



Five Forty Broadcasting Company LLC
PO Box 1044
Sylva, NC 28779
828-586-2221 info@wrgc.com

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The Honorable Jackson County Commissioners

Chairman Brian McMahan

Gentlemen:

Five Forty Broadcasting Company LLC is requesting for waivers from the Jackson County Cell Tower Ordinance to allow for the construction of a new broadcasting tower for 540 A-M WRGC Radio station.

Information:

- The current broadcast tower located at 1846 Skyland Drive in Sylva was constructed in the early 70's for the operation of WMSJ and later WRGC on the 680 KHz frequency.
- The tower height of 240 feet is based upon the 680 KHz broadcast wavelength of the frequency used for the WRGC A.M. Radio. The wavelength difference between 680 KHz and 540 KHz is considerable and will require a taller tower to meet the FCC Standard.
- The current 240 foot tower operates at a minimum and inefficient level. The ongoing operation was either permitted by the FCC by waiver or was grandfathered in due it being in operation at the time.
- Due to the age of the tower and the need to relocate; the FCC will require the new tower to be constructed to meet the precise criteria based upon the installation of the ground radials and the antenna height required for the proper tuning for the operation of 540 KHz.
- The request for the relocation of the broadcast tower from Skyland Drive to Ferguson Road is due to the land including the tower site at 1846 Skyland Drive being sold.
- Once the new tower is constructed off Ferguson Road the current tower will be removed. There will no gain in new towers. Camouflage is not allowed due to interference to the radiated signal.
- There are no other commercial A.M. Radio stations operating in Jackson County. There should be no future requests for waivers of this nature.
- The new tower location is less visible from Highway 74 than the current tower structure for WRGC Radio station. The tower structure will not be visible from the Blue Ridge Parkway
- The proposed new tower location is approximately one quarter mile from the present WRGC tower structure, so Five Forty Broadcasting Company LLC requests the balloon test be waived.
- If required lighting for the new tower structure will employ aircraft visible vertical lighting technology and potentially residences located above 15 degrees of the top of the tower.
- The proposed tower will be located on tract 7652-34-1635 currently owned by Wayne Smith.
- Tower base and transmitter structures will be installed outside the floodway and elevated above the current flood plain.
- Tower height calculations provided by William Culpepper and Associates. INC. 900 Jefferson Drive; Charlotte NC 28270

Respectfully submitted by Roy W. Burnette

Managing Member Five Forty Broadcasting Company LLC



