

***APPLICATION FOR CONSTRUCTION PERMIT
DISPLACEMENT***

**K11XT-D/K27GZ-D – MARIPOSA, CALIFORNIA
FACILITY ID: 67894**

DIGITAL NETWORKS–SOUTHWEST, LLC

SEPTEMBER 2021

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9.14.2021

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APPLICATION FOR CONSTRUCTION PERMIT - DISPLACEMENT

The following engineering statement and attached exhibits have been prepared for **Digital Networks-Southwest, LLC** ("Southwest"), licensee of digital low power television station K11XT-D/K27GZ-D at Mariposa, California, and are in support of their application for construction permit for displacement of that facility.¹ The current license for the facility is under LMS File 0000121605. This application seeks displacement relief, and to physically relocate the transmitter facility in accordance with Commission Rules and Policies.

The licensed facility is authorized to operate on television channel 11 with a maximum effective radiated power of 0.1 kW at a center of radiation of 1307.2 meters above mean sea level, 26.5 meters above ground level, using a composite directional antenna. The proposed facility would operate on television channel 29 with a maximum effective radiated power of 2 kW at a center of radiation of 125.3 meters above mean sea level, 36.6 meters above ground level, also using a composite directional antenna. The proposed composite directional antenna consists of two Scala PR-TV antennas, one of which is oriented at 100 degrees true, and the other at 330 degrees true. Equal power division is to be employed between the two antennas comprising the array.

The map in Exhibit E-1 is a comparison between the licensed and proposed technical parameters. This map demonstrates that the proposed 51 dBu F(50,90) service contour overlaps the licensed 48 dBu F(50,90) service contour. Additionally, this map also demonstrates that the proposed transmitter site is located within 30 miles of the licensed transmitter site.

¹ The Facility ID for K27GZ/K11XT at Mariposa, California is 67894.

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Displacement is being sought due to the change in the facilities for KGMC at Merced, California. The Facility ID for KGMC at Merced, California is 58608. The changes in the technical parameters for that station were authorized by construction permit under LMS File No. 0000137221. These technical parameters were licensed under LMS File No. 0000156689.

Exhibit E-2 is the output from *TVStudy* for the proposed facility on channel 29. This study demonstrates that there are no outgoing interference check failures to any proposed or authorized facility on channel 29. This study was performed at a cell size resolution of 1.0 kilometers, and a profile spacing increment of 1.0 kilometer.

The proposed facility would not constitute a significant environmental impact, and is exempt from environmental processing. The proposed antenna would be mounted to an existing tower that is registered with the Commission. The addition of the antenna to this tower would not increase the already existing environmental impact present from the tower.

In addition, the proposed facility would not result in human exposure at ground level to radiofrequency radiation in excess of the Commission's safety standards. Using the equations in Supplement A of *OET Bulletin 65*, the calculated worst-case power density at ground level assuming a downward radiation relative field of 0.3 is $4.46 \mu\text{W}/\text{cm}^2$. This value is substantially below the upper limit of the uncontrolled environment condition. Southwest certifies it will coordinate with all other users of the site to ensure that workers and other personnel are not exposed to levels of radiofrequency radiation in excess of the applicable safety standards.

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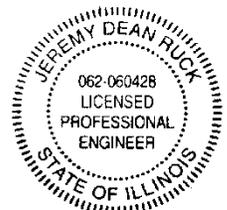
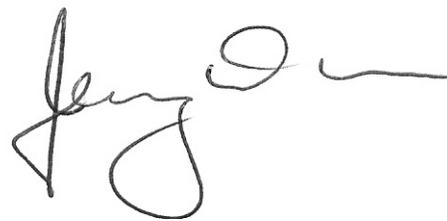
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Coordination activities will include, but are not necessarily limited to, a reduction in transmitter power or cessation of operation.

The proposed facility complies with the provisions of Section 74.709 of the Commission's Rules. No land mobile protection issues have been identified based on the tables in that section of the rules, or on the output of *TVStudy*. The proposed facility also complies with Sections 74.793(e)-(h) and 74.793(h) of the Commission's Rules. The proposed facility is not located within the vicinity of the Table Mountain receiving zone, or in the vicinity of the West Virginia quiet zone area. The proposed facility is located 114.1 kilometers from the Commission's Livermore, California monitoring station. The predicted field strength at the Livermore station would be less than 10 mV/m as required under Section 73.1030(c) of the Commission's Rules.

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2021

Jeremy D. Ruck, PE
September 14, 2021

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K27GZ/K11XT-D

0000121605
Latitude: 37-33-32.80 N
Longitude: 120-04-32.50 W
ERP: 0.10 kW
Channel: 11
Frequency: 201.0 MHz
AMSL Height: 1307.2 m
Horiz. Pattern: Directional
Prop Model: FCC Contour

K11XT-D.X

PROPOSED
Latitude: 37-39-46.20 N
Longitude: 120-27-33.80 W
ERP: 2.00 kW
Channel: 29
Frequency: 563.0 MHz
AMSL Height: 125.3 m
Horiz. Pattern: Directional
Prop Model: FCC Contour

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-  Licensed 48 dBu F(50,90) Service Contour
-  Proposed 51 dBu F(50,90) Service Contour
-  Area of Contour Overlap
-  Licensed Site 30-mile Radius

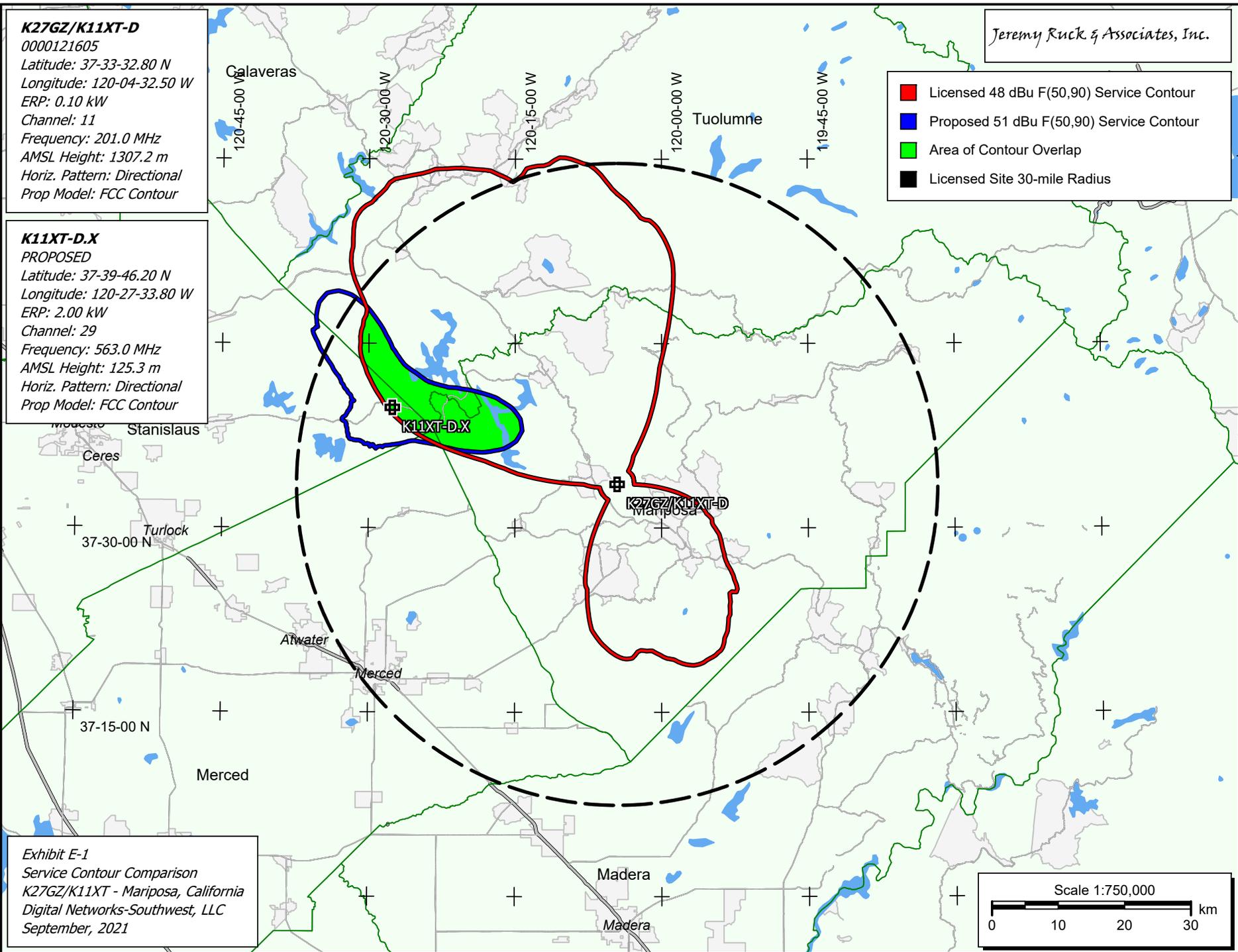


Exhibit E-1
Service Contour Comparison
K27GZ/K11XT - Mariposa, California
Digital Networks-Southwest, LLC
September, 2021

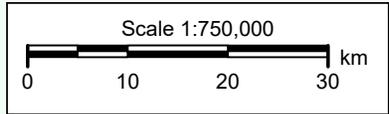


Exhibit E-2 - TVStudy Interference Study

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: K11XT CH 29 ATC 41148 125.3 m AMSL 2.0 kW PR-TV x2 1@100 1@330, Model: Longley-Rice

Start: 2021.09.14 11:21:00

Study created: 2021.09.14 11:21:00

Study build station data: LMS TV 2021-09-14

Proposal: K27GZ D29 LD LIC MARIPOSA, CA
File number: BLANK0000121605
Facility ID: 67894
Station data: User record
Record ID: 379
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|---------|------|-----|--------|--------------------------|--------------------|----------|
| No | KQRM-LD | D28z | LD | LIC | PETALUMA, CA | BLANK0000068353 | 173.8 km |
| No | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 162.2 |
| No | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 175.6 |
| No | KMPH-TV | D28 | DT | LIC | VISALIA, CA | BLCDT20030204AGN | 178.4 |
| No | KMPH-TV | D28 | DT | CP | VISALIA, CA | BLANK0000035647 | 178.4 |
| No | KKPM-CD | D28+ | DC | APP | YUBA CITY, CA | BLANK0000113364 | 146.3 |
| No | KKPM-CD | D28+ | DC | LIC | YUBA CITY, CA | BLDTA20100914AHF | 208.4 |
| No | KBFX-CD | D29 | DC | LIC | BAKERSFIELD, CA | BLTTA20101018ACF | 296.9 |
| No | K29OD-D | D29 | LD | CP | BUTTONWILLOW, CA | BLANK0000157113 | 268.6 |
| No | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 |
| Yes | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 65.5 |
| Yes | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | 136.7 |
| No | KFTR-DT | D29 | DT | LIC | ONTARIO, CA | BLCDT20100401AFY | 438.4 |
| No | KFTR-DT | D29 | DT | CP | ONTARIO, CA | BLANK0000035667 | 438.4 |
| No | K26PQ-D | D29z | LD | APP | OROVILLE, CA | BLANK0000072216 | 222.6 |
| Yes | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 175.6 |
| Yes | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 175.6 |
| No | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |
| No | KQMM-CD | D29 | DC | LIC | SANTA MARIA, CA | BLDTL20080423AEG | 307.0 |
| No | K46HL-D | D29 | LD | LIC | SUSANVILLE, ETC., CA | BLANK0000063051 | 309.5 |
| No | K29ES-D | D29 | LD | LIC | CARSON CITY, NV | BLDTT20091105AAY | 182.5 |
| No | K29MG-D | D29 | LD | LIC | HAWTHORNE, NV | BLANK0000071515 | 172.6 |
| No | K29BN-D | D29 | LD | LIC | SILVER SPRINGS, ETC., NV | BLDTT20120524AIJ | 226.1 |
| Yes | KFSN-TV | D30 | DT | LIC | FRESNO, CA | BLANK0000081720 | 111.6 |
| No | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 65.5 |
| No | K29AB | D30 | LD | CP | MONTEREY, CA | BLANK0000150747 | 136.7 |
| No | KCVU | D30 | DT | LIC | PARADISE, CA | BLANK0000141547 | 277.6 |
| No | KAHC-LD | D30 | LD | LIC | SACRAMENTO, CA | BLANK0000114246 | 141.1 |
| No | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 175.6 |
| No | K30FS-D | D30 | LD | LIC | HAWTHORNE, NV | BLDTT20101122AJR | 173.0 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Mask: Full Service
Latitude: 37 39 46.20 N (NAD83)
Longitude: 120 27 33.80 W
Height AMSL: 125.3 m
HAAT: -45.8 m
Peak ERP: 2.00 kW
Antenna: SCA PR-TV x2 Array 1@100 1@330 0.0 deg

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Exhibit E-2 - TVStudy Interference Study

Elev Pattn: Generic

50.2 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|----------|----------|
| 0.0 deg | 0.082 kW | -161.2 m | 9.4 km |
| 45.0 | 0.020 | -136.9 | 6.7 |
| 90.0 | 1.34 | -170.1 | 19.0 |
| 135.0 | 0.040 | -41.2 | 7.9 |
| 180.0 | 0.012 | 28.8 | 5.9 |
| 225.0 | 0.014 | 43.5 | 7.3 |
| 270.0 | 0.012 | 38.8 | 6.5 |
| 315.0 | 0.791 | 34.2 | 17.5 |

Distance to Canadian border: 1200.1 km

Distance to Mexican border: 626.1 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 273.9 degrees Distance: 114.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 73.6 degrees Distance: 1341.7 km

Study cell size: 1.00 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 BDISDTL20120530AJM CP scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | | |
|--------------------|--------------|-----------------|-----------------|-------------------|-------------------|--------------------|----------|---------|------|------|
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | | | | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 65.5 km | | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 162.5 | | | |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.7 | | | |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 271.0 | | | |
| | K29AB | D30 | LD | CP | MONTEREY, CA | BLANK0000150747 | 71.5 | | | |
| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX | | | | | |
| | 1973.4 | 126,395 | 1969.4 | 126,395 | 1851.7 | 124,299 | 1851.7 | 124,299 | 0.00 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | Unique IX, after | | | | | |
| K27GZ D29 LD LIC | | 1.0 | 0 | 0.0 | 0 | | | | | |
| KMSG-LD D29 LD LIC | | 117.7 | 2,096 | 117.7 | 2,096 | 116.7 | 2,096 | | | |

Interference to BDISDTL20120530AJM CP scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | | |
|--------------------|--------------|-----------------|-----------------|-------------------|-------------------|--------------------|----------|---------|------|------|
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | | | | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 65.5 km | | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 162.5 | | | |
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT198111241C | 71.5 | | | |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.7 | | | |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 271.0 | | | |
| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX | | | | | |
| | 1973.4 | 126,395 | 1969.4 | 126,395 | 1834.4 | 123,292 | 1834.4 | 123,292 | 0.00 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | Unique IX, after | | | | | |
| K27GZ D29 LD LIC | | 1.0 | 0 | 0.0 | 0 | | | | | |
| KMSG-LD D29 LD LIC | | 117.7 | 2,096 | 117.7 | 2,096 | 116.7 | 2,096 | | | |

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Exhibit E-2 - TVStudy Interference Study

K29AB D29 LD LIC 17.3 1,007 17.3 1,007 17.3 1,007

Interference to BLTT19811124IC LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.3 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 237.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 71.5 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 |

| | | | | | |
|--|---------------------|-------------------|-------------------|-------------------|----------------|
| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| | 9737.9 1,124,707 | 7816.5 799,094 | 7484.5 760,820 | 7483.5 760,820 | 0.01 0.00 |

| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|-------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 2.0 | 0 | | 1.0 0 |
| KMMD-CD D28 DC LIC | 147.4 | 26,295 | 128.4 21,296 | 128.4 21,296 |
| KBCW D28 DT LIC | 13.0 | 2,016 | 0.0 0 | 0.0 0 |
| KMSG-LD D29 LD LIC | 27.0 | 4 | 20.0 4 | 19.0 4 |
| KPIX-TV D29 DT CP | 177.7 | 16,971 | 151.7 9,959 | 151.7 9,959 |
| KQMM-CD D29 DC CP | 1.0 | 3 | 0.0 0 | 0.0 0 |
| KQED D30 DT LIC | 13.0 | 2,016 | 0.0 0 | 0.0 0 |

Interference to BLTT19811124IC LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|--------------------|----------|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 71.5 |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.3 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 237.0 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 |

| | | | | | |
|--|---------------------|-------------------|-------------------|-------------------|----------------|
| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| | 9737.9 1,124,707 | 7816.5 799,094 | 7476.5 760,805 | 7475.5 760,805 | 0.01 0.00 |

| Undesired | | Total IX | Unique IX, before | Unique IX, after |
|--------------------|-------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 2.0 | 0 | | 1.0 0 |
| KMMD-CD D28 DC LIC | 147.4 | 26,295 | 126.4 21,296 | 126.4 21,296 |
| KBCW D28 DT LIC | 13.0 | 2,016 | 0.0 0 | 0.0 0 |
| KMSG-LD D29 LD LIC | 27.0 | 4 | 14.0 4 | 13.0 4 |
| K29KS-D D29 LD CP | 17.0 | 15 | 8.0 15 | 8.0 15 |
| KPIX-TV D29 DT CP | 177.7 | 16,971 | 150.7 9,959 | 150.7 9,959 |
| KQMM-CD D29 DC CP | 1.0 | 3 | 0.0 0 | 0.0 0 |
| KQED D30 DT LIC | 13.0 | 2,016 | 0.0 0 | 0.0 0 |

Interference to BLTT19811124IC LIC scenario 3

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 139.3 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 237.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 71.5 |

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Exhibit E-2 - TVStudy Interference Study

| | | | | | | | | | |
|--------------------|-----------|-----------------|----------|-------------------|-----------------|------------------|---------|----------------|------|
| KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7479.5 | 760,820 | 7478.5 | 760,820 | 0.01 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27GZ D29 LD LIC | | 2.0 | 0 | | | 1.0 | 0 | | |
| KMMD-CD D28 DC LIC | | 147.4 | 26,295 | 129.4 | 21,296 | 129.4 | 21,296 | | |
| KBCW D28 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |
| KMSG-LD D29 LD LIC | | 27.0 | 4 | 20.0 | 4 | 19.0 | 4 | | |
| KPIX-TV D29 DT LIC | | 181.7 | 16,971 | 156.6 | 9,959 | 156.6 | 9,959 | | |
| KQMM-CD D29 DC CP | | 1.0 | 3 | 0.0 | 0 | 0.0 | 0 | | |
| KQED D30 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |

Interference to BLTT19811124IC LIC scenario 4

| | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------------|-----------|-----------------|----------|-------------------|-------------------|--------------------|----------|----------------|------|
| Desired: | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | | | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km | | |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 | | |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 | | |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 71.5 | | |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 139.3 | | |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 237.0 | | |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7471.5 | 760,805 | 7470.5 | 760,805 | 0.01 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27GZ D29 LD LIC | | 2.0 | 0 | | | 1.0 | 0 | | |
| KMMD-CD D28 DC LIC | | 147.4 | 26,295 | 127.4 | 21,296 | 127.4 | 21,296 | | |
| KBCW D28 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |
| KMSG-LD D29 LD LIC | | 27.0 | 4 | 14.0 | 4 | 13.0 | 4 | | |
| K29KS-D D29 LD CP | | 17.0 | 15 | 8.0 | 15 | 8.0 | 15 | | |
| KPIX-TV D29 DT LIC | | 181.7 | 16,971 | 155.6 | 9,959 | 155.6 | 9,959 | | |
| KQMM-CD D29 DC CP | | 1.0 | 3 | 0.0 | 0 | 0.0 | 0 | | |
| KQED D30 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |

Interference to BLTT19811124IC LIC scenario 5

| | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------------|-----------|-----------------|----------|-------------------|-------------------|-------------------|----------|----------------|------|
| Desired: | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | | | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km | | |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 | | |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 | | |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.3 | | |
| | KQMM-CD | D29 | DC | LIC | SANTA MARIA, CA | BLDTL20080423AEG | 237.0 | | |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 71.5 | | |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7484.5 | 760,820 | 7483.5 | 760,820 | 0.01 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27GZ D29 LD LIC | | 2.0 | 0 | | | 1.0 | 0 | | |
| KMMD-CD D28 DC LIC | | 147.4 | 26,295 | 128.4 | 21,296 | 128.4 | 21,296 | | |
| KBCW D28 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |
| KMSG-LD D29 LD LIC | | 27.0 | 4 | 20.0 | 4 | 19.0 | 4 | | |
| KPIX-TV D29 DT CP | | 177.7 | 16,971 | 151.7 | 9,959 | 151.7 | 9,959 | | |
| KQMM-CD D29 DC LIC | | 1.0 | 3 | 0.0 | 0 | 0.0 | 0 | | |
| KQED D30 DT LIC | | 13.0 | 2,016 | 0.0 | 0 | 0.0 | 0 | | |

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Exhibit E-2 - TVStudy Interference Study

Interference to BLTT19811124IC LIC scenario 6

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------|-----------|-----------------|---------|-----------------|-------------------|--------------------|----------|----------------|------|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | | | |
| Undesireds: | | | | | | | | | |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km | | |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 | | |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 | | |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 71.5 | | |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 139.3 | | |
| | KQMM-CD | D29 | DC | LIC | SANTA MARIA, CA | BLDTL20080423AEG | 237.0 | | |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7476.5 | 760,805 | 7475.5 | 760,805 | 0.01 | 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 2.0 | 0 | 1.0 |
| KMMD-CD D28 DC LIC | 147.4 | 26,295 | 126.4 |
| KBCW D28 DT LIC | 13.0 | 2,016 | 0.0 |
| KMSG-LD D29 LD LIC | 27.0 | 4 | 13.0 |
| K29KS-D D29 LD CP | 17.0 | 15 | 8.0 |
| KPIX-TV D29 DT CP | 177.7 | 16,971 | 150.7 |
| KQMM-CD D29 DC LIC | 1.0 | 3 | 0.0 |
| KQED D30 DT LIC | 13.0 | 2,016 | 0.0 |

Interference to BLTT19811124IC LIC scenario 7

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------|-----------|-----------------|---------|-----------------|-------------------|-------------------|----------|----------------|------|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | | | |
| Undesireds: | | | | | | | | | |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km | | |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 | | |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 | | |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 139.3 | | |
| | KQMM-CD | D29 | DC | LIC | SANTA MARIA, CA | BLDTL20080423AEG | 237.0 | | |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 71.5 | | |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7479.5 | 760,820 | 7478.5 | 760,820 | 0.01 | 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 2.0 | 0 | 1.0 |
| KMMD-CD D28 DC LIC | 147.4 | 26,295 | 129.4 |
| KBCW D28 DT LIC | 13.0 | 2,016 | 0.0 |
| KMSG-LD D29 LD LIC | 27.0 | 4 | 19.0 |
| KPIX-TV D29 DT LIC | 181.7 | 16,971 | 156.6 |
| KQMM-CD D29 DC LIC | 1.0 | 3 | 0.0 |
| KQED D30 DT LIC | 13.0 | 2,016 | 0.0 |

Interference to BLTT19811124IC LIC scenario 8

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------|---------|-----------------|-----|-----------------|-------------------|--------------------|----------|----------------|--|
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | | | |
| Undesireds: | | | | | | | | | |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 136.7 km | | |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 26.7 | | |
| | KBCW | D28 | DT | LIC | SAN FRANCISCO, CA | BLANK0000112987 | 139.3 | | |
| | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 197.6 | | |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 71.5 | | |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 139.3 | | |
| | KQMM-CD | D29 | DC | LIC | SANTA MARIA, CA | BLDTL20080423AEG | 237.0 | | |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 139.3 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |

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Exhibit E-2 - TVStudy Interference Study

| | | | | | | | | | |
|--------------------|-----------|--------|----------|-------------------|---------|------------------|---------|------|------|
| 9737.9 | 1,124,707 | 7816.5 | 799,094 | 7471.5 | 760,805 | 7470.5 | 760,805 | 0.01 | 0.00 |
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27GZ D29 LD LIC | 2.0 | | 0 | | | 1.0 | 0 | | |
| KMMD-CD D28 DC LIC | 147.4 | | 26,295 | 127.4 | 21,296 | 127.4 | 21,296 | | |
| KBCW D28 DT LIC | 13.0 | | 2,016 | 0.0 | 0 | 0.0 | 0 | | |
| KMSG-LD D29 LD LIC | 27.0 | | 4 | 14.0 | 4 | 13.0 | 4 | | |
| K29KS-D D29 LD CP | 17.0 | | 15 | 8.0 | 15 | 8.0 | 15 | | |
| KPIX-TV D29 DT LIC | 181.7 | | 16,971 | 155.6 | 9,959 | 155.6 | 9,959 | | |
| KQMM-CD D29 DC LIC | 1.0 | | 3 | 0.0 | 0 | 0.0 | 0 | | |
| KQED D30 DT LIC | 13.0 | | 2,016 | 0.0 | 0 | 0.0 | 0 | | |

Interference to BLANK0000127483 CP scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-----------------|----------|
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 175.6 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 154.4 |
| | KKPM-CD | D28+ | DC | APP | YUBA CITY, CA | BLANK0000113364 | 135.9 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 375.7 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 0.0 |

| | | | | | | | | | |
|--------------|-----------|-----------------|-----------|-----------------|-----------|----------------|-----------|----------------|------|
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 39349.9 | 8,220,157 | 33582.5 | 7,371,442 | 33160.8 | 7,364,883 | 33127.3 | 7,364,883 | 0.10 | 0.00 |

| | | | | | | | |
|--------------------|-------|--|----------|-------------------|-------|------------------|-------|
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | |
| K27GZ D29 LD LIC | 38.5 | | 0 | | | 33.5 | 0 |
| KMMD-CD D28 DC LIC | 409.7 | | 4,370 | 409.7 | 4,370 | 404.7 | 4,370 |
| KQED D30 DT LIC | 12.1 | | 2,189 | 12.1 | 2,189 | 12.1 | 2,189 |

Interference to BLANK0000127483 CP scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|------------------|----------|
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 175.6 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 154.4 |
| | KKPM-CD | D28+ | DC | LIC | YUBA CITY, CA | BLDTA20100914AHF | 170.3 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 375.7 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 0.0 |

| | | | | | | | | | |
|--------------|-----------|-----------------|-----------|-----------------|-----------|----------------|-----------|----------------|------|
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 39349.9 | 8,220,157 | 33582.5 | 7,371,442 | 33149.8 | 7,364,041 | 33116.3 | 7,364,041 | 0.10 | 0.00 |

| | | | | | | | |
|---------------------|-------|--|----------|-------------------|-------|------------------|-------|
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | |
| K27GZ D29 LD LIC | 38.5 | | 0 | | | 33.5 | 0 |
| KMMD-CD D28 DC LIC | 409.7 | | 4,370 | 409.7 | 4,370 | 404.7 | 4,370 |
| KKPM-CD D28+ DC LIC | 11.0 | | 842 | 11.0 | 842 | 11.0 | 842 |
| KQED D30 DT LIC | 12.1 | | 2,189 | 12.1 | 2,189 | 12.1 | 2,189 |

Interference to BLCDT20091112AIZ LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|------------------|----------|
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 175.6 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 154.4 |
| | KKPM-CD | D28+ | DC | APP | YUBA CITY, CA | BLANK0000113364 | 135.9 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 375.7 |

| | | | | | | | | | |
|--------------|-----------|-----------------|-----------|-----------------|-----------|----------------|-----------|----------------|------|
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 37625.3 | 8,334,642 | 31885.5 | 7,442,870 | 31470.9 | 7,437,875 | 31436.4 | 7,437,875 | 0.11 | 0.00 |

| | | | | | | | |
|--------------------|-------|--|----------|-------------------|-------|------------------|-------|
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | |
| K27GZ D29 LD LIC | 39.5 | | 0 | | | 34.5 | 0 |
| KMMD-CD D28 DC LIC | 414.6 | | 4,995 | 414.6 | 4,995 | 409.6 | 4,995 |

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Exhibit E-2 - TVStudy Interference Study

Interference to BLCDT20091112AIZ LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------------------|-----------|-----------------|-----------|-------------------|------------------|-----------------------------|
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 175.6 km |
| | KMMD-CD | D28 | DC | LIC | SALINAS, CA | BLANK0000068622 | 154.4 |
| | KKPM-CD | D28+ | DC | LIC | YUBA CITY, CA | BLDTA20100914AHF | 170.3 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 375.7 |
| | Service area | | Terrain-limited | | IX-free, before | IX-free, after | Percent New IX |
| | 37625.3 | 8,334,642 | 31885.5 | 7,442,870 | 31462.9 | 7,434,475 | 31428.4 7,434,475 0.11 0.00 |
| | Undesired | | Total IX | | Unique IX, before | Unique IX, after | |
| | K27GZ D29 LD LIC | | 39.5 | | 0 | 34.5 | 0 |
| | KMMD-CD D28 DC LIC | | 414.6 | | 4,995 | 409.6 | 4,995 |
| | KKPM-CD D28+ DC LIC | | 8.0 | | 3,400 | 8.0 | 3,400 |

Interference to BLANK0000081720 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------------------|-----------|-----------------|-----------|-------------------------|------------------|-----------------------------|
| | KFSN-TV | D30 | DT | LIC | FRESNO, CA | BLANK0000081720 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 111.6 km |
| | KBFX-CD | D29 | DC | LIC | BAKERSFIELD, CA | BLTTA20101018ACF | 195.6 |
| | KCVU | D30 | DT | LIC | PARADISE, CA | BLANK0000141547 | 376.9 |
| | KXLA | D30 | DT | CP | RANCHO PALOS VERDES, CA | BLANK0000145233 | 340.0 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 276.9 |
| | KDFS-CD | D30- | DC | LIC | SANTA MARIA, CA | BLANK0000001617 | 263.6 |
| | Service area | | Terrain-limited | | IX-free, before | IX-free, after | Percent New IX |
| | 34757.1 | 1,838,891 | 30796.7 | 1,821,921 | 30288.0 | 1,819,945 | 30280.9 1,819,939 0.02 0.00 |
| | Undesired | | Total IX | | Unique IX, before | Unique IX, after | |
| | K27GZ D29 LD LIC | | 37.5 | | 24 | 7.1 | 6 |
| | KBFX-CD D29 DC LIC | | 8.1 | | 515 | 7.1 | 515 |
| | KCVU D30 DT LIC | | 28.4 | | 57 | 8.1 | 10 |
| | KXLA D30 DT CP | | 2.0 | | 0 | 1.0 | 0 |
| | KQED D30 DT LIC | | 490.5 | | 1,451 | 440.9 | 1,386 |
| | KDFS-CD D30- DC LIC | | 2.0 | | 0 | 1.0 | 0 |

Interference to BLANK0000081720 LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------------------|-----------|-----------------|-----------|-------------------------|------------------|-----------------------------|
| | KFSN-TV | D30 | DT | LIC | FRESNO, CA | BLANK0000081720 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 111.6 km |
| | KBFX-CD | D29 | DC | LIC | BAKERSFIELD, CA | BLTTA20101018ACF | 195.6 |
| | KCVU | D30 | DT | LIC | PARADISE, CA | BLANK0000141547 | 376.9 |
| | KXLA | D30 | DT | LIC | RANCHO PALOS VERDES, CA | BLANK0000081656 | 340.0 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 276.9 |
| | KDFS-CD | D30- | DC | LIC | SANTA MARIA, CA | BLANK0000001617 | 263.6 |
| | Service area | | Terrain-limited | | IX-free, before | IX-free, after | Percent New IX |
| | 34757.1 | 1,838,891 | 30796.7 | 1,821,921 | 30288.0 | 1,819,945 | 30280.9 1,819,939 0.02 0.00 |
| | Undesired | | Total IX | | Unique IX, before | Unique IX, after | |
| | K27GZ D29 LD LIC | | 37.5 | | 24 | 7.1 | 6 |
| | KBFX-CD D29 DC LIC | | 8.1 | | 515 | 8.1 | 515 |
| | KCVU D30 DT LIC | | 28.4 | | 57 | 8.1 | 10 |
| | KXLA D30 DT LIC | | 1.0 | | 0 | 1.0 | 0 |
| | KQED D30 DT LIC | | 490.5 | | 1,451 | 440.9 | 1,386 |
| | KDFS-CD D30- DC LIC | | 2.0 | | 0 | 1.0 | 0 |

Interference to BLANK0000081720 LIC scenario 3

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Exhibit E-2 - TVStudy Interference Study

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------------|------------------|----------|
| | KFSN-TV | D30 | DT | LIC | FRESNO, CA | BLANK0000081720 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 111.6 km |
| | KBFX-CD | D29 | DC | LIC | BAKERSFIELD, CA | BLTTA20101018ACF | 195.6 |
| | KCVU | D30 | DT | LIC | PARADISE, CA | BLANK0000141547 | 376.9 |
| | KXLA | D30 | DT | CP | RANCHO PALOS VERDES, CA | BLANK0000145233 | 340.0 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 276.9 |
| | KDFS-CD | D30- | DC | CP | SANTA MARIA, CA | BLANK0000127514 | 263.6 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 34757.1 1,838,891 | 30796.7 1,821,921 | 30288.0 1,819,945 | 30280.9 1,819,939 | 0.02 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 37.5 | 24 | 7.1 |
| KBFX-CD D29 DC LIC | 8.1 | 515 | 7.1 |
| KCVU D30 DT LIC | 28.4 | 57 | 8.1 |
| KXLA D30 DT CP | 2.0 | 0 | 1.0 |
| KQED D30 DT LIC | 490.5 | 1,451 | 469.2 |
| KDFS-CD D30- DC CP | 2.0 | 0 | 1.0 |

Interference to BLANK0000081720 LIC scenario 4

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------------|------------------|----------|
| | KFSN-TV | D30 | DT | LIC | FRESNO, CA | BLANK0000081720 | |
| Undesireds: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | 111.6 km |
| | KBFX-CD | D29 | DC | LIC | BAKERSFIELD, CA | BLTTA20101018ACF | 195.6 |
| | KCVU | D30 | DT | LIC | PARADISE, CA | BLANK0000141547 | 376.9 |
| | KXLA | D30 | DT | LIC | RANCHO PALOS VERDES, CA | BLANK0000081656 | 340.0 |
| | KQED | D30 | DT | LIC | SAN FRANCISCO, CA | BLANK0000040845 | 276.9 |
| | KDFS-CD | D30- | DC | CP | SANTA MARIA, CA | BLANK0000127514 | 263.6 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 34757.1 1,838,891 | 30796.7 1,821,921 | 30288.0 1,819,945 | 30280.9 1,819,939 | 0.02 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27GZ D29 LD LIC | 37.5 | 24 | 7.1 |
| KBFX-CD D29 DC LIC | 8.1 | 515 | 8.1 |
| KCVU D30 DT LIC | 28.4 | 57 | 8.1 |
| KXLA D30 DT LIC | 1.0 | 0 | 1.0 |
| KQED D30 DT LIC | 490.5 | 1,451 | 469.2 |
| KDFS-CD D30- DC CP | 2.0 | 0 | 1.0 |

Interference to proposal scenario 1
10.89% interference received

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 65.5 |

| | | | |
|--------------|-----------------|-------------|------------|
| Service area | Terrain-limited | IX-free | Percent IX |
| 399.5 2,025 | 356.9 1,680 | 335.6 1,497 | 5.97 10.89 |

| Undesired | Total IX | Unique IX | Prcnt Unique IX |
|--------------------|----------|-----------|-----------------|
| KMSG-LD D29 LD LIC | 1.0 | 0 | 0.00 |
| KPIX-TV D29 DT CP | 21.3 | 183 | 5.68 |

Interference to proposal scenario 2
18.81% interference received

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|------|------|-----|--------|-------------|-------------|----------|
|------|------|-----|--------|-------------|-------------|----------|

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Exhibit E-2 - TVStudy Interference Study

| | | | | | | | |
|-------------|---------|-----|----|-----|-------------------|--------------------|----------|
| Desired: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 65.5 |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |

| | | | | | | | |
|--|--------------|-------|-----------------|-------|---------|-------|-------------|
| | Service area | | Terrain-limited | | IX-free | | Percent IX |
| | 399.5 | 2,025 | 356.9 | 1,680 | 310.2 | 1,364 | 13.07 18.81 |

| | | | | | | | |
|--------------------|--|------|----------|------|-----------|-----------------|------|
| Undesired | | | Total IX | | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | | 1.0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| K29KS-D D29 LD CP | | 44.6 | 316 | 25.3 | 133 | 7.10 | 7.92 |
| KPIX-TV D29 DT CP | | 21.3 | 183 | 2.0 | 0 | 0.57 | 0.00 |

Interference to proposal scenario 3
13.15% interference received

| | | | | | | | |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | 136.7 |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 65.5 |

| | | | | | | | |
|--|--------------|-------|-----------------|-------|---------|-------|------------|
| | Service area | | Terrain-limited | | IX-free | | Percent IX |
| | 399.5 | 2,025 | 356.9 | 1,680 | 324.4 | 1,459 | 9.09 13.15 |

| | | | | | | | |
|--------------------|--|------|----------|------|-----------|-----------------|------|
| Undesired | | | Total IX | | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | | 1.0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| K29AB D29 LD LIC | | 20.3 | 147 | 11.1 | 38 | 3.12 | 2.26 |
| KPIX-TV D29 DT CP | | 21.3 | 183 | 11.2 | 74 | 3.13 | 4.40 |

Interference to proposal scenario 4
18.81% interference received

| | | | | | | | |
|-------------|---------|------|-----|--------|-------------------|--------------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 65.5 |
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | 136.7 |
| | KPIX-TV | D29 | DT | CP | SAN FRANCISCO, CA | BLANK0000127483 | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |

| | | | | | | | |
|--|--------------|-------|-----------------|-------|---------|-------|-------------|
| | Service area | | Terrain-limited | | IX-free | | Percent IX |
| | 399.5 | 2,025 | 356.9 | 1,680 | 307.2 | 1,364 | 13.92 18.81 |

| | | | | | | | |
|--------------------|--|------|----------|------|-----------|-----------------|------|
| Undesired | | | Total IX | | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | | 1.0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| K29KS-D D29 LD CP | | 44.6 | 316 | 17.2 | 95 | 4.83 | 5.65 |
| K29AB D29 LD LIC | | 20.3 | 147 | 3.0 | 0 | 0.85 | 0.00 |
| KPIX-TV D29 DT CP | | 21.3 | 183 | 2.0 | 0 | 0.57 | 0.00 |

Interference to proposal scenario 5
10.89% interference received

| | | | | | | | |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDT20091112AIZ | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 65.5 |

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Exhibit E-2 - TVStudy Interference Study

| | | | | |
|--------------------|-----------------|-------------|-----------------|---------------|
| Service area | Terrain-limited | | IX-free | Percent IX |
| 399.5 2,025 | 356.9 1,680 | 335.6 | 1,497 | 5.97 10.89 |
| Undesired | Total IX | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | 1.0 0 | 0.0 0 | 0.00 0.00 | |
| KPIX-TV D29 DT LIC | 21.3 183 | 20.3 183 | 5.68 10.89 | |

Interference to proposal scenario 6
18.81% interference received

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|--------------------|----------|
| Desired: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 65.5 |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDDT20091112AIZ | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |

| | | | | |
|--------------------|-----------------|-------------|-----------------|----------------|
| Service area | Terrain-limited | | IX-free | Percent IX |
| 399.5 2,025 | 356.9 1,680 | 310.2 | 1,364 | 13.07 18.81 |
| Undesired | Total IX | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | 1.0 0 | 0.0 0 | 0.00 0.00 | |
| K29KS-D D29 LD CP | 44.6 316 | 25.3 133 | 7.10 7.92 | |
| KPIX-TV D29 DT LIC | 21.3 183 | 2.0 0 | 0.57 0.00 | |

Interference to proposal scenario 7
13.15% interference received

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | 136.7 |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDDT20091112AIZ | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |
| | K29KS-D | D30 | LD | CP | GUSTINE, CA | BNPDTL20100910ABU | 65.5 |

| | | | | |
|--------------------|-----------------|------------|-----------------|---------------|
| Service area | Terrain-limited | | IX-free | Percent IX |
| 399.5 2,025 | 356.9 1,680 | 324.4 | 1,459 | 9.09 13.15 |
| Undesired | Total IX | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | 1.0 0 | 0.0 0 | 0.00 0.00 | |
| K29AB D29 LD LIC | 20.3 147 | 11.1 38 | 3.12 2.26 | |
| KPIX-TV D29 DT LIC | 21.3 183 | 11.2 74 | 3.13 4.40 | |

Interference to proposal scenario 8
18.81% interference received

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|--------------------|----------|
| Desired: | K27GZ | D29 | LD | LIC | MARIPOSA, CA | BLANK0000121605 | |
| Undesireds: | KMSG-LD | D29 | LD | LIC | FRESNO, CA | BLANK0000068538 | 145.7 km |
| | K29KS-D | D29 | LD | CP | GUSTINE, CA | BDISDTL20120530AJM | 65.5 |
| | K29AB | D29 | LD | LIC | MONTEREY, CA | BLTT19811124IC | 136.7 |
| | KPIX-TV | D29 | DT | LIC | SAN FRANCISCO, CA | BLCDDT20091112AIZ | 175.6 |
| | KQMM-CD | D29 | DC | CP | SANTA MARIA, CA | BLANK0000127506 | 307.0 |

| | | | | |
|--------------------|-----------------|------------|-----------------|----------------|
| Service area | Terrain-limited | | IX-free | Percent IX |
| 399.5 2,025 | 356.9 1,680 | 307.2 | 1,364 | 13.92 18.81 |
| Undesired | Total IX | Unique IX | Prcnt Unique IX | |
| KMSG-LD D29 LD LIC | 1.0 0 | 0.0 0 | 0.00 0.00 | |
| K29KS-D D29 LD CP | 44.6 316 | 17.2 95 | 4.83 5.65 | |
| K29AB D29 LD LIC | 20.3 147 | 3.0 0 | 0.85 0.00 | |
| KPIX-TV D29 DT LIC | 21.3 183 | 2.0 0 | 0.57 0.00 | |

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