

**MINOR CHANGE APPLICATION**  
**WLV-TV INCORPORATED**  
**KWLA AM RADIO STATION**  
**1400 kHz - 1.0 kW - ND**  
**MANY, LOUISIANA**  
**February 2002**

This Technical Exhibit supports the application by WLV-TV Incorporated, licensee of AM Radio Station KWLA, 1400 kHz, Many, Louisiana, to make changes in the station's radiator. Specifically, the KWLA tower must be relocated on the property on which the existing tower site is located to accommodate expansion of U.S. Highway 171. Relocation of the tower slightly south and west will also require a reduction in ground system, which will affect the efficiency of the radiator. The coordinates of the station will change by 1 second in both Latitude and Longitude. This slight relocation of the tower should be considered de minimus.

Due to the relocation of the tower on the existing property, the ground system will be reduced to 38.1 meter radials from 53.6 meter radials. Therefore the efficiency of the radiator will be slightly reduced to 284.68 mV/m/km/kw from the licensed 304.17 mV/m. This slight reduction in efficiency will change all allocation contours to slightly less than authorized. Since the proposed allocation contours remain within the authorized facility contours, no allocation study was conducted and any overlap of allocation contours that might presently exist is diminished slightly by this application.

Attached as Exhibit #1A and #1B are coverage maps of the present and proposed KWLA facility. Exhibits #1C and #1D are tabulations of the contours utilizing FCC-3 theoretical

ground conductivities. Exhibit #1E contains calculations which establish the Nighttime Interference Free contour (“NIF”) of KWLA at 27.3 mV/m. The coverage maps show that Many, Louisiana, will continue to receive adequate city grade coverage, both daytime and nighttime from the proposed facility.

Exhibit #1F is a property plat of the KWLA site with the proposed 38.1 meter ground system shown encompassed within the station property. The new ground system will consist of 120 equally spaced 38.1 meter (125 ft) #8 bare copper ground wires buried 8"-10" and extending outward from the tower base. In addition to these radial wires, an additional 120 15 meter (50 ft) radial wires will be buried and interspaced between the “full length” radials. Exhibit #1G is a printout from the FCC’s website demonstrating the Figure 8 calculations of tower efficiency used in this application.

The proposed tower has not been registered. Attached as Exhibit #1H is a printout of “TOWAIR” results showing that the tower passes the slope ratio to the Sabine/Many, Louisiana, airport and, as such, does not require FAA clearance or FCC registration.

\_\_\_\_\_ We have tried to be as accurate as possible in the preparation of this application. All information contained in this application was extracted from the CDBS database. We assume no liability for omissions or errors in this source. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone at 912-638-8028 or by email at [stu@grahambrock.com](mailto:stu@grahambrock.com).