. m RCAMSL 02349 m  
Latitude 039-43-49 Longitude 0105-15-00  
Status APP Zone 2 Border Site number: 01  
Dir Antenna Make usr Model C-04956 Beam tilt N Ref Azimuth 0.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	633.421	422.9	103.6	
45.0	739.537	633.4	119.4	
90.0	744.012	616.3	118.6	
135.0	583.443	529.6	111.5	
180.0	123.019	144.4	67.4	
225.0	37.632	44.6	48.0	
270.0	27.648	50.4	48.4	
315.0	161.124	33.0	50.3	

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap  
to Class A stations from site # 01

Class A Evaluation Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is 1.21km from AM station  
GOLDEN CO NEW Status: Antenna: DAN

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 Start of Interference Analysis

	Proposed Station		
Channel	Call	City/State	ARN
18	KRMA-TV	DENVER CO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMJ	GRAND JUNCTION CO	309.1	LIC	BLEDT	20100430ADO
18	KWNB-DR	HAYES CENTER NE	372.0	APP	BPRM	20110601AKX
19	KTVD	DENVER CO	1.6	LIC	BLCDT	20090218ABY

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KRMJ	GRAND JUNCTION CO	BLEDT	-20100430ADO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMA-TV	DENVER CO	310.4	PLN	DTVPLN	-DTVP0617
18	KRMA-TV	DENVER CO	309.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KWNB-DR	HAYES CENTER NE	BPRM	-20110601AKX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KLBY	COLBY KS	155.1	LIC	BLCDT	-20081215ABD
18	KRMA-TV	DENVER CO	371.3	PLN	DTVPLN	-DTVP0617
19	KWKS	COLBY KS	156.4	LIC	BLEDT	-20070601ATA
18	KRMA-TV	DENVER CO	372.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	KTVD	DENVER CO	BLCDT	-20090218ABY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMA-TV	DENVER CO	6.7	PLN	DTVPLN	-DTVP0617
19	KWKS	COLBY KS	336.5	LIC	BLEDT	-20070601ATA
18	KRMA-TV	DENVER CO	1.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1

# OET-69 Interference Analysis (KRMA-TV, Denver, CO, Ch. 18)

Scenario 1 Affected station 3  
 Before Analysis

Results for: 19A CO DENVER BLCDT 20090218ABY LIC  
 HAAT 374.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3272816	32140.7
not affected by terrain losses	3010963	28346.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2650	211.9
lost to ATV IX only	2650	211.9
lost to all IX	2650	211.9

Potential Interfering Stations Included in above Scenario 1

19A KS COLBY	BLEDT	20070601ATA	LIC
18A CO DENVER	DTVPLN	DTVP0617	PLN

After Analysis

Results for: 19A CO DENVER BLCDT 20090218ABY LIC  
 HAAT 374.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3272816	32140.7
not affected by terrain losses	3010963	28346.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3422	211.9
lost to ATV IX only	3422	211.9
lost to all IX	3422	211.9

Potential Interfering Stations Included in above Scenario 1

19A KS COLBY	BLEDT	20070601ATA	LIC
18A CO DENVER	USERRECORD01		APP

Percent new IX = 0.0257%

Worst case new IX 0.0257% Scenario 1

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## Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
18	KRMA-TV	DENVER CO	USERRECORD-01

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	KRMJ	GRAND JUNCTION CO	309.1	LIC	BLEDT -20100430ADO
18	KWNB-DR	HAYES CENTER NE	372.0	APP	BPRM -20110601AKX
19	KTVD	DENVER CO	1.6	LIC	BLCDT -20090218ABY

Total scenarios = 3

Result key: 2  
 Scenario 1 Affected station 4  
 Before Analysis

Results for: 18A CO DENVER USERRECORD01 APP  
 HAAT 309.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2958672	26735.2
not affected by terrain losses	2917599	24560.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	35540	407.7
lost to ATV IX only	35540	407.7
lost to all IX	35540	407.7

Potential Interfering Stations Included in above Scenario 1

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19A CO DENVER                    BLCDT        20090218ABY   LIC

Result key:                    3  
 Scenario                    2 Affected station                    4  
 Before Analysis

Results for: 18A CO DENVER                    USERRECORD01                    APP

HAAT 309.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2958672	26735.2
not affected by terrain losses	2917599	24560.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	35556	511.6
lost to ATV IX only	35556	511.6
lost to all IX	35556	511.6

Potential Interfering Stations Included in above Scenario                    2

18A NE HAYES CENTER                    BPRM        20110601AKX   APP  
 19A CO DENVER                    BLCDT        20090218ABY   LIC

Result key:                    4  
 Scenario                    3 Affected station                    4  
 Before Analysis

Results for: 18A CO DENVER                    USERRECORD01                    APP

HAAT 309.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2958672	26735.2
not affected by terrain losses	2917599	24560.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	35540	407.7
lost to ATV IX only	35540	407.7
lost to all IX	35540	407.7

Potential Interfering Stations Included in above Scenario                    3

19A CO DENVER                    BLCDT        20090218ABY   LIC

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