

Comprehensive Technical Exhibit
Amendment to Application for
Modification of Construction Permit
KAYH(FM) - Fayetteville, Arkansas
FCC File No. BMPED-20120125AEK
Community Broadcasting, Inc.
February, 2012

Amendment to Application for Modification of Construction Permit

The following engineering statement has been prepared for **Community Broadcasting, Inc.** ("CBI"), licensee of non-commercial educational station KAYH(FM) at Fayetteville, Arkansas, and is in support of their amendment to application for modification of construction permit.¹

This amendment seeks to change the expected antenna type discussed in the modification application recently submitted. In that application, it was indicated that the antenna that would be utilized by KAYH would be an Electronics Research, Inc. (ERI) roto-tiller style antenna. In fact, that section should have referenced a Shively Labs 6810 series antenna. The only effect this change has is in the environmental section of the application.

The Commission's *FM Model* software package predicts, at ground level, a maximum power density of 138.9 $\mu\text{W}/\text{cm}^2$. This maximum is expected to occur at 16 meters from the base of the tower. The predicted power density is less than the upper limit of 200 $\mu\text{W}/\text{cm}^2$ permissible under the uncontrolled environment condition of the applicable safety standard. As a result, the change in the antenna type would not result in a radiation hazard to the general population.

As discussed in the application, CBI will coordinate with all other users of the site to ensure that workers having access to the facility are not exposed to levels of radiofrequency radiation in excess of the applicable safety standards. Such coordination will include, but is not necessarily limited to, a reduction in power or cessation of operation. In addition, no other environmental representations made in the application have been changed. The proposed facility continues to be exempt from environmental processing. No other changes to the application are proposed.

¹ The Facility ID for KAYH(FM) at Fayetteville, Arkansas is 79130.

Affidavit

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2013

Jeremy D. Ruck, PE
February 1, 2012