



# BROADCAST WORKS!

*Technical Excellence*

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2105 Anthony Drive  
Tyler TX 75701

Re: Construction Permit BPH-20150708ABS KKHR-FM  
Special Operating Conditions or Restrictions, Item 3

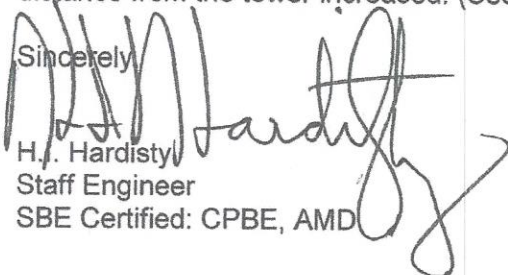
On 5 October, 2016, RF field strength measurements were made, by me the undersigned, in and around the new KKHR-FM facility, co-located with AM radio station KWKC.

The transmitter site is located in the middle of a pasture located next to an industrial section on the outskirts of Abilene, Texas. The pasture is fully enclosed with barbed wire fencing, in common use to retain livestock. The pasture access gate is kept locked and has the required RFR warning sign mounted thereon.

There are two small buildings, on the site, which contain the transmitting equipment of stations KKHR-FM and KWKC-AM. There are no other buildings located on or near the property. Each station has its own building and each is kept locked. The tower itself is surrounded by a cyclone fence, with the appropriate RFR warning sign mounted thereon. This locked cyclone fence is a little more than 3 metres in three directions from the radiating tower. The building, containing the AM transmitter, makes up the fourth side of the barrier. The building face is located at least 3 metres from the radiating tower and the building and its contents are further away.

Present federal regulations limits maximum human exposure to  $100\text{mW}/\text{cm}^2$  on frequencies between 0.3 and 3.0 MHz and  $0.2\text{mW}/\text{cm}^2$  on frequencies between 30 and 300 MHz. At no place did the measured RFR exceed limits for human exposure. Readings were made both outside and inside of the transmitter buildings. The highest reading measured  $0.109\text{mW}/\text{cm}^2$  at the base of the tower, within the restricted tower compound. Outside the restricted fenced enclosure, the maximum reading obtained was  $0.104\text{mW}/\text{cm}^2$ . The readings diminished as the distance from the tower increased. (See page 2 drawing.)

Sincerely,

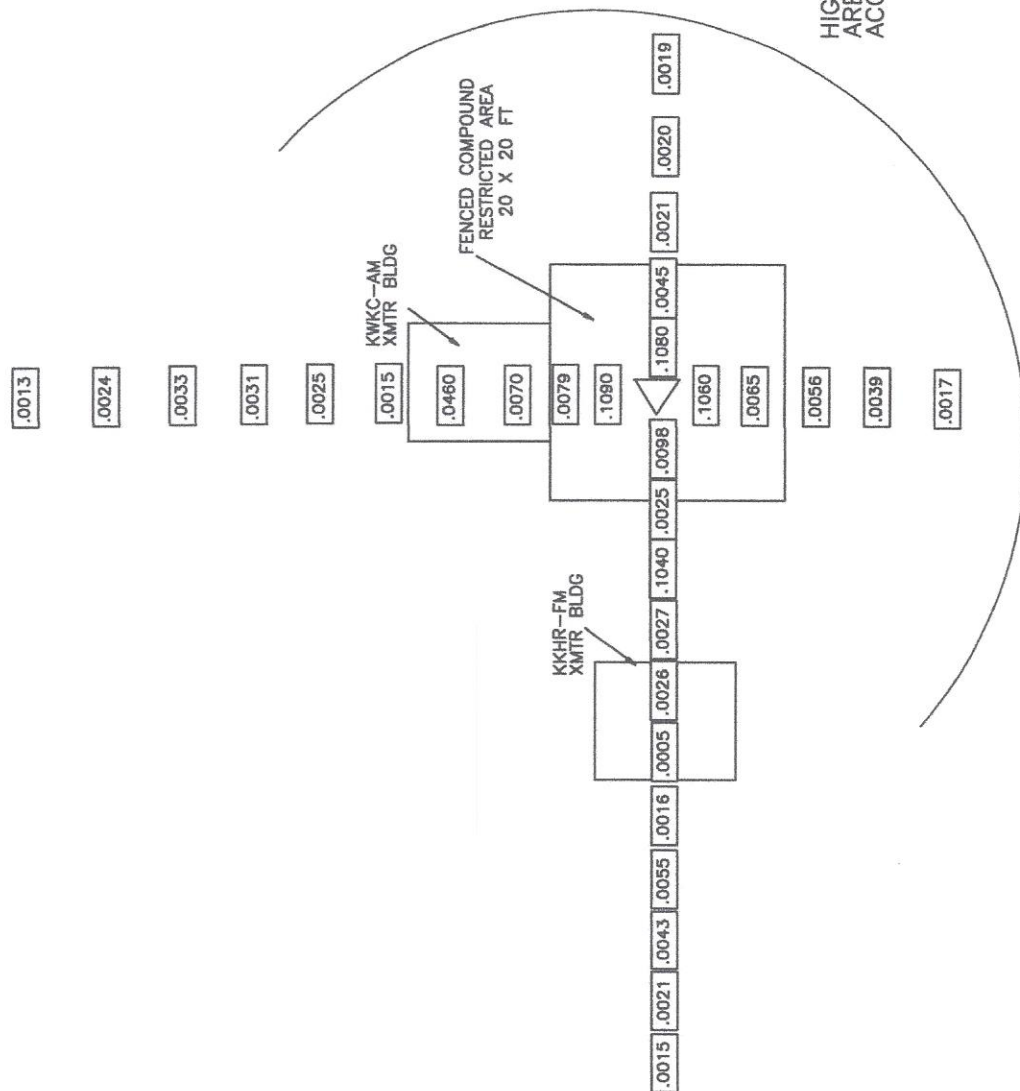
  
H. J. Hardisty  
Staff Engineer

SBE Certified: CPBE, AMD

# KKHR-FM RF DENSITY MEASUREMENTS

HANK HARDISTY 10-05-2016

SPOT MEASUREMENTS IN AND AROUND TOWER SITE COMPOUND ABOUT 3 METERS APART.  
 READINGS SHOWN IN mW/cm2 made with a Tenmars Model TM-195 3 Axis RF Field Strength Meter  
 At no location did the RF Power Density exceed the required Human Exposure Limits



not to scale

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Project Name and Address

Description

File Name  
 Date  
 Scale  
 Sheet of