

Exhibit EE-1: Engineering Statement in support of
FCC FORM 349
APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER STA-
TION
(For an Existing FM Translator)

This engineering exhibit supports the relocation of FM translator W232CL (Facility ID 158533) from Roxana, DE to Baltimore, MD. The translator will be moved less than 250 miles and will be used as a fill-in facility for Class C AM station WRBS. This application is filed during the 250 mile window period in response to the public notice issued December 23, 2015, DA-149.

A single-bay, directional, antenna will be used to eliminate interference to class A, co-channel station, WRNR-FM.

The proposed facility is in compliance with 47 C.F.R. Section 1.1306 with regards to radio-frequency electromagnetic exposure in that the contribution to the rf environment is less than 5% of the maximum public exposure.

This application was prepared using FCC 30-arc-second terrain data.

This translator will operate as a fill-in facility for WRBS, an AM radio station licensed to Baltimore, MD. The maximum ERP is limited by interference, the WRBS 2mV contour and the 99W IF protection limit.

Attached as Figure 1 is a color coded map showing the protected contours and interfering contours of all relevant FM facilities.

Figure 2 shows the proposed 1mV service contour of this application compared with the 2mV service contour of WRBS.

Figure 3 demonstrates that this translator will be moving less than 403km and the application is acceptable during this filing window.

The proposal is sufficiently distant from all facilities mentioned in 73.1030(a), (b) & (c) so that notification under 73.1030 is not required.

Respectfully submitted

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PG-7T-6155
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Background:

W232CL is a construction permit near Roxana, DE. This application changes the location, antenna height and channel of the facility.

Figure 1: Contour analysis of Ch276, Baltimore, MD. Colors are referenced to W232CL proposed. Other facilities' colors should not overlap the same colors from W232CL. Overlapping colors from one affected station to another is okay.

Key:

Orange = Interfering 40dBu vs Protected (Co-chan)

Blue or cyan = Interfering 48dBu vs Protected (1st Adj)

Violet = Interfering 94dBu vs Protected (2nd/3rd adj)

Note: there are no class B or B1 co-channel stations nearby, thus the 40dBu is the only co-channel interfering contour shown

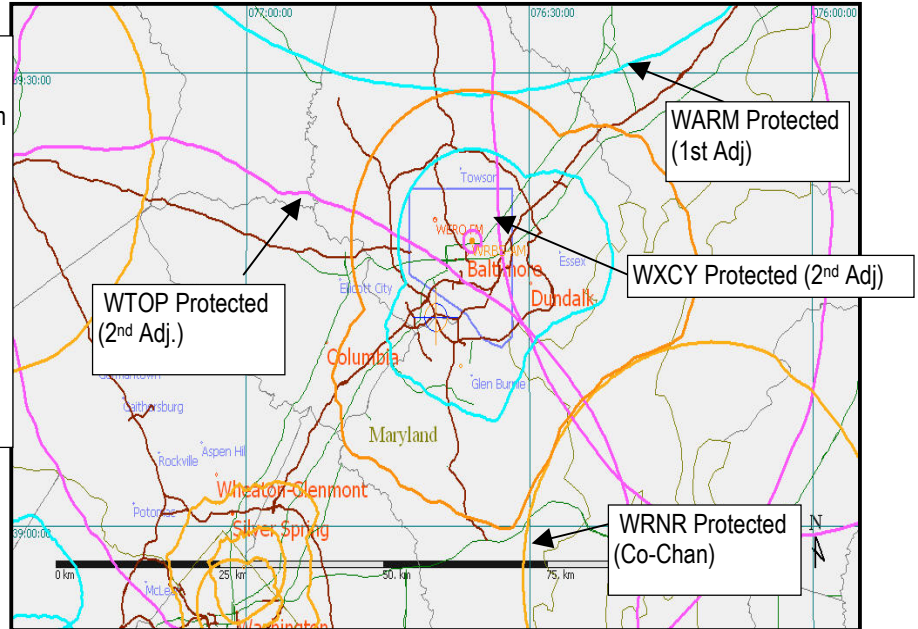
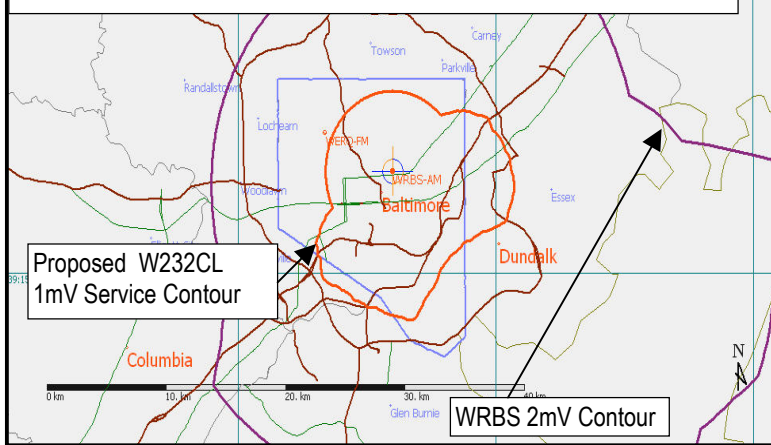


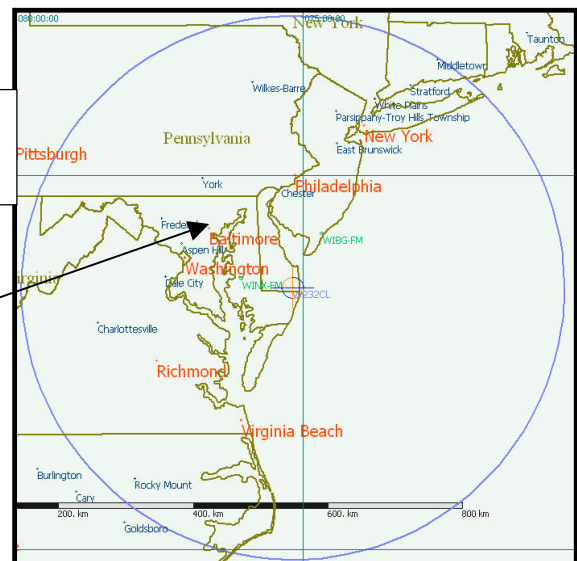
Figure 2 Shows the W232CL proposed 60dBu contour with the WRBS 66dBu contour. W232CL will broadcast from a vacated antenna on the WRBS tower.



Note that the W232CL 1mV service contour extends less than 40km from the WRBS antenna site

Figure 3: Shows that the proposed move is less than 250 miles, thus making the proposed move a minor change. The cross-hair is the present location.

Proposed W232CL Location



Section VII Engineering Data:

Tech Box Data:

1. Channel: **276**

Primary Station: **FID: 25527**

WRBS

Baltimore, MD

1230

Delivery Method: **Direct**

Antenna Location Coordinates: (NAD27):

39° 18' 50.4" N

76° 36' 00" W

Antenna Structure Registration: **1030332**

Antenna Location Site Elevation Above Mean Sea Level: **45.7 meters**

Overall Tower Height Above Ground Level: **61.6 meters**

Height of Radiation Center Above Ground Level: **60 meters AGL**

ERP:

0.099 kW (H)

0.099 kW (V)

Transmitting Antenna: **Directional Composite**

Fill-in Translator: **Yes** (see EE-1, Figure 3)

Interference: **Yes**

Section 74.1204, **Checked**. See EE-1, Figure 1

Section 74.1205, **Not Checked**.

Unattended operation: **Yes**

Multiple Translators: **Yes**

NEPA: **Yes**. This proposal is excluded from environmental processing: The rf exposure was modeled using "FM Model" for windows (from the FCC website) using a ring-stub single element antenna at a height of 107m. The modeled maximum rf near the base of the tower is 1.27uW/cm2, so no further processing is required. No changes to structure, lighting, land or water are proposed. Applicant will cease radiating if workers are near the antenna.

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