

DTV Allocation Considerations

A study was performed using the FCC's software program, *tvstudy*, v.2.2.5, to ensure that the technical facility proposed herein does not cause interference to other stations above the allowable *de minimis* limits. 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 relevant protections. 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 technical facility proposed herein satisfies DTV interference criteria with respect to all relevant Mexican allotments, applications and assignments.

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KABC TV 7 THV-8A7_VP-R 04, Model: Longley-Rice
Start: 2022.03.09 15:23:24

Study created: 2022.03.09 15:23:24

Study build station data: LMS TV 2022-03-09

Proposal: KABC-TV D7 DT APP LOS ANGELES, CA
File number: KABC TV 7 THV-8A7/VP-R 04
Facility ID: 282
Station data: User record
Record ID: 620
Country: U.S.
Zone: II

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

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	339.4 km
No	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLANK0000112828	334.8
Yes	KFMB-TV	D8	DT	CP	SAN DIEGO, CA	BLANK0000035772	171.9
Yes	KFMB-TV	D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	171.9
Yes	LICITACIOND7		DT	LIC	ENSENADA, BN	BLANKBPFSXXXX0002XXX	296.4
Yes	LICITACIOND7		DT	LIC	MEXICALI, BN	BLANKBPFSXXXX0003XXX	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: 1877.0 m
HAAT: 978.0 m
Peak ERP: 50.0 kW
Antenna: THV-8A7/VP-R 04 (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	432.4 m	116.5 km
45.0	49.5	435.8	116.9
90.0	48.0	731.3	133.6
135.0	41.9	1451.2	147.6
180.0	38.7	1571.7	147.9
225.0	38.3	1527.1	147.4
270.0	41.4	1055.3	139.8
315.0	47.5	677.8	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

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 BLANK0000035772 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFMB-TV	D8	DT	CP	SAN DIEGO, CA	BLANK0000035772	
Undesireds:	KABC-TV	D7	DT	BL	LOS ANGELES, CA	DTVBL282	171.9 km
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC TV 7 THV-8A7/VP-R	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
25971.0	4,606,716	23484.3	4,184,636	23351.6	4,035,669	23271.3 4,022,628	0.34 0.32
10369.5	1,757,329	9554.7	1,721,959	9554.7	1,721,959	9554.7 1,721,959	0.00 0.00
(in Mexico)							

Undesired	Total IX	Unique IX, before	Unique IX, after
KABC-TV D7 DT BL	124.7 147,193	8.0 3,671	
KABC-TV D7 DT APP	209.0 160,263		88.3 16,712
KCAL-TV D9 DT LIC	124.7 145,296	8.0 1,774	4.0 1,745

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 TV 7 THV-8A7/VP-R	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	0.0 0

Interference to BLANKBPFSXXXX0002XXX LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	LICITACIOND7	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 TV 7 THV-8A7/VP-R	296.4
	KFMB-TV	D8	DT	CP	SAN DIEGO, CA	BLANK0000035772	124.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13084.9	367,757	10352.2	355,772	10121.9	355,770	10049.0 355,770	0.72 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after		
KABC-TV D7 DT BL	226.3 2		218.3 2				

KABC-TV D7 DT APP	299.2	2		291.2	2
KFMB-TV D8 DT CP	12.1	0	4.0	4.0	0

Interference to BLANKBPFSXXXX0002XXX LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	LICITACIOND7	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 TV 7 THV-8A7/VP-R	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		10049.0 355,770	0.72 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL				226.3	2	226.3	2
KABC-TV D7 DT APP				299.2	2	299.2	2
KFMB-TV D8 DT LIC				4.0	0	4.0	0

Interference to BLANKBPFSXXXX0003XXX LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	LICITACIOND7	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 TV 7 THV-8A7/VP-R	297.1
	KFMB-TV	D8	DT	CP	SAN DIEGO, CA	BLANK0000035772	158.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
10447.7		307,814		9510.7 305,782		9502.7 305,625	0.04 0.00
(in U.S.)							
12902.7		1,106,928		11694.9 1,105,677		11678.8 1,105,677	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KABC-TV D7 DT BL				4.0	157	4.0	157 (in U.S.)
KABC-TV D7 DT APP				8.0	157	8.0	157 (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

Interference to proposal scenario 1
0.88% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC TV 7 THV-8A7/VP-R	
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	339.4 km
	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLANK0000112828	334.8
	KFMB-TV	D8	DT	CP	SAN DIEGO, CA	BLANK0000035772	171.9
	LICITACIOND7	DT	LIC		MEXICALI, BN	BLANKBPFSXXXX0003XXX	297.1
Service area		Terrain-limited		IX-free		Percent IX	
58136.5		17,973,037		51664.6 17,663,314		50804.3 17,508,720	1.67 0.88
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KAIL D7 DT LIC				154.9	845	151.0	845 0.29 0.00
KLAS-TV D7 DT LIC				286.4	9,009	266.5	8,965 0.52 0.05
KFMB-TV D8 DT CP				355.2	144,523	343.3	142,377 0.66 0.81
LICITACION D7 DT LIC				95.7	2,407	67.8	217 0.13 0.00

Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KABC-TV	D7	DT	APP	LOS ANGELES, CA	KABC TV 7 THV-8A7/VP-R	
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLANK0000146860	339.4 km
	KLAS-TV	D7	DT	LIC	LAS VEGAS, NV	BLANK0000112828	334.8

KFMB-TV D8	DT	LIC	SAN DIEGO, CA	BLCDT20100520ACV	171.9
LICITACIOND7	DT	LIC	MEXICALI, BN	BLANKBPFSXXX0003XXX	297.1

Service area		Terrain-limited		IX-free		Percent IX
58136.5	17,973,037	51664.6	17,663,314	50952.0	17,585,579	1.38 0.44

Undesired		Total IX		Unique IX		Prcnt Unique IX
KAIL D7 DT LIC	154.9	845	151.0	845	0.29	0.00
KLAS-TV D7 DT LIC	286.4	9,009	266.5	8,965	0.52	0.05
KFMB-TV D8 DT LIC	207.5	67,664	195.5	65,518	0.38	0.37
LICITACION D7 DT LIC	95.7	2,407	67.8	217	0.13	0.00