

Census data selected: 1990

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-05-2008 Time: 16:22:25

Record Selected for Analysis

KVPS USERRECORD-01 INDIO CA US
Channel 08 ERP 0.5 kW HAAT 409. m RCAMSL 00478 m
Latitude 033-51-58 Longitude 0116-26-05
Status APP Zone 2 Border Offset +
Dir Antenna Make CDB Model 0000000090001 Beam tilt N Ref Azimuth 200.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	68.0 dBu F(50,50) (km)
0.0	0.000	33.0	1.5
45.0	0.000	33.0	1.5
90.0	0.188	170.5	11.8
135.0	0.381	408.8	22.7
180.0	0.314	335.2	19.2
225.0	0.247	324.7	17.7
270.0	0.444	204.1	16.3
315.0	0.123	194.5	11.2

Contour Overlap Evaluation from LPTV Station to Full Service TV & DTV

Contour overlap to station
KFMB-TV 8 SAN DIEGO CABLCT 2176

Contour Overlap Evaluation from LPTV to Full Service TV & DTV Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Station inside contour of station
NEW 7 PALM SPRINGS CA BNPTVL 20000802ACX

Station inside contour of station
KEQK-LP 7 PALM SPRINGS CA BMPTVL 20080717AAF

Contour overlap to station
KVPS-LP 8 INDIO CA BLTVL 20020122AAB

Contour overlap to station
K09XW 9 PALM DESERT, ETC. CA BPTTV 20060331BIK

Station inside contour of station
K09XW 9 PALM DESERT, ETC. CA BLTTV 20050920ABE

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station
NEW 7 PALM SPRINGS CA BNPTVL20000802ACX

Is inside contour of station
KVPS 8 INDIO CA USERRECORD01

Station
KEQK-LP 7 PALM SPRINGS CA BMPTVL20080717AAF

Is inside contour of station
KVPS 8 INDIO CA USERRECORD01

Station
KVPS-LP 8 INDIO CA BLTVL20020122AAB causes

Contour overlap to station
KVPS 8 INDIO CA USERRECORD01

Station
NEW 8 SAN BERNARDINO CA BNPTVL20000828BEM causes

Contour overlap to station
KVPS 8 INDIO CA USERRECORD01

Station
K09XW 9 PALM DESERT, ETC. CA BPTTV20060331BIK causes

Contour overlap to station
KVPS 8 INDIO CA USERRECORD01

Station
K09XW 9 PALM DESERT, ETC. CA BLTTV20050920ABE causes

Contour overlap to station
KVPS 8 INDIO CA USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance
Distance to border = 141.1km

Proposed station is 2.65km from AM station
THOUSAND PALMS CA KNWZ Status: L Antenna: DA2

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
08	KVPS	INDIO CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	NEW	PALM SPRINGS CA	0.2	APP	BNPTVL	-20000802ACX
07	KEQK-LP	PALM SPRINGS CA	17.8	CP MOD	BMPTVL	-20080717AAF
08	KFMB-TV	SAN DIEGO CA	137.0	LIC	BLCT	-2176
09	K09XW	PALM DESERT, ETC. CA	19.2	CP	BPTTV	-20060331BIK
09	K09XW	PALM DESERT, ETC. CA	35.7	LIC	BLTTV	-20050920ABE

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	NEW	PALM SPRINGS CA	BNPTVL -20000802ACX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KVYE	EL CENTRO CA	174.4	LIC	BLCT	-20020618ABH
07	KABC-TV	LOS ANGELES CA	155.6	LIC	BLCT	-19840619KF
07	KEQK-LP	PALM SPRINGS CA	17.9	CP MOD	BMPTVL	-20080717AAF
07	K63EN	SAN DIEGO CA	107.7	CP	BPTVL	-20051019ABA
07	K07TA	SANTA MARIA CA	363.1	APP	BDFCDVA	-20060707AED
07	K07TA	SANTA MARIA CA	378.0	CP	BDFCDVA	-20061030ADS
07	KLAS-TV	LAS VEGAS NV	263.4	LIC	BLCDT	-20041202ACC
07	KLAS-DT	LAS VEGAS NV	263.4	PLN	DTVPLN	-DTVP0034
08	KFLA-LD	LOS ANGELES CA	155.6	APP	BPDVL	-20080123AAA
08	KFLA-LD	LOS ANGELES CA	155.6	LIC	BLDVL	-20071001AAC
08	KVPS	INDIO CA	0.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	KEQK-LP	PALM SPRINGS CA	BMPTVL -20080717AAF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KVYE	EL CENTRO CA	192.0	LIC	BLCT	-20020618ABH
07	KABC-TV	LOS ANGELES CA	137.8	LIC	BLCT	-19840619KF
07	NEW	PALM SPRINGS CA	17.9	APP	BNPTVL	-20000802ACX
07	K63EN	SAN DIEGO CA	107.0	CP	BPTVL	-20051019ABA
07	K07TA	SANTA MARIA CA	345.2	APP	BDFCDVA	-20060707AED
07	K07TA	SANTA MARIA CA	360.1	CP	BDFCDVA	-20061030ADS
07	KLAS-TV	LAS VEGAS NV	266.4	LIC	BLCDT	-20041202ACC
07	KLAS-DT	LAS VEGAS NV	266.4	PLN	DTVPLN	-DTVP0034
08	KFLA-LD	LOS ANGELES CA	137.8	APP	BPDVL	-20080123AAA
08	KFLA-LD	LOS ANGELES CA	137.8	LIC	BLDVL	-20071001AAC

08 KVPS INDIO CA 17.8 APP USERRECORD-01
Proposal causes no interference

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Analysis of Interference to Affected Station 3

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
08	KFMBTV	SAN DIEGO CA	DTVPLN -NPLN0522

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	KABCTV	LOS ANGELES CA	171.9	PLN	DTVPLN -NPLN0460
08	KLASTV	LAS VEGAS NV	400.3	PLN	DTVPLN -NPLN0554
09	KCALTV	LOS ANGELES CA	172.0	PLN	DTVPLN -NPLN0582

Results for:	8N CA SAN DIEGO	DTVPLN	NPLN0522	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour	2803587	26996.0		
not affected by terrain losses	2695895	24152.0		
lost to NTSC IX	32684	596.8		
lost to additional IX by ATV	0	0.0		
lost to all IX	32684	596.8		

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KFMB-TV	SAN DIEGO CA	BLCT -2176

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	KABC-TV	LOS ANGELES CA	171.9	LIC	BLCT -19840619KF
08	KLAS-TV	LAS VEGAS NV	400.3	LIC	BMLCT -20041104AFX
09	KCAL-TV	LOS ANGELES CA	172.0	LIC	BLCT -19911107KP
08	KVPS	INDIO CA	137.0	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	K09XW	PALM DESERT, ETC. CA	BPTTV -20060331BIK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	KFLA-LD	LOS ANGELES CA	173.9	APP	BPDVL -20080123AAA
08	KFLA-LD	LOS ANGELES CA	173.9	LIC	BLDVL -20071001AAC
09	NEW	PHOENIX AZ	390.1	APP	BDCCDVL -20061002BZV
09	KEYY-TV	EL CENTRO CA	158.2	LIC	BLCT -20050223AAA
09	KCAL-TV	LOS ANGELES CA	174.0	LIC	BLCT -19911107KP
09	NEW	NATIONAL CITY CA	148.7	APP	BDCCDVL -20070521ADJ
09	K61GH	NATIONAL CITY CA	148.9	STA	BMSTA -20070815ACF
09	KZSD-LP	SAN DIEGO CA	148.9	APP	BDISTVL -20080513ABQ
09	NEW	SAN DIEGO CA	146.0	APP	BDCCDVL -20070810ACK
09	KVVU-DR	HENDERSON NV	262.3	LIC	BPRM -20000720AAB
09	KVVU-TV	HENDERSON NV	262.2	LIC	BLCDT -20021120ABN
10	NEW	ALTADENA CA	173.9	APP	BDCCDVL -20070517AAK
10	KMRZ-LP	BANNING CA	173.2	APP	BDISDVL -20061220ACJ
10	NEW	BANNING CA	173.2	APP	BDCCDVL -20080826ACZ

10	K100U	PALM SPRINGS CA	36.4	LIC	BLTVL	-20060830ADL
10	KZSW-LD	RIVERSIDE CA	97.7	CP	BDCCDVL	-20070517ADV
10	NEW	VAN NUYS CA	208.5	APP	BSFDTL	-20060630CZS
08	KVPS	INDIO CA	19.2	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 4 K09XW
 Before Analysis

Results for: 9N CA PALM DESERT, ETC. BPTTV 20060331BIK CP

	POPULATION	AREA (sq km)
within Noise Limited Contour	123001	1005.6
not affected by terrain losses	112032	954.2
lost to NTSC IX	22063	374.1
lost to additional IX by ATV	0	0.0
lost to all IX	22063	374.1

Potential Interfering Stations Included in above Scenario 1

9N CA EL CENTRO BLCT 20050223AAA LIC

After Analysis

Results for: 9N CA PALM DESERT, ETC. BPTTV 20060331BIK CP

	POPULATION	AREA (sq km)
within Noise Limited Contour	123001	1005.6
not affected by terrain losses	112032	954.2
lost to NTSC IX	22078	376.1
lost to additional IX by ATV	0	0.0
lost to all IX	22078	376.1

Potential Interfering Stations Included in above Scenario 1

9N CA EL CENTRO BLCT 20050223AAA LIC
 8N CA INDIO USERRECORD01 APP

Percent new IX = 0.0122%

Result key: 2
 Scenario 2 Affected station 4 K09XW
 Before Analysis

Results for: 9N CA PALM DESERT, ETC. BPTTV 20060331BIK CP

	POPULATION	AREA (sq km)
within Noise Limited Contour	123001	1005.6
not affected by terrain losses	112032	954.2
lost to NTSC IX	22063	374.1
lost to additional IX by ATV	0	0.0
lost to all IX	22063	374.1

Potential Interfering Stations Included in above Scenario 2

9N CA EL CENTRO BLCT 20050223AAA LIC

After Analysis

Results for: 9N CA PALM DESERT, ETC. BPTTV 20060331BIK CP

	POPULATION	AREA (sq km)
within Noise Limited Contour	123001	1005.6
not affected by terrain losses	112032	954.2
lost to NTSC IX	22078	376.1
lost to additional IX by ATV	0	0.0
lost to all IX	22078	376.1

Potential Interfering Stations Included in above Scenario 2

9N CA EL CENTRO BLCT 20050223AAA LIC
8N CA INDIO USERRECORD01 APP

Percent new IX = 0.0122%

Worst case new IX 0.0122% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	K09XW	PALM DESERT, ETC. CA	BLTTV	-20050920ABE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KFLA-LD	LOS ANGELES CA	165.7	APP	BPDVL	-20080123AAA
08	KFLA-LD	LOS ANGELES CA	165.7	LIC	BLDVL	-20071001AAC
08	KFMB-TV	SAN DIEGO CA	107.1	LIC	BLCT	-2176
09	NEW	PHOENIX AZ	409.3	APP	BDCCDVL	-20061002BZV
09	KECY-TV	EL CENTRO CA	161.8	LIC	BLCT	-20050223AAA
09	KCAL-TV	LOS ANGELES CA	165.8	LIC	BLCT	-19911107KP
09	NEW	NATIONAL CITY CA	106.8	APP	BDCCDVL	-20070521ADJ
09	K61GH	NATIONAL CITY CA	107.1	STA	BMSTA	-20070815ACF
09	KZSD-LP	SAN DIEGO CA	107.0	APP	BDISTVL	-20080513ABQ
09	NEW	SAN DIEGO CA	103.7	APP	BDCCDVL	-20070810ACK
09	KVVU-DR	HENDERSON NV	304.4	LIC	BPRM	-20000720AAB
09	KVVU-TV	HENDERSON NV	304.4	LIC	BLCDT	-20021120ABN
10	NEW	ALTADENA CA	165.7	APP	BDCCDVL	-20070517AAK
10	KMRZ-LP	BANNING CA	164.7	APP	BDISDVL	-20061220ACJ
10	NEW	BANNING CA	164.7	APP	BDCCDVL	-20080826ACZ
10	K10OU	PALM SPRINGS CA	44.0	LIC	BLTVL	-20060830ADL
10	KZSW-LD	RIVERSIDE CA	88.1	CP	BDCCDVL	-20070517ADV
10	KGTV	SAN DIEGO CA	107.0	LIC	BLCT	-20011004AAZ
10	NEW	VAN NUYS CA	197.3	APP	BSFDTL	-20060630CZS
08	KVPS	INDIO CA	35.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 5 K09XW
Before Analysis

Results for:	9N CA PALM DESERT, ETC.	BLTTV	20050920ABE	LIC
	POPULATION	AREA (sq km)		
within Noise Limited Contour	190449	1449.1		
not affected by terrain losses	158890	1301.7		
lost to NTSC IX	52448	274.0		
lost to additional IX by ATV	0	0.0		
lost to all IX	52448	274.0		

Potential Interfering Stations Included in above Scenario 1

9N CA EL CENTRO	BLCT	20050223AAA	LIC	
10N CA PALM SPRINGS	BLTVL	20060830ADL	LIC	

After Analysis

Results for:	9N CA PALM DESERT, ETC.	BLTTV	20050920ABE	LIC
	POPULATION	AREA (sq km)		
within Noise Limited Contour	190449	1449.1		
not affected by terrain losses	158890	1301.7		

lost to NTSC IX	52516	297.7
lost to additional IX by ATV	0	0.0
lost to all IX	52516	297.7

Potential Interfering Stations Included in above Scenario 1

9N CA EL CENTRO	BLCT	20050223AAA	LIC
10N CA PALM SPRINGS	BLTVL	20060830ADL	LIC
8N CA INDIO	USERRECORD01		APP

Percent new IX = 0.0357%

Result key: 4
 Scenario 2 Affected station 5 K09XW
 Before Analysis

Results for: 9N CA PALM DESERT, ETC. BLTTV 20050920ABE LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	190449	1449.1
not affected by terrain losses	158890	1301.7
lost to NTSC IX	52448	274.0
lost to additional IX by ATV	0	0.0
lost to all IX	52448	274.0

Potential Interfering Stations Included in above Scenario 2

9N CA EL CENTRO	BLCT	20050223AAA	LIC
10N CA PALM SPRINGS	BLTVL	20060830ADL	LIC

After Analysis

Results for: 9N CA PALM DESERT, ETC. BLTTV 20050920ABE LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	190449	1449.1
not affected by terrain losses	158890	1301.7
lost to NTSC IX	52516	297.7
lost to additional IX by ATV	0	0.0
lost to all IX	52516	297.7

Potential Interfering Stations Included in above Scenario 2

9N CA EL CENTRO	BLCT	20050223AAA	LIC
10N CA PALM SPRINGS	BLTVL	20060830ADL	LIC
8N CA INDIO	USERRECORD01		APP

Percent new IX = 0.0357%

Worst case new IX 0.0357% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KVPS	INDIO CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	NEW	PALM SPRINGS CA	0.2	APP	BNPTVL -20000802ACX
07	KEQK-LP	PALM SPRINGS CA	17.8	CP MOD	BMPTVL -20080717AAF
08	KFAZ-CA	FRESNO CA	346.7	APP	BDFCDVA -20080801ANV
08	KFLA-LD	LOS ANGELES CA	155.5	APP	BPDVL -20080123AAA
08	KFLA-LD	LOS ANGELES CA	155.5	LIC	BLDVL -20071001AAC
08	K08IA	NEWBERRY SPRINGS CA	109.9	LIC	BLTTV -5051

08	NEW	SAN BERNARDINO CA	106.1	APP	BNPTVL	-20000828BEM
08	KFMB-TV	SAN DIEGO CA	137.0	LIC	BLCT	-2176
08	K08OH-D	ALAMO, ETC. NV	401.0	CP	BDCCDTV	-20061023AAX
08	KLAS-TV	LAS VEGAS NV	263.7	LIC	BMLCT	-20041104AFX
09	NEW	NATIONAL CITY CA	136.8	APP	BDCCDVL	-20070521ADJ
09	K09XW	PALM DESERT, ETC. CA	19.2	CP	BPTTV	-20060331BIK
09	NEW	SAN DIEGO CA	137.9	APP	BDCCDVL	-20070810ACK

Total scenarios = 3

Result key: 5
Scenario 1 Affected station 6 KVPS
Before Analysis

Results for: 8N CA INDIO USERRECORD01 APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	121126	648.4
not affected by terrain losses	121000	622.7
lost to NTSC IX	102	16.8
lost to additional IX by ATV	0	0.0
lost to all IX	102	16.8

Potential Interfering Stations Included in above Scenario 1

7N CA PALM SPRINGS BMPTVL 20080717AAF CP

Result key: 6
Scenario 2 Affected station 6 KVPS
Before Analysis

Results for: 8N CA INDIO USERRECORD01 APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	121126	648.4
not affected by terrain losses	121000	622.7
lost to NTSC IX	31372	126.5
lost to additional IX by ATV	0	0.0
lost to all IX	31372	126.5

Potential Interfering Stations Included in above Scenario 2

7N CA PALM SPRINGS BNPTVL 20000802ACX APP
7N CA PALM SPRINGS BMPTVL 20080717AAF CP

Result key: 7
Scenario 3 Affected station 6 KVPS
Before Analysis

Results for: 8N CA INDIO USERRECORD01 APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	121126	648.4
not affected by terrain losses	121000	622.7
lost to NTSC IX	102	16.8
lost to additional IX by ATV	0	0.0
lost to all IX	102	16.8

Potential Interfering Stations Included in above Scenario 3

7N CA PALM SPRINGS BMPTVL 20080717AAF CP

Proposal fails scenario 2 received IX increased to 25.9%

Proposed station is MX
8N CA INDIO USERRECORD01 APP

Proposal MX with group in scenario 2 of station 6

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED