LOHNES AND CULVER
TELEVISION AND RADIO CONSULTING ENGINEERS
8309 CHERRY LANE, LAUREL, MD 20707
OFFICE (301)776-4488

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
/space/software/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-29-2011 Time: 11:08:31

Record Selected for Analysis

NEW USERRECORD-01 SEAFORD DE US
Channel 05 ERP 10. kW HAAT 144. m RCAMSL 00153 m
Latitude 038-57-17 Longitude 0076-05-35
Status APP Zone 1 Border Site number: 01
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 (Deg) | ERP (kW) | HAAT (m) | 28.0 dBu F(50,90) (km) |
|---|---|---|---|
| 0.0 | 10.000 | 139.7 | 91.1 |
| 45.0 | 10.000 | 138.2 | 90.9 |
| 90.0 | 10.000 | 138.4 | 90.9 |
| 135.0 | 10.000 | 138.4 | 90.9 |
| 180.0 | 10.000 | 148.4 | 92.2 |
| 225.0 | 10.000 | 151.0 | 92.6 |
| 270.0 | 10.000 | 151.3 | 92.6 |
| 315.0 | 10.000 | 149.5 | 92.4 |

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



SPACING VIOLATION FOUND BETWEEN STATION

NEW 05 SEAFORD DE USERRECORD01 Site # 01

and station

SHORT TO: NEW 05 SEAFORD DE DTVPLN DTVP9999
038-39-15 0075-36-42
Req. separation 244.6 Actual separation 53.5 Short 191.1 km

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

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Proposed Station

| Channel | Call | City/State | ARN |
|---|---|---|---|
| 05 | NEW | SEAFORD DE | USERRECORD01 |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|---|---|---|---|---|---|---|
| 05 | W05BG | WILLIAMSPORT PA | 262.2 | LIC | BLTVL | 19880602IG |
| 05 | WJGN-CA | CHESAPEAKE VA | 233.9 | LIC | BLTVA | 20010926ABL |
| 05 | WDTV | WESTON WV | 368.5 | LIC | BLCDT | 20090612AJX |
| 06 | WPVI-TV | PHILADELPHIA PA | 141.5 | CP | BPCDT | 20090617ADQ |

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Analysis of Interference to Affected Station 1

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---|---|---|---|---|
| 05 | W05BG | WILLIAMSPORT PA | BLTVL | -19880602IG |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|---|---|---|---|---|---|---|
| 05 | NEW | SEAFORD DE | 307.3 | PLN | DTVPLN | -DTVP9999 |
| 05 | WDTV | WESTON WV | 357.7 | LIC | BLCDT | -20090612AJX |
| 05 | NEW | SEAFORD DE | 262.2 | 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 | WJGN-CA | CHESAPEAKE VA | BLTVA -20010926ABL |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|---|---|---|---|---|---|
| 05 | NEW | SEAFORD DE | 209.7 | PLN | DTVPLN -DTVP9999 |
| 05 | NEW | SEAFORD DE | 233.9 | 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 | WDTV | WESTON WV | BLCDT -20090612AJX |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|---|---|---|---|---|---|
| 05 | NEW | SEAFORD DE | 415.1 | PLN | DTVPLN -DTVP9999 |
| 05 | WLMB | TOLEDO OH | 412.5 | LIC | BLCDT -20050201AAF |
| 05 | WCYB-TV | BRISTOL VA | 352.7 | CP | BPCDT -20100408ABM |
| 05 | NEW | SEAFORD DE | 368.5 | APP | USERRECORD-01 |

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 3
Before Analysis

Results for: 5A WV WESTON BLCDT 20090612AJX LIC
HAAT 240.0 m, ATV ERP 10.0 kW

| | POPULATION | AREA (sq km) |
|---|---|---|
| within Noise Limited Contour | 958394 | 32515.7 |
| not affected by terrain losses | 867418 | 30554.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 1784 | 173.1 |
| lost to ATV IX only | 1784 | 173.1 |
| lost to all IX | 1784 | 173.1 |

Potential Interfering Stations Included in above Scenario 1

5A VA BRISTOL BPCDT 20100408ABM CP

After Analysis

Results for: 5A WV WESTON BLCDT 20090612AJX LIC
HAAT 240.0 m, ATV ERP 10.0 kW

| | POPULATION | AREA (sq km) |
|---|---|---|
| within Noise Limited Contour | 958394 | 32515.7 |
| not affected by terrain losses | 867418 | 30554.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 2675 | 269.8 |
| lost to ATV IX only | 2675 | 269.8 |
| lost to all IX | 2675 | 269.8 |



Potential Interfering Stations Included in above Scenario 1

5A VA BRISTOL BPCDT 20100408ABM CP
5A DE SEAFORD USERRECORD01 APP

Percent new IX = 0.1029%

Worst case new IX 0.1029% 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 | WPVI-TV | PHILADELPHIA PA | BPCDT -20090617ADQ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|---|---|---|---|---|---|
| 05 | NEW | SEAFORD DE | 157.8 | PLN | DTVPLN -DTVP9999 |
| 06 | WEDY | NEW HAVEN CT | 243.0 | LIC | BLEDT -20060906ABJ |
| 06 | WEDY | NEW HAVEN CT | 243.0 | CP MOD | BMPEDT -20020305AAU |
| 06 | WRGB | SCHENECTADY NY | 304.7 | CP | BPCDT -20090622ABV |
| 05 | NEW | SEAFORD DE | 141.5 | APP | USERRECORD-01 |

Total scenarios = 2

Result key: 2
Scenario 1 Affected station 4
Before Analysis

Results for: 6A PA PHILADELPHIA BPCDT 20090617ADQ CP
HAAT 332.0 m, ATV ERP 30.2 kW

| | POPULATION | AREA (sq km) |
|---|---|---|
| within Noise Limited Contour | 13105147 | 45533.4 |
| not affected by terrain losses | 12846353 | 44170.5 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 404455 | 834.7 |
| lost to ATV IX only | 404455 | 834.7 |
| lost to all IX | 404455 | 834.7 |

Potential Interfering Stations Included in above Scenario 1

6A CT NEW HAVEN BLEDT 20060906ABJ LIC
6A NY SCHENECTADY BPCDT 20090622ABV CP
5A DE SEAFORD DTVPLN DTVP9999 PLN

After Analysis

Results for: 6A PA PHILADELPHIA BPCDT 20090617ADQ CP
HAAT 332.0 m, ATV ERP 30.2 kW

| | POPULATION | AREA (sq km) |
|---|---|---|
| within Noise Limited Contour | 13105147 | 45533.4 |
| not affected by terrain losses | 12846353 | 44170.5 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 406404 | 871.0 |
| lost to ATV IX only | 406404 | 871.0 |
| lost to all IX | 406404 | 871.0 |

Potential Interfering Stations Included in above Scenario 1

6A CT NEW HAVEN BLEDT 20060906ABJ LIC

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 6A NY SCHENECTADY          BPCDT     20090622ABV  CP
 5A DE SEAFORD              USERRECORD01           APP

Percent new IX =    0.0157%

Result key:        3
Scenario        2  Affected station        4
Before Analysis

Results for:  6A PA PHILADELPHIA         BPCDT     20090617ADQ  CP
   HAAT  332.0 m, ATV ERP   30.2 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour    13105147      45533.4
   not affected by terrain losses  12846353      44170.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      404455        834.7
   lost to ATV IX only               404455        834.7
   lost to all IX                    404455        834.7

 Potential Interfering Stations Included in above Scenario     2

 6A CT NEW HAVEN            BMPEDT    20020305AAU  CP
 6A NY SCHENECTADY          BPCDT     20090622ABV  CP
 5A DE SEAFORD              DTVPLN    DTVP9999     PLN

After Analysis

Results for:  6A PA PHILADELPHIA         BPCDT     20090617ADQ  CP
   HAAT  332.0 m, ATV ERP   30.2 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour    13105147      45533.4
   not affected by terrain losses  12846353      44170.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      406404        871.0
   lost to ATV IX only               406404        871.0
   lost to all IX                    406404        871.0

 Potential Interfering Stations Included in above Scenario     2

 6A CT NEW HAVEN            BMPEDT    20020305AAU  CP
 6A NY SCHENECTADY          BPCDT     20090622ABV  CP
 5A DE SEAFORD              USERRECORD01           APP

Percent new IX =    0.0157%

Worst case new IX    0.0157% Scenario      1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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