OET-69 Interference Analysis (Proposed KOHD, Bend, OR, Ch. 18) (Summary Results)

```
Percent allowed new interference:   0.500
Percent allowed new interference to non Class A LPTV:   2.000
 TW Census data selected 2000
 Data Base Selected
 /export/home/cdbs/pt_tvdb.sff
              TV INTERFERENCE and SPACING ANALYSIS PROGRAM


 Date: 05-21-2015

 Record Selected for Analysis

 KOHD     USERRECORD-01               BEND                  OR US
 Channel 18 ERP 84.1   kW   HAAT  221. m  RCAMSL 01361 m
 Latitude 044-04-40  Longitude 0121-19-56
 Status APP       Zone 2    Border      Site number: 01
 Dir Antenna Make CDB  Model 00000000075180  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 (site # 01) meets maximum height/power limits

    Site number  1
    Azimuth     ERP        HAAT   41.0 dBu F(50,90)
     (Deg)      (kW)       (m)        (km)
      0.0       30.175     371.6       77.279
     45.0       79.456     344.0       81.261
     90.0       70.873     305.2       76.836
    135.0       72.973     215.5       70.154
    180.0       74.311     146.3       65.079
    225.0       24.980      82.7       53.811
    270.0        2.847      33.0       32.900
    315.0        2.745     274.4       57.154

Database HAAT does not agree with computed HAAT
Database HAAT:      221  Computed HAAT:      222




             Evaluation toward Class A Stations from site # 01


No Spacing violations or contour overlap
to Class A stations from site # 01


                    Class A Evaluation Complete



                    Checks to Site Number 01

 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
```

OET-69 Interference Analysis (Proposed KOHD, Bend, OR, Ch. 18) (Summary Results)

Proposed station is OK toward AM broadcast stations

****

Start of Interference Analysis

Proposed Station

Channel	Call	City/State	ARN
18	KOHD	BEND OR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KABH-CD	BEND OR	0.4	LIC	BLDTA	20131029ABN
17	KMTR	EUGENE OR	133.1	LIC	BLCDT	20030618AAY
18	KCLP-CA	BOISE ID	420.6	APP	BDFCDTA	20130819AAH
18	KOHD-DR	BEND OR	0.0	APP	BPRM	20150406ACT
18	KTVC	ROSEBURG OR	185.4	APP	BPCDT	20110311ACC
18	KTVC	ROSEBURG OR	185.3	LIC	BLCDT	20060721AAR
18	KEPR-TV	PASCO WA	280.4	LIC	BLCDT	20140717ABN
19	K19GH-D	EUGENE, ETC. OR	133.1	LIC	BLDTA	20091211AEO
19	KPIC	ROSEBURG OR	185.4	LIC	BLCDT	20120423ABP

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	KABH-CD	BEND OR	BLDTA	-20131029ABN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	K16KI-D	BEND OR	0.0	CP	BNPDTL	-20100716ACW
16	KOAB-TV	MADRAS OR	57.8	LIC	BLEDT	-20120427AAO
16	K16EM-D	PRINEVILLE, ETC. OR	50.1	LIC	BLDTT	-20091124AHA
17	K17LY-D	BEND OR	0.0	CP	BNPDTL	-20100716ACU
17	K17DU-D	CHRISTMAS VALLEY OR	107.4	LIC	BLDTL	-20120605AAZ
17	KMTR	EUGENE OR	133.4	LIC	BLCDT	-20030618AAY
18	DK53JV	BEND OR	0.4	CP	BDISDTT	-20090820ADP
18	KOHD	BEND OR	0.4	PLN	DTVPLN	-DTVP0635
18	KOHD-DR	BEND OR	0.4	APP	BPRM	-20150406ACT
18	KOHD	BEND OR	0.4	APP	USERRECORD	-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 17A OR BEND BLDTA 20131029ABN LIC
HAAT 327.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	135146	7824.4
not affected by terrain losses	133540	7160.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6315	344.2
lost to ATV IX only	6315	344.2
lost to all IX	6315	344.2

Potential Interfering Stations Included in above Scenario 1

16A OR MADRAS	BLEDT	20120427AAO	LIC
16A OR PRINEVILLE, ETC.	BLDTT	20091124AHA	LIC
17A OR BEND	BNPDTL	20100716ACU	CP
17A OR EUGENE	BLCDT	20030618AAY	LIC
18A OR BEND	BDISDTT	20090820ADP	CP

After Analysis

```
Results for: 17A OR BEND                BLDTA     20131029ABN  LIC
   HAAT  327.0 m, ATV ERP   15.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour      135146       7824.4
   not affected by terrain losses    133540       7160.1
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        6380        360.2
   lost to ATV IX only                 6380        360.2
   lost to all IX                      6380        360.2

 Potential Interfering Stations Included in above Scenario     1

16A OR MADRAS               BLEDT     20120427AAO  LIC
16A OR PRINEVILLE, ETC.     BLDTT     20091124AHA  LIC
17A OR BEND                 BNPDTL    20100716ACU  CP
17A OR EUGENE               BLCDT     20030618AAY  LIC
18A OR BEND                 BDISDTT   20090820ADP  CP
18A OR BEND                 USERRECORD01           APP

Percent new IX =    0.0511%

Worst case new IX    0.0511% Scenario      1

################################################################################


     Analysis of Interference to Affected Station   2


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   17      KMTR       EUGENE OR                BLCDT     -20030618AAY

     Stations Potentially Affecting This Station

Proposal causes no interference

################################################################################


     Analysis of Interference to Affected Station   3


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   18      KCLP-CA    BOISE ID                 BDFCDTA   -20130819AAH

     Stations Potentially Affecting This Station

 Proposed station is beyond the site to
 nearest cell evaluation distance

################################################################################


     Analysis of Interference to Affected Station   4


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   18      KOHD-DR    BEND OR                  BPRM      -20150406ACT

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 17   KMTR     EUGENE OR               133.1  LIC    BLCDT     -20030618AAY
 18   KOHD     BEND OR                   0.0  PLN    DTVPLN    -DTVP0635
 18   KTVC     ROSEBURG OR             185.4  APP    BPCDT     -20110311ACC
 18   KTVC     ROSEBURG OR             185.3  LIC    BLCDT     -20060721AAR
 18   KEPR-TV  PASCO WA                280.3  LIC    BLCDT     -20140717ABN
 19   KPIC     ROSEBURG OR             185.4  LIC    BLCDT     -20120423ABP
 18   KOHD     BEND OR                   0.0  APP    USERRECORD-01

 Total scenarios =   1
```

```
Result key:        2
Scenario        1  Affected station        4
Before Analysis

Results for: 18A OR BEND                BPRM      20150406ACT  APP
   HAAT  206.0 m, ATV ERP   84.1 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour      153726      14356.5
   not affected by terrain losses    151945      11807.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      145474       8965.3
   lost to ATV IX only               145474       8965.3
   lost to all IX                    145474       8965.3

 Potential Interfering Stations Included in above Scenario     1

18A OR BEND                DTVPLN    DTVP0635     PLN

After Analysis

Results for: 18A OR BEND                BPRM      20150406ACT  APP
   HAAT  206.0 m, ATV ERP   84.1 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour      153726      14356.5
   not affected by terrain losses    151945      11807.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      145474       8965.3
   lost to ATV IX only               145474       8965.3
   lost to all IX                    145474       8965.3

 Potential Interfering Stations Included in above Scenario     1

18A OR BEND                USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

################################################################################


     Analysis of Interference to Affected Station   5


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   18      KTVC       ROSEBURG OR              BPCDT     -20110311ACC

     Stations Potentially Affecting This Station

Proposal causes no interference

################################################################################


     Analysis of Interference to Affected Station   6


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   18      KTVC       ROSEBURG OR              BLCDT     -20060721AAR

     Stations Potentially Affecting This Station

Proposal causes no interference

################################################################################


     Analysis of Interference to Affected Station   7
```

OET-69 Interference Analysis (Proposed KOHD, Bend, OR, Ch. 18) (Summary Results)

```
Analysis of current record
Channel     Call           City/State        Application Ref. No.
   18      KEPR-TV    PASCO WA                 BLCDT     -20140717ABN

     Stations Potentially Affecting This Station

Proposal causes no interference

##############################################################################


     Analysis of Interference to Affected Station   8


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   19      K19GH-D    EUGENE, ETC. OR          BLDTA     -20091211AEO

     Stations Potentially Affecting This Station

Proposal causes no interference

##############################################################################


     Analysis of Interference to Affected Station   9


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   19      KPIC       ROSEBURG OR              BLCDT     -20120423ABP

     Stations Potentially Affecting This Station

 Proposed station is beyond the site to
 nearest cell evaluation distance

##############################################################################




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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
```