

Post-Transition Longley-Rice Analysis

2000 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-02- 9 Time: 11:19:39

Record Selected for Analysis

KAID-DT BLEDT -20070712ABY BOISE ID US
Channel 21 ERP 725 kW HAAT 858 m RCAMSL 2244. m
Latitude 43 -45-21 Longitude 116 -5 -54
Status LIC 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 does not meet maximum height/power limits
Channel 21 ERP = 725.00 HAAT = 858.

| Azimuth (Deg) | ERP (kW) | HAAT (m) | 41.0 dBu F(50, 90) (km) |
|------------------|-------------|-------------|----------------------------|
| 0.0 | 29.291 | 664.3 | 92.0 |
| 45.0 | 0.893 | 702.8 | 66.4 |
| 90.0 | 24.160 | 926.3 | 98.0 |
| 135.0 | 407.961 | 869.1 | 123.4 |
| 180.0 | 612.307 | 680.1 | 119.9 |
| 225.0 | 400.665 | 1100.6 | 131.0 |
| 270.0 | 574.195 | 999.4 | 131.3 |
| 315.0 | 417.637 | 948.4 | 126.1 |

Avg: 861.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance
Distance to border = 582.9km

Proposed facility is beyond the Mexican coordination distance
Distance to border = 1232.6km

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Post-Transition Longley-Rice Analysis

| | | | | |
|---------|------------------|------------|-------|-------------|
| Channel | Proposed Station | City/State | ARN | |
| 21 | KAID-DT | BOISE ID | BLEDT | 20070712ABY |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 21 | KTVZ | BEND OR | 420.4 | PLN | DTVPLN | -DTVPLN55907 |
| 21 | KTVZ-DT | BEND OR | 420.4 | CP MOD | BMPCDT | -20080612ABU |
| 22 | KIPT | TWIN FALLS ID | 177.8 | CP | USR | -609NJE |
| 22 | KIPT | TWIN FALLS ID | 177.7 | PLN | DTVPLN | -DTVPLN62427 |
| 22 | KIPT-DT | TWIN FALLS ID | 177.8 | LIC | BLEDT | -20030530BKW |
| 22 | KIPT-DT | TWIN FALLS ID | 177.8 | CP | BPEDT | -20080620AGQ |

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Analysis of Interference to Affected Station 1

| | | | | |
|---------|-------------------|------------|-------------|--------------|
| DTV | Baseline Analysis | | | |
| Channel | Call | City/State | Application | Ref. No. |
| 21 | KTVZ | BEND OR | DTVPLN | -DTVPLN55907 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 420.4 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KYVE | YAKIMA WA | 280.3 | PLN | DTVPLN | -DTVPLN33752 |
| 22 | KPXG | SALEM OR | 195.6 | PLN | DTVPLN | -DTVPLN5801 |

Results for: 21A OR BEND DTVPLN DTVPLN55907 PLN

| | | |
|--------------------------------|------------|--------------|
| HAAT 197.0 m, ATV ERP 53.7 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 152759 | 12400.4 |
| not affected by terrain losses | 150387 | 10163.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 0 | 12.0 |
| lost to ATV IX only | 0 | 12.0 |
| lost to all IX | 0 | 12.0 |

| | | | | |
|----------------------------|------|------------|-------------|--------------|
| Analysis of current record | | | | |
| Channel | Call | City/State | Application | Ref. No. |
| 21 | KTVZ | BEND OR | DTVPLN | -DTVPLN55907 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 420.4 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 386.8 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 419.2 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 419.2 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 420.4 | LIC | BLEDT | -20070712ABY |
| 21 | KYVE | YAKIMA WA | 280.3 | PLN | DTVPLN | -DTVPLN33752 |
| 21 | KYVE-DT | YAKIMA WA | 280.3 | LIC | BLEDT | -20030910ACL |
| 22 | KPXG | SALEM OR | 195.6 | PLN | DTVPLN | -DTVPLN5801 |
| 22 | KPXG | SALEM OR | 195.6 | CP | BMPCDT | -20080305ABK |

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. |
| 21 | KTVZ-DT | BEND OR | BMPCDT | -20080612ABU |

Stations Potentially Affecting This Station

Post-Transition Longley-Rice Analysis

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 420.4 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 386.8 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 419.2 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 419.2 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 420.4 | LIC | BLEDT | -20070712ABY |
| 21 | KYVE | YAKIMA WA | 280.3 | PLN | DTVPLN | -DTVPLN33752 |
| 21 | KYVE-DT | YAKIMA WA | 280.3 | LIC | BLEDT | -20030910ACL |
| 22 | KPXG | SALEM OR | 195.6 | PLN | DTVPLN | -DTVPLN5801 |
| 22 | KPXG | SALEM OR | 195.6 | CP | BPCDT | -20080305ABK |

Proposal causes no interference

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Analysis of Interference to Affected Station 3

DTV Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|---------------|-------------|--------------|
| 22 | KIPT | TWIN FALLS ID | DTVPLN | -DTVPLN62427 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|--------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 177.7 | PLN | DTVPLN | -DTVPLN62442 |
| 23 | KPVI | POCATELLO ID | 170.0 | PLN | DTVPLN | -DTVPLN1270 |

Results for: 22A ID TWIN FALLS DTVPLN DTVPLN62427 PLN
 HAAT 161.0 m, ATV ERP 50.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 124620 | 13060.7 |
| not affected by terrain losses | 124616 | 12880.4 |
| 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 |

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|---------------|-------------|----------|
| 22 | KIPT | TWIN FALLS ID | USR | -609NJE |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|--------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 177.8 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 208.6 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 170.0 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 170.0 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 177.8 | LIC | BLEDT | -20070712ABY |
| 23 | KPVI | POCATELLO ID | 170.0 | PLN | DTVPLN | -DTVPLN1270 |
| 23 | KPVI-DT | POCATELLO ID | 170.0 | LIC | BLCDT | -20060706AEF |

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. |
|---------|------|---------------|-------------|--------------|
| 22 | KIPT | TWIN FALLS ID | DTVPLN | -DTVPLN62427 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|-------|------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 177.7 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 208.6 | DTS | USR | -2099TOM |

Post-Transition Longley-Rice Analysis

| | | | | | | |
|----|---------|--------------|-------|-----|--------|--------------|
| 21 | KAID2 | BOISE ID | 170.0 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 170.0 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 177.7 | LIC | BLEDT | -20070712ABY |
| 23 | KPVI | POCATELLO ID | 170.0 | PLN | DTVPLN | -DTVPLN1270 |
| 23 | KPVI-DT | POCATELLO ID | 170.0 | LIC | BLCDDT | -20060706AEF |

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. |
|---------|---------|---------------|-------------|--------------|
| 22 | KIPT-DT | TWIN FALLS ID | BLEDT | -20030530BKW |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|--------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 177.8 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 208.6 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 170.0 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 170.0 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 177.8 | LIC | BLEDT | -20070712ABY |
| 23 | KPVI | POCATELLO ID | 170.0 | PLN | DTVPLN | -DTVPLN1270 |
| 23 | KPVI-DT | POCATELLO ID | 170.0 | LIC | BLCDDT | -20060706AEF |

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. |
|---------|---------|---------------|-------------|--------------|
| 22 | KIPT-DT | TWIN FALLS ID | BPEDT | -20080620AGQ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|--------------|----------|--------|-------------|--------------|
| 21 | KAID | BOISE ID | 177.8 | PLN | DTVPLN | -DTVPLN62442 |
| 21 | KAID1 | BOISE ID | 208.6 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 170.0 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 170.0 | DTS | USR | -2101TOM |
| 21 | KAID-DT | BOISE ID | 177.8 | LIC | BLEDT | -20070712ABY |
| 23 | KPVI | POCATELLO ID | 170.0 | PLN | DTVPLN | -DTVPLN1270 |
| 23 | KPVI-DT | POCATELLO ID | 170.0 | LIC | BLCDDT | -20060706AEF |

Proposal causes no interference

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Analysis of Interference to Affected Station 7

DTV Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 21 | KAID | BOISE ID | DTVPLN | -DTVPLN62442 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|---------------|----------|--------|-------------|--------------|
| 21 | KTVZ | BEND OR | 420.4 | PLN | DTVPLN | -DTVPLN55907 |
| 22 | KIPT | TWIN FALLS ID | 177.7 | PLN | DTVPLN | -DTVPLN62427 |

Results for: 21A ID BOISE DTVPLN DTVPLN62442 PLN

HAAT 858.0 m, ATV ERP 725.0 kW

POPULATION AREA (sq km)

Post-Transition Longley-Rice Analysis

| | | |
|--------------------------------|--------|---------|
| within Noise Limited Contour | 559359 | 42331.1 |
| not affected by terrain losses | 552537 | 35296.0 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 23 | 44.4 |
| lost to ATV IX only | 23 | 44.4 |
| lost to all IX | 23 | 44.4 |

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|--------------|
| 21 | KAID-DT | BOISE ID | BLEDT | -20070712ABY |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 21 | KAID1 | BOISE ID | 33.8 | DTS | USR | -2099TOM |
| 21 | KAID2 | BOISE ID | 18.1 | DTS | USR | -2100TOM |
| 21 | KAID3 | BOISE ID | 18.1 | DTS | USR | -2101TOM |
| 21 | KTVZ | BEND OR | 420.4 | PLN | DTVPLN | -DTVPLN55907 |
| 21 | KTVZ-DT | BEND OR | 420.4 | CP MOD | BMPCDT | -20080612ABU |
| 22 | KIPT | TWIN FALLS ID | 177.8 | CP | USR | -609NJE |
| 22 | KIPT | TWIN FALLS ID | 177.7 | PLN | DTVPLN | -DTVPLN62427 |
| 22 | KIPT-DT | TWIN FALLS ID | 177.8 | LIC | BLEDT | -20030530BKW |
| 22 | KIPT-DT | TWIN FALLS ID | 177.8 | CP | BPEDT | -20080620AGO |

Total scenarios = 1

Result key:

Scenario 1 Affected station 7
Before Analysis

Results for: 21A ID BOISE BLEDT 20070712ABY LIC

HAAT 858.0 m, ATV ERP 725.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 559359 | 42331.1 |
| not affected by terrain losses | 552537 | 35296.0 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 23 | 44.4 |
| lost to ATV IX only | 23 | 44.4 |
| lost to all IX | 23 | 44.4 |

Potential Interfering Stations Included in above Scenario 1

22A ID TWIN FALLS DTVPLN DTVPLN62427 PLN
FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED