

1990 Census data selected  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-14-2006 Time: 14:10:42

Record Selected for Analysis

KUBN USERRECORD-01 BEND1 OR US  
Channel 43 ERP 38. kW HAAT 654. m RCAMSL 01597 m  
Latitude 044-11-51 Longitude 0120-58-35  
Status APP Zone 2 Border Offset -  
Dir Antenna Make CDB Model 00000000016991 Beam tilt N Ref Azimuth 310.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	74.0 dBu F(50,50) (km)
0.0	29.601	617.0	41.4
45.0	24.989	604.4	40.0
90.0	7.966	503.6	30.0
135.0	0.061	498.6	7.7
180.0	11.534	526.1	33.0
225.0	30.810	542.9	40.1
270.0	27.750	611.0	40.8
315.0	30.917	653.8	42.4

Contour Overlap Evaluation from LPTV Station to Full Service TV & DTV

Contour overlap to station  
KATU 43 PORTLAND OR BLCDT 20050407KXN

Contour Overlap Evaluation from LPTV to Full Service TV & DTV Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Contour overlap to station  
K28JE 28 BEND OR BNPTTL 20000807AEL

Station inside contour of station  
K42BR 42 TERREBONNE-BEND, ETC OR BLTTL 19880729IU

Contour overlap to station  
K44AH 44 PRINEVILLE, ETC. OR BLTT 19970724JE

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station  
K42BR 42 TERREBONNE-BEND, ETC OR BLTTL19880729IU

Is inside contour of station  
KUBN 43 BEND1 OR USERRECORD01

Station  
K44AH 44 PRINEVILLE, ETC. OR BLTT19970724JE

Is inside contour of station  
KUBN 43 BEND1 OR USERRECORD01

Station  
K58BK 58 MADRAS & CULVER OR BLTT19941014II causes

Contour overlap to station  
KUBN 43 BEND1 OR USERRECORD01

Station  
K66AZ 58 PRINEVILLE OR BMJPTT20000830BHZ

Is inside contour of station  
KUBN 43 BEND1 OR USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

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 beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN
43	KUBN	BEND1 OR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	K28JE	BEND OR	47.4	CP	BNPTTL -20000807AEL
42	K42BR	TERREBONNE-BEND, ETC OR	26.4	LIC	BLTTL -19880729IU
43	KATU	PORTLAND OR	201.6	LIC	BLCDT -20050407KXN
44	K44AH	PRINEVILLE, ETC. OR	26.8	LIC	BLTT -19970724JE

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	K28JE	BEND OR	BNPTTL -20000807AEL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	KBSP-DT	SALEM OR	140.4	PLN	DTVPLN -DTVP0415
21	KTVZ	BEND OR	16.5	LIC	BLCT -19920820KT
25	KVAL-DT	EUGENE OR	126.6	PLN	DTVPLN -DTVP0613
25	KVAL-TV	EUGENE OR	126.6	CP MOD	BMPCDT -20000427ABM
28	KEPB-TV	EUGENE OR	126.6	CP	BPET -20030723ADP
28	KBTC-TV	TACOMA WA	367.1	LIC	BLET -19870224KI
29	KEPB-TV	EUGENE OR	126.6	LIC	BLEDT -20050127AHY
29	KEPB-DT	EUGENE OR	126.5	PLN	DTVPLN -DTVP0759
29	K29CI	PRINEVILLE, ETC. OR	47.4	LIC	BLTT -19911031SK
31	KEVU-DT	EUGENE OR	125.9	PLN	DTVPLN -DTVP0837
31	KLRS-TV	EUGENE OR	126.4	CP MOD	BMPCDT -20041028AKC
43	KUBN	BEND1 OR	47.4	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.
42	K42BR	TERREBONNE-BEND, ETC OR	BLTTL -19880729IU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
41	KBND-LP	BEND OR	42.1	CP	BPTTL -20060327AFE
42	K42CZ	LINCOLN CITY, ETC. OR	236.3	LIC	BLTT -19930608IF
42	KSYS-DT	MEDFORD OR	257.2	PLN	DTVPLN -DTVP1206
42	NEW	PORTLAND OR	177.2	ADD	BPRM -20000717ABY
42	KPXG-LP	PORTLAND OR	178.4	CP	BPTTL -20050901ABW
42	KVEW	KENNEWICK WA	242.5	LIC	BLCT -19771207KJ
42	NEW	ODELL WA	143.9	APP	BNPTTL -20000831CLQ
42	KWDK	TACOMA WA	349.6	LIC	BLEDT -20050421AAE
42	KWDK-DT	TACOMA WA	372.0	PLN	DTVPLN -DTVP1214
43	KUBN	BEND1 OR	26.4	APP	USERRECORD-01

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.
43	KATU-DT	PORTLAND OR	DTVPLN -DTVP1239

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
42	KWDK-DT	TACOMA WA	225.4	PLN	DTVPLN -DTVP1214

Results for: 43A OR PORTLAND DTVPLN DTVPL1239 PLN  
 HAAT 475.0 m, ATV ERP 1000.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	2107841	43024.7
not affected by terrain losses	1981033	30225.0
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.
02	KATU	PORTLAND OR	DTVPLN	-NPLN0191

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KOTI	KLAMATH FALLS OR	390.9	PLN	DTVPLN	-NPLN0190
03	KOABTV	BEND OR	195.2	PLN	DTVPLN	-NPLN0252

Results for: 2N OR PORTLAND DTVPLN NPLN0191 PLN  
 HAAT 475.0 m, ATV ERP 1000.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	2107841	43024.7
not affected by terrain losses	1994045	35570.0
lost to NTSC IX	3644	61.0
lost to additional IX by ATV	0	0.0
lost to all IX	3644	61.0

Analysis of current record  

Channel	Call	City/State	Application	Ref. No.
43	KATU	PORTLAND OR	BLCDT	-20050407KXN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	NEW	PORTLAND OR	0.0	ADD	BPRM	-20000717ABY
42	KWDK	TACOMA WA	228.7	LIC	BLEDT	-20050421AAE
42	KWDK-DT	TACOMA WA	226.0	PLN	DTVPLN	-DTVPL1214
44	KEZI-TV	EUGENE OR	157.0	LIC	BPRM	-20000925APP
44	KEZI	EUGENE OR	157.0	CP MOD	BMPCDT	-20010710ABI
44	KEZI	EUGENE OR	157.0	APP	BMPCDT	-20060707AAA
44	KHCV	SEATTLE WA	228.7	CP	BPCDT	-19991101AGX
43	KUBN	BEND1 OR	201.6	APP	USERRECORD-01	

Total scenarios = 5

Result key: 1  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 43A OR PORTLAND BLCDT 20050407KXN LIC  
 HAAT 524.0 m, ATV ERP 1000.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25425	122.9
lost to ATV IX only	25425	122.9
lost to all IX	25425	122.9

Potential Interfering Stations Included in above Scenario 1

44A OR EUGENE BPRM 20000925APP LIC

After Analysis

Results for: 43A OR PORTLAND BLCDT 20050407KXN LIC  
 HAAT 524.0 m, ATV ERP 1000.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	20	83.6
lost to additional IX by ATV	25425	120.9
lost to ATV IX only	25425	122.9
lost to all IX	25445	204.5

Potential Interfering Stations Included in above Scenario 1

44A OR EUGENE BPRM 20000925APP LIC  
 43N OR BEND1 USERRECORD01 APP

Result key: 2  
 Scenario 2 Affected station 3  
 Before Analysis

Results for: 43A OR PORTLAND BLCDT 20050407KXN LIC  
 HAAT 524.0 m, ATV ERP 1000.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22466	77.7
lost to ATV IX only	22466	77.7
lost to all IX	22466	77.7

Potential Interfering Stations Included in above Scenario 2

44A OR EUGENE                   BMPCDT    20010710ABI   CP

After Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	20	83.6
lost to additional IX by ATV	22466	75.7
lost to ATV IX only	22466	77.7
lost to all IX	22486	159.3

Potential Interfering Stations Included in above Scenario    2

44A OR EUGENE                   BMPCDT    20010710ABI   CP  
43N OR BEND1                   USERRECORD01    APP

Result key:            3  
Scenario            3   Affected station            3  
Before Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25425	122.9
lost to ATV IX only	25425	122.9
lost to all IX	25425	122.9

Potential Interfering Stations Included in above Scenario    3

44A OR EUGENE                   BPRM       20000925APP   LIC

After Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	20	83.6
lost to additional IX by ATV	25425	120.9
lost to ATV IX only	25425	122.9
lost to all IX	25445	204.5

Potential Interfering Stations Included in above Scenario    3

44A OR EUGENE                   BPRM       20000925APP   LIC  
43N OR BEND1                   USERRECORD01    APP

Result key:            4  
Scenario            4   Affected station            3  
Before Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22466	77.7
lost to ATV IX only	22466	77.7
lost to all IX	22466	77.7

Potential Interfering Stations Included in above Scenario    4

44A OR EUGENE                   BMPCDT    20010710ABI   CP

After Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	20	83.6
lost to additional IX by ATV	22466	75.7
lost to ATV IX only	22466	77.7
lost to all IX	22486	159.3

Potential Interfering Stations Included in above Scenario    4

44A OR EUGENE                   BMPCDT    20010710ABI   CP  
43N OR BEND1                   USERRECORD01    APP

Result key:            5  
Scenario            5   Affected station            3  
Before Analysis

Results for: 43A OR PORTLAND                   BLCDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6

lost to NTSC IX	0	0.0
lost to additional IX by ATV	525	2.9
lost to ATV IX only	525	2.9
lost to all IX	525	2.9

Potential Interfering Stations Included in above Scenario 5

44A OR EUGENE                    BMPCDT    20060707AAA   APP

After Analysis

Results for: 43A OR PORTLAND                    BLCDDT    20050407KXN   LIC

HAAT 524.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2089227	41659.3
not affected by terrain losses	1984849	30250.6
lost to NTSC IX	20	83.6
lost to additional IX by ATV	525	2.9
lost to ATV IX only	525	2.9
lost to all IX	545	86.5

Potential Interfering Stations Included in above Scenario 5

44A OR EUGENE                    BMPCDT    20060707AAA   APP  
43N OR BEND1                    USERRECORD01       APP

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
44	K44AH	PRINEVILLE, ETC. OR	BLTT -19970724JE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
44	KEZI-TV	EUGENE OR	166.7	LIC	BPRM -20000925APP
44	KEZI	EUGENE OR	166.7	CP MOD	BMPCDT -20010710ABI
44	KEZI	EUGENE OR	166.7	APP	BMPCDT -20060707AAA
44	KVEW	KENNEWICK WA	233.6	CP MOD	BMPCDT -20041101ADY
44	KVEW-DT	KENNEWICK WA	233.6	PLN	DTVPLN -DTVP1285
44	KHCV-DT	SEATTLE WA	367.6	PLN	DTVPLN -DTVP1286
44	KHCV	SEATTLE WA	349.7	CP	BPCDT -19991101AGX
45	K69BI	MADRAS & CULVER OR	22.2	CP	BPTT -20040217AAC
45	K60BQ	TERREBONNE OR	26.8	CP	BDISTT -20060215ACO
51	KOHD	BEND OR	50.1	CP	BNPCT -20060421ACF
51	KOHD	BEND OR	50.1	APP	BMPCDT -20060721ABO
43	KUBN	BEND1 OR	26.8	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.
43	KUBN	BEND1 OR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
42	K42BR	TERREBONNE-BEND, ETC OR	26.4	LIC	BLTTL -19880729IU
43	KATU-DT	PORTLAND OR	202.5	PLN	DTVPLN -DTVP1239
43	KATU	PORTLAND OR	201.6	LIC	BLCDDT -20050407KXN
43	K43GY	YAKIMA, ETC. WA	262.2	LIC	BLTTL -20040615ACA
44	K44AH	PRINEVILLE, ETC. OR	26.8	LIC	BLTT -19970724JE
51	KOHD	BEND OR	31.4	CP	BNPCT -20060421ACF
51	KOHD	BEND OR	31.4	APP	BMPCDT -20060721ABO
58	K58BK	MADRAS & CULVER OR	44.8	LIC	BLTT -19941014II
58	K66AZ	PRINEVILLE OR	26.4	APP	BMJPTT -20000830BHZ

Total scenarios = 1

Result key: 6

Scenario 1 Affected station 5

Before Analysis

Results for: 43N OR BEND1                    USERRECORD01       APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	79289	3974.8
not affected by terrain losses	78683	3595.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15	1.0
lost to all IX	15	1.0

Potential Interfering Stations Included in above Scenario 1

51A OR BEND                    BNPCT    20060421ACF   CP

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