

OET-69 Interference Analysis (KRMJ, Grand Junction, CO, Channel 18)

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-08-2010

Record Selected for Analysis

KRMJ USERRECORD-01 GRAND JUNCTION CO US
Channel 18 ERP 21. kW HAAT 409. m RCAMSL 02204 m
Latitude 039-03-58 Longitude 0108-44-43
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000089161 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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	20.492	736.2	91.2
45.0	16.771	777.2	90.6
90.0	20.499	695.7	90.0
135.0	12.629	248.0	63.5
180.0	2.357	42.1	34.8
225.0	1.286	133.7	44.8
270.0	2.343	220.4	53.2
315.0	12.760	416.7	74.6

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

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 OK toward AM broadcast stations

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Start of Interference Analysis

	Proposed Station			
Channel	Call	City/State		ARN
18	KRMJ	GRAND JUNCTION CO		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMA-TV	DENVER CO	310.4	LIC	BLEDT	-20070806AED
18	KRMA-TV	DENVER CO	310.4	PLN	DTVPLN	-DTVP0619
18	KRMA-TV	DENVER CO	310.4	CP MOD	BMPEDT	-20091026AEC

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State		Application	Ref. No.
18	KRMA-TV	DENVER CO		BLEDT	-20070806AED

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMJ	GRAND JUNCTION CO	269.7	PLN	DTVPLN	-DTVP0620
19	KTVD	DENVER CO	6.7	LIC	BLCDT	-20090218ABY
19	KTVD	DENVER CO	6.7	PLN	DTVPLN	-DTVP0653
18	KRMJ	GRAND JUNCTION CO	310.4	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	KRMA-TV	DENVER CO		DTVPLN	-DTVP0619

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMJ	GRAND JUNCTION CO	269.7	PLN	DTVPLN	-DTVP0620
19	KTVD	DENVER CO	6.7	LIC	BLCDT	-20090218ABY
19	KTVD	DENVER CO	6.7	PLN	DTVPLN	-DTVP0653
18	KRMJ	GRAND JUNCTION CO	310.4	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.
18	KRMA-TV	DENVER CO		BMPEDT	-20091026AEC

Stations Potentially Affecting This Station

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18	KRMJ	GRAND JUNCTION CO	269.7	PLN	DTVPLN	-DTVP0620
19	KTVD	DENVER CO	6.7	LIC	BLCDT	-20090218ABY
19	KTVD	DENVER CO	6.7	PLN	DTVPLN	-DTVP0653
18	KRMJ	GRAND JUNCTION CO	310.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KRMJ	GRAND JUNCTION CO	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KRMA-TV	DENVER CO	310.4	LIC	BLEDT	-20070806AED
18	KRMA-TV	DENVER CO	310.4	PLN	DTVPLN	-DTVP0619
18	KRMA-TV	DENVER CO	310.4	CP MOD	BMPEDT	-20091026AEC

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 4
 Before Analysis

Results for: 18A CO GRAND JUNCTION USERRECORD01 APP

	POPULATION	AREA (sq km)
HAAT 409.0 m, ATV ERP 21.0 kW		
within Noise Limited Contour	140823	17232.1
not affected by terrain losses	127710	12335.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

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