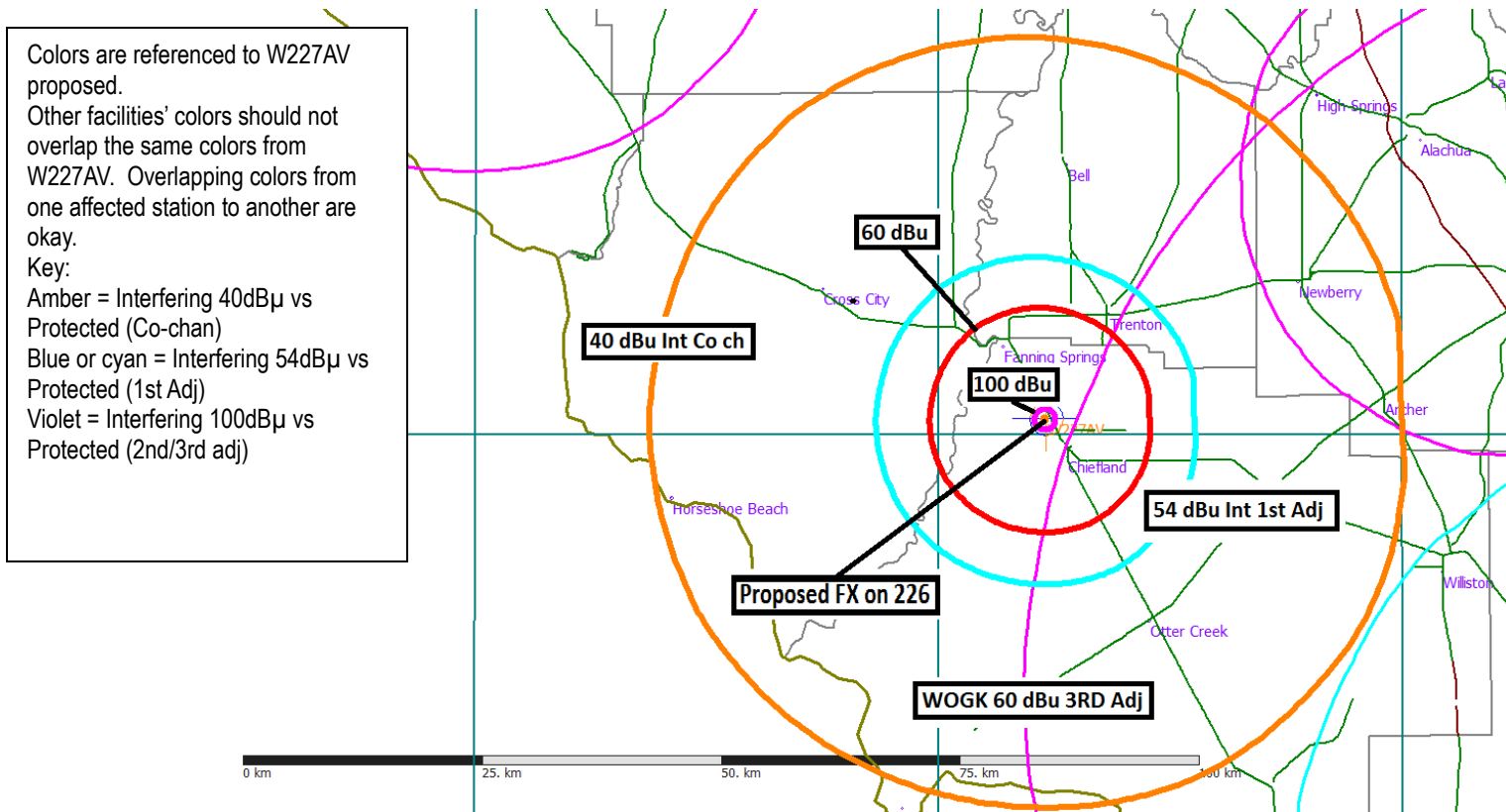


Engineering Report (EE-1): Engineering Statement in support of
FCC FORM 349

APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER
STATION
(For an Existing FM Translator)

Suncoast Radio, Inc., owner of W227AV seeks to locate on their adjacent channel 226. No other changes are proposed. This engineering is provided to support the change in frequency. W227AV is located on their primary station's tower WLQH 940 kHz FID = 72200. The tower has an ASRN of 1030716. The antenna and its height will not change however, it is restated for completeness. The site has an elevation of 12 meters AMSL and the antenna C/R is 81 meters AGL. Aside for the primary AM there are no other AM stations within four miles. Likewise, besides W227AV there are no other translators within ten kilometers.



From the above map, one can see that the proposed ch226 translator clears all spacing requirements for 47CFR74.1204.

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 1% of the maximum public exposure. FM Model shows that less than 2.0 uW/cm² will reach the ground.

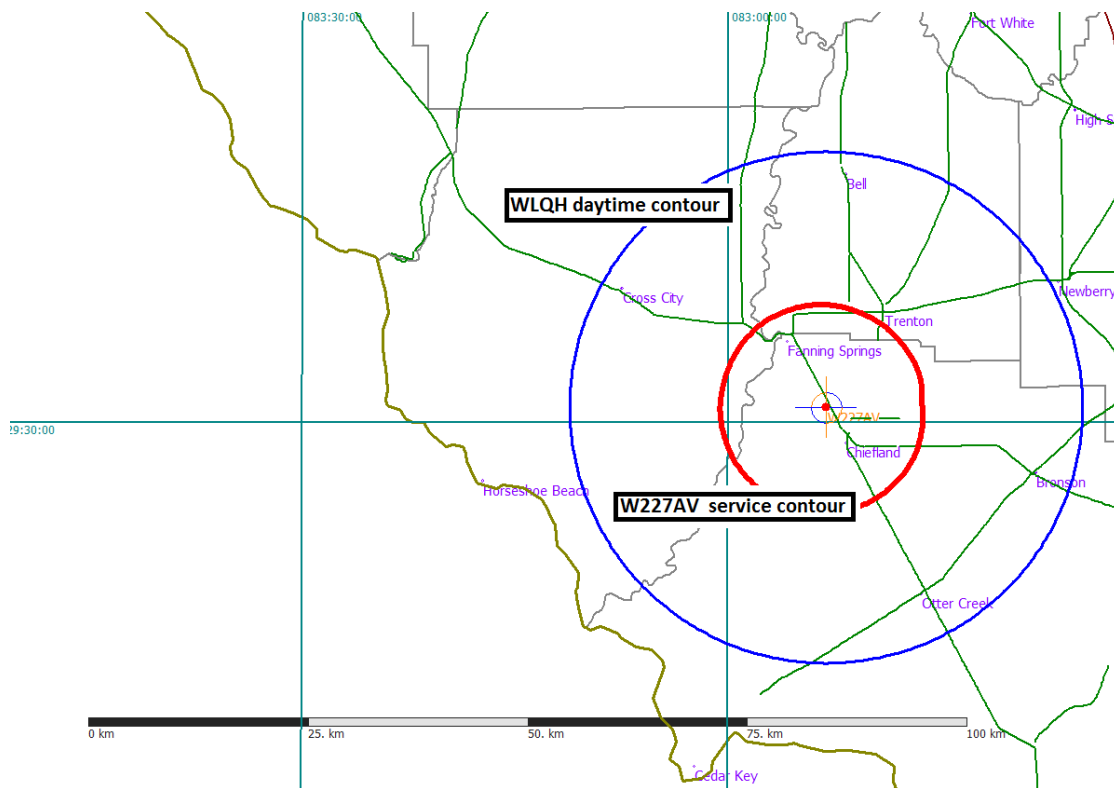
The antenna is a three bay full wave spaced, PSI FML-3 antenna whose lowest bay is 76 meters above a 2 meter person.

This application was prepared using FCC 30-arc-second terrain data for July 8, 2017.

This translator will continue to operate as a fill-in facility for WLQH AM, a standard broadcast station licensed to Chiefland, FL.

The maximum ERP is limited by the 250W class limit.

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



The above map shows that the W227AV service contour and consequently the channel 226 service contour are entirely enclosed by the WLQH day time contour.

Respectfully submitted,

Barry Magrill, P.E.

30 June 2017

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