

## KTMF EXHIBIT I

Percent allowed new interference: 0.000  
Percent allowed new interference to Class A: 0.000  
Census data selected 2000

Post Transition Data Base Selected  
/space/software/cdbs/tvdb.sff\_B  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-15-2008 Time: 19:30:20

Record Selected for Analysis

KTMF USERRECORD-01 MISSOULA\_PT MT US  
Channel 23 ERP 50. kW HAAT 647. m RCAMSL 02148 m  
Latitude 047-01-10 Longitude 0114-00-46  
Status APP Zone 2 Border  
Dir Antenna Make usr Model KTMF\_RCA 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	45.539	795.3	100.2
45.0	8.820	33.0	37.8
90.0	14.580	240.7	63.7
135.0	18.605	554.7	83.8
180.0	43.999	999.5	105.7
225.0	8.274	1024.7	90.8
270.0	14.195	846.0	91.0
315.0	18.000	686.8	88.6

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KTMF      23 MISSOULA\_PT                      MT USERRECORD01

and station

SHORT TO: KTMF      23 MISSOULA                      MT BPCDT      19991101AIY  
047-01-10    0114-00-46  
Req. separation 223.7 Actual separation    0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border =    220.1km

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
23	KTMF	MISSOULA_PT MT		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KTMF	MISSOULA MT	0.0	CP	BPCDT	-19991101AIY
24	KBTZ	BUTTE MT	164.7	LIC	BLCT	-20030502ABB

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KTMF	MISSOULA MT	BPCDT	-19991101AIY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	KBTZ	BUTTE MT	164.7	LIC	BLCT	-20030502ABB
23	KTMF	MISSOULA_PT MT	0.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 23A MT MISSOULA BPCDT 19991101AIY CP

HAAT 618.0 m, ATV ERP 92.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	165464	25580.5
not affected by terrain losses	150580	18782.9
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

After Analysis

Results for: 23A MT MISSOULA BPCDT 19991101AIY CP  
HAAT 618.0 m, ATV ERP 92.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	165464	25580.5
not affected by terrain losses	150580	18782.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	127255	6938.2
lost to ATV IX only	127255	6938.2
lost to all IX	127255	6938.2

Potential Interfering Stations Included in above Scenario 1

23A MT MISSOULA\_PT USERRECORD01 APP

The following station failed the de minimis interference criteria.

23D MT MISSOULA\_PT USERRECORD01  
ERP 50.00 kW HAAT 647.0 m RCAMSL 2148.0 m  
Antenna usr KTMF\_RCA

Due to interference to the following station and scenario: 1

23D MT MISSOULA BPCDT 19991101AIY  
ERP 92.57 kW HAAT 618.0 m RCAMSL 2125.0 m  
Antenna CDB 00000000074525

Percent Service lost without proposal: 0.0 to BPCDT 19991101AIY  
Percent Service lost with proposal: 84.5 to BPCDT 19991101AIY

Result key: 2  
Scenario 2 Affected station 1  
Before Analysis

Results for: 23A MT MISSOULA BPCDT 19991101AIY CP  
HAAT 618.0 m, ATV ERP 92.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	165464	25580.5
not affected by terrain losses	150580	18782.9
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 2

After Analysis

Results for: 23A MT MISSOULA BPCDT 19991101AIY CP  
HAAT 618.0 m, ATV ERP 92.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	165464	25580.5
not affected by terrain losses	150580	18782.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	127255	6938.2
lost to ATV IX only	127255	6938.2
lost to all IX	127255	6938.2

Potential Interfering Stations Included in above Scenario 2

23A MT MISSOULA\_PT USERRECORD01 APP

The following station failed the de minimis interference criteria.

23D MT MISSOULA\_PT USERRECORD01  
ERP 50.00 kW HAAT 647.0 m RCAMSL 2148.0 m  
Antenna usr KTMF\_RCA

Due to interference to the following station and scenario: 2

23D MT MISSOULA BPCDT 19991101AIY  
ERP 92.57 kW HAAT 618.0 m RCAMSL 2125.0 m  
Antenna CDB 00000000074525

Percent Service lost without proposal: 0.0 to BPCDT 19991101AIY  
Percent Service lost with proposal: 84.5 to BPCDT 19991101AIY

Worst case new IX 84.5099% Scenario 1

Proposed station is MX  
23A MT MISSOULA\_PT USERRECORD01 APP

Proposal MX with group in scenario 2 of station 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	KBTZ	BUTTE MT	BLCT	-20030502ABB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KTMF	MISSOULA MT	164.7	CP	BPCDT	-19991101AIY
24	KIVI	NAMPA ID	381.4	CP	BDTV	-00000179
24	KQUP	PULLMAN WA	408.6	CP	BMPCDT	-20030903AAQ
23	KTMF	MISSOULA_PT MT	164.7	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.
23	KTMF	MISSOULA_PT MT	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KTMF	MISSOULA MT	0.0	CP	BPCDT	-19991101AIY
24	KBTZ	BUTTE MT	164.7	LIC	BLCT	-20030502ABB

Total scenarios = 1

Result key: 3  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 23A MT MISSOULA\_PT USERRECORD01 APP  
 HAAT 647.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	161952	24382.8
not affected by terrain losses	150466	18243.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	125546	6231.2
lost to ATV IX only	125546	6231.2
lost to all IX	125546	6231.2

Potential Interfering Stations Included in above Scenario 1

23A MT MISSOULA BPCDT 19991101AIY CP  
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