

# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

TW Census data selected 2000

Post Transition Data Base Selected /export/home/cdbb/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-24-2008

Record Selected for Analysis

KCBYDT USERRECORD-01 COOS BAY OR US  
Channel 11 ERP 5. kW HAAT 184. m RCAMSL 00316 m  
Latitude 043-23-26 Longitude 0124-07-46  
Status APP Zone 2 Border  
Dir Antenna Make usr Model DRV43HC 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)	36.0 dBu F(50,90) (km)
0.0	4.980	172.8	79.3
45.0	1.026	70.3	51.4
90.0	0.003	102.0	20.4
135.0	1.026	102.4	57.6
180.0	4.980	221.5	82.9
225.0	3.212	239.4	80.7
270.0	2.542	304.8	82.3
315.0	3.216	259.2	81.8

## 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

# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

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## Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
11	KCBYDT	COOS BAY OR	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KTVL	MEDFORD OR	185.5	CP	BPCDT	-20080305AEC
10	KTVL	MEDFORD OR	185.5	PLN	DTVPLN	-DTVP0287
11	KEET	EUREKA CA	296.3	LIC	BLEDT	-20071101AAG
11	KEET	EUREKA CA	296.3	PLN	DTVPLN	-DTVP0306
11	KOAB-TV	BEND OR	237.3	LIC	BLEDT	-20060823AAP
11	KOAB-TV	BEND OR	237.3	PLN	DTVPLN	-DTVP0339
12	KDRV	MEDFORD OR	106.7	CP	BPCDT	-20080215APP
12	KDRV	MEDFORD OR	106.6	PLN	DTVPLN	-DTVP0399

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## Analysis of Interference to Affected Station 1

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTVL	MEDFORD OR	BPCDT	-20080305AEC

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KIXE-TV	REDDING CA	164.5	CP	BPEDT	-20080314ABM
09	KIXE-TV	REDDING CA	164.5	PLN	DTVPLN	-DTVP0182
09	KEZI	EUGENE OR	227.2	PLN	DTVPLN	-DTVP0216
09	KEZI	EUGENE OR	227.2	CP	BPCDT	-20080219AGP
10	KOPB-TV	PORTLAND OR	382.4	PLN	DTVPLN	-DTVP0288
10	KOPB-TV	PORTLAND OR	382.4	CP	BPEDT	-20080215ABK
11	KEET	EUREKA CA	183.2	LIC	BLEDT	-20071101AAG
11	KEET	EUREKA CA	183.2	PLN	DTVPLN	-DTVP0306
11	KCBY-TV	COOS BAY OR	185.5	PLN	DTVPLN	-DTVP0340
11	KCBYDT	COOS BAY OR	185.5	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.
10	KTVL	MEDFORD OR	DTVPLN	-DTVP0287

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KIXE-TV	REDDING CA	164.5	CP	BPEDT	-20080314ABM
09	KIXE-TV	REDDING CA	164.5	PLN	DTVPLN	-DTVP0182
09	KEZI	EUGENE OR	227.2	PLN	DTVPLN	-DTVP0216

# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

09	KEZI	EUGENE OR	227.2	CP	BPCDT	-20080219AGP
10	KOPB-TV	PORTLAND OR	382.4	PLN	DTVPLN	-DTVP0288
10	KOPB-TV	PORTLAND OR	382.4	CP	BPEDT	-20080215ABK
11	KEET	EUREKA CA	183.2	LIC	BLEDT	-20071101AAG
11	KEET	EUREKA CA	183.2	PLN	DTVPLN	-DTVP0306
11	KCBY-TV	COOS BAY OR	185.5	PLN	DTVPLN	-DTVP0340
11	KCBYDT	COOS BAY OR	185.5	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.
11	KEET	EUREKA CA	BLEDT -20071101AAG

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KTVL	MEDFORD OR	183.2	CP	BPCDT -20080305AEC
10	KTVL	MEDFORD OR	183.2	PLN	DTVPLN -DTVP0287
11	KCBY-TV	COOS BAY OR	296.3	PLN	DTVPLN -DTVP0340
12	KDRV	MEDFORD OR	226.8	CP	BPCDT -20080215APP
12	KDRV	MEDFORD OR	226.9	PLN	DTVPLN -DTVP0399
11	KCBYDT	COOS BAY OR	296.3	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.
11	KEET	EUREKA CA	DTVPLN -DTVP0306

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KTVL	MEDFORD OR	183.2	CP	BPCDT -20080305AEC
10	KTVL	MEDFORD OR	183.2	PLN	DTVPLN -DTVP0287
11	KCBY-TV	COOS BAY OR	296.3	PLN	DTVPLN -DTVP0340
12	KDRV	MEDFORD OR	226.9	CP	BPCDT -20080215APP
12	KDRV	MEDFORD OR	226.9	PLN	DTVPLN -DTVP0399
11	KCBYDT	COOS BAY OR	296.3	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.
11	KOAB-TV	BEND OR	BLEDT -20060823AAP

# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KOPB-TV	PORTLAND OR	195.4	PLN	DTVPLN	-DTVP0288
10	KOPB-TV	PORTLAND OR	195.4	CP	BPEDT	-20080215ABK
11	KCBY-TV	COOS BAY OR	237.3	PLN	DTVPLN	-DTVP0340
11	KFFX-TV	PENDLETON OR	318.9	CP	BPCDT	-20080331ADS
11	KFFX-TV	PENDLETON OR	318.9	PLN	DTVPLN	-DTVP0341
11	KFFX-TV	PENDLETON OR	318.9	APP	BMPCDT	-20080617AEB
11	KSTW	TACOMA WA	400.4	APP	BMPCDT	-20080617ACH
11	KSTW	TACOMA WA	400.4	PLN	DTVPLN	-DTVP0355
11	KSTW	TACOMA WA	400.4	CP	BPCDT	-20080314AAV
12	KDRV	MEDFORD OR	217.3	CP	BPCDT	-20080215APP
12	KDRV	MEDFORD OR	217.3	PLN	DTVPLN	-DTVP0399
12	KPTV	PORTLAND OR	195.5	PLN	DTVPLN	-DTVP0400
12	KPTV	PORTLAND OR	195.5	CP MOD	BMPCDT	-20080602BLU
11	KCBYDT	COOS BAY OR	237.3	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.
11	KOAB-TV	BEND OR	DTVPLN	-DTVP0339

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KOPB-TV	PORTLAND OR	195.4	PLN	DTVPLN	-DTVP0288
10	KOPB-TV	PORTLAND OR	195.4	CP	BPEDT	-20080215ABK
11	KCBY-TV	COOS BAY OR	237.3	PLN	DTVPLN	-DTVP0340
11	KFFX-TV	PENDLETON OR	318.9	CP	BPCDT	-20080331ADS
11	KFFX-TV	PENDLETON OR	318.9	PLN	DTVPLN	-DTVP0341
11	KFFX-TV	PENDLETON OR	318.9	APP	BMPCDT	-20080617AEB
11	KSTW	TACOMA WA	400.4	APP	BMPCDT	-20080617ACH
11	KSTW	TACOMA WA	400.4	PLN	DTVPLN	-DTVP0355
11	KSTW	TACOMA WA	400.4	CP	BPCDT	-20080314AAV
12	KDRV	MEDFORD OR	217.3	CP	BPCDT	-20080215APP
12	KDRV	MEDFORD OR	217.3	PLN	DTVPLN	-DTVP0399
12	KPTV	PORTLAND OR	195.5	PLN	DTVPLN	-DTVP0400
12	KPTV	PORTLAND OR	195.5	CP MOD	BMPCDT	-20080602BLU
11	KCBYDT	COOS BAY OR	237.3	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.
12	KDRV	MEDFORD OR	BPCDT	-20080215APP

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

11	KEET	EUREKA CA	226.8	LIC	BLEDT	-20071101AAG
11	KEET	EUREKA CA	226.9	PLN	DTVPLN	-DTVP0306
11	KOAB-TV	BEND OR	217.3	LIC	BLEDT	-20060823AAP
11	KOAB-TV	BEND OR	217.3	PLN	DTVPLN	-DTVP0339
11	KCBY-TV	COOS BAY OR	106.7	PLN	DTVPLN	-DTVP0340
12	KPTV	PORTLAND OR	316.9	PLN	DTVPLN	-DTVP0400
12	KPTV	PORTLAND OR	316.9	CP MOD	BMPCDT	-20080602BLU
13	KVAL-TV	EUGENE OR	145.9	PLN	DTVPLN	-DTVP0464
13	KVAL-TV	EUGENE OR	145.9	CP	BPCDT	-20080617ADK
13	KOTI	KLAMATH FALLS OR	146.8	PLN	DTVPLN	-DTVP0465
13	KOTI	KLAMATH FALLS OR	146.8	LIC	BLCDT	-20060525AHY
11	KCBYDT	COOS BAY OR	106.7	APP	USERRECORD-01	

Total scenarios = 8

Result key: 3  
 Scenario 3 Affected station 7  
 Before Analysis

Results for: 12A OR MEDFORD BPCDT 20080215APP CP

HAAT 823.0 m, ATV ERP 16.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	480216	48020.0
not affected by terrain losses	391082	36443.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4488	488.9
lost to ATV IX only	4488	488.9
lost to all IX	4488	488.9

Potential Interfering Stations Included in above Scenario 3

12A OR PORTLAND	DTVPLN	DTVP0400	PLN
13A OR EUGENE	BPCDT	20080617ADK	CP
13A OR KLAMATH FALLS	DTVPLN	DTVP0465	PLN
11A OR COOS BAY	DTVPLN	DTVP0340	PLN

After Analysis

Results for: 12A OR MEDFORD BPCDT 20080215APP CP

HAAT 823.0 m, ATV ERP 16.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	480216	48020.0
not affected by terrain losses	391082	36443.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5094	496.9
lost to ATV IX only	5094	496.9
lost to all IX	5094	496.9

Potential Interfering Stations Included in above Scenario 3

12A OR PORTLAND	DTVPLN	DTVP0400	PLN
13A OR EUGENE	BPCDT	20080617ADK	CP
13A OR KLAMATH FALLS	DTVPLN	DTVP0465	PLN
11A OR COOS BAY	USERRECORD01		APP

Percent new IX = 0.1568%

Worst case new IX 0.1568% Scenario 3

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# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KDRV	MEDFORD OR	DTVPLN	-DTVP0399

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KEET	EUREKA CA	226.9	LIC	BLEDT	-20071101AAG
11	KEET	EUREKA CA	226.9	PLN	DTVPLN	-DTVP0306
11	KOAB-TV	BEND OR	217.3	LIC	BLEDT	-20060823AAP
11	KOAB-TV	BEND OR	217.3	PLN	DTVPLN	-DTVP0339
11	KCBY-TV	COOS BAY OR	106.6	PLN	DTVPLN	-DTVP0340
12	KPTV	PORTLAND OR	316.9	PLN	DTVPLN	-DTVP0400
12	KPTV	PORTLAND OR	316.9	CP MOD	BMPCDT	-20080602BLU
13	KVAL-TV	EUGENE OR	145.9	PLN	DTVPLN	-DTVP0464
13	KVAL-TV	EUGENE OR	145.9	CP	BPCDT	-20080617ADK
13	KOTI	KLAMATH FALLS OR	146.9	PLN	DTVPLN	-DTVP0465
13	KOTI	KLAMATH FALLS OR	146.9	LIC	BLCDT	-20060525AHY
11	KCBYDT	COOS BAY OR	106.6	APP	USERRECORD-01	

Total scenarios = 8

Result key: 11  
 Scenario 3 Affected station 8  
 Before Analysis

Results for: 12A OR MEDFORD DTVPLN DTVP0399 PLN  
 HAAT 823.0 m, ATV ERP 16.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	476299	47313.6
not affected by terrain losses	386052	35714.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8723	468.8
lost to ATV IX only	8723	468.8
lost to all IX	8723	468.8

Potential Interfering Stations Included in above Scenario 3

12A OR PORTLAND	DTVPLN	DTVP0400	PLN
13A OR EUGENE	BPCDT	20080617ADK	CP
13A OR KLAMATH FALLS	DTVPLN	DTVP0465	PLN
11A OR COOS BAY	DTVPLN	DTVP0340	PLN

After Analysis

Results for: 12A OR MEDFORD DTVPLN DTVP0399 PLN  
 HAAT 823.0 m, ATV ERP 16.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	476299	47313.6
not affected by terrain losses	386052	35714.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8729	500.8
lost to ATV IX only	8729	500.8
lost to all IX	8729	500.8

Potential Interfering Stations Included in above Scenario 3

# KCBY-DT, Coos Bay, OR, OET-69 Post-Transition Interference Analysis (Worst-Case Scenarios)

12A OR PORTLAND	DTVPLN	DTVP0400	PLN
13A OR EUGENE	BPCDT	20080617ADK	CP
13A OR KLAMATH FALLS	DTVPLN	DTVP0465	PLN
11A OR COOS BAY	USERRECORD01		APP

Percent new IX = 0.0016%

Worst case new IX 0.0016% Scenario 3

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KCBYDT	COOS BAY OR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KTVL	MEDFORD OR	185.5	CP	BPCDT -20080305AEC
10	KTVL	MEDFORD OR	185.5	PLN	DTVPLN -DTVP0287
11	KEET	EUREKA CA	296.3	LIC	BLEDT -20071101AAG
11	KEET	EUREKA CA	296.3	PLN	DTVPLN -DTVP0306
11	KOAB-TV	BEND OR	237.3	LIC	BLEDT -20060823AAP
11	KOAB-TV	BEND OR	237.3	PLN	DTVPLN -DTVP0339
12	KDRV	MEDFORD OR	106.7	CP	BPCDT -20080215APP
12	KDRV	MEDFORD OR	106.6	PLN	DTVPLN -DTVP0399

Total scenarios = 1

Result key: 17

Scenario 1 Affected station 9

Before Analysis

Results for: 11A OR COOS BAY USERRECORD01 APP

HAAT 184.0 m, ATV ERP 5.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	87263	15637.2
not affected by terrain losses	72642	14474.7
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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