

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-29-2004 Time: 14:21:45

Record Selected for Analysis

K47AI USERRECORD-01 BAKERSFIELD CA US
 Channel 47 ERP 150. kW HAAT 835. m RCAMSL 01065 m
 Latitude 035-26-17 Longitude 0118-44-22
 Status APP Zone 2 Border Offset +
 Dir Antenna Make CDB Model 00000000017640 Beam tilt N Ref Azimuth 233.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 2.0 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)	74.0 dBu F(50,50) (km)
0.0	0.002	208.2	1.6
45.0	0.135	33.0	2.9
90.0	0.135	33.0	2.9
135.0	0.002	210.9	1.6
180.0	19.239	614.4	38.3
225.0	123.240	742.7	54.3
270.0	47.467	834.6	48.9
315.0	0.002	580.0	1.7

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

Spacing violation to station

KUVI-TV 45 BAKERSFIELD CA BLCT 19881229KF
 Site-to-site distance 0.1km

Contour overlap to station

KFTR-TV 47 ONTARIO CA BPCDT 19991029AFX

Station inside contour of station

KTFF-TV 48 PORTERVILLE CA BLCDDT 20020920ADD

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
 K67FS 46 BAKERSFIELD CA BPTT JG0601UI

Contour overlap to station
 K47GD 47 SAN LUIS OBISPO CA BLTTL 19990614JA

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station
 K67FS 46 BAKERSFIELD CA BPTTJG0601UI

Is inside contour of station
 K47AI 47 BAKERSFIELD CA USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

 Start of Interference Analysis

Channel	Call	City/State	ARN
47	K47AI	BAKERSFIELD CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
45	KUVI-TV	BAKERSFIELD CA	0.1	LIC	BLCT	-19881229KF
46	K67FS	BAKERSFIELD CA	0.0	CP	BPTT	-JG0601UI
47	KFTR-TV	ONTARIO CA	148.0	CP	BPCDT	-19991029AFX
47	K47GD	SAN LUIS OBISPO CA	173.8	LIC	BLTTL	-19990614JA

48 KTFF-TV PORTERVILLE CA 94.8 LIC BLCDT

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Analysis of Interference to Affected Station 1

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
45	KUZZTV	BAKERSFIELD CA	DTVPLN	-NPLN1678

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	NEW	SANTA BARBARA CA	150.4	PLN	DTVPLN	-NPLN1537
44	KHIZ-DT	BARSTOW CA	161.3	PLN	DTVPLN	-DTVP1254
44	KGMC-DT	CLOVIS CA	153.2	PLN	DTVPLN	-DTVP1255
46	KHSCTV	ONTARIO CA	148.1	PLN	DTVPLN	-NPLN1696
48	KKAG-DT	PORTERVILLE CA	94.7	PLN	DTVPLN	-DTVP1383
49	KSTV-DT	VENTURA CA	125.8	PLN	DTVPLN	-DTVP1412
49	KNXT	VISALIA CA	94.7	PLN	DTVPLN	-NPLN1747
52	KVEA	CORONA CA	148.5	PLN	DTVPLN	-NPLN1805
59	KMSGTV	SANGER CA	192.0	PLN	DTVPLN	-NPLN1901

Results for: 45N CA BAKERSFIELD			DTVPLN	NPLN1678	PLN
	POPULATION	AREA (sq km)			
within Noise Limited Contour	594435	20232.2			
not affected by terrain losses	560545	16055.7			
lost to NTSC IX	42645	155.6			
lost to additional IX by ATV	2921	12.0			
lost to all IX	45566	167.5			

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	KUVI-TV	BAKERSFIELD CA	BLCT	-19881229KF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KPMR	SANTA BARBARA CA	150.6	CP MOD	BMPCT	-20000406AAS
44	KHIZ	BARSTOW CA	161.3	CP	BPCDT	-19991028ACX
44	KHIZ-DT	BARSTOW CA	161.3	PLN	DTVPLN	-DTVP1254

44	KGMC	CLOVIS CA	153.2	LIC	BLCDDT	-20020507AAJ
44	KGMC-DT	CLOVIS CA	153.2	PLN	DTVPLN	-DTVP1255
44	KXLA	RANCHO PALOS VERDES CA	148.1	CP MOD	BMPCT	-20031128AAV
45	KTBN-DR	SANTA ANA CA	148.5	APP	BPRM	-20030204AHA
45	NEW	NORTH LAS VEGAS NV	337.8	ADD	BPRM	-19960725AAJ
46	KFTR-TV	ONTARIO CA	148.1	CP	BPCT	-20020205AAB
48	KTFF-TV	PORTERVILLE CA	94.7	LIC	BLCDDT	-20020920ADD
48	KKAG-DT	PORTERVILLE CA	94.7	PLN	DTVPLN	-DTVP1383
49	KSTV-DT	VENTURA CA	125.8	PLN	DTVPLN	-DTVP1412
49	KNXT	VISALIA CA	94.7	LIC	BLET	-19861211KH
52	KVEA	CORONA CA	149.7	LIC	BLCT	-20030311AOQ
59	KFRE-TV	SANGER CA	192.4	CP MOD	BMPCT	-20020731AAF
47	K47AI	BAKERSFIELD CA	0.1	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.
46	K67FS	BAKERSFIELD CA	BPTT	-JG0601UI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	960328KH	BAKERSFIELD CA	0.0	APP	BPET	-19960328KH
45	KUVI-TV	BAKERSFIELD CA	0.1	LIC	BLCT	-19881229KF
46	KION-TV	MONTEREY CA	286.3	LIC	BMLCT	-19820622KG
46	KFTR-TV	ONTARIO CA	148.0	CP	BPCT	-20020205AAB
46	KMIR-DT	PALM SPRINGS CA	273.9	PLN	DTVPLN	-DTVP1318
46	K46GC	SANTA BARBARA CA	137.8	LIC	BLTTL	-20010301AAT
46	K27EI	SANTA MARIA CA	143.9	CP	BPTTL	-JG0601UZ

47	K47IA	BAKERSFIELD CA	15.6	CP	BNPTTL	-20000831ATV
48	KTFF-TV	PORTERVILLE CA	94.8	LIC	BLCDT	-20020920ADD
48	KKAG-DT	PORTERVILLE CA	94.8	PLN	DTVPLN	-DTVP1383
49	KSTV-DT	VENTURA CA	125.7	PLN	DTVPLN	-DTVP1412
50	KNXT	VISALIA CA	94.8	CP	BPEDT	-20020403ABU
50	KNXT-DT	VISALIA CA	94.8	PLN	DTVPLN	-DTVP1441
61	KTFF-TV	PORTERVILLE CA	94.8	CP MOD	BMPCT	-20010105AAX
47	K47AI	BAKERSFIELD CA	0.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
47	KHSC-DT	ONTARIO CA	DTVPLN	-DTVP1353

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
46	KHSCTV	ONTARIO CA	0.0	PLN	DTVPLN	-NPLN1696
46	KMIR-DT	PALM SPRINGS CA	155.7	PLN	DTVPLN	-DTVP1318
47	KJEO	FRESNO CA	339.1	PLN	DTVPLN	-NPLN1714
48	KOCE-DT	HUNTINGTON BEACH CA	30.3	PLN	DTVPLN	-DTVP1382

Results for: 47A CA ONTARIO DTVPLN DTVP1353 PLN

HAAT 927.0 m, ATV ERP 73.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	13507431	26634.7
not affected by terrain losses	12217198	18051.1
lost to NTSC IX	11	4.0
lost to additional IX by ATV	35742	52.0
lost to ATV IX only	35742	52.0
lost to all IX	35753	56.0

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
46	KHSCTV	ONTARIO CA	DTVPLN	-NPLN1696

Stations Potentially Affecting This Station

K47IA
Bakersfield, CA, Channel 47
Facility ID 128230
Exhibit 6, Attachment A

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KZKI-DT	SAN BERNARDINO CA	34.0	PLN	DTVPLN	-DTVP1040
39	NEW	BAKERSFIELD CA	147.5	PLN	DTVPLN	-NPLN1558
39	KVEA-DT	CORONA CA	0.5	PLN	DTVPLN	-DTVP1079
39	KNSD	SAN DIEGO CA	199.8	PLN	DTVPLN	-NPLN1559
42	KWHY-DT	LOS ANGELES CA	0.0	PLN	DTVPLN	-DTVP1183
43	KCAL-DT	LOS ANGELES CA	0.1	PLN	DTVPLN	-DTVP1218
44	KHIZ-DT	BARSTOW CA	83.2	PLN	DTVPLN	-DTVP1254
44	KRPA	RANCHO PALOS VERDES CA	101.0	PLN	DTVPLN	-NPLN1653
45	KUZZTV	BAKERSFIELD CA	148.1	PLN	DTVPLN	-NPLN1678
46	KMIR-DT	PALM SPRINGS CA	155.7	PLN	DTVPLN	-DTVP1318
46	DNCE	KINGMAN AZ	381.9	PLN	DTVPLN	-NPLN1713
47	KHSC-DT	ONTARIO CA	0.0	PLN	DTVPLN	-DTVP1353
48	KOCE-DT	HUNTINGTON BEACH CA	30.3	PLN	DTVPLN	-DTVP1382
49	KSTV-DT	VENTURA CA	88.6	PLN	DTVPLN	-DTVP1412
50	KOCETV	HUNTINGTON BEACH CA	30.3	PLN	DTVPLN	-NPLN1768
53	KABC-DT	LOS ANGELES CA	0.0	PLN	DTVPLN	-DTVP1524
54	NEW	AVALON CA	101.0	PLN	DTVPLN	-NPLN1834
60	KCBS-DT	LOS ANGELES CA	0.8	PLN	DTVPLN	-DTVP1664
61	KSCI-DT	LONG BEACH CA	34.1	PLN	DTVPLN	-DTVP1665

Results for: 46N CA ONTARIO	DTVPLN	NPLN1696	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	13508350	26638.7	
not affected by terrain losses	12029061	17479.2	
lost to NTSC IX	46312	108.0	
lost to additional IX by ATV	69012	52.0	
lost to all IX	115324	160.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	KFTR-TV	ONTARIO CA	BPCDT	-19991029AFX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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46	KFTR-TV	ONTARIO CA	0.1	CP	BPCT	
46	KMIR-DT	PALM SPRINGS CA	155.7	PLN	DTVPLN	-DTVP1318
47	KAZA-TV	AVALON CA	0.1	APP	BPRM	-20020703ABG
47	KGPE	FRESNO CA	339.1	CP	BPCT	-20030805AFJ
48	KOCE-DT	HUNTINGTON BEACH CA	30.3	PLN	DTVPLN	-DTVP1382
48	KOCE-TV	HUNTINGTON BEACH CA	0.1	APP	BMPEDT	-20031222ABT
48	KOCE-TV	HUNTINGTON BEACH CA	0.1	CP	BPEDT	-19991101AKY
47	K47AI	BAKERSFIELD CA	148.0	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.
47	K47GD	SAN LUIS OBISPO CA	BLTTL	-19990614JA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	KAZA-TV	AVALON CA	267.9	APP	BPRM	-20020703ABG
47	KGPE	FRESNO CA	219.8	CP	BPCT	-20030805AFJ
47	KWOK-DT	NOVATO CA	354.6	PLN	DTVPLN	-DTVP1352
47	KTLN-TV	NOVATO CA	354.8	CP	BPCDT	-19991026ABE
47	KFTR-TV	ONTARIO CA	267.9	CP	BPCDT	-19991029AFX
47	KHSC-DT	ONTARIO CA	267.8	PLN	DTVPLN	-DTVP1353
62	NEW	COALINGA CA	91.0	ADD	BPRM	-19960725AAA
47	K47AI	BAKERSFIELD CA	173.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 5

DTV Baseline Analysis

Channel	Call	City/State	Application Ref. No.
48	KKAG-DT	PORTERVILLE CA	DTVPLN -DTVP1383

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KJEO	FRESNO CA	101.6	PLN	DTVPLN -NPLN1714
48	KOCE-DT	HUNTINGTON BEACH CA	269.7	PLN	DTVPLN -DTVP1382
48	KCMY-DT	SACRAMENTO CA	315.4	PLN	DTVPLN -DTVP1384
48	KSTS	SAN JOSE CA	300.1	PLN	DTVPLN -NPLN1730
49	KSTV-DT	VENTURA CA	218.1	PLN	DTVPLN -DTVP1412
49	KNXT	VISALIA CA	0.0	PLN	DTVPLN -NPLN1747

Results for: 48A CA PORTERVILLE DTVPLN DTVP1383 PLN
HAAT 811.0 m, ATV ERP 77.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1378465	25483.0
not affected by terrain losses	1331041	21918.0
lost to NTSC IX	1721	76.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	1721	76.0

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
61	KKAG	PORTERVILLE CA	DTVPLN -NPLN1921

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
53	KAIL	FRESNO CA	102.1	PLN	DTVPLN -NPLN1819
59	KMSGTV	SANGER CA	102.2	PLN	DTVPLN -NPLN1901
61	KSCI-DT	LONG BEACH CA	255.3	PLN	DTVPLN -DTVP1665
61	KXTV-DT	SACRAMENTO CA	320.3	PLN	DTVPLN -DTVP1666

Results for: 61N CA PORTERVILLE DTVPLN NPLN1921 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1378980	25483.1
not affected by terrain losses	1279903	21550.0
lost to NTSC IX	1517	56.0
lost to additional IX by ATV	0	24.0
lost to all IX	1517	80.0

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KTFF-TV	PORTERVILLE CA	BLCDT -20020920ADD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	KGPE	FRESNO CA	101.6	CP	BPCT	-20030805AFJ
48	KOCE-DT	HUNTINGTON BEACH CA	269.7	PLN	DTVPLN	-DTVP1382
48	KOCE-TV	HUNTINGTON BEACH CA	239.5	APP	BMPEDT	-20031222ABT
48	KOCE-TV	HUNTINGTON BEACH CA	239.5	CP	BPEDT	-19991101AKY
48	KSPX	SACRAMENTO CA	321.4	CP	BPCDT	-19991101AKP
48	KCMY-DT	SACRAMENTO CA	315.4	PLN	DTVPLN	-DTVP1384
48	KSTS	SAN JOSE CA	301.4	APP	BPCT	-20001215ABL
48	KSTS	SAN JOSE CA	301.4	LIC	BLCT	-19990721KE
49	KSTV-DT	VENTURA CA	218.1	PLN	DTVPLN	-DTVP1412
49	KNXT	VISALIA CA	0.0	LIC	BLET	-19861211KH
47	K47AI	BAKERSFIELD CA	94.8	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 5
Before Analysis

Results for: 48A CA PORTERVILLE BLC DT 20020920ADD LIC
HAAT 804.0 m, ATV ERP 197.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1467590	33785.4
not affected by terrain losses	1441875	27868.0
lost to NTSC IX	1632	155.9
lost to additional IX by ATV	300	72.0
lost to ATV IX only	426	92.0
lost to all IX	1932	227.9

Potential Interfering Stations Included in above Scenario 1

47N CA FRESNO	BPCT	20030805AFJ	CP
48A CA SACRAMENTO	BPCDT	19991101AKP	CP

After Analysis

Results for: 48A CA PORTERVILLE BLC DT 20020920ADD LIC
HAAT 804.0 m, ATV ERP 197.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1467590	33785.4
not affected by terrain losses	1441875	27868.0

lost to NTSC IX	2316	235.9
lost to additional IX by ATV	300	72.0
lost to ATV IX only	426	92.0
lost to all IX	2616	307.9

Potential Interfering Stations Included in above Scenario 1

47N CA FRESNO	BPCT	20030805AFJ	CP
48A CA SACRAMENTO	BPCDT	19991101AKP	CP
47N CA BAKERSFIELD	USERRECORD01		APP

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	K47AI	BAKERSFIELD CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
45	KUVI-TV	BAKERSFIELD CA	0.1	LIC	BLCT	-19881229KF
46	K67FS	BAKERSFIELD CA	0.0	CP	BPTT	-JG0601UI
47	KAZA-TV	AVALON CA	148.0	APP	BPRM	-20020703ABG
47	K47HZ	BANNING CA	227.6	CP	BNPTTL	-20000831BVH
47	KGPE	FRESNO CA	191.6	CP	BPCT	-20030805AFJ
47	K47AE	INYOKERN, ETC. CA	95.8	LIC	BLTT	-19810223IS
47	KFTR-TV	ONTARIO CA	148.0	CP	BPCDT	-19991029AFX
47	KHSC-DT	ONTARIO CA	148.0	PLN	DTVPLN	-DTVP1353
47	K47GD	SAN LUIS OBISPO CA	173.8	LIC	BLTTL	-19990614JA
47	K47CC	VICTORVILLE CA	161.1	LIC	BLTT	-19880208ID
48	K48AG	BEAR VALLEY SPRINGS CA	31.6	LIC	BLTT	-19800721IK
48	KTFE-TV	PORTERVILLE CA	94.8	LIC	BLCDD	-20020920ADD
48	KKAG-DT	PORTERVILLE CA	94.8	PLN	DTVPLN	-DTVP1383
49	KSTV-DT	VENTURA CA	125.7	PLN	DTVPLN	-DTVP1412
49	KNXT	VISALIA CA	94.8	LIC	BLET	-19861211KH
50	KNXT	VISALIA CA	94.8	CP	BPEDT	-20020403ABU

50	KNXT-DT	VISALIA CA	94.8	PLN	DTVPLN	-DTVP1441
55	KUVI-TV	BAKERSFIELD CA	0.1	LIC	BLCDT	-20020906ABI
55	KUZZ-DT	BAKERSFIELD CA	0.1	PLN	DTVPLN	-DTVP1560
61	KTFF-TV	PORTERVILLE CA	94.8	CP MOD	BMPCT	-20010105AAX
62	K62BB	BEAR VALLEY SPRINGS CA	34.3	LIC	BLTT	-19800721IP
62	NEW	CANTIL CA	65.0	APP	BNPTTL	-20000831CBV

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 6
 Before Analysis

Results for: 47N CA BAKERSFIELD	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	344476	2441.2
not affected by terrain losses	344476	2405.2
lost to NTSC IX	9845	415.5
lost to additional IX by ATV	0	0.0
lost to all IX	9845	415.5

Potential Interfering Stations Included in above Scenario 1

47N CA FRESNO BPCT 20030805AFJ CP

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