

**Engineering Statement**  
**CBS Radio Stations Inc.**  
KXNT-FM FCC 302 Section III-Engineering  
Modify license BMLH-20070406ABM  
Permissive antenna replacement  
January 22, 2014

An Environmental Assessment is not required, as grant of this application would not be considered a major environmental action.

The transmitting antenna, a ERI model DI-8-SP, 8 bay, is comprised of 4 sections of 2 full wavelength spaced elements with each section spaced  $\frac{3}{4}$  wavelength apart. The center of radiation is 33.5 meters above ground. This is less than 2 meters above the existing licensed center of radiation. The ERP remains at 100 kW H&V as currently licensed.

The transmitting facilities will comply with the FCC guidelines limiting human exposure to radio frequency energy. The vertical profile plot of the antenna is attached. Preliminary measurements on the ground, utilizing a Narda SRM field measurement meter, indicated total site peak readings no greater than 36% of the occupational MPE, within the access restricted area, with all emitters energized at the shared site. The KXNT-FM antenna contributed less than 10% of the peak reading observed. Whole body average measurements yielded far less. A new RF study for the site is being commissioned with the consulting firm of Hatfield and Dawson and the results will be submitted to the Commission upon completion showing that the site remains in compliance with the Commission's rules for RF exposure. If work is done on the tower in an area where over exposure could occur, the Licensee, in coordination with the other users, will take necessary action to prevent the overexposure of workers on the tower including reducing the transmitting power or ceasing operation completely.



Electronics Research, Inc.  
7777 Gardner Road  
Chandler, In. 47610

Figure 1

----- Theoretical -----

Vertical Plane Relative Field  
8 ERI Type SHP, SHPX, LP or LPX Elements  
0.00 Degree(s) Electrical Beam Tilt  
0.0 Percent First Null Fill  
0.0 Percent Second Null Fill

Power Gain is 4.003 In The Horizontal Plane(4.003 In The Max.)

