

TABLE 2.2

INCREASE IN PREDICTED
INTERFERENCE TO OTHER
STATIONS FROM ADDITION
OF DTV CHANNEL 12 IN LAS VEGAS

Journal Broadcast Group, Inc.
Las Vegas, NV

		<u>Interference Free Service Within Grade B or Noise Limited Contour</u>					
		<u>Area (square kilometers)</u>			<u>Population(1990 Census)</u>		
<u>Station</u>	<u>Channel</u>	<u>With KTNV</u> <u>Channel 12</u> <u>DTV</u>	<u>Without KTNV</u> <u>Channel 12</u> <u>DTV</u>	<u>Service Loss</u> <u>Resulting From</u> <u>Channel 12</u> <u>Addition</u>	<u>With KTNV</u> <u>Channel 12</u> <u>DTV</u>	<u>Without KTNV</u> <u>Channel 12</u> <u>DTV</u>	<u>Service Loss</u> <u>Resulting From</u> <u>Channel 12</u> <u>Addition</u>
KUSG	12	1,150	1,230	80	44,000	44,000	0
KLVX	11(DTV)	19,980	20,070	90	708,000	708,000	0
KTNV	13	19,040	19,330	290	702,000	703,000	1,000
Total Gain				460			1,000

TABLE 2.3

TOTAL SERVICE GAINS
 RESULTING FROM SUBSTITUTION
 OF DTV CHANNEL 12 FOR DTV
CHANNEL 17 IN LAS VEGAS

Journal Broadcast Group, Inc.
 Las Vegas, NV

	Area <u>(Square kilometers)</u>	Population <u>(1990 Census)</u>
KTNV DTV Service Gain	1,500	0
Gains by other stations from Channel 17 deletion	600	12,000
Losses by other stations from Channel 12 addition	<u>(460)</u>	<u>(1,000)</u>
Net gain (loss)	1,640	11,000

TABLE 3.0

KTNV PROPOSED
CHANNEL 9 DTV FACILITIES
 Journal Broadcast Group, Inc.
 Las Vegas, NV

<u>Azimuth (Degrees)</u>	<u>Relative Field</u>	<u>(dBk)</u>	<u>ERP</u>	<u>(kW)</u>
0	0.966	13.73		23.6
10	0.956	13.64		23.1
20	0.937	13.47		22.2
30	0.941	13.50		22.4
40	0.944	13.53		22.5
50	0.934	13.44		22.1
60	0.924	13.34		21.6
70	0.908	13.19		20.9
80	0.919	13.30		21.4
90	0.940	13.49		22.4
100	0.974	13.80		24.0
110	0.992	13.96		24.9
117	1.000	14.03		25.3
120	0.992	13.96		24.9
130	0.980	13.86		24.3
140	0.987	13.92		24.6
150	0.965	13.72		23.6
160	0.951	13.59		22.9
170	0.918	13.29		21.3
180	0.802	12.11		16.3
190	0.734	11.35		13.6
200	0.705	11.00		12.6
210	0.760	11.65		14.6

TABLE 3.0 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Relative Field</u>	<u>(dBk)</u>	<u>ERP</u>	<u>(kW)</u>
220	0.788	11.96		15.7
230	0.806	12.16		16.4
240	0.821	12.32		17.1
250	0.854	12.66		18.5
260	0.906	13.17		20.8
270	0.913	13.24		21.1
280	0.918	13.29		21.3
290	0.930	13.40		21.9
300	0.933	13.43		22.0
310	0.934	13.44		22.1
320	0.938	13.48		22.3
330	0.942	13.51		22.5
340	0.952	13.60		22.9
350	0.954	13.62		23.0

Maximum ERP= 25.3 kilowatts= 14.03 dBk

Antenna height: 1393 m MSL/610 m AAT

Site coordinates: NL - 35° 56' 43"
 WL - 115° 02' 32"

TABLE 3.1

COMPARISON OF PREDICTED
SERVICE BY DTV OPERATION ON
CHANNEL 9 AND CHANNEL 17

Journal Broadcast Group, Inc.
Las Vegas, NV

<u>Interference Free Service Within Noise Limited Contour</u>					
<u>Area (square kilometers)</u>			<u>Population(1990 Census)</u>		
KTNV Channel 17 <u>DTV</u>	KTNV Channel 9 <u>DTV</u>	Service Gain Resulting From Channel 9 <u>Substitution</u>	KTNV Channel 17 <u>DTV</u>	KTNV Channel 9 <u>DTV</u>	Service Gain Resulting From Channel 9 <u>Substitution</u>
23,670	26,000	2,330	707,000	709,000	2,000

TABLE 3.3

TOTAL SERVICE GAINS
 RESULTING FROM SUBSTITUTION
 OF DTV CHANNEL 9 FOR DTV
CHANNEL 17 IN LAS VEGAS
 Journal Broadcast Group, Inc.
 Las Vegas, NV

	<u>Area</u> <u>(Square kilometers)</u>	<u>Population</u> <u>(1990 Census)</u>
KTNV DTV Service Gain	2,330	2,000
Gains by other stations from Channel 17 deletion	600	12,000
Losses by other stations from Channel 12 addition	(1,090)	(1,000)
Net gain (loss)	1,840	13,000

APPENDIX A

OET BULLETIN 69 CALCULATIONS

AUTHORIZED KTNV CHANNEL 17 DTV FACILITIES

TABLE A-1
KTNV AUTHORIZED
CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug1997B.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug1997B.desc

Desired Station Name: DKTNV Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 17

Undesired Station 1 Name: DKFTL Station Type: HDTV
 City: FLAGSTAFF State: AZ Channel: 18 km:337.8 mi:209.9 bear:107.7

Undesired Station 2 Name: DKPHOTV Station Type: HDTV
 City: PHOENIX State: AZ Channel: 17 km:398.1 mi:247.4 bear:135.9

Undesired Station 3 Name: DKSWT Station Type: HDTV
 City: YUMA State: AZ Channel: 16 km:321.9 mi:200.0 bear:176.4

Undesired Station 4 Name: KGET Station Type: NTSC
 City: BAKERSFIEL State: CA Channel: 17 km:338.4 mi:210.3 bear:261.5

Undesired Station 5 Name: KVPT Station Type: NTSC
 City: FRESNO State: CA Channel: 18 km:389.7 mi:242.2 bear:284.4

Undesired Station 6 Name: DKSEE Station Type: HDTV
 City: FRESNO State: CA Channel: 16 km:389.7 mi:242.2 bear:284.4

Undesired Station 7 Name: KSCI Station Type: NTSC
 City: SAN BERNAR State: CA Channel: 18 km:310.7 mi:193.1 bear:231.8

Undesired Station 8 Name: DKINC Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 16 km: .0 mi: .0 bear: 39.0

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKPHOTV	.00 sq km	12.52 sq km
DKINC	.00 sq km	24.61 sq km

Signal below minimum

Area: 98870. sq km
 Population: 189000.
 Households: 68000.

Interference

Area: 40. sq km
 Population: 0.
 Households: 0.

No Interference

Area: 23670. sq km
 Population: 707000.
 Households: 273000.

**FIGURE A-1
KTNV AUTHORIZED
CHANNEL 17 DTV**

TA Services
WARMUS & ASSOCIATES, INC.
KTNV-17
21-Apr-97 22:41:13
RS209Aug1007B.qws

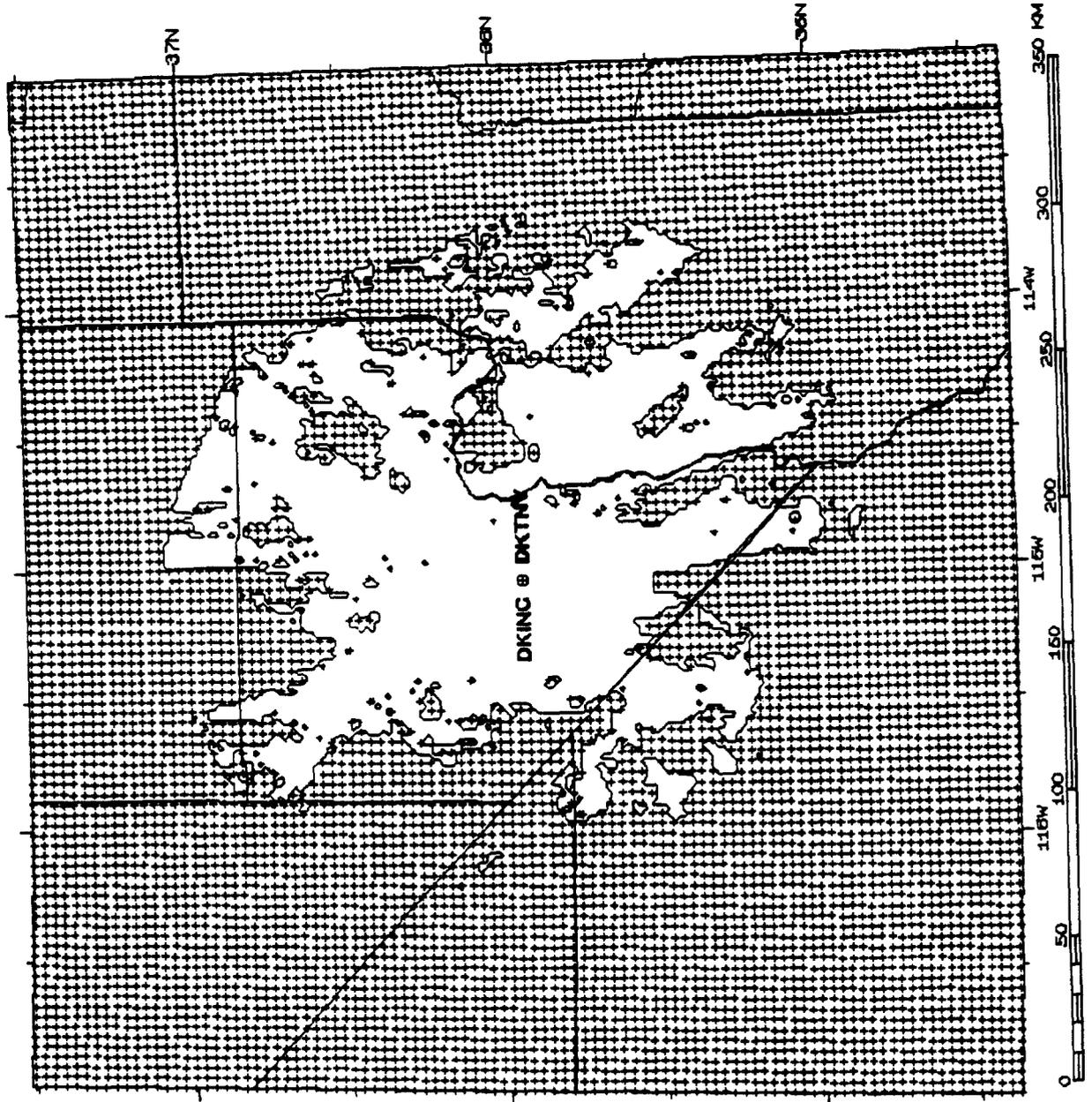


TABLE A-2
KINC-CHANNEL 15
WITH KTNV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097A.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097A.desc

Desired Station Name: KINC Station Type: NTSC
City: LAS VEGAS State: NV Channel: 15

Undesired Station 1 Name: DKNZTV Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 22 km:337.9 mi:209.9 bear:107.7

Undesired Station 2 Name: DKTFL Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 18 km:337.8 mi:209.9 bear:107.7

Undesired Station 3 Name: DKMOHTV Station Type: HDTV
City: KINGMAN State: AZ Channel: 19 km:118.5 mi: 73.6 bear:148.7

Undesired Station 4 Name: DKPHOTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 17 km:398.1 mi:247.4 bear:135.9

Undesired Station 5 Name: DKAET Station Type: HDTV
City: PHOENIX State: AZ Channel: 29 km:398.0 mi:247.3 bear:136.0

Undesired Station 6 Name: DKSZTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 23 km:398.1 mi:247.3 bear:135.9

Undesired Station 7 Name: KNXVTV Station Type: NTSC
City: PHOENIX State: AZ Channel: 15 km:398.1 mi:247.4 bear:136.0

Undesired Station 8 Name: DKNXVTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 14 km:398.1 mi:247.4 bear:136.0

Undesired Station 9 Name: DKSWT Station Type: HDTV
City: YUMA State: AZ Channel: 16 km:321.9 mi:200.0 bear:176.4

Undesired Station 10 Name: KGET Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 17 km:338.5 mi:210.3 bear:261.5

Undesired Station 11 Name: KEROTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 23 km:325.2 mi:202.0 bear:261.4

Undesired Station 12 Name: KBAKTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 29 km:324.9 mi:201.9 bear:261.3

Undesired Station 13 Name: DKVYE Station Type: HDTV
City: EL CENTRO State: CA Channel: 22 km:322.2 mi:200.2 bear:176.5

Undesired Station 14 Name: KVPT Station Type: NTSC
City: FRESNO State: CA Channel: 18 km:389.7 mi:242.2 bear:284.4

Undesired Station 15 Name: DKSEE Station Type: HDTV
City: FRESNO State: CA Channel: 16 km:389.8 mi:242.2 bear:284.4

Undesired Station 16 Name: KWHYTV Station Type: NTSC
City: LOS ANGELE State: CA Channel: 22 km:334.9 mi:208.1 bear:236.1

Undesired Station 17 Name: KSCI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 18 km:310.7 mi:193.1 bear:231.8

Undesired Station 18 Name: KZKI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 30 km:310.8 mi:193.1 bear:231.8

Undesired Station 19 Name: DKVMD Station Type: HDTV
City: TWENTYNINE State: CA Channel: 23 km:225.1 mi:139.9 bear:208.2

Undesired Station 20 Name: DKTNV Station Type: HDTV
City: LAS VEGAS State: NV Channel: 17 km: .0 mi: .0 bear:218.6

Undesired Station 21 Name: DKINC Station Type: HDTV
City: LAS VEGAS State: NV Channel: 16 km: .0 mi: .0 bear: 41.5

Undesired Station 22 Name: DKSGITV Station Type: HDTV
City: CEDAR CITY State: UT Channel: 14 km:249.8 mi:155.2 bear: 44.1

Stations that actually do contribute to interference.

TABLE A-2 (cont'd)

Name	NTSC Int	HDTV Int
DKMOHTV	.00 sq km	15.64 sq km
DKTNV	.00 sq km	246.41 sq km
DKINC	.00 sq km	180.18 sq km

Signal below minimum

Area: 114080. sq km

Population: 199000.

Households: 72000.

Interference

Area: 340. sq km

Population: 5000.

Households: 2000.

No Interference

Area: 8150. sq km

Population: 758000.

Households: 301000.

FIGURE A-2
 KING-CHANNEL 15
 WITH KTNV CHANNEL 17 DTV

TA Services
 WARMLIS & ASSOCIATES, INC.
 KING W/ DKTNV17
 21-Apr-97 22:41:13
 RS200Aug2097A.ques

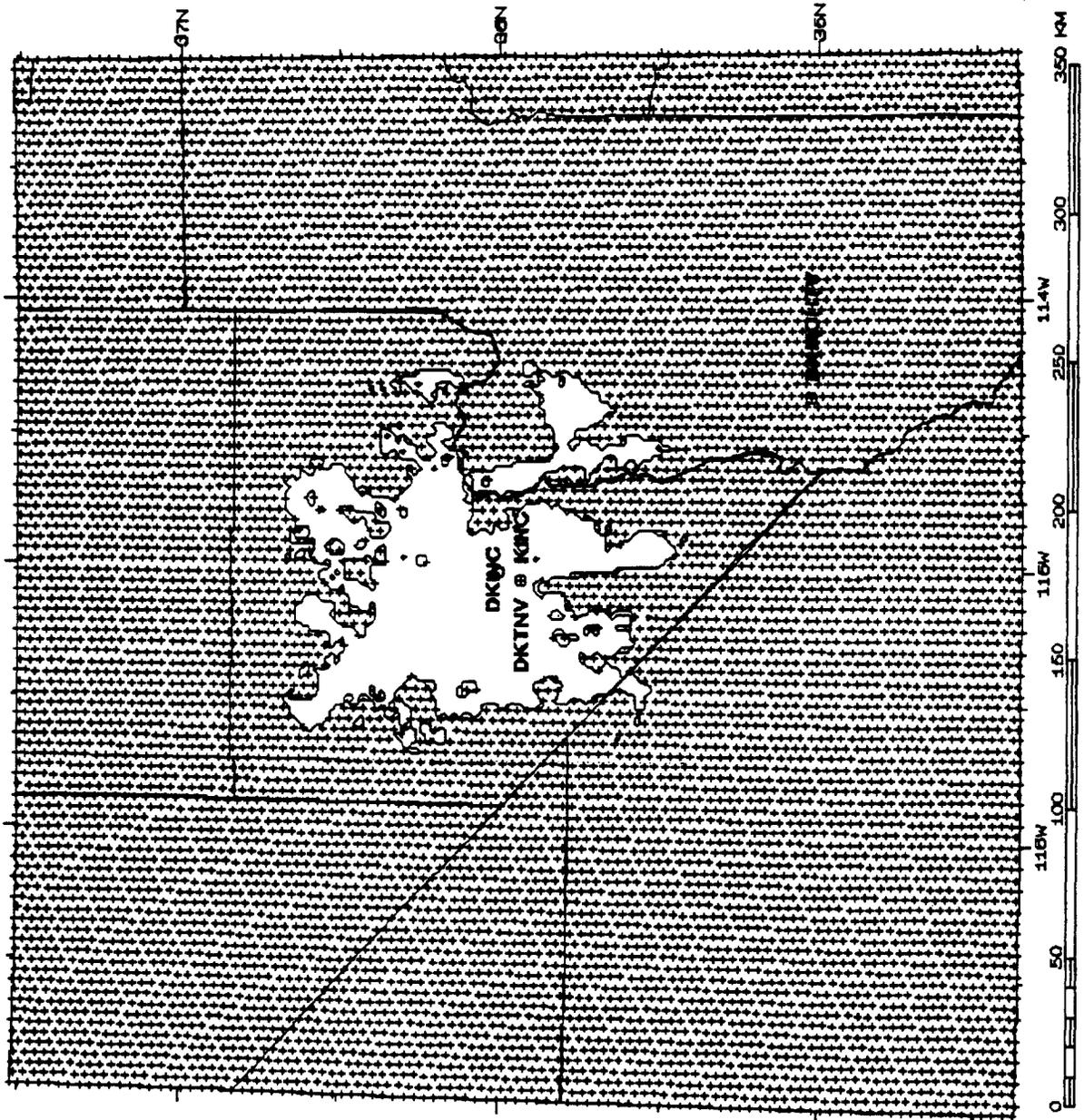


TABLE A-3
KINC-CHANNEL 15
WITHOUT KTNV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097B.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097B.desc

Desired Station Name: KINC Station Type: NTSC
City: LAS VEGAS State: NV Channel: 15

Undesired Station 1 Name: DKNAZTV Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 22 km:337.9 mi:209.9 bear:107.7

Undesired Station 2 Name: DKTFL Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 18 km:337.8 mi:209.9 bear:107.7

Undesired Station 3 Name: DKMOHTV Station Type: HDTV
City: KINGMAN State: AZ Channel: 19 km:118.5 mi: 73.6 bear:148.7

Undesired Station 4 Name: DKPHOTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 17 km:398.1 mi:247.4 bear:135.9

Undesired Station 5 Name: DKAET Station Type: HDTV
City: PHOENIX State: AZ Channel: 29 km:398.0 mi:247.3 bear:136.0

Undesired Station 6 Name: DKSZTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 23 km:398.1 mi:247.3 bear:135.9

Undesired Station 7 Name: KNXVTV Station Type: NTSC
City: PHOENIX State: AZ Channel: 15 km:398.1 mi:247.4 bear:136.0

Undesired Station 8 Name: DKNXVTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 14 km:398.1 mi:247.4 bear:136.0

Undesired Station 9 Name: DKSWT Station Type: HDTV
City: YUMA State: AZ Channel: 16 km:321.9 mi:200.0 bear:176.4

Undesired Station 10 Name: KGET Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 17 km:338.5 mi:210.3 bear:261.5

Undesired Station 11 Name: KEROTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 23 km:325.2 mi:202.0 bear:261.4

Undesired Station 12 Name: KBAKTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 29 km:324.9 mi:201.9 bear:261.3

Undesired Station 13 Name: DKVYE Station Type: HDTV
City: EL CENTRO State: CA Channel: 22 km:322.2 mi:200.2 bear:176.5

Undesired Station 14 Name: KVPT Station Type: NTSC
City: FRESNO State: CA Channel: 18 km:389.7 mi:242.2 bear:284.4

Undesired Station 15 Name: DKSEE Station Type: HDTV
City: FRESNO State: CA Channel: 16 km:389.8 mi:242.2 bear:284.4

Undesired Station 16 Name: KWHYTV Station Type: NTSC
City: LOS ANGELE State: CA Channel: 22 km:334.9 mi:208.1 bear:236.1

Undesired Station 17 Name: KSCI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 18 km:310.7 mi:193.1 bear:231.8

Undesired Station 18 Name: KZKI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 30 km:310.8 mi:193.1 bear:231.8

Undesired Station 19 Name: DKVMD Station Type: HDTV
City: TWENTYNINE State: CA Channel: 23 km:225.1 mi:139.9 bear:208.2

Undesired Station 20 Name: DKINC Station Type: HDTV
City: LAS VEGAS State: NV Channel: 16 km: .0 mi: .0 bear: 41.5

Undesired Station 21 Name: DKSGITV Station Type: HDTV
City: CEDAR CITY State: UT Channel: 14 km:249.8 mi:155.2 bear: 44.1

Stations that actually do contribute to interference.

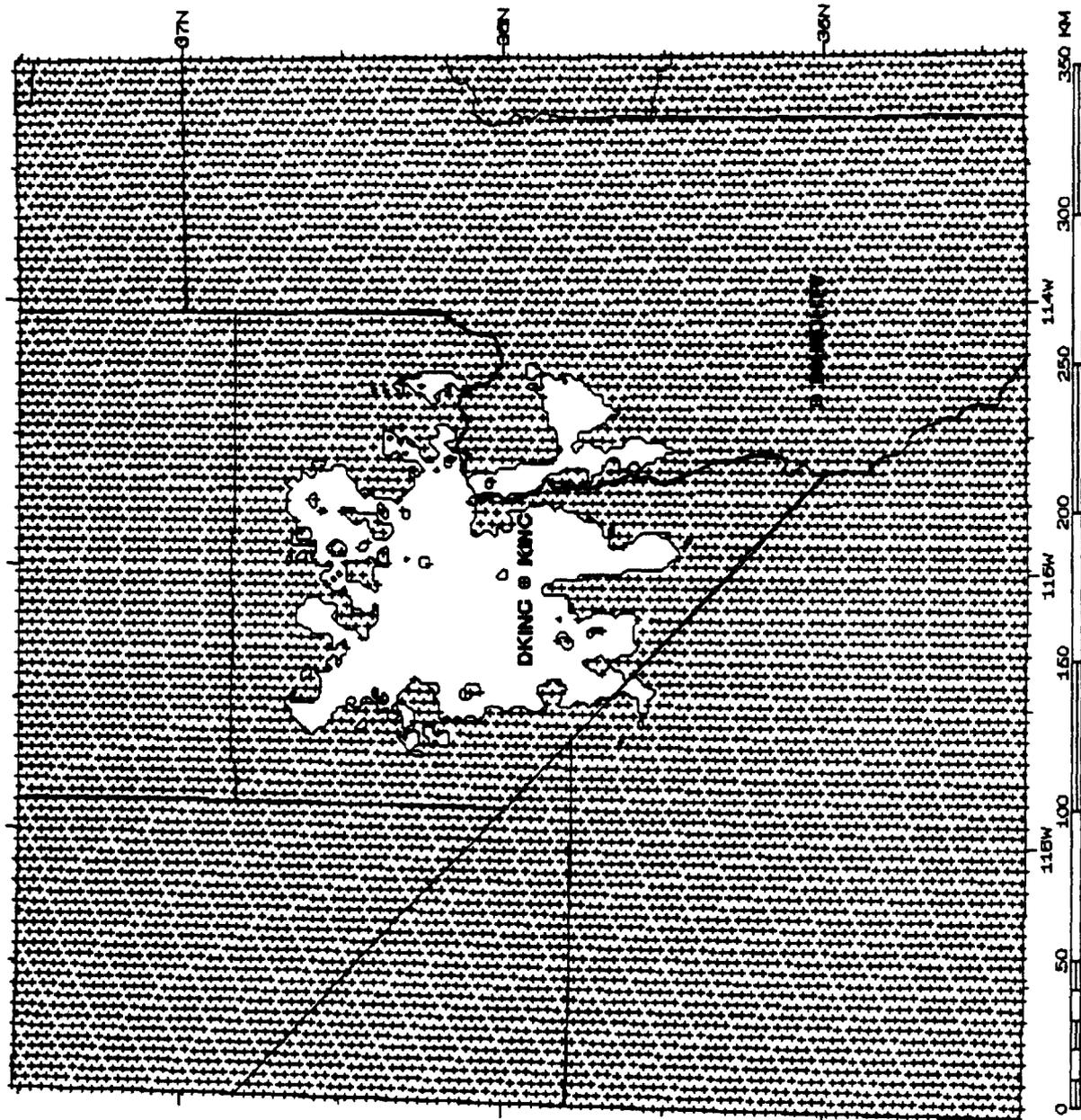
Name	NTSC Int	HDTV Int
DKMOHTV	.00 sq km	15.64 sq km

TABLE A-3 (cont'd)

DKINC	.00 sq km	180.18 sq km
Signal below minimum		
Area:	114080. sq km	
Population:	199000.	
Households:	72000.	
Interference		
Area:	200. sq km	
Population:	0.	
Households:	0.	
No Interference		
Area:	8300. sq km	
Population:	764000.	
Households:	303000.	

FIGURE A-3
KING-CHANNEL 15
WITHOUT KTNV CHANNEL 17 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KING W/O DKTNV17
 21-APR-87 22:41:13
 RS209AUG2097B.qub



Signal to Interference ratio

- No Interference
 Area: 8300 sq km
 Population: 784000
 Households: 303000
- Interference
 Area: 200 sq km
 Population: 0
 Households: 0
- Signal below minimum
 Area: 114060 sq km
 Population: 1000000
 Households: 720000

TABLE A-4
KINC-CHANNEL 16 DTV
WITH KTNV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097C.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097C.desc

Desired Station Name: DKINC Station Type: HDTV
City: LAS VEGAS State: NV Channel: 16

Undesired Station 1 Name: DKPHOTV Station Type: HDTV
City: PHOENIX State: AZ Channel: 17 km:398.1 mi:247.4 bear:135.9

Undesired Station 2 Name: KNXVTV Station Type: NTSC
City: PHOENIX State: AZ Channel: 15 km:398.1 mi:247.4 bear:136.0

Undesired Station 3 Name: DKSWT Station Type: HDTV
City: YUMA State: AZ Channel: 16 km:321.9 mi:200.0 bear:176.4

Undesired Station 4 Name: KGET Station Type: NTSC
City: BAKERSFIELD State: CA Channel: 17 km:338.5 mi:210.3 bear:261.5

Undesired Station 5 Name: DKSEE Station Type: HDTV
City: FRESNO State: CA Channel: 16 km:389.8 mi:242.2 bear:284.4

Undesired Station 6 Name: DKTNV Station Type: HDTV
City: LAS VEGAS State: NV Channel: 17 km: .0 mi: .0 bear:218.6

Undesired Station 7 Name: KINC Station Type: NTSC
City: LAS VEGAS State: NV Channel: 15 km: .0 mi: .0 bear: 41.5

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKSWT	.00 sq km	3.14 sq km
DKTNV	.00 sq km	489.54 sq km
KINC	227.28 sq km	.00 sq km

Signal below minimum
Area: 112700. sq km
Population: 199000.
Households: 71000.

Interference
Area: 500. sq km
Population: 5000.
Households: 2000.

No Interference
Area: 9370. sq km
Population: 759000.
Households: 302000.

FIGURE A-4
KINC-CHANNEL 16 DTV
WITH KTNV CHANNEL 17 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 DKINC W/ DKTNV17
 21-APR-97 22:41:13
 RS200AUG2097C.qies

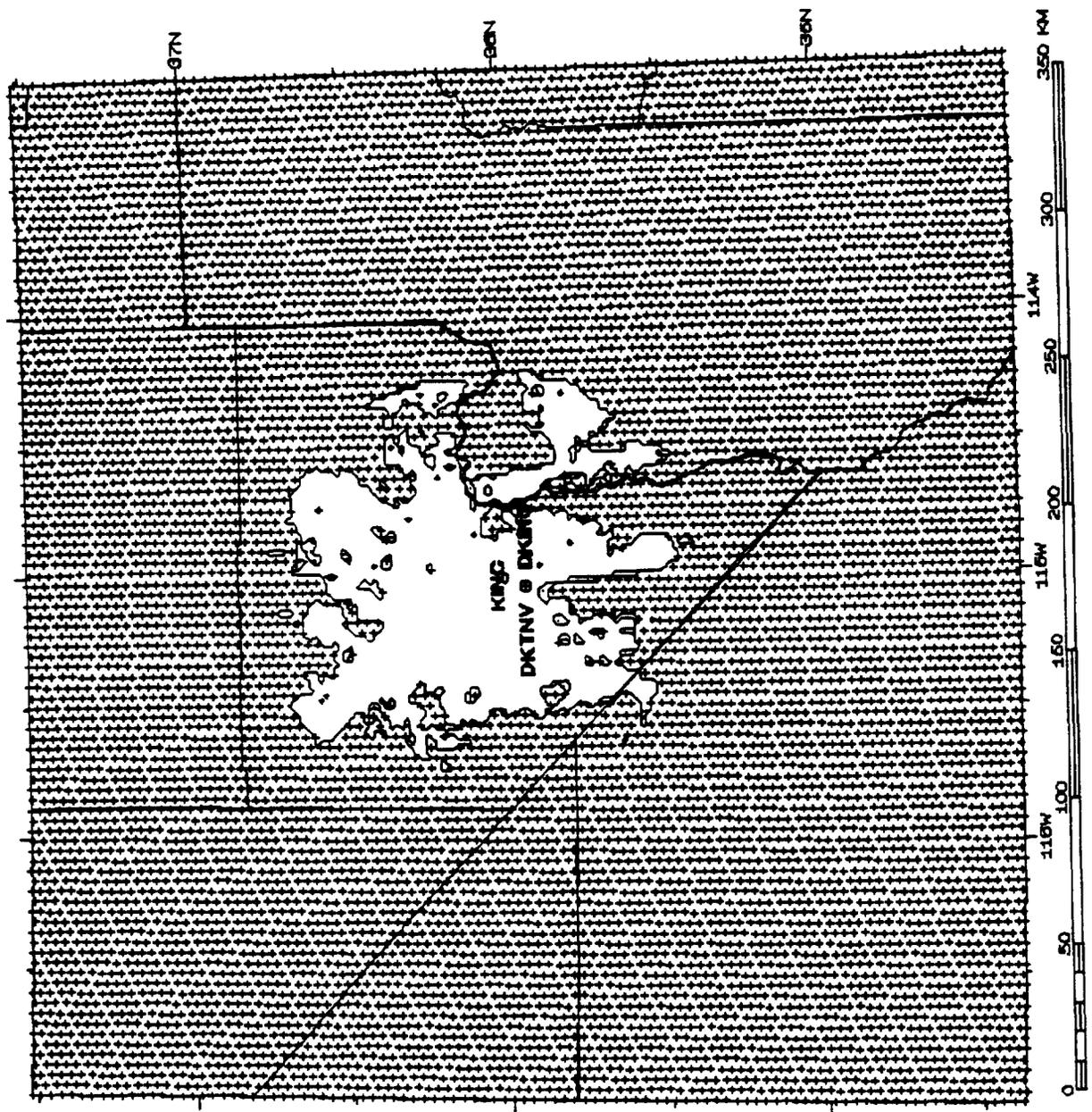


TABLE A-5
KINC-CHANNEL 16 DTV
WITHOUT KTNV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097D.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097D.desc

Desired Station Name: DKINC Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 16

Undesired Station 1 Name: DKPHOTV Station Type: HDTV
 City: PHOENIX State: AZ Channel: 17 km:398.1 mi:247.4 bear:135.9

Undesired Station 2 Name: KNXVTV Station Type: NTSC
 City: PHOENIX State: AZ Channel: 15 km:398.1 mi:247.4 bear:136.0

Undesired Station 3 Name: DKSWT Station Type: HDTV
 City: YUMA State: AZ Channel: 16 km:321.9 mi:200.0 bear:176.4

Undesired Station 4 Name: KGET Station Type: NTSC
 City: BAKERSFIEL State: CA Channel: 17 km:338.5 mi:210.3 bear:261.5

Undesired Station 5 Name: DKSEE Station Type: HDTV
 City: FRESNO State: CA Channel: 16 km:389.8 mi:242.2 bear:284.4

Undesired Station 6 Name: KINC Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 15 km: .0 mi: .0 bear: 41.5

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKSWT	.00 sq km	3.14 sq km
KINC	227.28 sq km	.00 sq km

Signal below minimum

Area: 112700. sq km
 Population: 199000.
 Households: 71000.

Interference

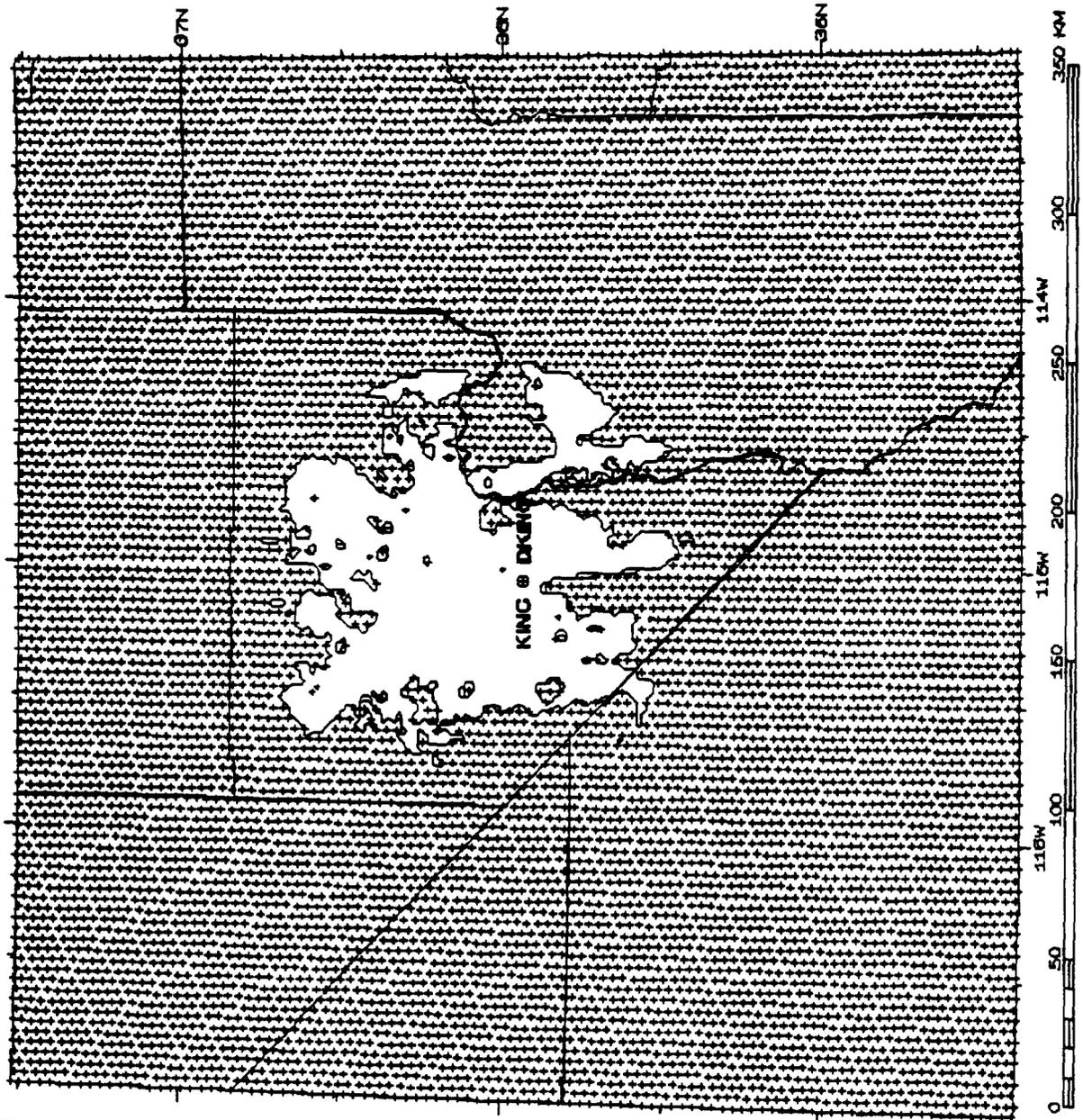
Area: 230. sq km
 Population: 0.
 Households: 0.

No Interference

Area: 9640. sq km
 Population: 765000.
 Households: 303000.

**FIGURE A-5
KING-CANNEL 16 DTV
WITHOUT KTNV CHANNEL 17 DTV**

TA Services
 WARMUS & ASSOCIATES, INC.
 DKINC W/O DKTNV17
 21-APR-87 22:41:13
 RS200Aug2097D.qdas



Signal to Interference ratio

- NO Interference
 Area: 9640, sq km
 Population: 785000
 Households: 303000
- ▣ Interference
 Area: 230, sq km
 Population: 0
 Households: 0
- ▤ Signal below minimum
 Area: 112700, sq km
 Population: 100000
 Households: 71000

TABLE A-6
KUPN-CHANNEL 21
WITH KTNV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097E.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097E.desc

Desired Station Name: KUPN Station Type: NTSC
City: LAS VEGAS State: NV Channel: 21

Undesired Station 1 Name: DKNZTV Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 22 km:337.0 mi:209.4 bear:109.0

Undesired Station 2 Name: DKTFL Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 18 km:337.0 mi:209.4 bear:109.0

Undesired Station 3 Name: DKCFG Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 28 km:319.6 mi:198.6 bear:104.5

Undesired Station 4 Name: DKMOHTV Station Type: HDTV
City: KINGMAN State: AZ Channel: 19 km:122.9 mi: 76.4 bear:151.7

Undesired Station 5 Name: DKMCC Station Type: HDTV
City: LAKE HAVAS State: AZ Channel: 35 km:177.8 mi:110.5 bear:155.3

Undesired Station 6 Name: DKUSK Station Type: HDTV
City: PRESCOTT State: AZ Channel: 25 km:300.2 mi:186.5 bear:118.4

Undesired Station 7 Name: DKGET Station Type: HDTV
City: BAKERSFIEL State: CA Channel: 25 km:342.7 mi:212.9 bear:260.5

Undesired Station 8 Name: KEROTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 23 km:329.4 mi:204.7 bear:260.3

Undesired Station 9 Name: KBAKTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 29 km:329.1 mi:204.5 bear:260.3

Undesired Station 10 Name: DKVYE Station Type: HDTV
City: EL CENTRO State: CA Channel: 22 km:328.9 mi:204.4 bear:177.1

Undesired Station 11 Name: KVPT Station Type: NTSC
City: FRESNO State: CA Channel: 18 km:391.2 mi:243.1 bear:283.4

Undesired Station 12 Name: KSEE Station Type: NTSC
City: FRESNO State: CA Channel: 24 km:391.2 mi:243.1 bear:283.4

Undesired Station 13 Name: DKNBC Station Type: HDTV
City: LOS ANGELE State: CA Channel: 36 km:341.3 mi:212.1 bear:235.4

Undesired Station 14 Name: KWHYTV Station Type: NTSC
City: LOS ANGELE State: CA Channel: 22 km:341.3 mi:212.1 bear:235.5

Undesired Station 15 Name: KCET Station Type: NTSC
City: LOS ANGELE State: CA Channel: 28 km:341.2 mi:212.0 bear:235.4

Undesired Station 16 Name: DKMEXTV Station Type: HDTV
City: LOS ANGELE State: CA Channel: 35 km:341.3 mi:212.1 bear:235.4

Undesired Station 17 Name: KMIRTV Station Type: NTSC
City: PALM SPRIN State: CA Channel: 36 km:271.0 mi:168.4 bear:209.0

Undesired Station 18 Name: KSCI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 18 km:317.5 mi:197.3 bear:231.2

Undesired Station 19 Name: KVCRTV Station Type: NTSC
City: SAN BERNAR State: CA Channel: 24 km:307.4 mi:191.0 bear:223.1

Undesired Station 20 Name: DKVMD Station Type: HDTV
City: TWENTYNINE State: CA Channel: 23 km:232.7 mi:144.6 bear:208.1

Undesired Station 21 Name: DKMPH Station Type: HDTV
City: VISALIA State: CA Channel: 28 km:354.3 mi:220.1 bear:283.1

Undesired Station 22 Name: DKVVUTV Station Type: HDTV
City: HENDERSON State: NV Channel: 24 km: .0 mi: .0 bear: 96.0

Undesired Station 23 Name: DKTNV Station Type: HDTV

TABLE A-6 (cont'd)

City: LAS VEGAS State: NV Channel: 17 km: 7.6 mi: 4.7 bear:204.9
 Undesired Station 24 Name: DKUPN Station Type: HDTV

City: LAS VEGAS State: NV Channel: 20 km: .0 mi: .0 bear:227.2
 Undesired Station 25 Name: DKSGITV Station Type: HDTV

City: CEDAR CITY State: UT Channel: 14 km:242.7 mi:150.8 bear: 44.8
 Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKMOHTV	.00 sq km	9.30 sq km
DKVVUTV	.00 sq km	37.49 sq km
DKTNV	.00 sq km	206.39 sq km
DKUPN	.00 sq km	115.02 sq km

Signal below minimum

Area: 113990. sq km

Population: 188000.

Households: 68000.

Interference

Area: 310. sq km

Population: 0.

Households: 0.

No Interference

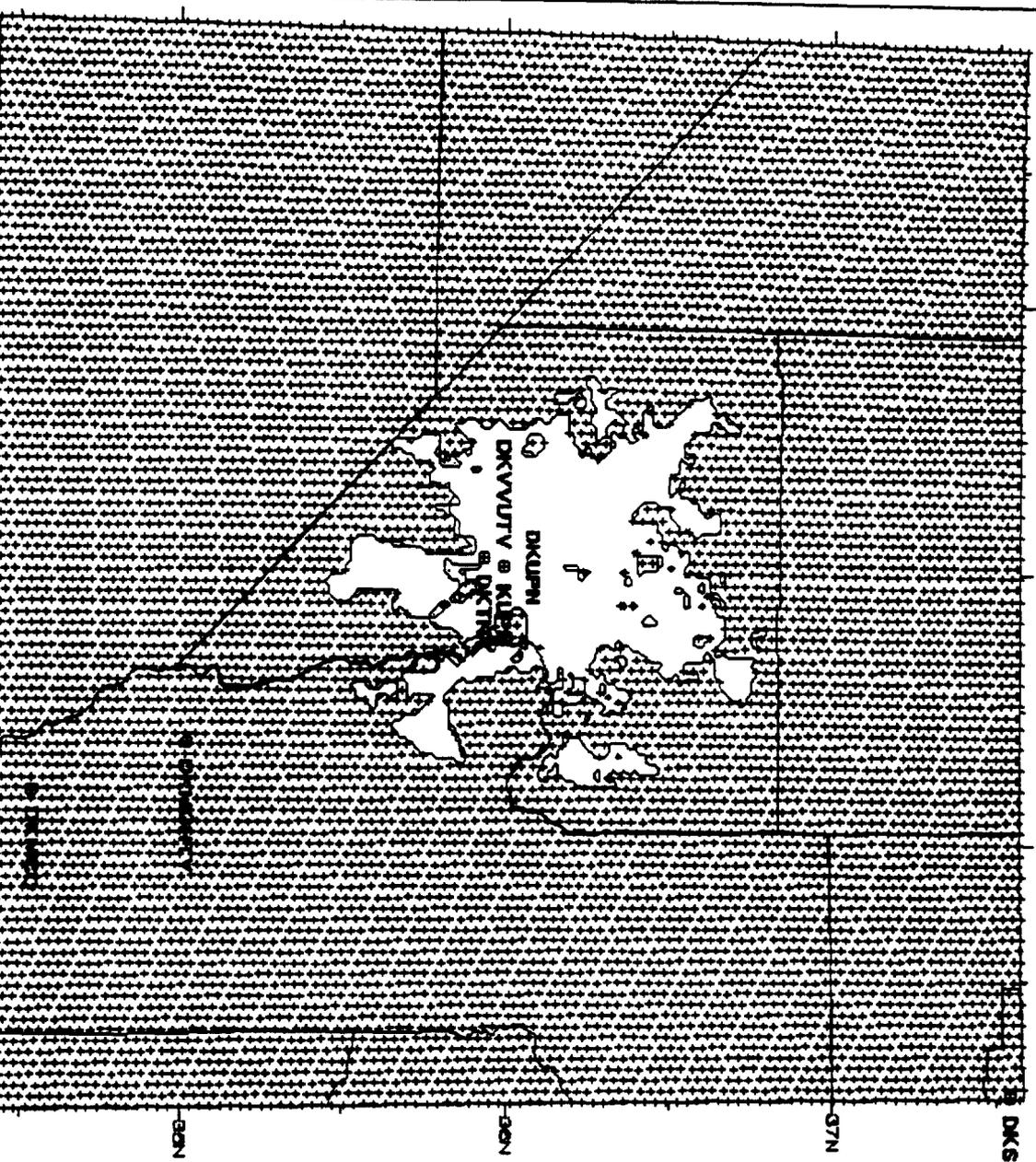
Area: 8270. sq km

Population: 764000.

Households: 290000.

FIGURE A-6
 KUPN-CHANNEL 21
 WITH KTNV CHANNEL 17 DTV

DKSGATY A Services
 WARREN & ASSOCIATES, INC.
 KUPN W/ DKTNV17
 21-AP-97 2241:13
 RS209AUG2097E:quas



- Signal to Interference ratio
- No Interference
 Area: 8270, sq km
 Population: 784000,
 Households: 290000.
 - Interference
 Area: 310, sq km
 Population: 0,
 Households: 0.
 - ▣ Signal below minimum
 Area: 113680, sq km
 Population: 188000,
 Households: 69000.

TABLE A-7
KUPN-CHANNEL 21
WITHOUT KTV CHANNEL 17 DTV

Message Segment (/taservice/restart/RS209Aug2097F.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097F.desc

Desired Station Name: KUPN Station Type: NTSC
City: LAS VEGAS State: NV Channel: 21

Undesired Station 1 Name: DKNZTV Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 22 km:337.0 mi:209.4 bear:109.0

Undesired Station 2 Name: DKTFM Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 18 km:337.0 mi:209.4 bear:109.0

Undesired Station 3 Name: DKCFG Station Type: HDTV
City: FLAGSTAFF State: AZ Channel: 28 km:319.6 mi:198.6 bear:104.5

Undesired Station 4 Name: DKMOHTV Station Type: HDTV
City: KINGMAN State: AZ Channel: 19 km:122.9 mi: 76.4 bear:151.7

Undesired Station 5 Name: DKMCC Station Type: HDTV
City: LAKE HAVAS State: AZ Channel: 35 km:177.8 mi:110.5 bear:155.3

Undesired Station 6 Name: DKUSK Station Type: HDTV
City: PRESCOTT State: AZ Channel: 25 km:300.2 mi:186.5 bear:118.4

Undesired Station 7 Name: DKGET Station Type: HDTV
City: BAKERSFIEL State: CA Channel: 25 km:342.7 mi:212.9 bear:260.5

Undesired Station 8 Name: KEROTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 23 km:329.4 mi:204.7 bear:260.3

Undesired Station 9 Name: KBAKTV Station Type: NTSC
City: BAKERSFIEL State: CA Channel: 29 km:329.1 mi:204.5 bear:260.3

Undesired Station 10 Name: DKVYE Station Type: HDTV
City: EL CENTRO State: CA Channel: 22 km:328.9 mi:204.4 bear:177.1

Undesired Station 11 Name: KVPT Station Type: NTSC
City: FRESNO State: CA Channel: 18 km:391.2 mi:243.1 bear:283.4

Undesired Station 12 Name: KSEE Station Type: NTSC
City: FRESNO State: CA Channel: 24 km:391.2 mi:243.1 bear:283.4

Undesired Station 13 Name: DKNBC Station Type: HDTV
City: LOS ANGELE State: CA Channel: 36 km:341.3 mi:212.1 bear:235.4

Undesired Station 14 Name: KWHYTV Station Type: NTSC
City: LOS ANGELE State: CA Channel: 22 km:341.3 mi:212.1 bear:235.5

Undesired Station 15 Name: KCET Station Type: NTSC
City: LOS ANGELE State: CA Channel: 28 km:341.2 mi:212.0 bear:235.4

Undesired Station 16 Name: DKMEXTV Station Type: HDTV
City: LOS ANGELE State: CA Channel: 35 km:341.3 mi:212.1 bear:235.4

Undesired Station 17 Name: KMIRTV Station Type: NTSC
City: PALM SPRIN State: CA Channel: 36 km:271.0 mi:168.4 bear:209.0

Undesired Station 18 Name: KSCI Station Type: NTSC
City: SAN BERNAR State: CA Channel: 18 km:317.5 mi:197.3 bear:231.2

Undesired Station 19 Name: KVCRTV Station Type: NTSC
City: SAN BERNAR State: CA Channel: 24 km:307.4 mi:191.0 bear:223.1

Undesired Station 20 Name: DKVMD Station Type: HDTV
City: TWENTYNINE State: CA Channel: 23 km:232.7 mi:144.6 bear:208.1

Undesired Station 21 Name: DKMPH Station Type: HDTV
City: VISALIA State: CA Channel: 28 km:354.3 mi:220.1 bear:283.1

Undesired Station 22 Name: DKVVUTV Station Type: HDTV
City: HENDERSON State: NV Channel: 24 km: .0 mi: .0 bear: 96.0

Undesired Station 23 Name: DKUPN Station Type: HDTV

TABLE A-7 (cont'd)

City: LAS VEGAS State: NV Channel: 20 km: .0 mi: .0 bear:227.2

Undesired Station 24 Name: DKSGITV Station Type: HDTV

City: CEDAR CITY State: UT Channel: 14 km:242.7 mi:150.8 bear: 44.8

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKMOHTV	.00 sq km	9.30 sq km
DKVVUTV	.00 sq km	37.49 sq km
DKUPN	.00 sq km	115.02 sq km

Signal below minimum

Area: 113990. sq km

Population: 188000.

Households: 68000.

Interference

Area: 130. sq km

Population: 0.

Households: 0.

No Interference

Area: 8450. sq km

Population: 764000.

Households: 290000.