

Station KTYO-DT • DTV Channel 47 • Las Cruces, New Mexico

Engineering Narrative Concerning Allocation Conditions

Background

It is proposed to modify the Construction Permit (FCC File No. BPCDT-19990709LE) of DTV Station KTYO-DT, Channel 47, Las Cruces, New Mexico. The proposed operation is 26.3 kilometers southeast from the permitted (and allotment) site. The proposed operation would be at the allotted ERP of 200 kilowatts, but at greater height. Therefore, the proposed operation is on the allotted channel, but at a location greater than 5.0 kilometers from the DTV reference site and with facilities having an antenna height that exceed the DTV reference HAAT for this station.

Interference Analysis

The proposed operation protects fully all full-service NTSC and DTV operations based upon the procedure set forth in OET Bulletin No. 69. The results of that analysis are given at the end of this narrative. With respect to the predicted interference to the licensed operation of NTSC Station KTYO, Channel 48, Las Cruces, the applicant reports that NTSC operation has been permanently suspended, in favor of a lower-power operation (BSTA-20030703ACP) at a site in Las Cruces. KTYO and KTYO-DT are co-owned, and the applicant reports that it is willing to accept any interference to its NTSC operation from the proposed DTV operation. If waiver of Section 73.623 is required, such waiver is respectfully requested.

Mexican Notification

The allotted operation of KTYO-DT is a “mutually-accepted short-spaced allotment” under the U.S.-Mexico Memorandum of Understanding (“DTV MOU”).* The allotted operation fails the spacing requirements set forth in the DTV MOU with respect to one Mexican NTSC station or allotment, while the proposed operation complies fully with the spacing requirements, as follows:

| <u>Mexican Allotment</u> | <u>Channel</u> | <u>Required Spacing</u> | <u>Allotted Operation</u> | <u>Proposed Operation</u> |
|--------------------------|----------------|-------------------------|---------------------------|---------------------------|
| Cd. Juarez | N32 | none between 24–96 km | 36.9 km <i>fails</i> | 7.4 km <i>complies</i> |

* “Memorandum of Understanding Between the Federal Communications Commission of the United States of America and the Secretaria de Comunicaciones y Transportes of the United Mexican States Related to the Use of the 54–72, 76–88, 174–216 and 470–806 MHz Bands for the Digital Television Broadcasting Service Along the Common Border,” July 22, 1998.



Station KTYO-DT • DTV Channel 47 • Las Cruces, New Mexico

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TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-01-2004 Time: 14:50:29

Record Selected for Analysis

| | | | |
|--------------------|----------------------|-------------|----------------|
| KTYO-DT | USERRECORD-01 | LAS CRUCES | NM US |
| Channel 47 | ERP 200. kW | HAAT 563. m | RCAMSL 01804 m |
| Latitude 031-48-17 | Longitude 0106-28-58 | | |
| Status APP | Zone 2 Border | | |
| Last update | Cutoff date | Docket | |
| Comments | | | |
| Applicant | | | |

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

| Azimuth (Deg) | ERP (kW) | HAAT (m) | 41.0 dBu F(50,90) (km) |
|------------------|-------------|-------------|---------------------------|
| 0.0 | 200.000 | 265.9 | 79.2 |
| 45.0 | 200.000 | 605.6 | 106.2 |
| 90.0 | 200.000 | 606.9 | 106.3 |
| 135.0 | 200.000 | 678.3 | 109.3 |
| 180.0 | 200.000 | 628.5 | 107.2 |
| 225.0 | 200.000 | 535.5 | 102.2 |
| 270.0 | 200.000 | 616.7 | 106.7 |
| 315.0 | 200.000 | 565.7 | 104.2 |

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KTYO-DT 47 LAS CRUCES

NM USERRECORD01

and station



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SHORT TO: KTYO 47 LAS CRUCES NM BPCDT 19990709LE
032-02-30 0106-27-41
Req. separation 223.7 Actual separation 26.4 Short 197.3 km

SHORT TO: KZIA-DT 47 LAS CRUCES NM DTVPLN DTVP1366
32-02-30 106-27-41
Req. separation 223.7 Actual separation 26.4 Short 197.3 km

SHORT TO: KTYO 48 LAS CRUCES NM BLCT 19900625KE
032-02-30 0106-27-41
Req. separation => 12.0 <= 106.0 Actual separation 26.4 Short 79.6(14.4) km

SHORT TO: KTYO 48 LAS CRUCES NM BSTA 20030703ACP
032-18-19 0106-46-41
Req. separation => 12.0 <= 106.0 Actual separation 62.1 Short 43.9(50.1) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

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 within the Mexican coordination distance
Distance to border = 4.4km

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

| Proposed Station | | | |
|------------------|---------|---------------|--------------|
| Channel | Call | City/State | ARN |
| 47 | KTYO-DT | LAS CRUCES NM | USERRECORD01 |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 47 | KXGR-DT | GREEN VALLEY AZ | 404.2 | PLN | DTVPLN -DTVP1351 |
| 47 | KUVE-TV | GREEN VALLEY AZ | 404.2 | CP | BPCDT -20000501AEM |
| 47 | NEW | HOBBS NM | 334.3 | APP | BNPEDT -20040526ATP |
| 47 | NEW | HOBBS NM | 327.2 | APP | BNPEDT -20040524AOU |
| 47 | NEW | HOBBS NM | 334.3 | APP | BNPEDT -20040526ATP |
| 47 | NEW | HOBBS NM | 327.3 | LIC | BPRM -20030604ACW |
| 48 | KTYO | LAS CRUCES NM | 26.4 | LIC | BLCT -19900625KE |
| 48 | KTYO | LAS CRUCES NM | 62.2 | APP | BSTA -20030703ACP |



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Engineering Narrative Concerning Allocation Conditions

Analysis of Interference to Affected Station 1

DTV Baseline Analysis

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-----------------|----------------------|
| 47 | KXGR-DT | GREEN VALLEY AZ | DTVPLN -DTVP1351 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 46 | KXGR | GREEN VALLEY AZ | 0.0 | PLN | DTVPLN -NPLN1694 |
| 47 | KZIA-DT | LAS CRUCES NM | 402.1 | PLN | DTVPLN -DTVP1366 |

Results for: 47A AZ GREEN VALLEY
HAAT 1095.0 m, ATV ERP 72.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 807619 | 38508.7 |
| not affected by terrain losses | 632721 | 26016.2 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 0 | 0.0 |

NTSC Baseline Analysis

| Channel | Call | City/State | Application Ref. No. |
|---------|------|-----------------|----------------------|
| 46 | KXGR | GREEN VALLEY AZ | DTVPLN -NPLN1694 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 39 | NEW | PHOENIX AZ | 162.0 | PLN | DTVPLN -NPLN1557 |
| 42 | KHRR-DT | TUCSON AZ | 41.9 | PLN | DTVPLN -DTVP1182 |
| 43 | NEW | COOLIDGE AZ | 110.9 | PLN | DTVPLN -NPLN1634 |
| 44 | KWBA-DT | SIERRA VISTA AZ | 73.3 | PLN | DTVPLN -DTVP1253 |
| 45 | KUTPTV | PHOENIX AZ | 161.7 | PLN | DTVPLN -NPLN1677 |
| 47 | KXGR-DT | GREEN VALLEY AZ | 0.0 | PLN | DTVPLN -DTVP1351 |
| 61 | KASW | PHOENIX AZ | 161.9 | PLN | DTVPLN -NPLN1920 |

Results for: 46N AZ GREEN VALLEY

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 807619 | 38504.7 |
| not affected by terrain losses | 614201 | 24284.0 |
| lost to NTSC IX | 317 | 302.1 |
| lost to additional IX by ATV | 49 | 8.1 |
| lost to all IX | 366 | 310.2 |

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-----------------|----------------------|
| 47 | KXGR-DT | GREEN VALLEY AZ | DTVPLN -DTVP1351 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 46 | KUVE-TV | GREEN VALLEY AZ | 0.0 | LIC | BLCT -20001221ABN |
| 47 | KZIA-DT | LAS CRUCES NM | 402.1 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 404.2 | APP | USERRECORD-01 |

Proposal causes no interference



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Analysis of Interference to Affected Station 2

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-----------------|----------------------|
| 47 | KUVE-TV | GREEN VALLEY AZ | BPCDT -20000501AEM |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 46 | KUVE-TV | GREEN VALLEY AZ | 0.0 | LIC | BLCT -20001221ABN |
| 47 | KZIA-DT | LAS CRUCES NM | 402.1 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 404.2 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|------------|----------------------|
| 47 | NEW | HOBBS NM | BNPEDT -20040526ATP |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 324.9 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 334.3 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|------------|----------------------|
| 47 | NEW | HOBBS NM | BNPEDT -20040524AOU |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 317.3 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 327.2 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|------------|----------------------|
| 47 | NEW | HOBBS NM | BNPEDT -20040526ATP |



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Engineering Narrative Concerning Allocation Conditions

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|---------------------------------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 324.9 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 334.3 | APP | USERRECORD-01 |
| Proposal causes no interference | | | | | |

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Analysis of Interference to Affected Station 6

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|------------|----------------------|
| 47 | NEW | HOBBS NM | BPRM -20030604ACW |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|---------------------------------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 317.5 | PLN | DTVPLN -DTVP1366 |
| 47 | KTYO-DT | LAS CRUCES NM | 327.3 | APP | USERRECORD-01 |
| Proposal causes no interference | | | | | |

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Analysis of Interference to Affected Station 7

NTSC Baseline Analysis

| Channel | Call | City/State | Application Ref. No. |
|---------|------|---------------|----------------------|
| 48 | KZIA | LAS CRUCES NM | DTVPLN -NPLN1736 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 0.0 | PLN | DTVPLN -DTVP1366 |
| 51 | KJLF-DT | EL PASO TX | 25.3 | PLN | DTVPLN -DTVP1495 |

| Results for: 48N NM LAS CRUCES | | DTVPLN | NPLN1736 | PLN |
|--------------------------------|--|------------|--------------|-----|
| | | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | | 714821 | 9422.9 | |
| not affected by terrain losses | | 570528 | 7294.8 | |
| lost to NTSC IX | | 0 | 0.0 | |
| lost to additional IX by ATV | | 0 | 0.0 | |
| lost to all IX | | 0 | 0.0 | |

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|---------------|----------------------|
| 48 | KTYO | LAS CRUCES NM | BLCT -19900625KE |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 0.0 | PLN | DTVPLN -DTVP1366 |
| 51 | KJLF-DT | EL PASO TX | 25.3 | PLN | DTVPLN -DTVP1495 |



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Engineering Narrative Concerning Allocation Conditions

| | | | | | | |
|----|---------|---------------|------|-----|---------------|--------------|
| 51 | KTFN | EL PASO TX | 26.4 | CP | BPCDT | -19991029AEX |
| 47 | KTYO-DT | LAS CRUCES NM | 26.4 | APP | USERRECORD-01 | |

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 7
Before Analysis

| Results for: 48N NM LAS CRUCES | BLCT | 19900625KE | LIC |
|--------------------------------|------------|--------------|-----|
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 714821 | 9422.9 | |
| not affected by terrain losses | 570528 | 7294.8 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 6437 | 4.0 | |
| lost to all IX | 6437 | 4.0 | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|----------------|-------|-------------|----|
| 51A TX EL PASO | BPCDT | 19991029AEX | CP |
|----------------|-------|-------------|----|

After Analysis

| Results for: 48N NM LAS CRUCES | BLCT | 19900625KE | LIC |
|--------------------------------|------------|--------------|-----|
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 714821 | 9422.9 | |
| not affected by terrain losses | 570528 | 7294.8 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 186446 | 1082.0 | |
| lost to all IX | 186446 | 1082.0 | |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-------------------|--------------|-------------|-----|
| 51A TX EL PASO | BPCDT | 19991029AEX | CP |
| 47A NM LAS CRUCES | USERRECORD01 | | APP |

The following station failed the de minimis interference criteria.

| | |
|--|--------------|
| 47D NM LAS CRUCES | USERRECORD01 |
| ERP 200.00 kW HAAT 563.0 m RCAMSL 1804.0 m | |
| Antenna none | |

Due to interference to the following station and scenario: 1

| | | |
|---|------|------------|
| 48N NM LAS CRUCES | BLCT | 19900625KE |
| ERP 5000.00 kW HAAT 134.0 m RCAMSL 1399.0 m | | |
| Antenna CDB 00000000017243 | | |

| | | | |
|--|------|------|------------|
| Percent new DTV interference without proposal: | 0.9 | BLCT | 19900625KE |
| Percent new DTV interference with proposal: | 26.1 | BLCT | 19900625KE |

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Analysis of Interference to Affected Station 8



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Engineering Narrative Concerning Allocation Conditions

Analysis of current record

| | | | |
|---------|------|---------------|----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 48 | KTYO | LAS CRUCES NM | BSTA -20030703ACP |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 41.8 | PLN | DTVPLN -DTVP1366 |
| 51 | KJLF-DT | EL PASO TX | 60.9 | PLN | DTVPLN -DTVP1495 |
| 51 | KTFN | EL PASO TX | 62.2 | CP | BPCDT -19991029AEX |
| 47 | KTYO-DT | LAS CRUCES NM | 62.2 | APP | USERRECORD-01 |

Total scenarios = 1

Result key: 2

| | | |
|-----------------|--------------------|---|
| Scenario | 1 Affected station | 8 |
| Before Analysis | | |

| | | |
|--------------------------------|------------|-----------------|
| Results for: 48N NM LAS CRUCES | BSTA | 20030703ACP APP |
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 92565 | 1088.4 |
| not affected by terrain losses | 92565 | 1056.1 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to all IX | 0 | 0.0 |

Potential Interfering Stations Included in above Scenario 1

After Analysis

| | | |
|--------------------------------|------------|-----------------|
| Results for: 48N NM LAS CRUCES | BSTA | 20030703ACP APP |
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 92565 | 1088.4 |
| not affected by terrain losses | 92565 | 1056.1 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 4 | 104.8 |
| lost to all IX | 4 | 104.8 |

Potential Interfering Stations Included in above Scenario 1

47A NM LAS CRUCES USERRECORD01 APP

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Analysis of Interference to Affected Station 9

DTV Baseline Analysis

| | | | |
|---------|---------|---------------|----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 47 | KZIA-DT | LAS CRUCES NM | DTVPLN -DTVP1366 |

Stations Potentially Affecting This Station



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Engineering Narrative Concerning Allocation Conditions

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 47 | KXGR-DT | GREEN VALLEY AZ | 402.1 | PLN | DTVPLN -DTVP1351 |
| 48 | KZIA | LAS CRUCES NM | 0.0 | PLN | DTVPLN -NPLN1736 |

Results for: 47A NM LAS CRUCES
 HAAT 134.0 m, ATV ERP 200.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 717064 | 10257.5 |
| not affected by terrain losses | 588083 | 8181.2 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 0 | 0.0 |

NTSC Baseline Analysis

| Channel | Call | City/State | Application Ref. No. |
|---------|------|---------------|----------------------|
| 48 | KZIA | LAS CRUCES NM | DTVPLN -NPLN1736 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 47 | KZIA-DT | LAS CRUCES NM | 0.0 | PLN | DTVPLN -DTVP1366 |
| 51 | KJLF-DT | EL PASO TX | 25.3 | PLN | DTVPLN -DTVP1495 |

Results for: 48N NM LAS CRUCES

| | DTVPLN | NPLN1736 | PLN |
|--------------------------------|------------|--------------|-----|
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 714821 | 9422.9 | |
| not affected by terrain losses | 570528 | 7294.8 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 0 | 0.0 | |
| lost to all IX | 0 | 0.0 | |

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|---------------|----------------------|
| 47 | KTYO-DT | LAS CRUCES NM | USERRECORD-01 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-----------------|----------|--------|----------------------|
| 47 | KXGR-DT | GREEN VALLEY AZ | 404.2 | PLN | DTVPLN -DTVP1351 |
| 47 | KUVE-TV | GREEN VALLEY AZ | 404.2 | CP | BPCDT -20000501AEM |
| 47 | NEW | HOBBS NM | 334.3 | APP | BNPEDT -20040526ATP |
| 47 | NEW | HOBBS NM | 327.2 | APP | BNPEDT -20040524AOU |
| 47 | NEW | HOBBS NM | 334.3 | APP | BNPEDT -20040526ATP |
| 47 | NEW | HOBBS NM | 327.3 | LIC | BPRM -20030604ACW |
| 48 | KTYO | LAS CRUCES NM | 26.4 | LIC | BLCT -19900625KE |
| 48 | KTYO | LAS CRUCES NM | 62.2 | APP | BSTA -20030703ACP |

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 9
 Before Analysis



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Engineering Narrative Concerning Allocation Conditions

Results for: 47A NM LAS CRUCES USERRECORD01 APP
HAAT 563.0 m, ATV ERP 200.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 726325 | 32651.0 |
| not affected by terrain losses | 719990 | 30187.5 |
| lost to NTSC IX | 126 | 160.2 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 126 | 160.2 |

Potential Interfering Stations Included in above Scenario 1

48N NM LAS CRUCES BLCT 19900625KE LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED



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