

**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 16.

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. 16 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 3.7 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.

---

<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.

**Displacement and Technical Information  
Christian Broadcasting of Idaho, Inc.**

(page 2 of 2)



**Amendment Description – January 2019**

In response to the FCC’s 30-day deficiency notification, the amendment changes the proposed channel to Channel 16.

On Channel 19 the FCC’s TVStudy interference analysis currently shows 10.8% interference caused to the unbuilt K19IK-D Construction Permit, BNPDTL-20090825MB.

When the Channel 19 amendment was prepared in November 2018, the K19IK-D CP was not considered into the TVStudy analysis because it was listed as an inactive record in the FCC’s Licensing and Management System (LMS) database. An inactive record is typically one that has been superseded, has expired, or otherwise no longer requires interference protection. Therefore the use of Channel 19 for KCJY-LP showed compliance with the FCC’s interference protection requirements to other stations at the time the last amendment was submitted.

Archival LMS downloads show that the K19IK-D CP was inactive at least prior to April 2017, and was changed to an active record on or about 12/18/2018 which is after 12/11/2018 when the KCJY-LP amendment to Channel 19 was submitted. The amendment to specify Channel 16 should be accepted since it arises from a lapse in the FCC’s LMS database.

---

**From:** Ron Graser <[Ron.Graser@fcc.gov](mailto:Ron.Graser@fcc.gov)>  
**Sent:** Friday, January 18, 2019 7:43 AM  
**To:** [TEPPERLAW@AOL.COM](mailto:TEPPERLAW@AOL.COM)  
**Cc:** [kellyc@csnradio.com](mailto:kellyc@csnradio.com); [Joseph.Davis@RF-consultants.com](mailto:Joseph.Davis@RF-consultants.com); Hossein Hashemzadeh <[Hossein.Hashemzadeh@fcc.gov](mailto:Hossein.Hashemzadeh@fcc.gov)>  
**Subject:** KCJY-LP - Facility 56777 - LMS-0000054144 - Channel 19 - Community of Service: Twin Falls, ID. - Licensee: Christian Broadcasting of Idaho, Inc.

Dear Applicant:

We are currently processing the above captioned application. Our preliminary analysis indicates the following:

The proposal is predicted to cause interference to the following facilities:

1. K19IK-D – Glenn’s Ferry, ID – BNPDTL-20090825BMB at 10.77%

Please amend your application electronically within 30 days from the date of this letter to resolve the above deficiency.

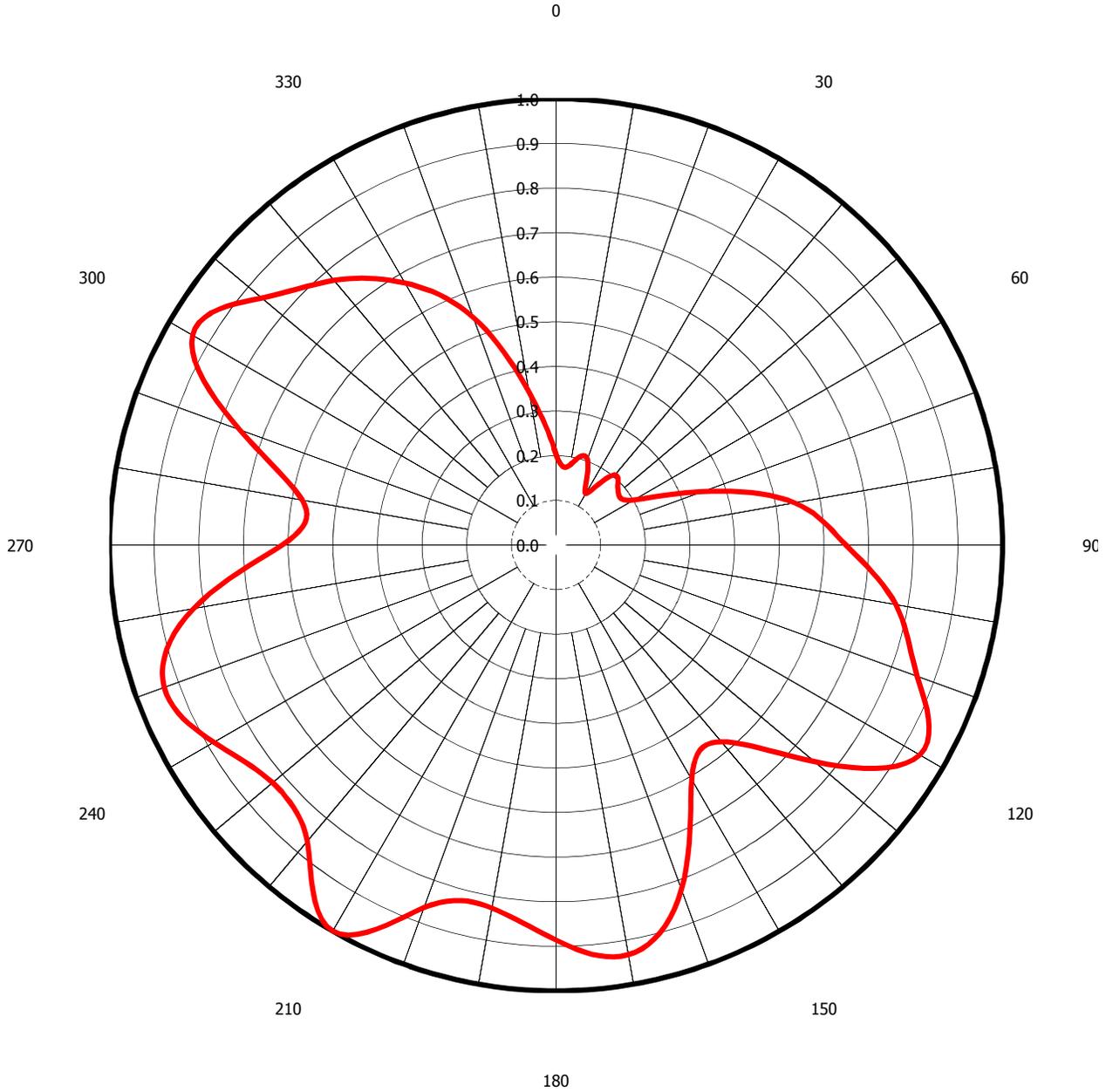
Thanks, Ron Graser  
Media Bureau, Video Division  
January 18, 2019

---

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.                      January 23, 2019  
207 Old Dominion Road                      Yorktown, VA 23692                      703-650-9600

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



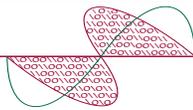
**Figure 1**  
**Antenna Azimuthal Pattern**  
**KCJY-LP Twin Falls, ID**  
**Facility ID 56777**  
**Ch. 16 (digital) 15 kW**

---

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

---

January, 2019

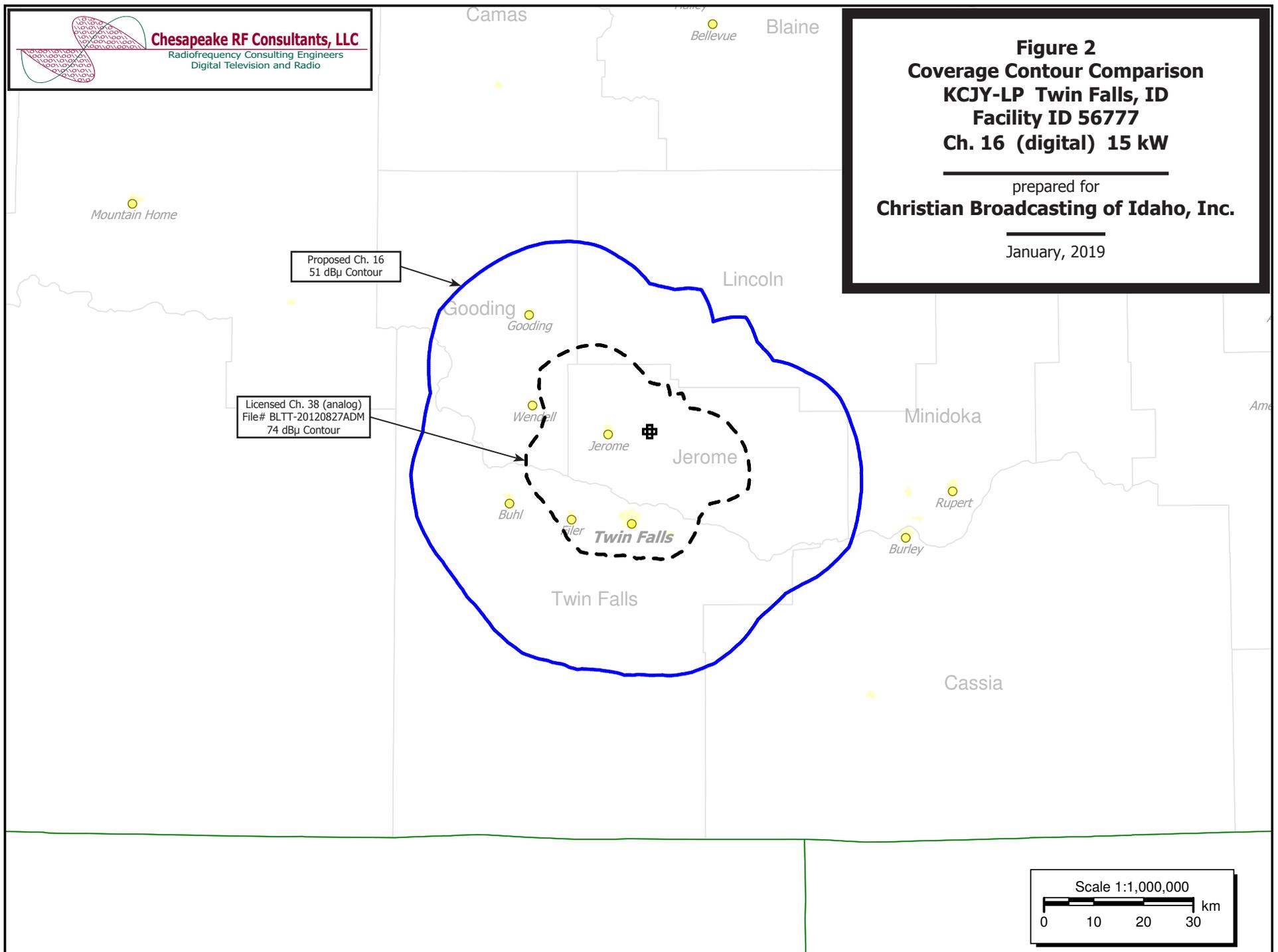


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 2**  
**Coverage Contour Comparison**  
**KCJY-LP Twin Falls, ID**  
**Facility ID 56777**  
**Ch. 16 (digital) 15 kW**

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

January, 2019



**Table 1 KCJY-LP TV Study Analysis of Proposal**  
(page 1 of 3)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KCJY-LP Alt-16 #8605, Model: Longley-Rice  
Start: 2019.01.23 16:05:05

Study created: 2019.01.23 16:05:05

Study build station data: LMS TV 2019-01-21

Proposal: KCJY-LP D16z LD APP TWIN FALLS, ID  
File number: KCJY-LP Alt-16  
Facility ID: 56777  
Station data: User record  
Record ID: 2396  
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	KKJB	D15	DT	LIC	BOISE, ID	BLANK0000063943	179.1 km
No	K15HR-D	D15	LD	LIC	MACKAY, ID	BLANK0000012101	146.2
No	K15HR-D	N15	TX	LIC	MACKAY, ID	BLTT20060908AAH	146.2
Yes	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	155.4
Yes	KPIF	D15	DT	APP	POCATELLO, ID	BLANK00000035740	155.4
No	KSAW-LD	D15	LD	LIC	TWIN FALLS, ID	BLDTL20140325AEJ	0.1
No	KKIC-LD	D16	LD	LIC	BOISE, ID	BLANK0000016312	179.1
No	KKIC-LD	N16-	TX	LIC	BOISE, ID	BLTTL20060419AAE	179.1
No	K16KQ-D	D16	LD	CP	DUBOIS, ID	BNPDTL20100609AHU	237.7
No	K16HQ-D	D16	LD	APP	GEORGETOWN, ID	BLDTT20111115AGU	251.0
Yes	K16JE-D	D16	LD	LIC	GLENNS FERRY, ID	BLDTT20110325AAL	79.5
No	K16KO-D	D16	LD	LIC	LEADORE, ID	BLDTT20120719ADL	231.8
No	K23JA-D	D16	LD	CP	MALAD CITY, ID	BLANK0000054222	195.0
No	K16IX-D	D16	LD	LIC	PRESTON, ID	BLDTT20111005AJB	226.8
No	K16FD-D	D16	LD	LIC	BATTLE MOUNTAIN, NV	BLDTT20110902ACE	301.1
No	K16JZ-D	D16	LD	LIC	MCDERMITT, NV	BLDTL20120524AGS	276.9
No	K16KU-D	D16	LD	CP	ROCKY POINT, NV	BNPDTL20100512AHY	179.0
No	K16FV-D	D16	LD	LIC	RYNDON, NV	BLDTT20111219AAX	219.7
No	KUNP	D16	DT	LIC	LA GRANDE, OR	BLANK0000001679	390.4
No	K43OP-D	D16	LD	CP	LAKETOWN, ETC., UT	BLANK0000029365	275.2
No	KULU-LD	D16	LD	LIC	PARK CITY, UT	BLDTL20120618AAV	320.2
No	K43JV	D16-	LD	CP	PROVO, UT	BLANK0000049057	342.8
No	K17HM-D	D16	LD	CP	WENDOVER, UT	BLANK00000053447	223.2
No	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	328.3
No	K16HW-D	D16	LD	LIC	EVANSTON, ETC., WY	BLDTT20090608AAV	328.3
No	K16CS	N16	TX	LIC	PINEDALE, ETC., WY	BLTT19931112IK	359.4
No	K16LM-D	D16	LD	LIC	TETON VILLAGE, WY	BLANK00000064168	303.3
No	KAID	D17	LD	LIC	BOISE, ID	BLEDT20120719ABF	170.6
No	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	166.2
Yes	KYTL-LD	D17	LD	LIC	TWIN FALLS, ID	BLANK0000010618	0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16z  
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

48.9 dBu contour:  
Azimuth ERP HAAT Distance

**Table 1 KCJY-LP TV Study Analysis of Proposal**  
 (page 2 of 3)



0.0 deg	0.612 kW	142.0 m	32.2 km
45.0	0.576	138.2	31.7
90.0	6.32	127.7	43.2
135.0	6.22	162.8	45.5
180.0	11.8	203.3	51.1
225.0	10.4	223.7	51.7
270.0	5.64	212.4	47.9
315.0	9.91	177.0	48.8

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

Proposal is not within the Offshore Radio Service protected area

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%

-----  
 Interference to BLANK0000001051 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	
Undesireds:	KCJY-LP	D16z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-16	155.4 km
	KUED	D15	DT	BL	SALT LAKE CITY, UT	DTVBL69396	246.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	21261.9	256,271	17283.4	251,054	17189.5	250,828	17187.4 250,736 0.01 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCJY-LP	D16z	LD	APP	2.0	92	2.0	92
KUED	D15	DT	BL	93.9	226	93.9	226

-----  
 Interference to BLANK0000035740 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPIF	D15	DT	APP	POCATELLO, ID	BLANK0000035740	
Undesireds:	KCJY-LP	D16z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-16	155.4 km
	KUED	D15	DT	BL	SALT LAKE CITY, UT	DTVBL69396	246.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	25271.1	264,771	20669.1	257,860	20528.8	257,758	20526.7 257,666 0.01 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCJY-LP	D16z	LD	APP	2.0	92	2.0	92
KUED	D15	DT	BL	140.4	102	140.4	102

-----  
 Interference to BLDTT20110325AAL LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K16JE-D	D16	LD	LIC	GLENN'S FERRY, ID	BLDTT20110325AAL	

**Table 1 KCJY-LP TVStudy Analysis of Proposal**  
(page 3 of 3)



Undesireds:	KCJY-LP	D16z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-16	79.5 km			
	KKIC-LD	D16	LD	LIC	BOISE, ID	BLANK0000016312	110.4			
	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
	650.0	2,488	557.6	1,943	557.6	1,943	463.2	1,909	16.93	1.75
Undesired				Total IX	Unique IX, before		Unique IX, after			
KCJY-LP	D16z	LD	APP	94.4	34	94.4		34		

-----  
Interference to BLANK0000010618 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance			
	KYTL-LD	D17	LD	LIC	TWIN FALLS, ID	BLANK0000010618				
Undesireds:	KCJY-LP	D16z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-16	0.0 km			
	K17ED-D	D17	DC	LIC	PAYETTE, ID	BLDTA20141002AAE	249.8			
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	166.2			
	K17DT-D	D17	LD	CP	ELKO, NV	BPDTT20120514AEV	238.0			
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	294.4			
	K49IT-D	D18	LD	CP	HAGERMAN, ID	BLANK0000053644	42.7			
	KVUT-LD	D18	LD	CP	TWIN FALLS, ID	BLANK0000054653	0.4			
	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
	4768.7	110,071	4699.1	107,714	4602.0	107,243	4583.9	107,137	0.39	0.10
Undesired				Total IX	Unique IX, before		Unique IX, after			
KCJY-LP	D16z	LD	APP	18.1	106	18.1		106		
KISU-TV	D17	DD	LIC	81.0	325	79.9	320	79.9	320	
K49IT-D	D18	LD	CP	11.1	151	10.1	146	10.1	146	
KVUT-LD	D18	LD	CP	6.1	0	6.1	0	6.1	0	

-----  
Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance			
	KCJY-LP	D16z	LD	APP	TWIN FALLS, ID	KCJY-LP Alt-16				
Undesireds:	KSAW-LD	D15	LD	LIC	TWIN FALLS, ID	BLDTL20140325AEJ	0.1 km			
	KKIC-LD	D16	LD	LIC	BOISE, ID	BLANK0000016312	179.1			
	K16JE-D	D16	LD	LIC	GLENNS FERRY, ID	BLDTT20110325AAL	79.5			
	K17HM-D	D16	LD	CP	WENDOVER, UT	BLANK0000053447	223.2			
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	328.3			
	Service area	Terrain-limited		IX-free		Percent IX				
	6422.5	119,228	6361.0	118,385	6354.0	118,377	0.11	0.01		
Undesired				Total IX	Unique IX		Prcnt Unique IX			
KSAW-LD	D15	LD	LIC	1.0	0	1.0	0	0.02	0.00	
K16JE-D	D16	LD	LIC	6.0	8	6.0	8	0.09	0.01	