

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
LPTV STATION KBID-LP
FACILITY ID 23276
FRESNO, CALIFORNIA
CH 31 100 KW (DA-MAX)

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for construction permit for LPTV station KBID-LP at Fresno, California (Facility ID: 23276; File No. BLTTL-20051222AFA). Specifically, this application purposes to increase the effective radiated power (ERP) from 50 kilowatts to 100 kilowatts, change the directional antenna system, change transmitter sites and reduce the antenna radiation center above mean sea level (RCAMSL) from 1147 meters to 178 meters. No other changes are proposed, including no change in channel (31), frequency offset (Z), or community of license (Fresno). The instant application is considered a "minor change" in facilities pursuant to Section 73.3572.

Proposed Operation

It is proposed to operate KBID-LP on channel 31 (572-578 MHz) with a "zero" carrier frequency offset using a Scala PRTV directional "composite" antenna (ID 71385) oriented at 260 degrees true. The maximum ERP will be 100 kW at any horizontal or vertical angle. The antenna radiation center height above mean sea level will be 178 meters.

Minor Change Application

Figure 1 depicts the licensed and herein proposed 74 dBu contours for KBID-LP. As indicated, the proposed 74 dBu contour overlaps a portion of the licensed 74 dBu contour. Therefore, the proposed modification is considered a "minor" change in facilities pursuant to Section 73.3572.

Response to Paragraph 6 - Antenna Structure Registration Number

Station KBID-LP proposes to side-mounted the directional antenna on an existing 20-meter supporting structure (Antenna Structure Registration Number 1216979) on top of a 77.4-meter building. It is believed that the instant application

conforms with all other applicable rules and regulations of the Federal Communications Commission

Response to Paragraph 13 - TV Broadcast Analog Protection

A study has been conducted using the provisions of Section 74.705 which indicates that the KBID-LP proposal will not create prohibited interference to other existing, authorized or proposed NTSC full-power stations.

Response to Paragraph 13 - DTV Station Protection

Calculations based on OET Bulletin No. 69 indicate that the proposed KBID-LP operation on channel 31 complies with the FCC's 0.5% interference threshold criteria to all allotted, proposed or actual DTV operating facilities on channels 30, 31, and 32. Figure 3 provides the output of study based on OET-69 Bulletin which demonstrates that the proposed KBID-LP operation complies with the FCC's DTV interference criteria.¹

Response to Paragraph 13 - Class A/LPTV/TV Translator Protection

A study has been conducted using the provisions of Section 74.707 which indicates that the KBID-LP proposal will not create prohibited interference to other existing, authorized or proposed LPTV/TV translator stations.

Environmental Considerations

The proposed KBID-LP television facilities were evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". The calculated power density at the base of the tower was calculated using the appropriate equation on Page 13 of the Bulletin. Using a "worst-

¹ The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. **A nominal grid size resolution of 1 km was employed.** An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin 69.

case" vertical relative field value of 0.1 at angles towards the tower base (-60 to -90°, see Figure 2), a maximum visual ERP of 100 kilowatts and 10 percent aural power, the calculated power density at 2 meters above the rooftop at the base of the tower is 36.01 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas (0.38 mW/cm² for TV channel 31), and 7.76 percent of the Commission's recommended limit applicable to controlled exposure areas (1.92 mW/cm² for TV channel 31). However, as this is a multi-user site, measurements will be made to substantiate compliance with the RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

Finally, it is noted that this technical exhibit only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already has been provided to the FCC by the tower owner as part of the tower registration process.

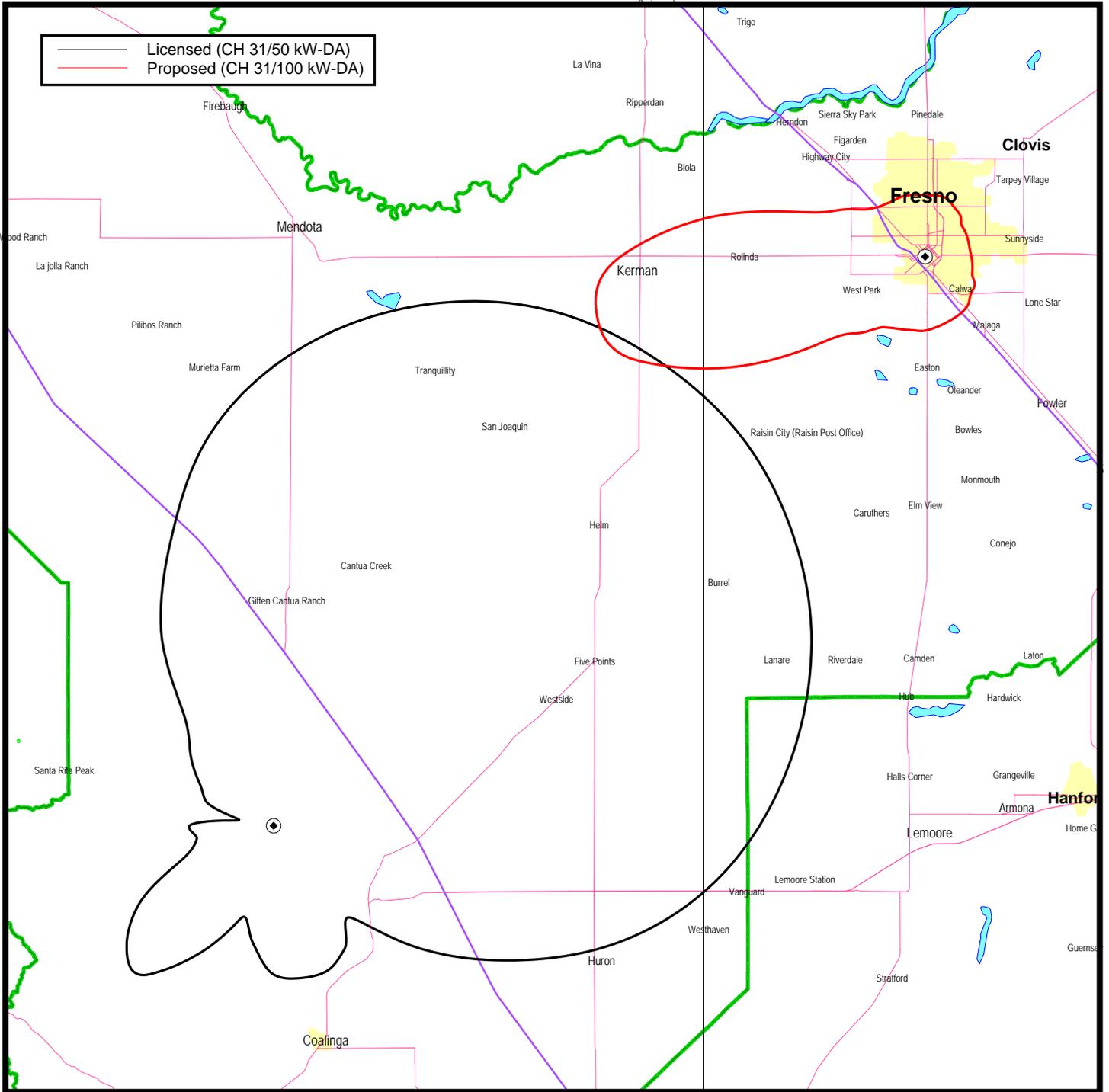


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Figure 1

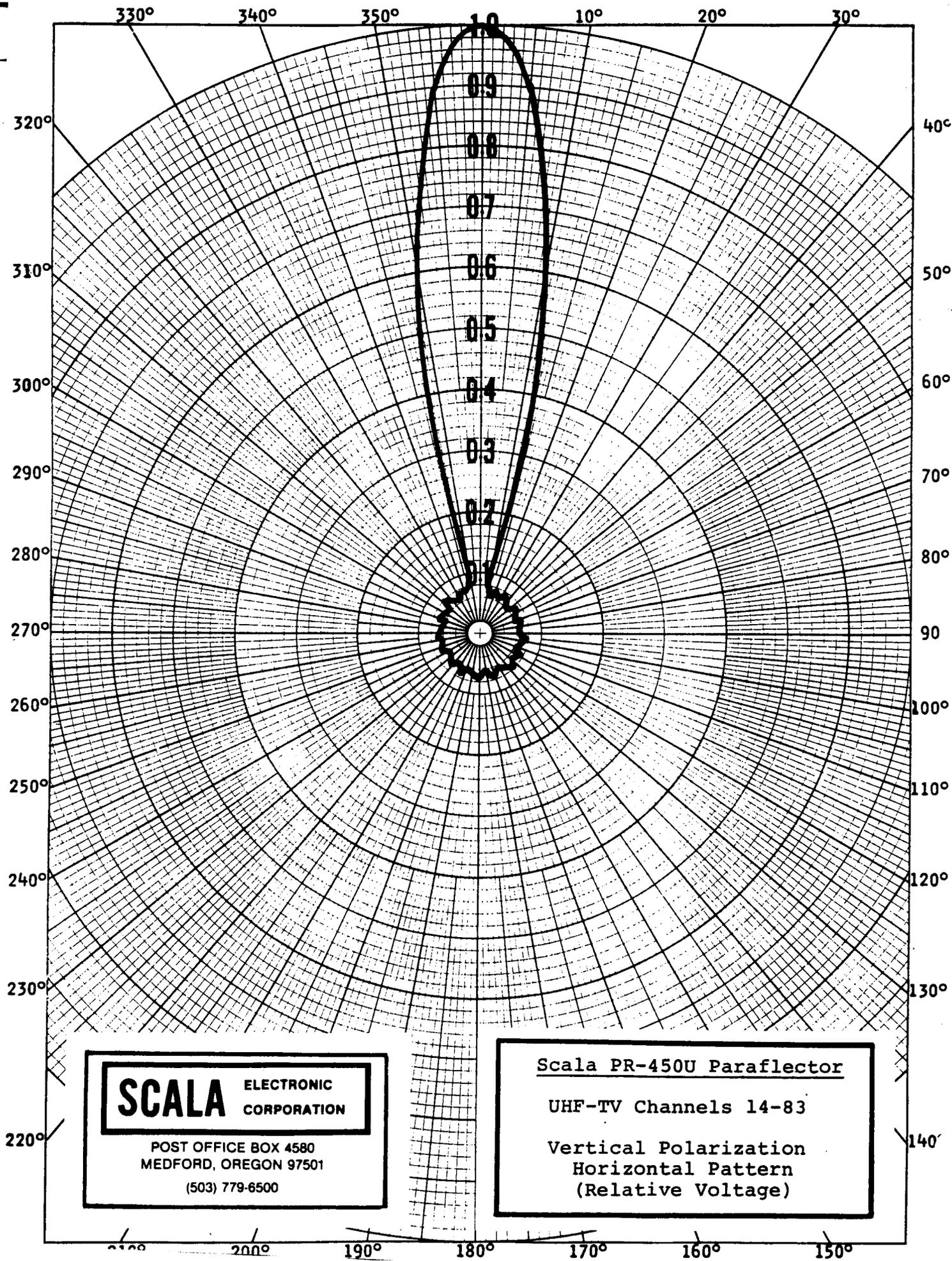


PREDICTED 74 DBU CONTOURS

STATION KGMC-LP
FRESNO, CALIFORNIA
CHANNEL 31

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



SCALA ELECTRONIC CORPORATION
POST OFFICE BOX 4580
MEDFORD, OREGON 97501
(503) 779-6500

Scala PR-450U Paraflector
UHF-TV Channels 14-83
Vertical Polarization
Horizontal Pattern
(Relative Voltage)

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KGMC USERRECORD-01 FRESNO CA US
Channel 31 ERP 100. kW HAAT 116. m RCAMSL 00178 m
Latitude 036-44-05 Longitude 0119-47-26
Status APP Zone 2 Border Offset Z
Dir Antenna Make CDB Model 00000000071385 Beam tilt N Ref Azimuth 260.
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)	74.0 dBu F(50,50) (km)
0.0	0.203	87.0	5.2
45.0	0.116	80.6	4.3
90.0	0.068	87.0	3.9
135.0	0.185	93.1	5.2
180.0	0.240	115.5	6.2
225.0	1.626	115.1	9.9
270.0	65.286	115.7	25.5
315.0	0.308	91.7	5.9

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

Station inside contour of station
KFSN-TV 30 FRESNO CA BLCT 19800424KG

Contour overlap to station
KSMS-TV 31 MONTEREY CA BPCDT 19991101AFU

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

KHSC-LP 16 FRESNO CA BLTTL 20050927AHY

Station inside contour of station

KJEO-LP 32 FRESNO CA BLTTL 20040917AJA

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station
K56DZ 46 FRESNO CA BPTTL20031008ACQ causes

Contour overlap to station

KGMC 31 FRESNO 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

		Proposed Station	
Channel	Call	City/State	ARN
31	KGMC	FRESNO CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KHSC-LP	FRESNO CA	45.3	LIC	BLTTL	-20050927AHY
30	KFSN-TV	FRESNO CA	49.6	LIC	BLCT	-19800424KG
31	KSMS-TV	MONTEREY CA	152.4	CP	BPCDT	-19991101AFU

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	KHSC-LP	FRESNO CA	BLTTL	-20050927AHY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	KJEO-DT	FRESNO CA	38.3	PLN	DTVPLN	-DTVP0124
15	K15CO	PORTERVILLE CA	64.8	LIC	BLTT	-19891122JU
16	KSEE-DT	FRESNO CA	0.1	PLN	DTVPLN	-DTVP0207
16	K16FC	SAN LUIS OBISPO CA	197.3	STA	BMSTA	-20030618ACC
16	K16FC	SAN LUIS OBISPO CA	197.3	LIC	BLTT	-20040607ADJ
16	KINC	LAS VEGAS NV	389.8	CP	BPCDT	-19991029ACP
16	KINC-DT	LAS VEGAS NV	389.9	PLN	DTVPLN	-DTVP0235
16	960920WT	YERINGTON NV	251.1	APP	BPET	-19960920WT
18	KVPT	FRESNO CA	0.1	LIC	BLET	-416
20	960919KZ	BISHOP CA	122.3	CP	BPCT	-19960919KZ
20	KFTV	HANFORD CA	38.6	LIC	BLCDT	-20020906ABE
20	KFTV-DT	HANFORD CA	38.7	PLN	DTVPLN	-DTVP0389
30	KFSN-TV	FRESNO CA	39.2	LIC	BLCT	-19800424KG
31	KGMC	FRESNO CA	45.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 16N CA FRESNO	BLTTL	20050927AHY	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	622072	3564.5	
not affected by terrain losses	619958	3384.6	
lost to NTSC IX	3358	74.3	
lost to additional IX by ATV	615192	3050.1	
lost to all IX	618550	3124.4	

Potential Interfering Stations Included in above Scenario 1

18N CA FRESNO	BLET	416	LIC
30N CA FRESNO	BLCT	19800424KG	LIC
16A CA FRESNO	DTVPLN	DTVP0207	PLN

After Analysis

Results for: 16N CA FRESNO	BLTTL	20050927AHY	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	622072	3564.5	
not affected by terrain losses	619958	3384.6	
lost to NTSC IX	12862	135.0	
lost to additional IX by ATV	605688	2989.5	
lost to all IX	618550	3124.4	

Potential Interfering Stations Included in above Scenario 1

18N CA FRESNO	BLET	416	LIC
30N CA FRESNO	BLCT	19800424KG	LIC
16A CA FRESNO	DTVPLN	DTVP0207	PLN

31N CA FRESNO

USERRECORD01

APP

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Analysis of Interference to Affected Station 2

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
30	KFSNTV	FRESNO CA	DTVPLN	-NPLN1374

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	DNCE	COALINGA CA	132.6	PLN	DTVPLN	-NPLN1163
23	KEROTV	BAKERSFIELD CA	195.5	PLN	DTVPLN	-NPLN1166
23	KBSV	CERES CA	146.1	PLN	DTVPLN	-NPLN1167
28	KMPH-DT	VISALIA CA	67.2	PLN	DTVPLN	-DTVP0703
29	KBAKTV	BAKERSFIELD CA	195.7	PLN	DTVPLN	-NPLN1350
30	KCVU	PARADISE CA	376.9	PLN	DTVPLN	-NPLN1375
30	KZKI	SAN BERNARDINO CA	357.3	PLN	DTVPLN	-NPLN1376
30	KQED-DT	SAN FRANCISCO CA	276.9	PLN	DTVPLN	-DTVP0778
31	KSMS-DT	MONTEREY CA	187.2	PLN	DTVPLN	-DTVP0814
38	KNSO-DT	MERCED CA	72.9	PLN	DTVPLN	-DTVP1039
44	KGMC-DT	CLOVIS CA	39.2	PLN	DTVPLN	-DTVP1255
45	KUZZTV	BAKERSFIELD CA	192.4	PLN	DTVPLN	-NPLN1678

Results for: 30N CA FRESNO	DTVPLN	NPLN1374	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1147684	23627.2	
not affected by terrain losses	1127392	19681.1	
lost to NTSC IX	1053	28.0	
lost to additional IX by ATV	4253	493.5	
lost to all IX	5306	521.5	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KFSN-TV	FRESNO CA	BLCT	-19800424KG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	KERO-TV	BAKERSFIELD CA	195.5	LIC	BMLCT	-305
23	KBSV	CERES CA	146.1	LIC	BLET	-19960319KE
28	KMPH	VISALIA CA	67.2	LIC	BLCDT	-20030204AGN
28	KMPH-DT	VISALIA CA	67.2	PLN	DTVPLN	-DTVP0703
29	KBAK-TV	BAKERSFIELD CA	195.7	LIC	BLCT	-2317
30	KCVU	PARADISE CA	376.9	LIC	BLCT	-20020204AAF
30	KPXN	SAN BERNARDINO CA	357.3	LIC	BLCT	-19940124KF
30	KPXN	SAN BERNARDINO CA	341.6	APP	BPCT	-20010131ABT
30	KQED-DT	SAN FRANCISCO CA	276.9	PLN	DTVPLN	-DTVP0778
31	KSMS-TV	MONTEREY CA	187.2	CP	BPCDT	-19991101AFU
31	KSMS-DT	MONTEREY CA	187.2	PLN	DTVPLN	-DTVP0814
34	KJEO-TV	FRESNO CA	1.0	LIC	BPRM	-20000803AAD
34	KGPE	FRESNO CA	1.0	LIC	BLCDT	-20030702ABJ
38	KSEE-DR	FRESNO CA	0.7	LIC	BPRM	-20040503AHI

38	KSEE	FRESNO CA	0.7	LIC	BLCDT	-20050914AAZ
38	KNSO-DT	MERCED CA	72.9	PLN	DTVPLN	-DTVP1039
44	KGMC	CLOVIS CA	39.2	LIC	BLCDT	-20020507AAJ
44	KGMC-DT	CLOVIS CA	39.2	PLN	DTVPLN	-DTVP1255
45	KUVI-TV	BAKERSFIELD CA	192.4	LIC	BLCT	-19881229KF
31	KGMC	FRESNO CA	49.6	APP	USERRECORD-01	

Total scenarios = 8

Result key: 2
Scenario 1 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	4559	591.4	
lost to all IX	5259	626.4	

Potential Interfering Stations Included in above Scenario 1

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	4559	591.4	
lost to all IX	10755	631.4	

Potential Interfering Stations Included in above Scenario 1

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC
31N CA FRESNO	USERRECORD01		APP

Result key: 3
Scenario 2 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	3774	539.5	
lost to all IX	4474	574.4	

Potential Interfering Stations Included in above Scenario 2

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	3774	539.5	
lost to all IX	9970	579.4	

Potential Interfering Stations Included in above Scenario 2

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN
31N CA FRESNO	USERRECORD01		APP

Result key: 4
Scenario 3 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	4559	577.4	
lost to all IX	5259	612.4	

Potential Interfering Stations Included in above Scenario 3

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC

30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	4559	577.4	
lost to all IX	10755	617.4	

Potential Interfering Stations Included in above Scenario 3

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC
31N CA FRESNO	USERRECORD01		APP

Result key: 5
Scenario 4 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	3774	525.5	
lost to all IX	4474	560.4	

Potential Interfering Stations Included in above Scenario 4

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	3774	525.5	
lost to all IX	9970	565.4	

Potential Interfering Stations Included in above Scenario 4

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	BLCDT	20030204AGN	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN
31N CA FRESNO	USERRECORD01		APP

Result key: 6
Scenario 5 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	4627	575.4	
lost to all IX	5327	610.4	

Potential Interfering Stations Included in above Scenario 5

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	4627	575.4	
lost to all IX	10823	615.4	

Potential Interfering Stations Included in above Scenario 5

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC
31N CA FRESNO	USERRECORD01		APP

Result key: 7
Scenario 6 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	3800	520.5	
lost to all IX	4500	555.4	

Potential Interfering Stations Included in above Scenario 6

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	3800	520.5	
lost to all IX	9996	560.4	

Potential Interfering Stations Included in above Scenario 6

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BPRM	20000803AAD	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN
31N CA FRESNO	USERRECORD01		APP

Result key: 8
Scenario 7 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	4627	561.4	
lost to all IX	5327	596.4	

Potential Interfering Stations Included in above Scenario 7

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC

28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	4627	561.4	
lost to all IX	10823	601.4	

Potential Interfering Stations Included in above Scenario 7

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	BLCDT	20020507AAJ	LIC
31N CA FRESNO	USERRECORD01		APP

Result key: 9
Scenario 8 Affected station 2
Before Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	700	35.0	
lost to additional IX by ATV	3800	506.5	
lost to all IX	4500	541.5	

Potential Interfering Stations Included in above Scenario 8

23N CA BAKERSFIELD	BMLCT	305	LIC
29N CA BAKERSFIELD	BLCT	2317	LIC
30N CA PARADISE	BLCT	20020204AAF	LIC
28A CA VISALIA	DTVPLN	DTVP0703	PLN
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A CA FRESNO	BLCDT	20030702ABJ	LIC
44A CA CLOVIS	DTVPLN	DTVP1255	PLN

After Analysis

Results for: 30N CA FRESNO	BLCT	19800424KG	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1146442	23423.2	
not affected by terrain losses	1125706	19509.2	
lost to NTSC IX	6196	40.0	
lost to additional IX by ATV	3800	506.5	
lost to all IX	9996	546.4	

Potential Interfering Stations Included in above Scenario 8

23N	CA	BAKERSFIELD	BMLCT	305	LIC
29N	CA	BAKERSFIELD	BLCT	2317	LIC
30N	CA	PARADISE	BLCT	20020204AAF	LIC
28A	CA	VISALIA	DTVPLN	DTVP0703	PLN
30A	CA	SAN FRANCISCO	DTVPLN	DTVP0778	PLN
34A	CA	FRESNO	BLCDT	20030702ABJ	LIC
44A	CA	CLOVIS	DTVPLN	DTVP1255	PLN
31N	CA	FRESNO	USERRECORD01		APP

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Analysis of Interference to Affected Station 3

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
31	KSMS-DT	MONTEREY CA	DTVPLN	-DTVP0814

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	KFSNTV	FRESNO CA	187.2	PLN	DTVPLN	-NPLN1374
30	KQED-DT	SAN FRANCISCO CA	139.3	PLN	DTVPLN	-DTVP0778
31	KTLA-DT	LOS ANGELES CA	419.2	PLN	DTVPLN	-DTVP0813
31	KPWBTV	SACRAMENTO CA	167.6	PLN	DTVPLN	-NPLN1400
32	KION-DT	MONTEREY CA	26.8	PLN	DTVPLN	-DTVP0855
32	KMTPTV	SAN FRANCISCO CA	139.3	PLN	DTVPLN	-NPLN1421

Results for: 31A CA MONTEREY DTVPLN DTVP0814 PLN
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2054928	19494.1
not affected by terrain losses	1419409	14383.0
lost to NTSC IX	72565	214.1
lost to additional IX by ATV	523817	723.6
lost to ATV IX only	595982	809.6
lost to all IX	596382	937.7

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
67	KSMSTV	MONTEREY CA	DTVPLN	-NPLN1988

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
59	KCSM-DT	SAN MATEO CA	132.2	PLN	DTVPLN	-DTVP1644
60	KCSMTV	SAN MATEO CA	132.2	PLN	DTVPLN	-NPLN1911
63	KTNC-DT	CONCORD CA	131.1	PLN	DTVPLN	-DTVP1673
64	KFTL	STOCKTON CA	131.1	PLN	DTVPLN	-NPLN1958
65	KLXVTV	SAN JOSE CA	49.7	PLN	DTVPLN	-NPLN1969
66	KPSTTV	VALLEJO CA	139.3	PLN	DTVPLN	-NPLN1977
68	KWOK	NOVATO CA	182.2	PLN	DTVPLN	-NPLN1998

not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	588369	877.2
lost to ATV IX only	669087	1007.3
lost to all IX	677034	1150.0

Potential Interfering Stations Included in above Scenario 1

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BLET	19910910KE	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	DTVPLN	DTVP0855	PLN
31N CA FRESNO	USERRECORD01		APP

Result key: 11
Scenario 2 Affected station 3
Before Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	248.4
lost to additional IX by ATV	592357	867.4
lost to ATV IX only	673075	994.5
lost to all IX	681022	1115.8

Potential Interfering Stations Included in above Scenario 2

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BLET	19910910KE	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BLCDT	20030604ACO	LIC

After Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	592357	865.5
lost to ATV IX only	673075	994.5
lost to all IX	681022	1138.3

Potential Interfering Stations Included in above Scenario 2

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BLET	19910910KE	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BLCDT	20030604ACO	LIC
31N CA FRESNO	USERRECORD01		APP

Result key: 12
Scenario 3 Affected station 3

Before Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
 HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	248.4
lost to additional IX by ATV	602150	1058.1
lost to ATV IX only	682868	1187.2
lost to all IX	690815	1306.5

Potential Interfering Stations Included in above Scenario 3

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BLET	19910910KE	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BPCDT	19991201AAR	APP

After Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
 HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	602150	1052.2
lost to ATV IX only	682868	1187.2
lost to all IX	690815	1325.1

Potential Interfering Stations Included in above Scenario 3

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BLET	19910910KE	LIC
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BPCDT	19991201AAR	APP
31N CA FRESNO	USERRECORD01		APP

Result key: 13
 Scenario 4 Affected station 3
 Before Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
 HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	248.4
lost to additional IX by ATV	602150	1058.1
lost to ATV IX only	682868	1187.2
lost to all IX	690815	1306.5

Potential Interfering Stations Included in above Scenario 4

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP

30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BPCDT	19991201AAR	APP

After Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	602150	1052.2
lost to ATV IX only	682868	1187.2
lost to all IX	690815	1325.1

Potential Interfering Stations Included in above Scenario 4

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BPCDT	19991201AAR	APP
31N CA FRESNO	USERRECORD01		APP

Result key: 14
Scenario 5 Affected station 3
Before Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	248.4
lost to additional IX by ATV	588369	880.1
lost to ATV IX only	669087	1007.3
lost to all IX	677034	1128.5

Potential Interfering Stations Included in above Scenario 5

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	DTVPLN	DTVP0855	PLN

After Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	588369	877.2
lost to ATV IX only	669087	1007.3
lost to all IX	677034	1150.0

Potential Interfering Stations Included in above Scenario 5

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	DTVPLN	DTVP0855	PLN
31N CA FRESNO	USERRECORD01		APP

Result key: 15
 Scenario 6 Affected station 3
 Before Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
 HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	248.4
lost to additional IX by ATV	592357	867.4
lost to ATV IX only	673075	994.5
lost to all IX	681022	1115.8

Potential Interfering Stations Included in above Scenario 6

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BLCDT	20030604ACO	LIC

After Analysis

Results for: 31A CA MONTEREY BPCDT 19991101AFU CP
 HAAT 701.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2381434	22555.7
not affected by terrain losses	1586631	15473.6
lost to NTSC IX	88665	272.8
lost to additional IX by ATV	592357	865.5
lost to ATV IX only	673075	994.5
lost to all IX	681022	1138.3

Potential Interfering Stations Included in above Scenario 6

31N CA SACRAMENTO	BLCT	20021125AAK	LIC
32N CA SAN FRANCISCO	BPET	19931101KG	APP
30A CA SAN FRANCISCO	DTVPLN	DTVP0778	PLN
32A CA MONTEREY	BLCDT	20030604ACO	LIC
31N CA FRESNO	USERRECORD01		APP

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	KGMC	FRESNO CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	KSEE	FRESNO CA	45.4	LIC	BLCT	-2300
28	KMPH	VISALIA CA	81.6	LIC	BLCDDT	-20030204AGN
28	KMPH-DT	VISALIA CA	81.6	PLN	DTVPLN	-DTVP0703
30	KFSN-TV	FRESNO CA	49.6	LIC	BLCT	-19800424KG
31	KBTF-CA	BAKERSFIELD CA	178.4	LIC	BLTTA	-20041126ACC
31	KTLA-TV	LOS ANGELES CA	319.5	LIC	BLCDDT	-20050713ACE
31	KTLA-DT	LOS ANGELES CA	319.5	PLN	DTVPLN	-DTVP0813
31	KSMS-TV	MONTEREY CA	152.4	CP	BPCDDT	-19991101AFU
31	KSMS-DT	MONTEREY CA	152.4	PLN	DTVPLN	-DTVP0814
31	KMAX-TV	SACRAMENTO CA	226.7	LIC	BLCT	-20021125AAK
34	KJEO-TV	FRESNO CA	49.5	LIC	BPRM	-20000803AAD
34	KGPE	FRESNO CA	49.5	LIC	BLCDDT	-20030702ABJ
38	KSEE-DR	FRESNO CA	49.3	LIC	BPRM	-20040503AHI
38	KSEE	FRESNO CA	49.3	LIC	BLCDDT	-20050914AAZ
38	KNSO-DT	MERCED CA	91.2	PLN	DTVPLN	-DTVP1039
46	K56DZ	FRESNO CA	25.5	CP	BPTTL	-20031008ACQ

Total scenarios = 1

Result key: 16
Scenario 1 Affected station 4
Before Analysis

Results for: 31N CA FRESNO	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	144197	355.1
not affected by terrain losses	144197	355.1
lost to NTSC IX	133483	294.4
lost to additional IX by ATV	0	0.0
lost to all IX	133483	294.4

Potential Interfering Stations Included in above Scenario 1

30N CA FRESNO	BLCT	19800424KG	LIC
31N CA BAKERSFIELD	BLTTA	20041126ACC	LIC

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Summary of OET-69 Interference Analysis

1	16	KHSC-LP	FRESNO CA	45.3	LIC	BLTTL	-20050927AHY
2	30	KFSN-TV	FRESNO CA	49.6	LIC	BLCT	-19800424KG
3	31	KSMS-TV	MONTEREY CA	152.4	CP	BPCDT	-19991101AFU
Result Key Scenario Affected Station Before After Baseline Net Change Percentage							
1	1	1	618,550	618,550	622,072	0	0
2	1	2	5,259	10,755	1,146,442	5,496	0.479
10	1	3	677,034	677,034	823,027	0	0