

# OET-69 Interference Analysis (KTVZ-DT, Bend, OR, Channel 21)

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
TW Census data selected 2000  
Post Transition Data Base Selected /export/home/cdbs/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-14-2009 Time: 09:38:05

Record Selected for Analysis

KTVZ USERRECORD-01 BEND OR US  
Channel 21 ERP 131.8 kW HAAT 200. m RCAMSL 01336 m  
Latitude 044-04-40 Longitude 0121-19-49  
Status APP Zone 2 Border  
Dir Antenna Make CDB Model 00000000086988 Beam tilt N Ref Azimuth 0.  
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	80.187	346.0	81.5
45.0	117.701	319.6	81.4
90.0	44.338	280.9	72.2
135.0	59.165	190.2	67.3
180.0	129.177	120.7	65.6
225.0	43.576	61.2	52.9
270.0	13.496	33.0	39.6
315.0	9.967	250.1	62.4

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

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
21	KTVZ	BEND OR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	K19GH	EUGENE, ETC. OR	133.3	LIC	BLTTA -20090619ADJ
21	KAID	BOISE ID	420.4	PLN	DTVPLN -DTVP0746
21	KAID	BOISE ID	420.4	LIC	BLEDT -20070712ABY
21	K21JQ-D	WALLA WALLA WA	326.4	LIC	BLDTA -20090721ABT
21	KYVE	YAKIMA WA	280.3	LIC	BLEDT -20030910ACL
21	KYVE	YAKIMA WA	280.3	PLN	DTVPLN -DTVP0776
22	KPXG	SALEM OR	195.6	PLN	DTVPLN -DTVP0811
22	KPXG-TV	SALEM OR	195.6	CP	BPCDT -20080305ABK

## OET-69 Interference Analysis (KTVZ-DT, Bend, OR, Channel 21)

23 KEVU-LP EUGENE OR 142.7 LIC BLTTA -20020802AAR

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### Analysis of Interference to Affected Station 1

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	K19GH	EUGENE, ETC. OR	BLTTA	-20090619ADJ

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KMTR	EUGENE OR	0.0	LIC	BLCDT	-20030618AAY
17	KMTR	EUGENE OR	0.0	PLN	DTVPLN	-DTVP0605
18	KTVC	ROSEBURG OR	101.2	LIC	BLCDT	-20060721AAR
18	KTVC	ROSEBURG OR	101.2	PLN	DTVPLN	-DTVP0638
18	KTVC	ROSEBURG OR	101.2	CP	BPCDT	-20061013ADM
19	KQRE-LP	BEND OR	166.7	LIC	BLTTL	-20090910ACB
19	KQRE-LP	HAMPTON OR	220.8	APP	BPPT	-20030317LIW
19	K19EC	MAPLETON OR	50.5	LIC	BLTT	-20011009ACD
19	K19EI	PACIFIC C/CLOVERDALE OR	135.8	LIC	BLTT	-20020311AAN
19	KQRE-LP	RILEY OR	166.6	APP	BSTA	-20090901AHP
19	KPIC	ROSEBURG OR	101.2	CP	BPCDT	-20080618ATJ
19	KPIC	ROSEBURG OR	101.2	PLN	DTVPLN	-DTVP0684
19	KPIC	ROSEBURG OR	101.2	LIC	BLCDT	-20060707ADF
19	K67GU	SALEM OR	82.6	APP	BPPTL	-20020521AAX
19	KCKA	CENTRALIA WA	271.1	APP	BPEDT	-20080620ABA
19	KCKA	CENTRALIA WA	271.1	PLN	DTVPLN	-DTVP0695
19	KCKA	CENTRALIA WA	271.1	LIC	BLEDT	-20051005AAZ
20	K20DD	ALBANY, ETC. OR	43.4	LIC	BLTTL	-19940114JN
21	KTVZ	BEND OR	133.3	PLN	DTVPLN	-DTVP0765
22	KMCB	COOS BAY OR	121.3	LIC	BLCDT	-20030717ACA
22	KMCB	COOS BAY OR	121.3	PLN	DTVPLN	-DTVP0810
21	KTVZ	BEND OR	133.3	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

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### Analysis of Interference to Affected Station 2

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
21	KAID	BOISE ID	DTVPLN	-DTVP0746

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	420.4	PLN	DTVPLN	-DTVP0765
22	KIPT	TWIN FALLS ID	177.8	LIC	BLEDT	-20030530BKW
22	KIPT	TWIN FALLS ID	177.7	PLN	DTVPLN	-DTVP0791
22	KIPT	TWIN FALLS ID	177.8	CP	BPEDT	-20080620AGQ
21	KTVZ	BEND OR	420.4	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.
21	KAID	BOISE ID	BLEDT	-20070712ABY

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	420.4	PLN	DTVPLN	-DTVP0765
22	KIPT	TWIN FALLS ID	177.8	LIC	BLEDT	-20030530BKW
22	KIPT	TWIN FALLS ID	177.7	PLN	DTVPLN	-DTVP0791
22	KIPT	TWIN FALLS ID	177.8	CP	BPEDT	-20080620AGQ
21	KTVZ	BEND OR	420.4	APP	USERRECORD-01	

Proposal causes no interference

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### Analysis of Interference to Affected Station 4

## OET-69 Interference Analysis (KTVZ-DT, Bend, OR, Channel 21)

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
21	K21JQ-D	WALLA WALLA WA	BLDTA	-20090721ABT

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	KREM	SPOKANE WA	190.5	APP	BPCDT	-20080617AEA
20	KREM-TV	SPOKANE WA	190.5	PLN	DTVPLN	-DTVP0735
20	KREM	SPOKANE WA	190.5	LIC	BLCDT	-20050623ABG
21	KAID	BOISE ID	297.2	PLN	DTVPLN	-DTVP0746
21	KAID	BOISE ID	297.2	LIC	BLEDT	-20070712ABY
21	KTVZ	BEND OR	326.4	PLN	DTVPLN	-DTVP0765
21	KYVE	YAKIMA WA	189.3	LIC	BLEDT	-20030910ACL
21	KYVE	YAKIMA WA	189.3	PLN	DTVPLN	-DTVP0776
21	KTVZ	BEND OR	326.4	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.
21	KYVE	YAKIMA WA	BLEDT	-20030910ACL

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	280.3	PLN	DTVPLN	-DTVP0765
22	KPXG	SALEM OR	205.9	PLN	DTVPLN	-DTVP0811
22	KPXG-TV	SALEM OR	205.9	CP	BPCDT	-20080305ABK
21	KTVZ	BEND OR	280.3	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.
21	KYVE	YAKIMA WA	DTVPLN	-DTVP0776

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	280.3	PLN	DTVPLN	-DTVP0765
22	KPXG	SALEM OR	205.9	PLN	DTVPLN	-DTVP0811
22	KPXG-TV	SALEM OR	205.9	CP	BPCDT	-20080305ABK
21	KTVZ	BEND OR	280.3	APP	USERRECORD-01	

Proposal causes no interference

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### Analysis of Interference to Affected Station 7

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
22	KPXG	SALEM OR	DTVPLN	-DTVP0811

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	195.6	PLN	DTVPLN	-DTVP0765
21	KYVE	YAKIMA WA	205.9	LIC	BLEDT	-20030910ACL
21	KYVE	YAKIMA WA	205.9	PLN	DTVPLN	-DTVP0776
22	KMCB	COOS BAY OR	260.9	LIC	BLCDT	-20030717ACA
22	KMCB	COOS BAY OR	260.9	PLN	DTVPLN	-DTVP0810
21	KTVZ	BEND OR	195.6	APP	USERRECORD-01	

Proposal causes no interference

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### Analysis of Interference to Affected Station 8

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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# OET-69 Interference Analysis (KTVZ-DT, Bend, OR, Channel 21)

22 KPXG-TV SALEM OR BPCDT -20080305ABK

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KTVZ	BEND OR	195.6	PLN	DTVPLN	-DTVP0765
21	KYVE	YAKIMA WA	205.9	LIC	BLEDT	-20030910ACL
21	KYVE	YAKIMA WA	205.9	PLN	DTVPLN	-DTVP0776
22	KMCB	COOS BAY OR	260.9	LIC	BLCDT	-20030717ACA
22	KMCB	COOS BAY OR	260.9	PLN	DTVPLN	-DTVP0810
21	KTVZ	BEND OR	195.6	APP	USERRECORD-01	

Proposal causes no interference

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## Analysis of Interference to Affected Station 9

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KEVU-LP	EUGENE OR	BLTTA	-20020802AAR

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KPIC	ROSEBURG OR	86.7	CP	BPCDT	-20080618ATJ
19	KPIC	ROSEBURG OR	86.7	PLN	DTVPLN	-DTVP0684
19	KPIC	ROSEBURG OR	86.7	LIC	BLCDT	-20060707ADF
21	KTVZ	BEND OR	142.7	PLN	DTVPLN	-DTVP0765
22	KMCB	COOS BAY OR	106.1	LIC	BLCDT	-20030717ACA
22	KMCB	COOS BAY OR	106.1	PLN	DTVPLN	-DTVP0810
23	K52ET	TILLAMOOK OR	144.0	CP	BDISTT	-20061212ABH
31	KLSR-TV	EUGENE OR	0.0	PLN	DTVPLN	-DTVP1149
31	KLSR-TV	EUGENE OR	0.0	LIC	BLCDT	-20070104ADQ
38	K38JK	EUGENE OR	15.6	LIC	BLTTL	-20090602AAU
21	KTVZ	BEND OR	142.7	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

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## Analysis of Interference to Affected Station 10

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
21	KTVZ	BEND OR	USERRECORD-01	

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
21	KAID	BOISE ID	420.4	PLN	DTVPLN	-DTVP0746
21	KAID	BOISE ID	420.4	LIC	BLEDT	-20070712ABY
21	KYVE	YAKIMA WA	280.3	LIC	BLEDT	-20030910ACL
21	KYVE	YAKIMA WA	280.3	PLN	DTVPLN	-DTVP0776
22	KPXG	SALEM OR	195.6	PLN	DTVPLN	-DTVP0811
22	KPXG-TV	SALEM OR	195.6	CP	BPCDT	-20080305ABK

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 10  
Before Analysis

Results for: 21A OR BEND USERRECORD01 APP  
HAAT 200.0 m, ATV ERP 131.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	154414	14936.5
not affected by terrain losses	153260	12099.7
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

Potential Interfering Stations Included in above Scenario 1

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