



**WCYB-TV 35 Bristol, VA - Facility ID: 2455
Request for Special Temporary Authority
to operate with reduced power on Post-Repack Channel**

This is a request for Special Temporary Authority for WCYB-TV to operate on its post-repack channel (35) with reduced power from what is specified in the construction permit (FCC File No. 0000153389). The reduced power operation is necessary while the new transmitting equipment is installed and the old Channel 5 equipment is being retired. The STA operation will utilize the antenna specified in the CP at the authorized height.

A map of the proposed STA coverage is included with this application.

47 C.F.R. Section 1.1306

A Commission grant of Authorization this special temporary authorization would not be an action which may have a significant environmental effect.

As shown in Appendix A, the WCYB-TV channel 35 request for Special Temporary Authority will operate with a maximum ERP of 374.2 kW from an elliptically polarized non-directional transmitting antenna with a centerline height of 116 meters above ground level (AGL). Considering the elevation pattern submitted elsewhere in this submission, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 8 degrees. The proposed WCYB-TV channel 35 facility is predicted to produce a worst-case power density at two meters above ground level, at 65.8 meters from the tower base, of

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0.743 $\mu\text{W}/\text{cm}^2$, which is 0.19% of the FCC guideline value of 399.33 $\mu\text{W}/\text{cm}^2$ for an “uncontrolled” environment. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant.

Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

The STA Noise Limited Contour is Inside of the CP Noise Limited Contour

A coverage map of the proposed STA noise limited contour is attached that shows the STA coverage is inside of the authorized Construction Permit noise limited coverage contour.


Carl E. Gluck, CPBE

