

Minor Change Expanded Technical Facility Application

This application is filed in response to the Media Bureau temporarily lifting the freeze imposed on April 5, 2013 on the filing and processing of minor modification applications that would increase a full power television station's noise-limited contour or a Class A station's protected contour in one or more directions beyond the station's authorized facilities.¹ The instant proposal, a minor change under the Commission's rules, expands the present technical facility of a television station that was not assigned a new channel in connection with the incentive auction repack process.

Post-Transition DTV Allocation 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 and second 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 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

¹ See *Media Bureau Temporarily Lifts the Freeze On The Filing Of Minor Modification Applications That Expand The Contour Of Full Power And Class A Television Stations*, Public Notice, DA 17-1086, Released November 6, 2017.

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 is within 320 kilometers of the common border between the United States of America and Mexico. As demonstrated in the attached study, the maximized technical facility proposed herein satisfies DTV interference criteria with respect to all relevant Mexican allotments, applications and assignments. International notification and coordination of the instant proposal is respectfully requested.

tvstudy v2.2.3 (DAezul)
Database: localhost, Study: KABC 7 DA 50kW 171109, Model: Longley-Rice
Start: 2017.11.09 21:19:12

Study created: 2017.11.09 21:18:55

Study build station data: LMS TV 2017-11-08 (16)

Proposal: KABC-TV D7 DT APP LOS ANGELES, CA
File number: KABC 7 DA 50kW 171109
Facility ID: 282
Station data: User record
Record ID: 59
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
KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	339.5 km
KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	339.4
KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLCDT20041202ACC	334.8
KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	171.9
LICITACIOND7	DT	LIC		ENSENADA, BN	BLANKBPFXXXX0002XXX	296.4
LICITACIOND7	DT	LIC		MEXICALI, BN	BLANKBPFXXXX0003XXX	297.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7
Latitude: 34 13 37.00 N (NAD83)
Longitude: 118 4 1.00 W
Height AMSL: 1876.5 m
HAAT: 978.0 m
Peak ERP: 50.0 kW
Antenna: HAR-TAV-6H CPV (ID 101157) 0.0 deg
Elev Pattn: Generic
Tilts: elec 2.00, mech 1.00 @ 206.0 deg

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	49.0 kW	431.9 m	116.4 km
45.0	49.5	435.3	116.9
90.0	48.0	730.8	133.6
135.0	41.9	1450.7	147.6
180.0	38.7	1571.2	147.9
225.0	38.3	1526.6	147.4
270.0	41.4	1054.8	139.8
315.0	47.5	677.3	131.8

Database HAAT does not agree with computed HAAT
Database HAAT: 978 m Computed HAAT: 985 m

ERP exceeds maximum
ERP: 50.0 kW ERP maximum: 13.2 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: 1620.3 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 190.4 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 320.6 degrees Distance: 511.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 56.2 degrees Distance: 1308.3 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 BLCDT20021002ABH LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	339.5 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	339.5
	KRON-TV	D7	DT	CP	SAN FRANCISCO, CA	BLANK0000029842	277.2
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37087.3	1,967,744	35035.5	1,948,341	34369.0	1,941,868	34353.1 1,941,856	0.05 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL		8.0		16	8.0 16		
KABC-TV D7 DT APP		23.9		28	23.9 28		
KRON-TV D7 DT CP		658.5		6,457	658.5 6,457	658.5 6,457	

Interference to BPCDT20100401ABQ CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	339.4 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	339.4
	KRON-TV	D7	DT	CP	SAN FRANCISCO, CA	BLANK0000029842	277.3
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
41813.7	1,985,983	38760.5	1,942,619	38097.8	1,937,584	38081.8 1,937,473	0.04 0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL		8.0		2,268	8.0 2,268		
KABC-TV D7 DT APP		24.0		2,379	24.0 2,379		
KRON-TV D7 DT CP		654.7		2,767	654.7 2,767	654.7 2,767	

Interference to BLCDT20041202ACC LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLCDT20041202ACC	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	334.8 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	334.8
	KAZT-TV	D7	DT	LIC	PRESCOTT, AZ	BLCDT20090612AEO	300.0
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	411.5
	LICITACION D7	DT	LIC	MEXICALI, BN	BLANKBPFXXXXX0003XXX		383.5
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
46960.9	2,094,297	34209.7	1,940,030	34057.3	1,940,023	34057.3 1,940,023	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL		4.1		0	4.1 0		
KABC-TV D7 DT APP		8.0		0	4.1 0		
KAZT-TV D7 DT LIC		136.5		7	120.7 4	120.7 4	
LICITACION D7 DT LIC		27.7		3	11.9 0	11.9 0	

Interference to BLCDT20100520ACV LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	171.9 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	171.9
	KCAL-TV	D9	DT	LIC	LOS ANGELES, CA	BLCDT20090612AIY	172.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20890.8	3,947,735	19110.3	3,699,981	19070.2	3,643,995	19062.1 3,632,627	0.04 0.31
7673.6	1,743,288	7036.5	1,686,187	7036.5	1,686,187	7036.5 1,686,187	0.00 0.00
(in Mexico)							
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL				40.1	55,986	4.0 4	
KABC-TV D7 DT APP				48.2	67,354	12.1 11,372	
KCAL-TV D9 DT LIC				36.1	55,982	0.0 0	

Interference to BLANKBPFSXXXX0002XXX LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	LICITACIOND7	D7	DT	LIC	ENSENADA, BN	BLANKBPFSXXXX0002XXX	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	296.4 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	296.4
	KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	124.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13084.9	367,757	10352.2	355,772	10117.8	355,770	10044.9 355,770	0.72 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL				230.4	2	230.4 2	
KABC-TV D7 DT APP				303.3	2	303.3 2	
KFMB-TV D8 DT LIC				4.0	0	4.0 0	

Interference to BLANKBPFSXXXX0003XXX LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	LICITACIOND7	D7	DT	LIC	MEXICALI, BN	BLANKBPFSXXXX0003XXX	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	297.1 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	297.1
	LICITACIOND7	D7	DT	LIC	ENSENADA, BN	BLANKBPFSXXXX0002XXX	120.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
10447.7	307,814	9510.7	305,782	9482.7	305,620	9482.7 305,620	0.00 0.00
(in U.S.)							
12902.7	1,106,928	11694.9	1,105,677	11670.7	1,105,665	11670.7 1,105,665	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL				20.0	162	20.0 162	(in U.S.)
KABC-TV D7 DT APP				20.0	162	20.0 162	(in U.S.)
KABC-TV D7 DT BL				16.1	0	16.1 0	
KABC-TV D7 DT APP				16.1	0	16.1 0	
LICITACION D7 DT LIC				8.0	0	8.0 0	(in U.S.)
LICITACION D7 DT LIC				8.1	12	8.1 12	

Interference to proposal, scenario 1
0.51% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	339.5 km
	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLCDT20041202ACC	334.8
	KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	171.9

LICITACIOND7	DT	LIC	ENSENADA, BN	BLANKBPFSXXXX0002XXX	296.4
LICITACIOND7	DT	LIC	MEXICALI, BN	BLANKBPFSXXXX0003XXX	297.1

Service area		Terrain-limited		IX-free		Percent IX
58104.7 17,972,821		51640.7 17,663,261		50868.3 17,573,534		1.50 0.51

Undesired		Total IX		Unique IX		Prcnt Unique IX
KAIL D7 DT LIC	166.9	574	155.0	574		0.30 0.00
KLAS-TV D7 DT LIC	330.1	15,270	278.4	15,200		0.54 0.09
KFMB-TV D8 DT LIC	207.5	67,664	195.5	65,518		0.38 0.37
LICITACION D7 DT LIC	4.0	159	0.0	0		0.00 0.00
LICITACION D7 DT LIC	131.6	8,435	75.8	6,060		0.15 0.03

Interference to proposal, scenario 2
0.51% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC 7 DA 50kW 171109	
Undesireds:	KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	339.4 km
	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLCDT20041202ACC	334.8
	KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	171.9
	LICITACIOND7	DT	LIC		ENSENADA, BN	BLANKBPFSXXXX0002XXX	296.4
	LICITACIOND7	DT	LIC		MEXICALI, BN	BLANKBPFSXXXX0003XXX	297.1

Service area		Terrain-limited		IX-free		Percent IX
58104.7 17,972,821		51640.7 17,663,261		50880.3 17,573,941		1.47 0.51

Undesired		Total IX		Unique IX		Prcnt Unique IX
KAIL D7 DT CP	154.9	167	143.0	167		0.28 0.00
KLAS-TV D7 DT LIC	330.1	15,270	278.4	15,200		0.54 0.09
KFMB-TV D8 DT LIC	207.5	67,664	195.5	65,518		0.38 0.37
LICITACION D7 DT LIC	4.0	159	0.0	0		0.00 0.00
LICITACION D7 DT LIC	131.6	8,435	75.8	6,060		0.15 0.03