

EXHIBIT 12  
TECHNICAL STATEMENT  
W230CO SEAFORD, DELAWARE 230D  
SEAFORD MEDIA, LLC  
FCC FORM 349  
JANUARY 2017

This Technical Statement is in support of a minor change application, FCC form 349, being filed on behalf of Seaford Media, LLC in regards to FM translator W230CO Seaford, Delaware, facility ID 146617. Seaford Media, LLC is proposing to change the antenna to a Nicom BKG77 2-bay antenna. The antenna will increase to 90 meters Above Ground Level with a Center of Radiation at 100 meters Above Mean Sea Level.

Figure 1 shows a channel interference study conducted from the proposed site. In the 1<sup>st</sup> line of the table of Figure 1, there is an apparent short spacing, but this is the same facility as this proposal and will be replaced by this application. The only pertinent records for further study are:

- 1) WZBH Millsboro, Delaware 228B License
- 2) WKYS Washington, DC 230B License

The proposed site is located within the protected contours of 2nd adjacent station WZBH Millsboro, Delaware on channel 228B. The predicted F(50-50) field strength at the proposed transmitter site of WZBH is 71.3 dB . The worst-case 2<sup>nd</sup> adjacent interference would be the 111.3 dB interference contour F(50,10) of W230CO. Figure 2 is an aerial image of the tower site.

Figure 3 is a table showing the vertical clearance of the interference contour based on the antenna relative field for various depression angles below horizontal for the antenna. The minimum vertical clearance is 2.5 meters at a depression angle from horizontal of 25 degrees and at a distance of 187.6 meters from the base of the tower. At a distance of from 150 meters to 200 meters from the base of the tower, there are no

inhabited buildings that are more than one story. At other distances from the base of the tower, the minimum vertical clearance is 8.4 meters and there are no buildings that would exceed that minimum vertical clearance within the 111.3 dB interference contour F(50,10) of W230CO. The applicant, Seaford Media, LLC, respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference.

Figure 4 is the predicted coverage map showing the 34 dB interference contour F(50,10) of the proposed operation and the 54 dB protected contour F(50,50) of WKYS Washington, DC on channel 230B. As can be seen, there is no prohibited overlap between these two contours.

The proposed operation of W230CO will operate as a fill-in translator for WDJO(AM), 1280 kHz, Seaford, Delaware. Figure 5 shows that the 60 dB contour of the proposed operation of W230CO is entirely within the WSUX 2 mV/m contour and within 25 miles of the WSUX transmitter site.

It was concluded that the proposed operation of W230CO in Seaford, Delaware on 230D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules. Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.