

**ENGINEERING STATEMENT  
APPLICATION FOR MODIFICATION OF  
CONSTRUCTION PERMIT  
RADIO ONE LICENSES, LLC  
RADIO STATION WYCB  
WASHINGTON, DC  
FACILITY ID 7038  
1340 KHZ 1 KW U**

This Engineering Statement has been prepared on behalf of Radio One Licenses, LLC, licensee of AM broadcast station WYCB Washington, DC. Radio One holds a construction permit for WYCB, which authorizes a change in transmitter location, File Number BP-20061019ACH. Changes in the construction permit as outlined below are requested.

Station WYCB specified use of the transmitting facility to be employed by co-owned station WOL. The proposed tower is owned by American Tower and is located at 5321 First Place, N.E., Washington, DC.

There were two self-supporting towers on the American Tower site, a square tower and a newer triangular tower. The WYCB CP specifies the older tower with registration number 1045847, when in fact the newer tower with registration number 1227148 was to be employed. The newer tower is 4.7 meters taller with geographic coordinates differing by only one second of latitude.

After the older tower (ASRN 1045847) was removed, field strength measurements were taken on the WOL special temporary operation to determine the radiated field from the antenna system. Measurements were necessary due to use of an irregular ground system. The antenna system consisted of the remaining tower (ASRN 1227148) excited by employing a folded unipole system of six feed wires, two on each face of the tower. These measurements taken on WOL were applied to the WYCB proposed operation. The inverse distance field for WYCB was

also determined using these measurements and the ratio of theoretical radiation at 1340 kHz and 1450 kHz from Figure 8 in Part 73 of the rules.

The allocation study shown in the WYCB application was based on the WOL measurements taken on the correct tower, so no change results in the allocation situation due to use of the incorrect tower registration number in the application.

The WYCB construction permit specifies a special operation condition (Number 6), which requires field strength measurements to be taken on nearby AM station WTEM. As the American Tower employed has had two existing towers at this location for many years and the fact that WYCB is employing one of those towers with co-owned station WOL, no impact on the operation of WTEM is expected. For this reason, removal of special condition No. 6 is requested.

The WYCB permit also specifies special condition No. 7, which requires a partial proof of performance to be conducted to verify the anticipated antenna efficiency of 290 mV/m. As the WYCB antenna efficiency of based on field strength measurements taken on the special temporary operation of WOL, it represents measured data, which should be considered superior to use of Figure 8 in Part 73 alone. For this reason, it is requested that the time consuming and tedious partial proof of performance be eliminated from the modified WYCB construction permit.



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