

## **ENGINEERING EXHIBIT**

### **Digital Low Power Television Station Application for Minor Modification of Construction Permit**

prepared for

#### **Gray Television Licensee, LLC**

KXNV-LD Incline Village, NV

Facility ID 184239

Ch. 27 15 kW Nondirectional

*Gray Television Licensee, LLC* (“*Gray*”) is the permittee of digital Low Power Television station KXNV-LD, Channel 27, Incline Village NV, Facility ID 184239. KXNV-LD is authorized to operate (file# BMPD TT-20130204AAI) with 15 kW effective radiated power (“ERP”), nondirectional. *Gray* herein seeks a minor modification of the Construction Permit to relocate the KXNV-LD facility.

As proposed herein, KXNV-LD will utilize an existing tower structure located 0.34 km (0.2 miles) from the authorized KXNV-LD site. The proposed antenna supporting structure is not registered as the overall structure height does not exceed 61 meters above ground and passes the FCC’s TOWAIR program for the location. The proposed facility will employ a new side-mounted antenna and no change to the overall structure height will occur.

The proposed ERP is 15 kW using a “full service” out of channel emission mask. The proposed KXNV-LD transmitting antenna is a Dielectric model TLP-12A/VP-R having elliptical polarization (30 percent vertical power). The horizontally polarized ERP is 15 kW and the vertically polarized ERP is 4.5 kW. Figure 1 depicts the 51 dB $\mu$  coverage contour of the proposed KXNV-LD and that of the authorized facility, demonstrating compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69<sup>1</sup> shows that the proposal complies with the FCC's interference protection requirements toward all digital television, television translator, LPTV, and Class A stations. FCC processing of this proposal is requested using a **1.0 km cell size and 0.1 km terrain profile increment**. The results, summarized in Table 1, show that any new interference does not exceed the FCC's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility except with respect to K27OD-D which does not present a conflict for the proposal.

The authorized K27OD-D facility (0000054716, Ch. 27, Facility ID 71060, Verdi/Mogul NV, licensed as K51DJ-D on Ch. 51) would receive 31.95 percent interference from the proposed KXNV-LD, which exceeds the 2.0 percent limit towards LPTV/translator stations. This matches the 31.95 percent interference caused to K27OD-D by the authorized KXNV-LD facility. Table 2 supplies interference study details regarding the impact to K27DO-D from the authorized and proposed KXNV-LD, showing that interference will not be increased to this facility. The existing interference arose because the K27OD-D facility's underlying CP application was submitted subsequent to the grant of the existing KXNV-LD authorization. Accordingly, the proposal complies with §74.793 regarding interference protection to digital television, low power television, television translator, and Class A television facilities.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed transmitting location is on Slide Mountain overlooking Incline Village and Reno, NV. There are numerous other transmitting facilities at this site area situated on various antenna supporting structures. *Gray* participates in a radiofrequency ("RF") electromagnetic field exposure safety program, along with other broadcasters and FCC licensees that utilize the Slide Mountain site area. Following construction of the proposed facility, *Gray* will conduct RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the proposed KXNV-LD facility. As necessary, based on these results and

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<sup>1</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 1 km cell size, and 0.1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

considering all emitters, appropriate exposure abatement procedures will be established and followed, in order to comply with the FCC's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Considering the post-construction measurement and an appropriate abatement program, the general public and workers will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any "controlled" areas. *Gray* will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

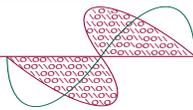
This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

List of Attachments

Figure 1	Coverage Contour Comparison
Table 1	TVStudy Analysis of Proposal
Table 2	Interference Study Details Regarding K27OD-D
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.                      March 12, 2021  
207 Old Dominion Road                      Yorktown, VA 23692                      703-650-9600

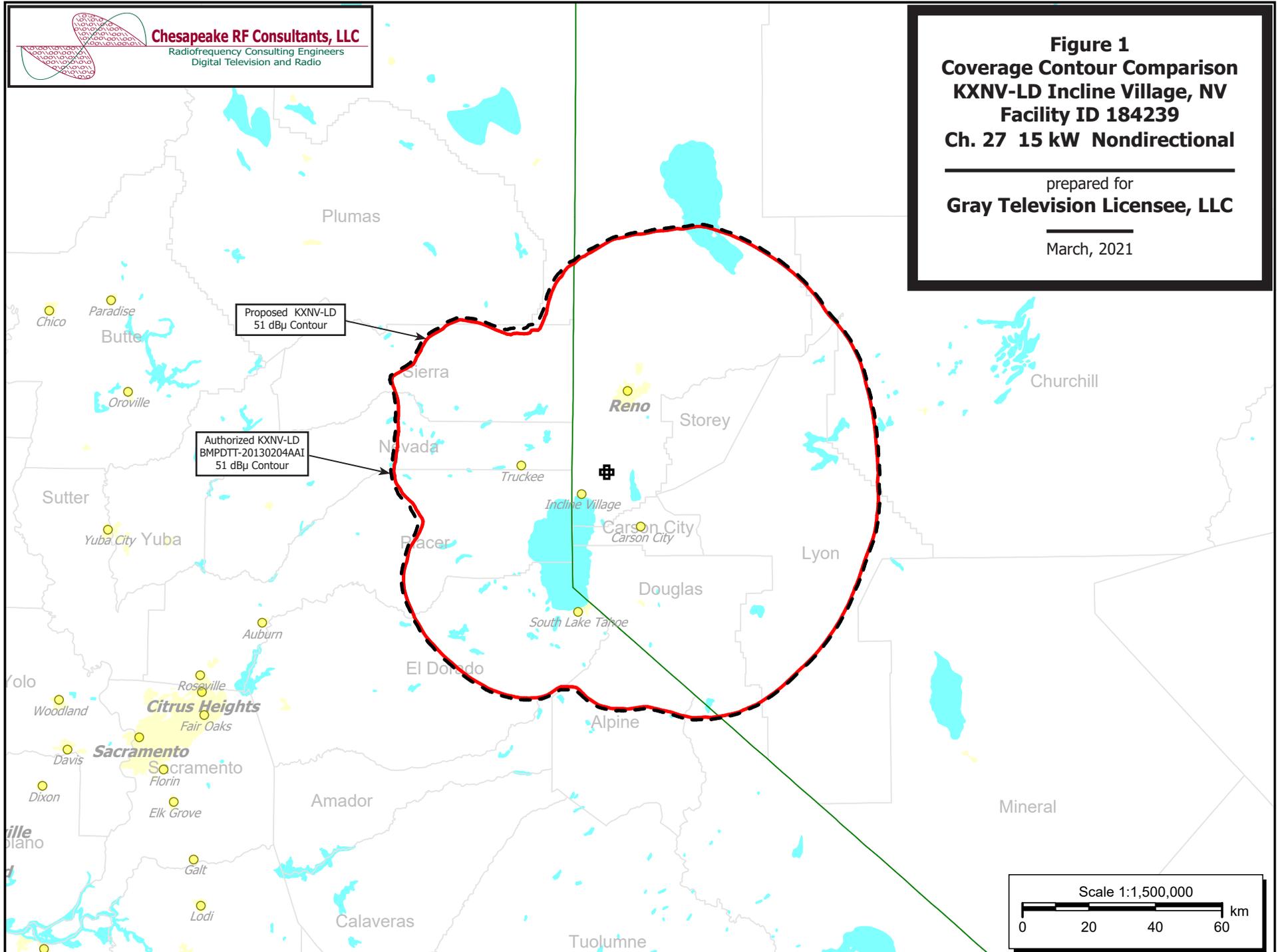


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 1**  
**Coverage Contour Comparison**  
**KXNV-LD Incline Village, NV**  
**Facility ID 184239**  
**Ch. 27 15 kW Nondirectional**

prepared for  
**Gray Television Licensee, LLC**

March, 2021



**Table 1 KXNV-LD TVStudy Analysis of Proposal**  
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tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KXNV-LD\_Prop 1.0-0.1, Model: Longley-Rice  
Start: 2021.03.11 16:22:30

Study created: 2021.03.11 16:22:30

Study build station data: LMS TV 2021-03-11

Proposal: KXNV-LD D27 LD APP INCLINE VILLAGE, NV  
File number: KXNV-LD\_Prop  
Facility ID: 184239  
Station data: User record  
Record ID: 3560  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KRRI-LP	N25-	TX	LIC	RENO, NV	BLTTL19981028JG	30.9 km
No	KQLY-LD	D26	LD	CP	CHICO, CA	BNPDTL20100722HYG	187.0
No	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	184.1
No	KREN-TV	D26	DT	LIC	RENO, NV	BLCDT20090227AAM	0.1
No	K26JC-D	D26	LD	LIC	WALKER LAKE, NV	BLDTT20141215AAT	137.7
No	KUCO-LD	D27	LD	LIC	CHICO, CA	BLANK0000069322	172.3
No	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000073456	252.3
No	K27GZ	N27+	TX	LIC	MARIPOSA, CA	BLTT20020221AAJ	198.3
No	KYMB-LD	D27	LD	LIC	MONTEREY, CA	BLANK0000002659	344.2
No	K42JQ-D	D27	LD	CP	REDDING, CA	BLANK0000034998	269.7
No	KBTW-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	161.1
Yes	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	282.6
Yes	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	132.3
No	K27EE-D	D27	LD	LIC	UKIAH, CA	BLDTL20120509AFS	277.3
No	K27DY	N27	TX	LIC	CARLIN, NV	BLTT19930413JE	356.9
No	K45LE-D	D27	LD	CP	EUREKA, NV	BLANK0000054893	334.1
Yes	K41GI-D	D27	LD	CP	IMLAY, NV	BLANK0000054085	199.1
No	K27OI-D	D27	LD	LIC	MINA / LUNING, NV	BLANK0000071520	188.6
No	K27MF-D	D27	LD	CP	OROVADA, NV	BDCDDTT20120601ARM	285.6
No	K27OM-D	D27	LD	LIC	VALMY, NV	BLANK0000087701	278.2
Yes	K51DJ-D	D27	LD	CP	VERDI/MOGUL, NV	BLANK0000054716	29.7
No	KMMW-LD	D28	LD	LIC	STOCKTON, CA	BLDTL20090518ADI	151.4
No	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	153.1
No	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA	BLDTA20100914AHF	167.1
No	K28QC-D	D28	LD	LIC	IMLAY, NV	BLANK0000097539	133.3
Yes	K28NP-D	D28	LD	CP	RENO, NV	BLANK0000071521	29.9
Yes	K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	33.6
No	K28PP-D	D28	LD	LIC	SHURZ, NV	BLANK0000073914	93.9
Yes	K28PX-D	D28	LD	LIC	STEAD, NV	BLANK0000067486	30.9
No	K28GX-D	D28	LD	LIC	WALKER LAKE, NV	BLDTT20111208ACF	139.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27  
Mask: Full Service  
Latitude: 39 18 48.60 N (NAD83)  
Longitude: 119 53 3.60 W  
Height AMSL: 2962.2 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.50

50.0 dBu contour:

**Table 1 KXNV-LD TV Study Analysis of Proposal**  
(page 2 of 4)



Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	667.7 m	70.6 km
45.0	15.0	1300.9	84.1
90.0	15.0	1238.7	83.0
135.0	15.0	1354.9	84.8
180.0	15.0	731.0	72.0
225.0	15.0	859.4	74.6
270.0	15.0	467.5	64.7
315.0	15.0	460.5	64.5

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 885 m

Distance to Canadian border: 1032.7 km

Distance to Mexican border: 778.3 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 223.2 degrees Distance: 240.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 81.1 degrees Distance: 1252.7 km

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000108410 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	282.6 km
	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK0000071577	139.3
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	99.2
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000073456	277.3
	KBTM-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	123.9
	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	154.4
	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	135.9
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	33275.4	7,876,739	28490.7	6,845,528	27168.9	6,720,387	0.00 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
KXNV-LD	D27	LD	APP	395.9	23,169	0.0	0
KDJT-CD	D26	DC	LIC	10.0	2,078	8.0	2,078
KTFK-DT	D26	DT	LIC	1062.2	106,081	95.7	4,386
KNSO	D27	DT	LIC	818.0	106,339	66.6	12,390
KBTM-CD	D27	DC	LIC	681.5	50,754	47.3	1,143
KMMD-CD	D28	DC	LIC	135.7	3,449	118.7	3,449

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Interference to BLANK0000108410 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	282.6 km
	KDJT-CD	D26	DC	LIC	SALINAS/MONTEREY,ETC, CA	BLANK0000071577	139.3
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	99.2
	KNSO	D27	DT	LIC	CLOVIS, CA	BLANK0000073456	277.3
	KBTM-CD	D27	DC	LIC	SACRAMENTO, CA	BLDTA20140908ADO	123.9
	KMMD-CD	D28	DC	LIC	SALINAS, CA	BLANK0000068622	154.4
	KKPM-CD	D28+	DC	LIC	YUBA CITY, CA	BLDTA20100914AHF	170.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX

**Table 1 KXNV-LD TVStudy Analysis of Proposal**  
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33275.4	7,876,739	28490.7	6,845,528	27168.9	6,720,387	27168.9	6,720,387	0.00	0.00
Undesired			Total IX	Unique IX, before		Unique IX, after			
KXNV-LD D27 LD APP	395.9		23,169			0.0	0		
KDJT-CD D26 DC LIC	10.0		2,078	8.0	2,078	8.0	2,078		
KTFK-DT D26 DT LIC	1062.2		106,081	95.7	4,386	95.7	4,386		
KNSO D27 DT LIC	818.0		106,339	66.6	12,390	63.5	12,390		
KBTB-CD D27 DC LIC	681.5		50,754	47.3	1,143	47.3	1,143		
KMMD-CD D28 DC LIC	135.7		3,449	118.7	3,449	118.7	3,449		
KKPM-CD D28+ DC LIC	31.1		144	0.0	0	0.0	0		

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Interference to BLANK0000063050 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050			
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	132.3 km		
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
	6776.2	30,475	5109.8	27,521	5109.8	27,521	0.98	0.00	
Undesired			Total IX	Unique IX, before		Unique IX, after			
KXNV-LD D27 LD APP	49.9		0			49.9	0		

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Interference to BLANK0000054085 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K41GI-D	D27	LD	CP	IMLAY, NV	BLANK0000054085			
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	199.1 km		
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
	630.6	273	608.7	273	608.7	273	0.16	0.00	
Undesired			Total IX	Unique IX, before		Unique IX, after			
KXNV-LD D27 LD APP	1.0		0			1.0	0		

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Interference to BLANK0000054716 CP scenario 1

**\*\*IX: 31.95% interference caused** **Does not exceed existing interference, see text**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K51DJ-D	D27	LD	CP	VERDI/MOGUL, NV	BLANK0000054716			
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	29.7 km		
	KREN-TV	D26	DT	LIC	RENO, NV	BLCDT20090227AAM	29.7		
	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	103.0		
	K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	19.3		
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
	2346.6	329,280	1672.7	200,891	1605.4	168,823	8.14	<b>31.95</b>	
Undesired			Total IX	Unique IX, before		Unique IX, after			
KXNV-LD D27 LD APP	192.0		85,230			130.7	53,942		
KREN-TV D26 DT LIC	63.3		31,292	55.4	22,330	2.0	4		
K40MV-D D27 LD LIC	3.0		0	3.0	0	3.0	0		
K28QI-D D28 LD CP	8.9		9,738	1.0	776	1.0	776		

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Interference to BLANK0000071521 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K28NP-D	D28	LD	CP	RENO, NV	BLANK0000071521			
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	29.9 km		
	K51DJ-D	D27	LD	CP	VERDI/MOGUL, NV	BLANK0000054716	0.7		
	KMPH-TV	D28	DT	LIC	VISALIA, CA	BLCDT20030204AGN	336.8		
	KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	163.5		
	K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	20.0		
	K28PX-D	D28	LD	LIC	STEAD, NV	BLANK0000067486	2.0		

**Table 1 KXNV-LD TVStudy Analysis of Proposal**  
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Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3373.7 445,495	2469.0 381,627	2348.8 375,305	2347.8 375,305	0.04 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KXNV-LD D27 LD APP	4.0 0		1.0 0	
K51DJ-D D27 LD CP	4.0 12	0.0 0	0.0 0	
K28QI-D D28 LD CP	56.4 5,416	55.4 5,022	55.4 5,022	
K28PX-D D28 LD LIC	64.8 1,300	59.9 894	56.9 894	

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Interference to BNPDTL20090825BON CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	
Undesireds: KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	33.6 km
KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	180.5
K28NP-D	D28	LD	CP	RENO, NV	BLANK0000071521	20.0
K28PX-D	D28	LD	LIC	STEAD, NV	BLANK0000067486	18.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1034.5 374,533	904.9 347,440	901.9 345,564	900.9 345,564	0.11 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KXNV-LD D27 LD APP	1.0 0		1.0 0	
K28NP-D D28 LD CP	1.0 553	1.0 553	1.0 553	
K28PX-D D28 LD LIC	2.0 1,323	2.0 1,323	2.0 1,323	

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Interference to BLANK0000067486 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K28PX-D	D28	LD	LIC	STEAD, NV	BLANK0000067486	
Undesireds: KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	30.9 km
K51DJ-D	D27	LD	CP	VERDI/MOGUL, NV	BLANK0000054716	1.7
KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	165.6
K28NP-D	D28	LD	CP	RENO, NV	BLANK0000071521	2.0
K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	18.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3013.2 144,210	2372.1 100,617	2208.4 96,410	2204.4 96,410	0.18 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KXNV-LD D27 LD APP	6.0 0		4.0 0	
K51DJ-D D27 LD CP	77.2 628	4.9 601	4.9 601	
K28NP-D D28 LD CP	135.9 35	63.6 8	63.6 8	
K28QI-D D28 LD CP	55.5 3,585	21.9 3,571	21.9 3,571	

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Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	
Undesireds: KREN-TV	D26	DT	LIC	RENO, NV	BLCDDT20090227AAM	0.1 km
KPJK	D27	DT	LIC	SAN MATEO, CA	BLANK0000108410	282.6
K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	132.3
K51DJ-D	D27	LD	CP	VERDI/MOGUL, NV	BLANK0000054716	29.7
KKPM-CD	D28+	DC	APP	YUBA CITY, CA	BLANK0000113364	153.1
K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	33.6

Service area	Terrain-limited	IX-free	Percent IX
17462.6 645,104	12884.4 516,476	12829.7 509,284	0.42 1.39
Undesired	Total IX	Unique IX	Prcnt Unique IX
KREN-TV D26 DT LIC	36.8 2,576	36.8 2,576	0.29 0.50
KPJK D27 DT LIC	2.0 0	2.0 0	0.02 0.00
K40MV-D D27 LD LIC	1.0 0	1.0 0	0.01 0.00
K51DJ-D D27 LD CP	13.9 3,844	13.9 3,844	0.11 0.74
K28QI-D D28 LD CP	1.0 772	1.0 772	0.01 0.15

**Table 2 Interference Study Details Regarding K270D-D**



**Existing Condition  
Authorized KXNV-LD Interference to K270D-D (K51DJ-D) CP: 31.95 percent**

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

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Interference to BLANK0000054716 CP scenario 1

**\*\*IX: 31.95% interference caused**

Desired:	Call K51DJ-D	Chan D27	Svc LD	Status CP	City, State VERDI/MOGUL, NV	File Number BLANK0000054716	Distance
Undesireds:	KXNV-LD	D27	LD	CP	INCLINE VILLAGE, NV	BMPDPTT20130204AAI	30.0 km
	KREN-TV	D26	DT	LIC	RENO, NV	BLCDT20090227AAM	29.7
	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	103.0
	K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	19.3
	Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX
	2346.6	329,280	1672.7	200,891	1605.4	168,823	1470.8 114,881 8.39 <b>31.95</b>
Undesired			Total IX	Unique IX, before		Unique IX, after	
KXNV-LD D27 LD CP		196.0	84,879	134.6	53,942		
KREN-TV D26 DT LIC		63.3	31,292	2.0	355		
K40MV-D D27 LD LIC		3.0	0	3.0	0		
K28QI-D D28 LD CP		8.9	9,738	1.0	776		

**Proposed Condition  
Proposed KXNV-LD Interference to K270D-D (K51DJ-D) CP: 31.95 percent**

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

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Interference to BLANK0000054716 CP scenario 1

**\*\*IX: 31.95% interference caused**

Desired:	Call K51DJ-D	Chan D27	Svc LD	Status CP	City, State VERDI/MOGUL, NV	File Number BLANK0000054716	Distance
Undesireds:	KXNV-LD	D27	LD	APP	INCLINE VILLAGE, NV	KXNV-LD_Prop	29.7 km
	KREN-TV	D26	DT	LIC	RENO, NV	BLCDT20090227AAM	29.7
	K40MV-D	D27	LD	LIC	SUSANVILLE, ETC, CA	BLANK0000063050	103.0
	K28QI-D	D28	LD	CP	RENO, NV	BNPDTL20090825BON	19.3
	Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX
	2346.6	329,280	1672.7	200,891	1605.4	168,823	1474.7 114,881 8.14 <b>31.95</b>
Undesired			Total IX	Unique IX, before		Unique IX, after	
KXNV-LD D27 LD APP		192.0	85,230	130.7	53,942		
KREN-TV D26 DT LIC		63.3	31,292	2.0	4		
K40MV-D D27 LD LIC		3.0	0	3.0	0		
K28QI-D D28 LD CP		8.9	9,738	1.0	776		

**Channel and Facility Information**

Section	Question	Response
Facility ID	184239	
State	Nevada	
City	INCLINE VILLAGE	
LPT Channel	27	

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
<b>Coordinates (NAD83)</b>	Latitude	39° 18' 48.6" N+
	Longitude	119° 53' 03.6" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	36.6 meters
	Support Structure Height	36.6 meters
	Ground Elevation (AMSL)	2947 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	15.2 meters
	Height of Radiation Center Above Mean Sea Level	2962.2 meters
	Effective Radiated Power	15 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
<b>Antenna Manufacturer and Model</b>	Manufacturer:	Dielectric
	Model	TLP-12A/VP-R
	Rotation	
	Electrical Beam Tilt	1.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
<b>Elevation Radiation Pattern</b>	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	
	Out-of-Channel Emission Mask:	Full Service