



***Engineering Report***  
***Central Educational Radio***  
***Minor Change Application for K252EE***

This consultant has been retained by Central Educational Radio (Central) for the purpose of preparing technical support to its application for a minor change in the licensed operation of K252EE in Poplar Bluff, Missouri. It is proposed that K252EE be moved from its existing tower location to another existing tower site that is 6.11 km distant from the licensed site. The proposed K252EE operation has 60 dBu contour overlap with the licensed K252EE facilities and, as such, this is a minor change.

The proposed K252EE tower is registered and carries the antenna registration number 1006756. It is proposed that the current 2 bay Shively antenna be moved to the proposed tower location and centered at a level 51.8 meters (170 feet) AGL. This corresponds to an elevation of 203.8 meters AMSL. The HAAT was determined on 12 uniformly spaced radials as prescribed by 47 CFR 74.1235 of the Rules and the highest HAAT determined was 107 meters on the 150° radial. 107 meters is the maximum height corresponding to a power level of 0.250 kW as prescribed in Table 2 in 47 CFR 73.1235. A copy of the HAAT determinations is included in this report as Exhibit 2.

**Interference**

A search of the Commission's May 16, 2014 database was performed which considered K252EE as a Class A radio station. A copy of that search is included in this report as Exhibit 1. From Exhibit 1 all radio stations to which the minimum Class A spacing requirements were not met were studied for prohibited interference as set forth in 47 CFR 74.1204 of the Commission's Rules.

Exhibit 3 of this report is a digitally generated map which details the protected 60 dBu contour for the licensed operation of KTJJ (FM) in Farmington, Missouri which graphically shows the lack of interference caused to KTJJ by the proposed K252EE operation. Similarly, Exhibits 4 and 5 graphically demonstrate the lack of prohibited overlap with respect to KFCM in Cherokee Village, Arkansas and WJLI in Metropolis, Illinois.

### **Environmental Considerations**

The construction associated with the proposed operation is limited to installing a FM antenna and its associated transmission line on an existing tower. No other physical construction is proposed. Exhibit 6 of this report is an analysis of non-ionizing RF radiation which demonstrates that the proposed tower site will continue to pose no threat to the public due to passive overexposure as set forth in OST bulletin number 65. Central Educational Radio also pledges to cooperate with all other users of the tower structure and to reduce power or cease operation as necessary so as to protect any tower workers from occupational overexposure.

### **Certification**

All information in this report and its associated exhibits is true and accurate to the best of my belief. Having had numerous matters before the Commission, my qualifications are a matter of record.

May 17, 2014

Date

*R. Lee Wheeler*

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