

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-22-2009 Time: 11:00:45

Record Selected for Analysis

KOXO-CA USERRECORD-01 NEWBERG OR US
Channel 06 ERP 3. kW HAAT 475. m RCAMSL 00525 m
Latitude 045-31-21 Longitude 0122-44-45
Status APP Zone 2 Border Offset -
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)	62.0 dBu F(50,50) (km)
0.0	3.000	453.2	43.6
45.0	3.000	474.9	44.7
90.0	3.000	450.5	43.5
135.0	3.000	415.0	41.8
180.0	3.000	441.8	43.1
225.0	3.000	421.6	42.1
270.0	3.000	459.1	43.9
315.0	3.000	366.9	39.7

Evaluation from Class A Station

No Spacing violations or contour overlap from Class A station

Contour Overlap Evaluation from Class A Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

Station inside contour of station

KRCW-LP 5 PORTLAND OR BDFCDTT 20060328AAF

Station inside contour of station

KRCW-LP 5 PORTLAND OR BDFCDVL 20090505ABD

Station inside contour of station

KRCW-LP 5 PORTLAND OR BLTVL 20050414ABQ

Contour overlap to station

K06PA 6 REDMOND OR BNPTVL 20000829ANN

Contour overlap to station

K06IO 6 SCOTTSBURG OR BLTTV 4549

Contour overlap to station

K06NI 6 THE DALLES OR BLTVL 20050309ACR

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station

KRCW-LP 5 PORTLAND OR BLTVL20050414ABQ

Is inside contour of station

KOXO-CA 6 NEWBERG OR USERRECORD01

Station

K06PA 6 REDMOND OR BNPTVL20000829ANN causes

Contour overlap to station

KOXO-CA 6 NEWBERG OR USERRECORD01

Station

K06NI 6 THE DALLES OR BLTVL20050309ACR causes

Contour overlap to station

KOXO-CA 6 NEWBERG OR USERRECORD01

Contour Overlap Evaluation to Proposed Station 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 within the Canadian coordination distance

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

Distance to border = 305.9km

Proposed facility is beyond the Mexican coordination distance

Proposed station is 1.31km from AM station

PORTLAND OR KUPL Status: L Antenna: DAN

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
06	KOXO-CA	NEWBERG OR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	KRCW-LP	PORTLAND OR	1.2	CP	BDFCDTT	-20060328AAF
05	KRCW-LP	PORTLAND OR	1.2	APP	BDFCDVL	-20090505ABD
05	KRCW-LP	PORTLAND OR	1.2	LIC	BLTVL	-20050414ABQ
06	K06PA	REDMOND OR	185.4	CP	BNPTVL	-20000829ANN
06	K06IO	SCOTTSBURG OR	226.4	LIC	BLTTV	-4549
06	K06NI	THE DALLES OR	128.4	LIC	BLTVL	-20050309ACR

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	KRCW-LP	PORTLAND OR	BDFCDTT	-20060328AAF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	K05LE	ASTORIA OR	124.2	LIC	BLTVL	-20060106ADL
05	K05GZ	BLACK BUTTE RANCH OR	153.2	LIC	BLTTV	-19801215II
05	K05KY	LINCOLN CITY OR	133.2	LIC	BLTVL	-20050309ACK
05	KOBI	MEDFORD OR	316.4	CP	BPCDT	-20080312AAM
05	KOBI	MEDFORD OR	315.8	PLN	DTVPLN	-DTVP0026
05	K05AP	TROUT LAKE WA	110.9	LIC	BLTTV	-3284
06	KOXO-CA	NEWBERG OR	1.2	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.
05	KRCW-LP	PORTLAND OR	BDFCDVL	-20090505ABD

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	K05LE	ASTORIA OR	124.2	LIC	BLTVL	-20060106ADL
05	K05GZ	BLACK BUTTE RANCH OR	153.2	LIC	BLTTV	-19801215II
05	K05KY	LINCOLN CITY OR	133.2	LIC	BLTVL	-20050309ACK
05	KOBI	MEDFORD OR	316.4	CP	BPCDT	-20080312AAM
05	KOBI	MEDFORD OR	315.8	PLN	DTVPLN	-DTVP0026
05	K05AP	TROUT LAKE WA	110.9	LIC	BLTTV	-3284
06	KOXO-CA	NEWBERG OR	1.2	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.
05	KRCW-LP	PORTLAND OR	BLTVL	-20050414ABQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	K05LE	ASTORIA OR	124.2	LIC	BLTVL	-20060106ADL
05	K05GZ	BLACK BUTTE RANCH OR	153.2	LIC	BLTTV	-19801215II
05	K05KY	LINCOLN CITY OR	133.2	LIC	BLTVL	-20050309ACK
05	K05DF	MAPLETON OR	185.1	LIC	BLTTV	-1865
05	KOBI	MEDFORD OR	316.4	CP	BPCDT	-20080312AAM
05	KOBI	MEDFORD OR	315.8	PLN	DTVPLN	-DTVP0026
05	NEW	PRINEVILLE OR	201.3	APP	BNPTVL	-20000831BPH
05	K05MG	SWEET HOME OR	122.5	CP	BNPTVL	-20000831BPF
05	K05KX	TILLAMOOK OR	86.7	LIC	BLTVL	-20050309ACQ
05	K05AP	TROUT LAKE WA	110.9	LIC	BLTTV	-3284
06	KOXO-CA	NEWBERG OR	1.2	CP	BDISTVA	-20081006AIS
06	KOXO-CA	NEWBERG OR	1.2	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 3 KRCW-LP

Before Analysis

Results for: 5N OR PORTLAND BLTVL 20050414ABQ LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	1812448	5292.2
not affected by terrain losses	1810102	5174.2
lost to NTSC IX	4038	140.6
lost to additional IX by ATV	0	0.0
lost to all IX	4038	140.6

Potential Interfering Stations Included in above Scenario 1

5N OR ASTORIA BLTVL 20060106ADL LIC

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

5N OR LINCOLN CITY BLTVL 20050309ACK LIC

After Analysis

Results for: 5N OR PORTLAND BLTVL 20050414ABQ LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	1812448	5292.2
not affected by terrain losses	1810102	5174.2
lost to NTSC IX	4049	142.6
lost to additional IX by ATV	0	0.0
lost to all IX	4049	142.6

Potential Interfering Stations Included in above Scenario 1

5N OR ASTORIA	BLTVL	20060106ADL	LIC
5N OR LINCOLN CITY	BLTVL	20050309ACK	LIC
6N OR NEWBERG	USERRECORD01		APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
06	K06PA	REDMOND OR	BNPTVL	-20000829ANN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	K05GZ	BLACK BUTTE RANCH OR	59.3	LIC	BLTTV	-19801215II
05	KRCW-LP	PORTLAND OR	184.2	CP	BDFCDTT	-20060328AAF
05	KRCW-LP	PORTLAND OR	184.2	APP	BDFCDVL	-20090505ABD
05	NEW	PRINEVILLE OR	18.1	APP	BNPTVL	-20000831BPH
06	K06LI	CHEMULT OR	139.9	LIC	BLTTV	-19900830IK
06	K06NS-D	CHILOQUIN OR	250.4	LIC	BLDTV	-20090126ABJ
06	K06AB	LONG CREEK OR	145.4	LIC	BRTTV	-19790214IG
06	KOXO-CA	NEWBERG OR	185.4	CP	BDISTVA	-20081006AIS
06	K06JN	SEVERANCE RANCH, ETC OR	57.2	LIC	BLTTV	-19790614IB
06	K06NI	THE DALLES OR	142.2	LIC	BLTVL	-20050309ACR
06	KOXO-CA	NEWBERG OR	185.4	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.
06	K06IO	SCOTTSBURG OR	BLTTV	-4549

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	KOBI	MEDFORD OR	115.6	CP	BPCDT	-20080312AAM
05	KOBI	MEDFORD OR	115.1	PLN	DTVPLN	-DTVP0026
05	KRCW-LP	PORTLAND OR	226.1	CP	BDFCDTT	-20060328AAF
05	KRCW-LP	PORTLAND OR	226.1	APP	BDFCDVL	-20090505ABD
06	KFMD-LD	REDDING CA	348.5	CP MOD	BMPDVL	-20081219AFN
06	K06LI	CHEMULT OR	174.1	LIC	BLTTV	-19900830IK
06	K06NS-D	CHILOQUIN OR	227.3	LIC	BLDTV	-20090126ABJ
06	K06PA	REDMOND OR	246.1	CP	BNPTVL	-20000829ANN
06	KOXO-CA	NEWBERG OR	226.4	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.
06	K06NI	THE DALLES OR	BLTVL	-20050309ACR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	KRCW-LP	PORTLAND OR	127.6	CP	BDFCDTT	-20060328AAF
05	KRCW-LP	PORTLAND OR	127.6	APP	BDFCDVL	-20090505ABD
05	K05AP	TROUT LAKE WA	42.3	LIC	BLTTV	-3284
06	K06NS-D	CHILOQUIN OR	386.8	LIC	BLDTV	-20090126ABJ
06	K06AB	LONG CREEK OR	192.2	LIC	BRTTV	-19790214IG
06	KOXO-CA	NEWBERG OR	128.4	CP	BDISTVA	-20081006AIS
06	K06PA	REDMOND OR	142.2	CP	BNPTVL	-20000829ANN
06	K06JN	SEVERANCE RANCH, ETC OR	187.9	LIC	BLTTV	-19790614IB
06	K59BF	BAKER FLATS, ECT WA	207.1	CP	BDISTTV	-20080225AAD
06	KOXO-CA	NEWBERG OR	128.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2

Scenario 1 Affected station 6 K06NI

Before Analysis

Results for: 6N OR THE DALLES BLTVL 20050309ACR LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	30971	2558.2
not affected by terrain losses	29693	2435.6
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

Post-Transition OET-69 Interference Analysis (KOXO-CA, Newberg, OR, Channel 6)

5A OR PORTLAND BDFCDTT 20060328AAF CP

Result key: 4
Scenario 2 Affected station 7 KOXO-CA
Before Analysis

Results for: 6N OR NEWBERG	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	1843663	5756.9
not affected by terrain losses	1836701	5595.7
lost to NTSC IX	26344	117.0
lost to additional IX by ATV	0	0.0
lost to all IX	26344	117.0

Potential Interfering Stations Included in above Scenario 2

5N OR PORTLAND	BLTVL	20050414ABQ	LIC
5A OR PORTLAND	BDFCDVL	20090505ABD	APP

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