

Notes: Originally WLRE-LP owned by Elloree Educational Association was on 105.5FM when it was first licensed but a few years later moved down to 92.9FM to clear 105.5 so a commercial station 18 air miles away could go from 6KW to 12KW and move up one frequency from 105.1 to 105.3FM. At the time WLRE-LP was also translated on W243CO at 96.5FM (at 56 meters AGL) on the same location and tower as WLRE-LP 105.5/92.9FM ( 30 meters AGL) so even though the move from 105.5 to 92.9FM caused grave interference at the time to 92.9FM it was no big problem due to the fact that 99% of our listeners were on 96.5FM at the time. Last year both 96.5FM W243CO and 98.7FM W254BK went to Kirkman broadcasting with the agreement that they would let us know as soon as they transferred the frequency and location of W243CO 96.5FM so we could get WLRE-LP 92.9FM out from under the interference of WEGX 92.9FM and move it's frequency from 92.9 225 L1 to 96.5 243 L1 (same location and tower). Now that W243CO ( which was still repeating our signal until the move) has been relocated and is now on a different frequency and location, we need to move WLRE-LP 92.9FM 225 L1 to 96.5FM 243 L1 to clear up the interference problem that exist between WEGX and WLRE-LP on 92.9FM by moving WLRE-LP's frequency to 96.5FM which will also keep all of our listeners that we have had for many years that can no longer hear us due to the interference on 92.9FM.

Here are the three coverage charts for the interference problem with WLRE-LP 92.9FM. This is due to the co channel of WEGX 92.9FM out of Dillion, SC and WLRE-LP 92.9FM in Elloree, SC. The Longely Rice coverage pattern of WEGX 92.9 225C clearly shows the overlap of their signal in the bottom right hand coner of their pattern. Their coverage pattern is shown in Gray 75db to 100db. Then Blue shows 60db to 75db

and Pink shows 45db to 60db. WLRE-LP is shown on the same page in Yellow 60db to 100db and in Green 45db to 60db. The overlap shows WEGX in Blue at 60db to 75db bumping and overlapping WLRE-LP in a portion of Yellow 60db to 100db area not to mention the Pink 45db to 60db area of WEGX which covers just about the rest of WLRE-LP's Yellow 60db to 100 db pattern not even counting WLRE-LP's 45db to 60 db pattern in Green. The reason WEGX92.9FM has such good coverage is their 100KW ERP signal, their AGL 486.2 meters, their HAAT 492.9 meters, their AMSL is 521.2 meters, their 10 bay 7.538db gain antenna system, and the fact they are sitting on a flood plain beside the little Pee Dee river which gives them much better ground conductivity and a better pattern. Combined with that WLRE-LP is sitting on the high side of lake Marion (3 miles by air from lake) which is in between us and them and puts us inside a 60db signal bump of their area (in blue) that runs right into and overlaps our 60db area in yellow. We are on the high side (south side) of lake Marion facing toward them as well as sitting on iron deposits at our stations site which helps our pattern but also helps receive WEGX's signal better too in our area.

WLRE-LP's coverage patterns for both 92.9 (225) and 96.5 (243) are included to show our coverage pattern on both frequencies.

WLRE-LP 92.9FM (225L1) Our current HAAT is 37.2 meters (calculated 39 meters), Our AMSL is 78 meters, Our AGL is 30 meters. Antenna is a Shively 6812- 2 bay 0.0db gain with a 0.0 rotation pattern, ERP of 0.065kw watts (65 watts).

WLRE-LP 96.5FM (243L1) Our HAAT would be 63.2 meters (calculated 65 meters), Our AMSL would be 104 meters, Our AGL would be 56 meters. Antenna would be Shively 6812- 2 bay 0.0db gain with 0.0

rotation pattern, ERP of 0.027kw (27 watts).

WEGX transmitter location: 34° 22' 4.00" N Latitude

79°

19' 21.00" W Longitude

WLRE-LP transmitter location: 33° 29' 14.00" N Latitude

80°

32' 54.00" W Longitude

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