

Second Filing Window Expanded Facility Application

In connection with the Broadcast Television Incentive Auction (Auction 1000) the Commission initiated a transition period during which the facilities of broadcast television stations that received new channel assignments in the post-incentive auction repacking process will be reauthorized and relicensed. The first filing window closed on September 15, 2017. This application is filed in accordance with the second filing window, which will close on November 2, 2017.

During the second filing window, any reassigned station or band changing station may file an amendment to its initial construction permit application, if still pending, or a modification to its construction permit, if granted, to seek an alternate channel or expanded facilities from that specified in the *Closing and Channel Reassignment Public Notice*.¹ The instant proposal, a minor change under the Commission's rules, expands the assigned technical facility beyond that applied for in the first filing window.

Post-Transition DTV Considerations

A study was performed using the FCC's software program, *tvstudy*, v.2.2.3, to ensure that the technical facility proposed herein protects the facilities proposed in the first priority filing window, whether those stations' applications have been granted or remain pending while protecting the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day filing window, whether those

¹ See *Incentive Auction Closing and Channel Reassignment Public Notice: The Broadcast Television Incentive Auction Closes; Reverse Auction and Forward Auction Results Announced; Final Television Band Channel Assignments Announced; Post-Auction Deadlines Announced*, Public Notice, 32 FCC Rcd 2786 (2017) (*Closing and Channel Reassignment Public Notice*).

stations' applications have been granted or remain pending. Further, the instant proposal protects the facilities specified in applications filed before the April 2013 freeze with "cut-off" protection.

As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any of the relevant protections discussed above. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.



tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: KGO_12_C160_47K_R289_E, Model: Longley-Rice
Start: 2017.09.27 14:50:46

Study created: 2017.09.27 14:50:34

Study build station data: LMS TV 2017-09-26 (37)

Proposal: KGO-TV D12 DT APP SAN FRANCISCO, CA
File number: KGO_12_C160_47K_R289_E
Facility ID: 34470
Station data: User record
Record ID: 1562
Country: U.S.
Zone: II

Search options:
Non-U.S. records included
Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	139.3 km
KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000027998	282.7
KNTV	D13	DT	CP	SAN JOSE, CA	BLANK0000026912	8.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D12
Latitude: 37 45 19.00 N (NAD83)
Longitude: 122 27 10.00 W
Height AMSL: 544.9 m
HAAT: 520.5 m
Peak ERP: 47.0 kW
Antenna: THV-6A12/CP-R 4C160 289 degs 0.0 deg
Elev Patrn: Generic
Elec Tilt: 1.5

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	42.0 kW	518.7 m	120.7 km
45.0	43.0	538.0	122.1
90.0	45.8	538.7	122.8
135.0	20.1	527.7	114.3
180.0	8.17	427.4	99.8
225.0	8.45	537.9	107.8
270.0	24.8	538.8	116.8
315.0	46.6	537.3	122.9

Database HAAT does not agree with computed HAAT
Database HAAT: 520 m Computed HAAT: 521 m

ERP exceeds maximum
ERP: 47.0 kW ERP maximum: 46.9 kW

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1167.0 km

Distance to Mexican border: 731.2 km

**Proposal is within coordination distance of FCC monitoring station
Conditions at FCC monitoring station: Livermore CA
Bearing: 92.9 degrees Distance: 61.5 km
ERP: 44.8 kW HAAT: 539.4 m Field strength: 67.9 dBu, 2.5 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 74.6 degrees Distance: 1507.5 km

Study cell size: 2.00 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 BLANK0000028196 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	
Undesireds:	KGO-TV	D12	DT	BL	SAN FRANCISCO, CA	DTVBL34470	139.3 km
	KGO-TV	D12	DT	APP	SAN FRANCISCO, CA	KGO_12_C160_47K_R289_E	139.3
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDDT20120201AAM	164.9
	KNSO	D11	DT	LIC	MERCED, CA	BLCDDT20100202ABE	187.4
	KTVN	D11	DT	CP	RENO, NV	BLANK0000025333	317.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32366.1	3,094,778	24596.2	2,327,400	22838.8
		1,319,880	22890.8	1,352,275
				-0.23 -2.45

Undesired	Total IX	Unique IX, before	Unique IX, after
KGO-TV D12 DT BL	813.6	1,004,575	658.0
KGO-TV D12 DT APP	757.6	972,180	606.0
KXTV D10 DT LIC	4.0	0	0.0
KNSO D11 DT LIC	1091.4	85,889	867.9
KTVN D11 DT CP	87.9	8,956	8.0
			0
			0
			2,467
			871.9
			2,467
			8.0
			0

 Interference to BLANK0000027998 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000027998	
Undesireds:	KGO-TV	D12	DT	BL	SAN FRANCISCO, CA	DTVBL34470	282.7 km
	KGO-TV	D12	DT	APP	SAN FRANCISCO, CA	KGO_12_C160_47K_R289_E	282.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47955.1	960,063	39248.3	798,299	38783.3
				790,138
				38755.3
				790,138
				0.07 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGO-TV D12 DT BL	465.0	8,161	465.0
KGO-TV D12 DT APP	493.0	8,161	493.0
			8,161

 Interference to BLANK0000026912 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNTV	D13	DT	CP	SAN JOSE, CA	BLANK0000026912	
Undesireds:	KGO-TV	D12	DT	BL	SAN FRANCISCO, CA	DTVBL34470	7.9 km
	KGO-TV	D12	DT	APP	SAN FRANCISCO, CA	KGO_12_C160_47K_R289_E	8.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
42718.9	8,046,679	37821.5	7,187,575	37793.7
				7,187,539
				37793.8
				7,186,601
				-0.00 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
KGO-TV D12 DT BL	27.9	36	27.9
KGO-TV D12 DT APP	27.8	974	27.8
			974

 Interference to proposal, scenario 1
 8.82% interference

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	KGO-TV	D12	DT	APP	SAN FRANCISCO, CA	KGO_12_C160_47K_R289_E	
Undesireds:	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	139.3 km
	KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000027998	282.7
	KNTV	D13	DT	CP	SAN JOSE, CA	BLANK0000026912	8.0

	Service area		Terrain-limited		IX-free		Percent IX
42425.1	8,637,074	37150.0	7,929,294	34098.4	7,229,704	8.21	8.82

Undesired			Total IX		Unique IX	Prcnt	Unique IX
KCBA D11 DT CP		116.3	1,806	112.3	1,806	0.30	0.02
KRNV-DT D12 DT CP		2800.1	659,590	2800.1	659,590	7.54	8.32
KNTV D13 DT CP		139.3	38,194	135.3	38,194	0.36	0.48