

TV Translator K44HO • as DTV Channel 49 • Los Alamos/Española, New Mexico

Results of OET-69 Interference Study for Proposed Operation

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-18-2006 Time: 15:48:08

Record Selected for Analysis

K44HO-D USERRECORD-01 LOS ALAMOS NM US
Channel 49 ERP 0.694 kW HAAT 543. m RCAMSL 03093 m STRINGENT MASK
Latitude 035-53-09 Longitude 0106-23-15
Status APP Zone 2 Border
Dir Antenna Make usr Model K723147 Beam tilt N Ref Azimuth 0.

Census data selected: 1990

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	0.041	128.8	14.9
45.0	0.492	679.7	47.0
90.0	0.420	953.0	50.6
135.0	0.030	919.9	33.4
180.0	0.002	671.7	16.2
225.0	0.001	320.4	9.9
270.0	0.001	278.6	8.6
315.0	0.002	392.2	11.7

Contour Overlap to Proposed Station

Station
K48IE 48 ESPANOLA NM BNPTT20000816ACN

Station inside contour of Digital LPTV station
K44HO-D 49 LOS ALAMOS NM USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

August 22, 2006
Exhibit 11, Page 1 of 16

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Results of OET-69 Interference Study for Proposed Operation

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
49	K44HO-D	LOS ALAMOS NM	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	K34FD	CHAMA, ETC. NM	114.3	LIC	BLTT	-20000414ABN
34	K34HF-D	CUBA NM	43.4	CP	BNPTT	-20000831AOF
35	K35GY	CUBA NM	43.4	LIC	BLTT	-20060628ABZ
35	K35BZ	EAGLE NEST NM	133.4	LIC	BLTTV	-19881219IG
35	NEW	ESPANOLA NM	44.1	APP	BNPTT	-20000831CFV
41	KLUZ-TV	ALBUQUERQUE NM	75.2	LIC	BLCT	-19980714KE
45	K45GD	ROMEO, ETC CO	112.8	LIC	BLTT	-20020320ACZ
45	NEW	ESPANOLA NM	44.1	APP	BNPTTL	-20000829ARK
46	K46FI	GRANTS NM	130.0	LIC	BLTT	-20010814AAD
46	K46GL	RED RIVER NM	127.0	LIC	BLTT	-20041014ACU
46	K46GY	SANTA FE NM	74.9	LIC	BLTT	-20030403AAN
46	K46GY	SANTA FE NM	74.9	CP	BPTTL	-20031003ACN
47	K47KC	ROMEO CO	113.2	CP	BNPTTL	-20000802ADC
47	K56FB	ALBUQUERQUE NM	74.9	CP	BPTTL	-20031229ABO
47	K47GV	LAS VEGAS NM	107.6	LIC	BLTT	-20011031AAU
48	K48HA	PAGOSA SPRINGS CO	158.4	LIC	BLTT	-20040325ACK
48	KTFA-LP	ALBUQUERQUE NM	75.2	LIC	BLTTL	-20031212ABM
48	K48AX	EAGLE NEST NM	133.4	LIC	BLTT	-19950802JF
48	K48IE	ESPANOLA NM	44.1	CP	BNPTT	-20000816ACN
48	K48GD	GALLINA NM	50.1	LIC	BLTT	-20000728ACE
49	K49ET	MANY FARMS AZ	251.0	LIC	BLTT	-20011002AAQ
49	K49CJ	COLORADO SPRINGS CO	345.3	LIC	BLTTL	-20000505AAL
49	K49EQ	CORTEZ, ETC. CO	227.3	LIC	BLTTL	-19990503JA
49	K49BW	CRESTED BUTTE, ETC. CO	328.3	LIC	BLTT	-19961231JL
49	K49BT	DEORA CO	362.4	LIC	BLTT	-19880621IL
49	NEW	MONTROSE CO	314.1	APP	BSFDTT	-20060630AOY
49	NEW	ROMEO, ETC. CO	113.2	APP	BSFDTT	-20060630CTE
49	K49AH	SILT CO	403.5	CP	BDFCDTT	-20060331AWR
49	K49AH	SILT, ETC. CO	403.5	LIC	BLTT	-19820426IK
49	K49FX	ALAMOGORDO NM	342.8	LIC	BLTT	-20030424AAG
49	K49FX	ALAMOGORDO NM	342.8	APP	BDFCDTT	-20060323AAJ
49	K49CZ	CABALLO NM	332.9	LIC	BLTT	-19910123IE
49	K49BY	CLOVIS NM	339.1	CP	BPTT	-20060331ATP
49	K49BY	CLOVIS NM	339.1	CP	BDFCDTT	-20060331AUT
49	K49BY	CLOVIS NM	330.5	LIC	BLTT	-19960823JA
49	NEW	ROSWELL NM	320.5	APP	BNPTTL	-20000828AFJ
49	K49EW	RUIDOSO NM	281.4	LIC	BLTT	-20000726AAU
49	NEW	RUIDOSO NM	281.4	APP	BNPTT	-20000829ATP
49	K49IL	TECOLOTE NM	120.7	LIC	BLTT	-20050622AAJ
49	NEW	TIMBERON NM	365.7	APP	BNPTTL	-20000831EIG
50	K50FS	BAYFIELD CO	174.5	LIC	BLTT	-20011206AAM
50	NEW	DURANGO CO	205.1	APP	BNPTTL	-20000828ASD
50	NEW	DURANGO CO	205.1	APP	BNPTTL	-20000828ANI
50	KASY-TV	ALBUQUERQUE NM	75.0	LIC	BLCT	-20011102ABA
50	NEW	FARMINGTON NM	184.6	APP	BNPTTL	-20000828AYB
50	NEW	FARMINGTON NM	184.6	APP	BNPTTL	-20000828ALO
51	K51DM	ANTONITO NM	113.2	LIC	BLTT	-19911220JK



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53	KTEL-LP	ALBUQUERQUE NM	74.9	LIC	BLTTTL	-19990203JB
56	K56FB	ALBUQUERQUE NM	74.9	LIC	BLTTTL	-19940909IF
56	K56FB	ALBUQUERQUE NM	74.9	STA	BSTA	-20050512AFG
56	K56EH	CEBOLLA NM	72.3	LIC	BLTT	-19891214IA
57	K57CB	ROMEO, ETC. CO	112.8	LIC	BLTT	-19810226IY

[illegible]

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
34	K34FD	CHAMA, ETC. NM	BLTT	-20000414ABN

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.
34	K34HF-D	CUBA NM	BNPTT	-20000831AOF

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
35	K35GY	CUBA NM	BLTT	-20060628ABZ

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
35	K35BZ	EAGLE NEST NM	BLTTV	-19881219IG

Proposed station is beyond the site to nearest cell evaluation distance

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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
35	NEW	ESPANOLA NM	BNPTT -20000831CFV

Proposal causes no interference

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Analysis of Interference to Affected Station 6

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
41	KLUZTV	ALBUQUERQUE NM	DTVPLN -NPLN1607

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.
45	K45GD	ROMEO, ETC CO	BLTT -20020320ACZ

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
45	NEW	ESPANOLA NM	BNPTTL -20000829ARK

Stations Potentially Affecting This Station
Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46FI	GRANTS NM	BLTT -20010814AAD

Proposed station is beyond the site to
nearest cell evaluation distance



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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46GL	RED RIVER NM	BLTT -20041014ACU

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46GY	SANTA FE NM	BLTT -20030403AAN

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
46	K46GY	SANTA FE NM	BPTTL -20031003ACN

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	K47KC	ROMEO CO	BNPTTL -20000802ADC

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K56FB	ALBUQUERQUE NM	BPTTL	-20031229ABO

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47GV	LAS VEGAS NM	BLTT	-20011031AAU

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48HA	PAGOSA SPRINGS CO	BLTT	-20040325ACK

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	KTFA-LP	ALBUQUERQUE NM	BLTTL	-20031212ABM

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
48	K48AX	EAGLE NEST NM	BLTT	-19950802JF

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.
48	K48IE	ESPANOLA NM	BNPTT -20000816ACN

Proposal causes no interference

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Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	K48GD	GALLINA NM	BLTT -20000728ACE

Proposal causes no interference

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Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49ET	MANY FARMS AZ	BLTT -20011002AAQ

Proposal causes no interference

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Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49CJ	COLORADO SPRINGS CO	BLTTL -20000505AAL

Proposal causes no interference

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Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49EQ	CORTEZ, ETC. CO	BLTTL -19990503JA

Proposal causes no interference



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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 24

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49BW	CRESTED BUTTE, ETC. CO	BLTT -19961231JL

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 25

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49BT	DEORA CO	BLTT -19880621IL

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 26

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	NEW	MONTROSE CO	BSFDTT -20060630AOY

Proposal causes no interference

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Analysis of Interference to Affected Station 27

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	NEW	ROMEO, ETC. CO	BSFDTT -20060630CTE

Proposal causes no interference

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Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49AH	SILT CO	BDFCDTT -20060331AWR

Proposed station is beyond the site to
nearest cell evaluation distance



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Analysis of Interference to Affected Station 29

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49AH	SILT, ETC. CO	BLTT -19820426IK

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 30

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49FX	ALAMOGORDO NM	BLTT -20030424AAG

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 31

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49FX	ALAMOGORDO NM	BDFCDTT -20060323AAJ

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 32

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49CZ	CABALLO NM	BLTT -19910123IE

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 33

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49BY	CLOVIS NM	BPTT -20060331ATP

Proposal causes no interference

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Analysis of Interference to Affected Station 34

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49BY	CLOVIS NM	BDFCDTT -20060331AUT

Proposal causes no interference

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Analysis of Interference to Affected Station 35

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49BY	CLOVIS NM	BLTT -19960823JA

Proposal causes no interference

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Analysis of Interference to Affected Station 36

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	NEW	ROSWELL NM	BNPTTL -20000828AFJ

Proposal causes no interference

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Analysis of Interference to Affected Station 37

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K49EW	RUIDOSO NM	BLTT -20000726AAU

Proposal causes no interference



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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 38

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	NEW	RUIDOSO NM	BNPTT	-20000829ATP

Proposal causes no interference

#####

Analysis of Interference to Affected Station 39

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	K49IL	TECOLOTE NM	BLTT	-20050622AAJ

Proposal causes no interference

#####

Analysis of Interference to Affected Station 40

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	NEW	TIMBERON NM	BNPTTL	-20000831EIG

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 41

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	K50FS	BAYFIELD CO	BLTT	-20011206AAM

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 42

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	NEW	DURANGO CO	BNPTTL	-20000828ASD

Proposed station is beyond the site to
nearest cell evaluation distance



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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 43

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	NEW	DURANGO CO	BNPTTL -20000828ANI

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 44

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
50	KASYTV	ALBUQUERQUE NM	DTVPLN -NPLN1780

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
42	KLUZ-DT	ALBUQUERQUE NM	0.0	PLN	DTVPLN -DTVP1201
51	KASY-DT	ALBUQUERQUE NM	0.0	PLN	DTVPLN -DTVP1487

Results for: 50N NM ALBUQUERQUE	DTVPLN	NPLN1780	PLN
POPULATION	749859	38040.5	
AREA (sq km)	730655	31661.0	
within Noise Limited Contour	0	0.0	
not affected by terrain losses	0	0.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to all IX	0	0.0	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KASY-TV	ALBUQUERQUE NM	BLCT -20011102ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
42	KLUZ-DT	ALBUQUERQUE NM	0.2	PLN	DTVPLN -DTVP1201
42	KLUZ-TV	ALBUQUERQUE NM	0.2	CP	BPCDT -20060705ACC
51	KASY-DT	ALBUQUERQUE NM	0.3	PLN	DTVPLN -DTVP1487
49	K44HO-D	LOS ALAMOS NM	75.0	APP	USERRECORD-01

Total scenarios = 2



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Results of OET-69 Interference Study for Proposed Operation

Result key: 1
Scenario 1 Affected station 44 KASY-TV
Before Analysis

Results for: 50N NM ALBUQUERQUE	BLCT	20011102ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	750604	38219.2	
not affected by terrain losses	732029	31721.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	117	28.9	
lost to all IX	117	28.9	

Potential Interfering Stations Included in above Scenario 1

51A NM ALBUQUERQUE DTVPLN DTVP1487 PLN

After Analysis

Results for: 50N NM ALBUQUERQUE	BLCT	20011102ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	750604	38219.2	
not affected by terrain losses	732029	31721.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	2880	87.7	
lost to all IX	2880	87.7	

Potential Interfering Stations Included in above Scenario 1

51A NM ALBUQUERQUE DTVPLN DTVP1487 PLN
49A NM LOS ALAMOS USERRECORD01 APP

Result key: 2
Scenario 2 Affected station 44 KASY-TV
Before Analysis

Results for: 50N NM ALBUQUERQUE	BLCT	20011102ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	750604	38219.2	
not affected by terrain losses	732029	31721.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	117	28.9	
lost to all IX	117	28.9	

Potential Interfering Stations Included in above Scenario 2

51A NM ALBUQUERQUE DTVPLN DTVP1487 PLN

After Analysis

Results for: 50N NM ALBUQUERQUE	BLCT	20011102ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	750604	38219.2	
not affected by terrain losses	732029	31721.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	2880	87.7	
lost to all IX	2880	87.7	



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Results of OET-69 Interference Study for Proposed Operation

Potential Interfering Stations Included in above Scenario 2

51A NM ALBUQUERQUE	DTVPLN	DTVP1487	PLN
49A NM LOS ALAMOS	USERRECORD01		APP

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Analysis of Interference to Affected Station 45

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	NEW	FARMINGTON NM	BNPTTL -20000828AYB

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 46

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	NEW	FARMINGTON NM	BNPTTL -20000828ALO

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 47

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	K51DM	ANTONITO NM	BLTT -19911220JK

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 48

Analysis of current record

Channel	Call	City/State	Application Ref. No.
53	KTEL-LP	ALBUQUERQUE NM	BLTTL -19990203JB

Proposed station is beyond the site to
nearest cell evaluation distance



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Analysis of Interference to Affected Station 49

Analysis of current record

Channel	Call	City/State	Application Ref. No.
56	K56FB	ALBUQUERQUE NM	BLTTL -19940909IF

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 50

Analysis of current record

Channel	Call	City/State	Application Ref. No.
56	K56FB	ALBUQUERQUE NM	BSTA -20050512AFG

Proposal causes no interference

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Analysis of Interference to Affected Station 51

Analysis of current record

Channel	Call	City/State	Application Ref. No.
56	K56EH	CEBOLLA NM	BLTT -19891214IA

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 52

Analysis of current record

Channel	Call	City/State	Application Ref. No.
57	K57CB	ROMEO, ETC. CO	BLTT -19810226IY

Proposed station is beyond the site to
nearest cell evaluation distance

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Results of OET-69 Interference Study for Proposed Operation

Analysis of Interference to Affected Station 53

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	K44HO-D	LOS ALAMOS NM	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	KASY-TV	ALBUQUERQUE NM	75.0	LIC	BLCT -20011102ABA

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 53 K44HO-D
Before Analysis

Results for: 49A NM LOS ALAMOS USERRECORD01 APP

HAAT 543.0 m, ATV ERP 0.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	53281	2409.6
not affected by terrain losses	52526	2174.5
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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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

