

**Special Displacement Window Application**

Amendment to file# 0000054144, to resolve MX group #78 in DA 18-1108<sup>1</sup> via new channel proposal as part of Engineering Settlement. Displacement proposal 0000054144 is amended herein to change to Channel 19.

MX78	0000054144	KCJY-LP	56777	30	TWIN FALLS	ID	CHRISTIAN BROADCASTING OF IDAHO, INC.
MX78	0000054122	K30QH-D	167733	30	BURLEY, ETC.	ID	GRAY TELEVISION LICENSEE, LLC

LPTV or Translator Facility: KCJY-LP Facility ID 56777 Twin Falls, ID  
Licensed Ch. 38 File# BLTT-20120827ADM

Nature of Displacement: Within 600 MHz wireless spectrum

Proposed Facility: Ch. 19 15 kW ERP directional (azimuth pattern in Figure 1)

Modification Compliance: No change in site  
Contour comparison in Figure 2  
TVStudy Analysis report in Table 1

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.6 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 20 percent relative field at downward angles. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

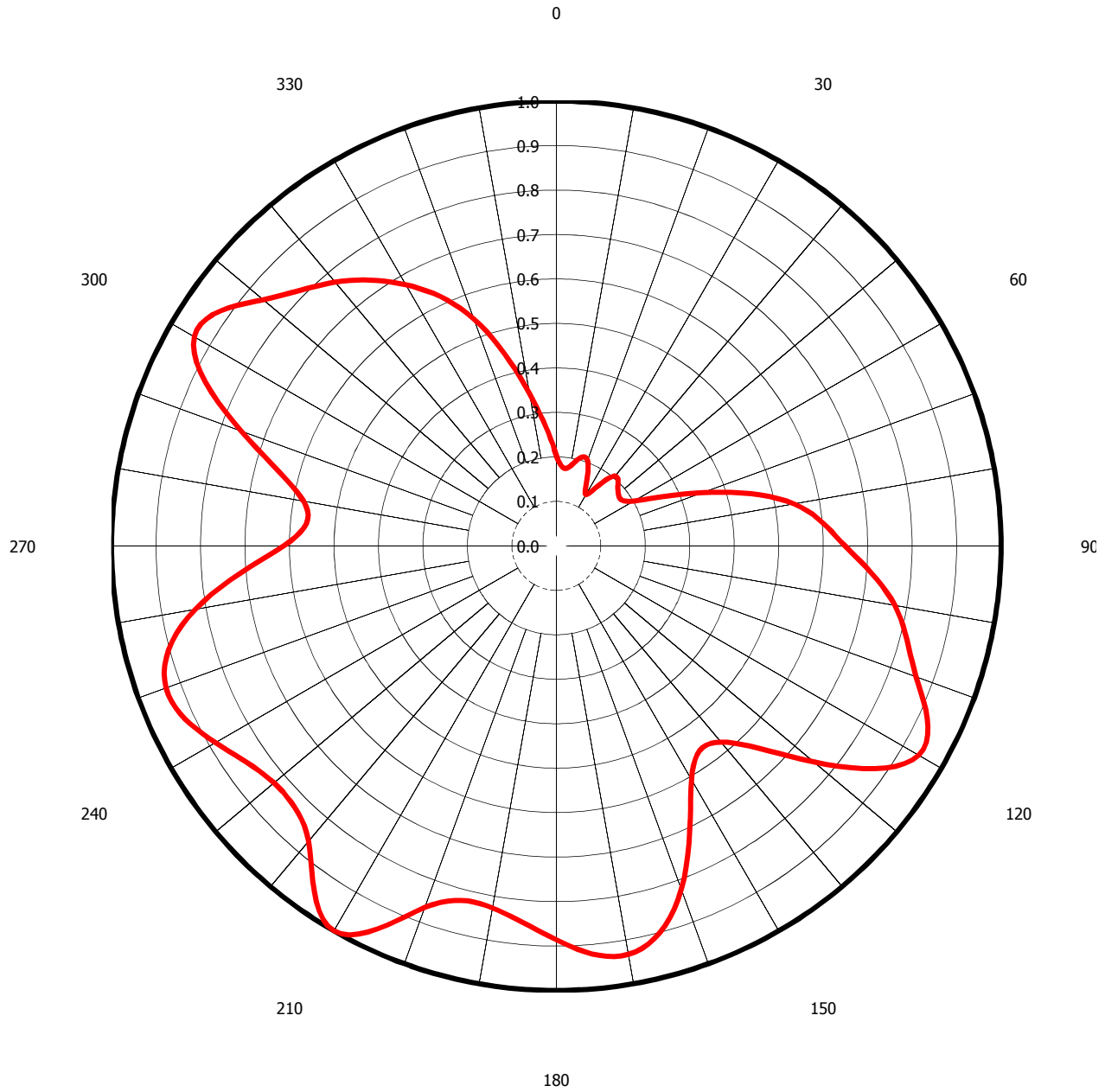
**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E. November 18, 2018  
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

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<sup>1</sup>"Incentive Auction Task Force and Media Bureau Announce Settlement Opportunity for Mutually Exclusive Displacement Applications Filed During the Special Displacement Window," Public Notice, DA 18-1108, released October 30, 2018.

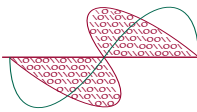
**Azimuth Pattern - Relative Field  
(True North)**



**Figure 1**  
**Antenna Azimuthal Pattern**  
**KCJY-LP Twin Falls, ID**  
**Facility ID 56777**  
**Ch. 19 (digital) 15 kW**

prepared for  
**Christian Broadcasting of Idaho, Inc.**

November, 2018

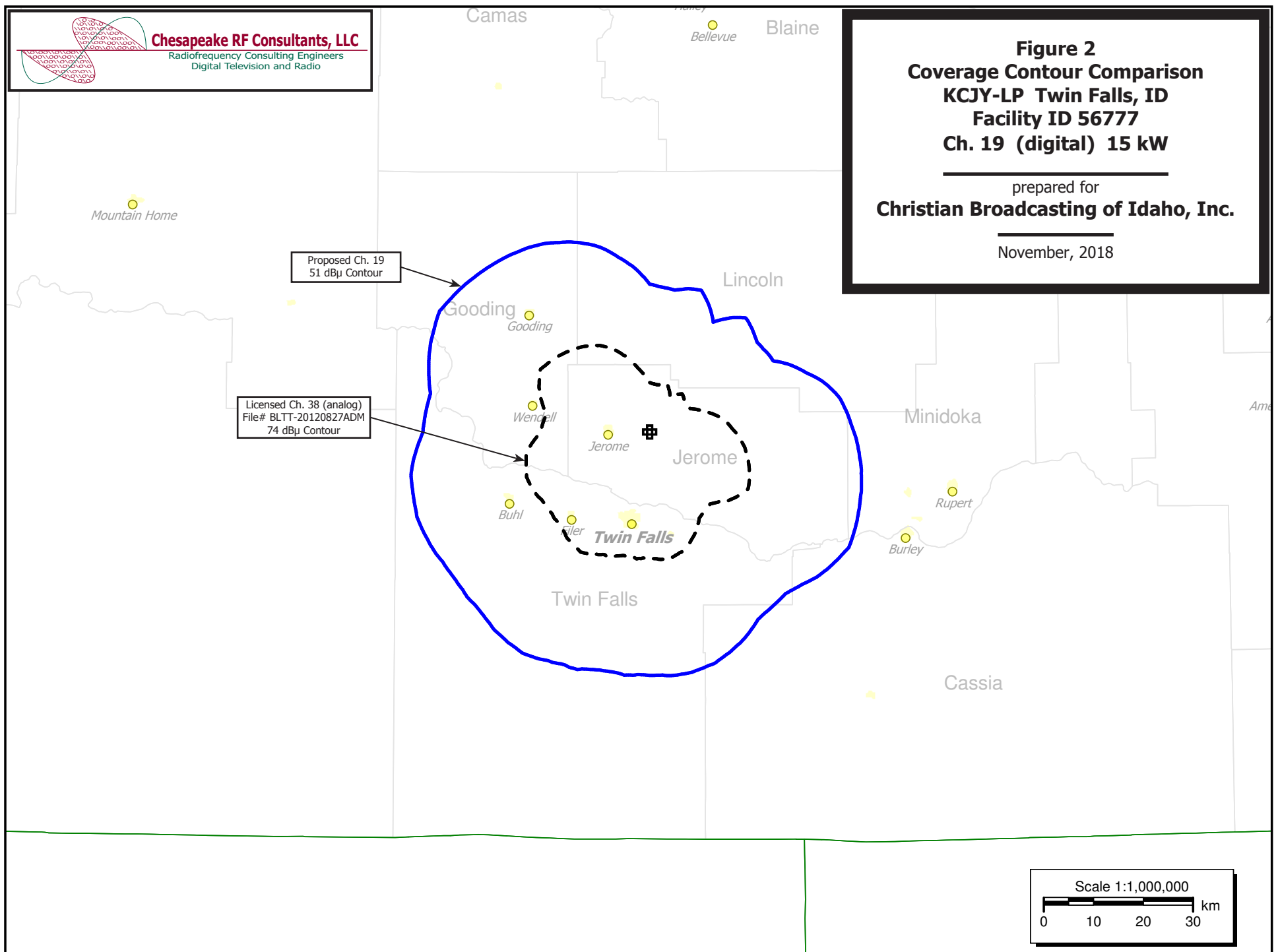


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 2**  
**Coverage Contour Comparison**  
**KCJY-LP Twin Falls, ID**  
**Facility ID 56777**  
**Ch. 19 (digital) 15 kW**

prepared for  
**Christian Broadcasting of Idaho, Inc.**

November, 2018



## Table 2 KCJY-LP TV Study Analysis of Proposal

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tvstudy v2.2.5 (4uoc83)  
 Database: localhost, Study: KCJY-LP Alt-19 Amend, Model: Longley-Rice  
 Start: 2018.11.18 20:02:12

Study created: 2018.11.18 20:02:12

Study build station data: LMS TV 2018-11-12

Proposal: KCJY-LP D19z LD APP TWIN FALLS, ID  
 File number: KCJY-LP Alt-19  
 Facility ID: 56777  
 Station data: User record  
 Record ID: 2395  
 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	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	177.6 km
No	K49IT-D	D18	LD	CP	HAGERMAN, ID	BLANK00000053644	42.7
Yes	KVUT-LD	D18	LD	CP	TWIN FALLS, ID	BLANK00000054653	0.4
No	KBTI-LD	D19	LD	CP	BOISE, ID	BLANK00000053776	179.0
No	NEW	D19	LD	APP	BOISE, ID	BNPDTL20090825BBI	226.4
No	K19GF-D	D19	LD	LIC	MALAD, ID	BLDIT20090610ABW	195.0
No	K19KA-D	D19	LD	CP	MONIDA, ID	BNPDTL20100609AHY	265.8
No	K19DQ-D	D19	LD	LIC	MONTPELIER, ID	BLDIT20111115AGV	251.0
Yes	K42JG-D	D19	LD	CP	MOUNTAIN HOME, ID	BLANK00000054573	121.8
No	NEW	D19	LD	APP	NAMPA, ID	BNPDTL20090825BEW	199.8
No	K19EW-D	D19	LD	LIC	PRESTON, ID	BLDIT20111116AIF	226.8
No	K19CY-D	D19	LD	LIC	ROCKLAND, ID	BLDIT20090624AAS	125.1
No	KWYB	D19	DT	LIC	BUTTE, MT	BLCDT20080424ABB	396.6
No	K19IU-D	D19	LD	LIC	BATTLE MOUNTAIN, NV	BLDIT20110902ACD	301.1
No	K19FZ-D	D19	LD	LIC	ELKO, NV	BLDIT20111219ABE	257.1
No	K19EU-D	D19	LD	CP	WINNEMUCCA, NV	BLANK00000059879	336.7
No	K19EU-D	D19	LD	LIC	WINNEMUCCA, NV	BLDIT20110701ACI	336.8
No	K39IS-D	D19	LD	CP	HUNTSVILLE, ETC., UT	BLANK00000053084	264.4
No	KJZZ-TV	D19	DT	LIC	SALT LAKE CITY, UT	BLANK00000059583	294.4
No	KPDR-LD	D19	LD	LIC	SALT LAKE CITY, UT	BLDIT20101115FZX	299.0
No	K19DU-D	D19	LD	LIC	SUMMIT COUNTY, UT	BLDIT20100201AED	320.3
No	K19FG-D	D19	LD	LIC	JACKSON, WY	BLDIT20100713AJP	308.4
No	K19HJ-D	D19	LD	LIC	PINEDALE, ETC., WY	BLDIT20080305AEZ	359.4
No	KZTN-LD	D20	LD	LIC	BOISE, ID	BLANK0000005170	178.9
No	KZTN-LD	D20	LD	CP	BOISE, ID	BLANK00000031961	177.9
No	K47JK-D	D20	LD	CP	POCATELLO, ID	BLANK00000052033	155.4
Yes	KFTT-LD	D20	LD	LIC	TWIN FALLS, ID	BLDIT20080813AAO	0.3
No	K20JQ-D	D20	LD	LIC	WELLS, NV	BLDIT20090709AOP	176.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19z  
 Mask: Full Service  
 Latitude: 42 43 44.00 N (NAD83)  
 Longitude: 114 24 59.00 W  
 Height AMSL: 1345.0 m  
 HAAT: 0.0 m  
 Peak ERP: 15.0 kW  
 Antenna: KAT-K723147 (ID 107244) 0.0 deg  
 Elev Pattn: Generic

49.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.612 kW	142.0 m	31.9 km
45.0	0.576	138.2	31.3

**Table 2 KCJY-LP TV Study Analysis of Proposal**  
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90.0	6.32	127.7	42.9
135.0	6.22	162.8	45.2
180.0	11.8	203.3	50.8
225.0	10.4	223.7	51.3
270.0	5.64	212.4	47.6
315.0	9.91	177.0	48.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 173 m

Distance to Canadian border: 697.2 km

Distance to Mexican border: 1112.9 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 230.7 degrees Distance: 834.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 107.5 degrees Distance: 814.9 km

No land mobile station failures found

Study cell size: 1.00 km

Profile point spacing: 1.00 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 BLANK0000054653 CP scenario 1

Desired:	Call KVUT-LD	Chan D18	Svc LD	Status CP	City, State TWIN FALLS, ID	File Number BLANK0000054653	Distance			
Undesireds:	KCJY-LP	D19z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-19	0.4 km			
	KYTL-LD	D17	LD	LIC	TWIN FALLS, ID	BLANK0000010618	0.4			
	K49IT-D	D18	LD	CP	HAGERMAN, ID	BLANK0000053644	42.2			
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX			
2868.3	96,150	2844.0		95,909	2308.7	74,668	2288.5	74,521	0.87	0.20
Undesired				Total IX		Unique IX, before		Unique IX, after		
KCJY-LP	D19z	LD	APP		94.8	9,883		20.1	147	
KYTL-LD	D17	LD	LIC		466.4	21,061	425.0	351.4	9,809	
K49IT-D	D18	LD	CP		110.3	1,696	68.9	68.9	180	

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Interference to BLANK0000054573 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K42JG-D	D19	LD	CP	MOUNTAIN HOME, ID	BLANK0000054573			
Undesireds:	KCJY-LP	D19z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-19	121.8 km		
	KBTI-LD	D19	LD	CP	BOISE, ID	BLANK0000053776	68.4		
	NEW	D19	LD	APP	BOISE, ID	BNPDTL20090825BBI	107.9		
	K19EU-D	D19	LD	CP	WINNEMUCCA, NV	BLANK0000059879	291.8		
	KZTN-LD	D20	LD	LIC	BOISE, ID	BLANK000005170	66.6		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
3265.7	25,615	2980.7	24,684	2682.2	24,577	2567.9	24,552	4.26	0.10
Undesired				Total IX	Unique IX, before		Unique IX, after		
KCJY-LP	D19z	LD	APP	134.3	25	114.3	25		
KBTI-LD	D19	LD	CP	298.5	107	269.5	107		
NEW	D19	LD	APP	12.0	0	0.0	0		

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Interference to BLDLTL20080813AAO LIC scenario 1

**Table 2 KCJY-LP TV Study Analysis of Proposal**  
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Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTFT-LD	D20	LD	LIC	TWIN FALLS, ID	BLDTL20080813AAO	
Undesireds:	KCJY-LP	D19z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-19	0.3 km
	KZTN-LD	D20	LD	LIC	BOISE, ID	BLANK0000005170	178.6
	K21ME-D	D21	LD	CP	TWIN FALLS, ID	BNPDTL20100507ACP	0.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8913.7		122,421		8690.2		122,198	0.01
				8682.2		121,989	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KCJY-LP D19z LD APP		6.0		209		1.0	0
K21ME-D D21 LD CP		8.0		209		3.0	0

Interference to proposal scenario 1  
4.50% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCJY-LP	D19z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-19	
Undesireds:	K49IT-D	D18	LD	CP	HAGERMAN, ID	BLANK00000053644	42.7 km
	KVUT-LD	D18	LD	CP	TWIN FALLS, ID	BLANK00000054653	0.4
	K19GF-D	D19	LD	LIC	MALAD, ID	BLDTT20090610ABW	195.0
	K42JG-D	D19	LD	CP	MOUNTAIN HOME, ID	BLANK00000054573	121.8
	K19EU-D	D19	LD	CP	WINNEMUCCA, NV	BLANK00000059879	336.7
	KTFT-LD	D20	LD	LIC	TWIN FALLS, ID	BLDTL20080813AAO	0.3
Service area		Terrain-limited		IX-free		Percent IX	
6316.0		119,032		6255.5		118,138	17.29
				5173.9		112,820	4.50
Undesired		Total IX		Unique IX		Prcnt Unique IX	
K49IT-D D18 LD CP		14.1		573		9.1	0.41
KVUT-LD D18 LD CP		6.1		0		2.0	0.03
K42JG-D D19 LD CP		37.5		2		34.4	0.55
KTFT-LD D20 LD LIC		1036.1		4,833		1025.0	16.39
						4,743	4.01