

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

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: 05-04-2012

Record Selected for Analysis

K15IG USERRECORD-01 DEMING NM US
Channel 15 ERP 0.77 kW HAAT 385. m RCAMSL 01720 m STRINGENT MASK
Latitude 032-11-40 Longitude 0107-36-29
Status APP Zone 2 Border Site number: 01
Dir Antenna Make CDB Model 00000000020735 Beam tilt N Ref Azimuth 300.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1			
Azimuth	ERP	HAAT	51.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	0.094	420.0	31.2	
45.0	0.000	447.3	3.5	
90.0	0.001	460.9	11.1	
135.0	0.005	444.3	17.3	
180.0	0.001	73.9	4.3	
225.0	0.020	384.6	22.3	
270.0	0.505	425.6	41.5	
315.0	0.693	422.9	43.3	

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station 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 within the Mexican coordination distance
Distance to border = 45.7km

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	ARN
	Call City/State	
15	K15IG DEMING NM	USERRECORD01

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	K14PE-D	BOWIE AZ	177.8	CP	BNPDTL	-20100504AMN
14	K63GU	LA LUZ NM	177.5	APP	BDISDTL	-20110815ACJ
14	K14LO	LORDSBURG NM	88.0	LIC	BLTT	-20051026AAI
14	K14LO	LORDSBURG NM	88.0	CP	BDFCDTT	-20060323AAL
14	NEW	MAGDALENA NM	92.0	APP	BNPDTL	-20100513AEN
15	KNJO-LD	HOLBROOK AZ	378.7	CP	BDCCDTL	-20061026AER
15	KZOL-LP	SAFFORD AZ	216.2	LIC	BLTT	-20060215AAT
15	K15FS	QUEMADO NM	253.9	LIC	BLTT	-20040415ADX
15	K15HC-D	QUEMADO/PIE TOWN NM	233.9	LIC	BLDTT	-20090910ABO
15	K15FT-D	ROSWELL NM	330.4	LIC	BLDTT	-20091211AEV
15	KFOX-TV	EL PASO TX	113.6	LIC	BLCDT	-20051103AAE
16	K16KC-D	SAN SIMON AZ	153.2	CP	BNPDTL	-20100504AMR
16	K57BV	LAS CRUCES & ORGAN NM	66.3	CP	BDISTTL	-20071003AAN
16	K40HJ	LORDSBURG NM	106.2	CP	BDISDTT	-20090824AEA
16	KTSM-TV	EL PASO TX	114.5	APP	BPCDT	-20110509ACB
16	KTSM-DR	EL PASO TX	114.5	APP	BPRM	-20101129APK
18	K18DY	HILLSBORO NM	81.2	LIC	BLTT	-19930624IC
19	K19HV	DEMING NM	0.1	LIC	BLTT	-20100629AOR

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
14	K14PE-D	BOWIE AZ	BNPDTL	-20100504AMN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	K14NA-D	GLOBE & MIAMI AZ	169.3	LIC	BLDTT	-20100527ADW
14	KUDF-LP	TUCSON AZ	115.2	LIC	BLTTL	-19890407IB
14	K14LO	LORDSBURG NM	103.2	LIC	BLTT	-20051026AAI
14	K14LO	LORDSBURG NM	103.2	CP	BDFCDTT	-20060323AAL
15	K15IG	DEMING NM	177.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
14	K63GU	LA LUZ NM	BDISDTL	-20110815ACJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	K38IM	ALBUQUERQUE NM	270.4	CP	BDISDTL	-20091013AGI
14	NEW	MAGDALENA NM	135.8	APP	BNPDTL	-20100513AEN
14	NEW	ROSWELL NM	153.0	APP	BMJADTL	-20100524AIG
15	KFOX-TV	EL PASO TX	126.8	LIC	BLCDT	-20051103AAE
15	K15IG	DEMING NM	177.5	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.
14	K14LO	LORDSBURG NM	BLTT	-20051026AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	KUDF-LP	TUCSON AZ	215.6	LIC	BLTTL	-19890407IB
15	K15IG	DEMING NM	88.0	APP	USERRECORD-01	

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

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.
14	K14LO	LORDSBURG NM	BDFCDTT -20060323AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	K14PE-D	BOWIE AZ	103.2	CP	BNPDTL -20100504AMN
14	KUDF-LP	TUCSON AZ	215.6	LIC	BLTTL -19890407IB
14	K63GU	LA LUZ NM	240.4	APP	BDISDTL -20110815ACJ
14	NEW	MAGDALENA NM	113.0	APP	BNPDTL -20100513AEN
15	K15IG	DEMING NM	88.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
14	NEW	MAGDALENA NM	BNPDTL -20100513AEN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	K38IM	ALBUQUERQUE NM	260.3	CP	BDISDTL -20091013AGI
14	K63GU	LA LUZ NM	135.8	APP	BDISDTL -20110815ACJ
14	K14LO	LORDSBURG NM	113.0	LIC	BLTT -20051026AAI
14	K14LO	LORDSBURG NM	113.0	CP	BDFCDTT -20060323AAL
15	K15IG	DEMING NM	92.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	KNJO-LD	HOLBROOK AZ	BDCCDTL -20061026AER

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KNXV-TV	PHOENIX AZ	240.5	LIC	BLCDDT -20090619ABX
15	KNXV-TV	PHOENIX AZ	240.5	CP	BPCDDT -20080225ABK
15	KZOL-LP	SAFFORD AZ	245.2	LIC	BLTT -20060215AAT
15	K15HY	WILLIAMS-ASHFORK AZ	188.0	LIC	BLTT -20101020ACA
15	KREZ-TV	DURANGO CO	338.9	LIC	BLCDDT -20030324ADD
15	K15IG	DEMING NM	378.7	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	KZOL-LP	SAFFORD AZ	BLTT -20060215AAT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	K14PE-D	BOWIE AZ	47.2	CP	BNPDTL -20100504AMN
15	KNXV-TV	PHOENIX AZ	220.0	LIC	BLCDDT -20090619ABX
15	KNXV-TV	PHOENIX AZ	220.0	CP	BPCDDT -20080225ABK

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

15	KFOX-TV	EL PASO TX	329.2	LIC	BLCDT	-20051103AAE
19	KTTU	TUCSON AZ	85.2	LIC	BLCDT	-20030926ANZ
23	KVOA	TUCSON AZ	85.2	LIC	BLCDT	-20071113AJK
30	KUAT-TV	TUCSON AZ	85.3	LIC	BLCDT	-20040727ABR
15	K15IG	DEMING NM	216.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	K15FS	QUEMADO NM	BLTT -20040415ADX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KNXV-TV	PHOENIX AZ	340.2	LIC	BLCDT -20090619ABX
15	KNXV-TV	PHOENIX AZ	340.2	CP	BPCDT -20080225ABK
15	KZOL-LP	SAFFORD AZ	220.7	LIC	BLTT -20060215AAT
15	KREZ-TV	DURANGO CO	331.7	LIC	BLCDT -20030324ADD
15	K15HC-D	QUEMADO/PIE TOWN NM	61.3	LIC	BLDTT -20090910ABO
15	KFOX-TV	EL PASO TX	340.5	LIC	BLCDT -20051103AAE
15	K15IG	DEMING NM	253.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	K15HC-D	QUEMADO/PIE TOWN NM	BLDTT -20090910ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KNJO-LD	HOLBROOK AZ	217.1	CP	BDCCDTL -20061026AER
15	KZOL-LP	SAFFORD AZ	255.3	LIC	BLTT -20060215AAT
15	KREZ-TV	DURANGO CO	331.2	LIC	BLCDT -20030324ADD
15	K15FS	QUEMADO NM	61.3	LIC	BLTT -20040415ADX
15	KFOX-TV	EL PASO TX	304.7	LIC	BLCDT -20051103AAE
15	K15IG	DEMING NM	233.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	K15FT-D	ROSWELL NM	BLDTT -20091211AEV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	NEW	ROSWELL NM	0.0	APP	BMJADTL -20100524AIG
15	KCIT	AMARILLO TX	318.4	LIC	BLCDT -20080519ABV
15	KFOX-TV	EL PASO TX	265.0	LIC	BLCDT -20051103AAE
15	K15IG	DEMING NM	330.4	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	KFOX-TV	EL PASO TX	BLCDT -20051103AAE

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KTSM-TV	EL PASO TX	1.2	APP	BPCDT	-20110509ACB
16	KTSM-DR	EL PASO TX	1.2	APP	BPRM	-20101129APK
15	K15IG	DEMING NM	113.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 15A TX EL PASO BLCDT 20051103AAE LIC
HAAT 602.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	863695	41896.6
not affected by terrain losses	857345	39131.7
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

After Analysis

Results for: 15A TX EL PASO BLCDT 20051103AAE LIC
HAAT 602.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	863695	41896.6
not affected by terrain losses	857345	39131.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	627	1038.5
lost to ATV IX only	627	1038.5
lost to all IX	627	1038.5

Potential Interfering Stations Included in above Scenario 1

15A NM DEMING USERRECORD01 APP

Percent new IX = 0.0731%

Worst case new IX 0.0731% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	K16KC-D	SAN SIMON AZ	BNPDTL	-20100504AMR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	K16FB-D	GLOBE AZ	187.3	LIC	BLDTL	-20111026AFE
16	K16EO	ORO VALLEY/TUCSON AZ	166.5	APP	BDFCDTT	-20090624AEA
16	K16EO	ORO VALLEY/TUCSON AZ	166.5	LIC	BLTT	-20030528AJV
16	KZOL-LP	SAFFORD AZ	71.5	CP MOD	BMPDTL	-20101223ABY
16	K40HJ	LORDSBURG NM	48.3	CP	BDISDTT	-20090824AEA
16	KTSM-TV	EL PASO TX	264.4	APP	BPCDT	-20110509ACB
16	KTSM-DR	EL PASO TX	264.4	APP	BPRM	-20101129APK
15	K15IG	DEMING NM	153.2	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

Channel	Call	City/State	Application Ref. No.
16	K57BV	LAS CRUCES & ORGAN NM	BDISTTL -20071003AAN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KFOX-TV	EL PASO TX	65.0	LIC	BLCDT -20051103AAE
16	K16BZ-D	RUIDOSO NM	163.6	LIC	BLDIT -20091211AEN
16	KTSM-TV	EL PASO TX	66.2	APP	BPCDT -20110509ACB
16	KTSM-DR	EL PASO TX	66.2	APP	BPRM -20101129APK
17	KVIA-DR	EL PASO TX	66.2	APP	BPRM -20110120ABW
17	KVIA-TV	EL PASO TX	66.2	CP	BPCDT -20110825AAK
18	KDBC-TV	EL PASO TX	67.0	LIC	BLCDT -20090713ABW
23	KRWG-TV	LAS CRUCES NM	20.0	LIC	BLEDT -20071119AFE
23	KRWG-TV	LAS CRUCES NM	20.0	CP	BPEDT -20080709AHL
15	K15IG	DEMING NM	66.3	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	K40HJ	LORDSBURG NM	BDISDTT -20090824AEA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
16	K16FB-D	GLOBE AZ	223.6	LIC	BLDTL -20111026AFE
16	KZOL-LP	SAFFORD AZ	111.1	CP MOD	BMPDTL -20101223ABY
16	K16KC-D	SAN SIMON AZ	48.3	CP	BNPDTL -20100504AMR
16	KTSM-TV	EL PASO TX	219.2	APP	BPCDT -20110509ACB
16	KTSM-DR	EL PASO TX	219.2	APP	BPRM -20101129APK
15	K15IG	DEMING NM	106.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	KTSM-TV	EL PASO TX	BPCDT -20110509ACB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KFOX-TV	EL PASO TX	1.2	LIC	BLCDT -20051103AAE
16	KTSM-DR	EL PASO TX	0.0	APP	BPRM -20101129APK
17	KVIA-DR	EL PASO TX	0.0	APP	BPRM -20110120ABW
17	KVIA-TV	EL PASO TX	0.0	CP	BPCDT -20110825AAK
15	K15IG	DEMING NM	114.5	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	KTSM-DR	EL PASO TX	BPRM -20101129APK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KFOX-TV	EL PASO TX	1.2	LIC	BLCDT -20051103AAE
16	KTSM-TV	EL PASO TX	0.0	APP	BPCDT -20110509ACB
17	KVIA-DR	EL PASO TX	0.0	APP	BPRM -20110120ABW
17	KVIA-TV	EL PASO TX	0.0	CP	BPCDT -20110825AAK
15	K15IG	DEMING NM	114.5	APP	USERRECORD-01

Proposal causes no interference

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application Ref. No.
18	K18DY	HILLSBORO NM	BLTT -19930624IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	K18IL-D	CABALLO NM	30.1	CP	BDCCDTT -20061030AIE
18	K18GQ	RUIDOSO, ETC. NM	172.5	LIC	BLTT -20060227ADL
18	KDBC-TV	EL PASO TX	160.2	LIC	BLCDT -20090713ABW
15	K15IG	DEMING NM	81.2	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19HV	DEMING NM	BLTT -20100629AOR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KFOX-TV	EL PASO TX	113.5	LIC	BLCDT -20051103AAE
16	KTSM-TV	EL PASO TX	114.5	APP	BPCDT -20110509ACB
16	KTSM-DR	EL PASO TX	114.5	APP	BPRM -20101129APK
17	KVIA-DR	EL PASO TX	114.5	APP	BPRM -20110120ABW
17	KVIA-TV	EL PASO TX	114.5	CP	BPCDT -20110825AAK
18	KDBC-TV	EL PASO TX	114.9	LIC	BLCDT -20090713ABW
19	KTTU	TUCSON AZ	292.9	LIC	BLCDT -20030926ANZ
19	KOCT	CARLSBAD NM	325.6	LIC	BLCDT -20090616ABK
23	KRWG-TV	LAS CRUCES NM	86.2	LIC	BLEDT -20071119AFE
23	KRWG-TV	LAS CRUCES NM	86.2	CP	BPEDT -20080709AHL
15	K15IG	DEMING NM	0.1	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	K15IG	DEMING NM	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KZOL-LP	SAFFORD AZ	216.2	LIC	BLTT -20060215AAT
15	KFOX-TV	EL PASO TX	113.6	LIC	BLCDT -20051103AAE
16	KTSM-TV	EL PASO TX	114.5	APP	BPCDT -20110509ACB
16	KTSM-DR	EL PASO TX	114.5	APP	BPRM -20101129APK

Total scenarios = 1

Result key:

2

Scenario 1 Affected station 19
Before Analysis

Results for: 15A NM DEMING

USERRECORD01

APP

HAAT 385.0 m, ATV ERP 0.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	22366	2526.1
not affected by terrain losses	22366	2505.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1749	802.5

OET-69 Interference Analysis, K15IG-D, Deming, NM, Channel 15 (worst-case scenarios)

lost to ATV IX only	1749	802.5
lost to all IX	1749	802.5

Potential Interfering Stations Included in above Scenario 1

15A TX EL PASO BLCDT 20051103AAE LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED