

TECHNICAL SUMMARY  
REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA)  
TELEVISION STATION WCCB(TV) (STA)  
CHARLOTTE, NORTH CAROLINA  
CHANNEL 18 600 KW 385 M HAAT

1. The instant request is for Special Temporary Authority (STA) for WCCB(TV), Charlotte, NC, which is licensed for operation on Channel 27.\* WCCB holds a construction permit for operation for its Incentive Auction repack facility, which will operate on Channel 18.† WCCB is in repack Phase 5, which started on August 3, 2019 and ends on September 7, 2019.

2. The proposed STA system will be employed for use as a strictly temporary antenna to facilitate the repack of the WCCB facility from its licensed channel (27) to Channel 18. Specifically, the WCCB STA facility will operate on Channel 18 using its formerly licensed Channel-18 omnidirectional analog antenna that is still top-mounted on the existing WCCB facility tower at a height of 358.8 m above ground level.‡ There will be no change in the overall height of the existing structure.§

3. The top-mounted antenna is to be employed until the new WCCB side-mounted antenna can be installed, which is expected no later than November of 2019. In order to maintain replication of its existing coverage, the proposed STA facility will result in a small extension of the noise-limited service contour toward the southeast. This is demonstrated in the attached Predicted Coverage Contours exhibit. This extension is due to a null that exists in the authorized side-mounted antenna pattern, which would otherwise limit coverage to no greater than approximately 200 kW in other directions. In order to maintain coverage to as many viewers as possible during the repack transition, and the very important rescan period, a waiver is requested to the

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\* See FCC File No. BLCDDT-20020227AAZ.

† See FCC File No. 0000067979.

‡ It is noted that WCCB received a construction permit for operation with the former top-mounted antenna for use on Channel 18 with 1000 kW. However, it was ultimately not possible to implement this facility as a full-service main antenna due to the poor physical condition of the obsolete antenna radomes. See FCC File No. 0000034433. The proposed STA facility provides coverage that is contained within the coverage authorized in FCC File No. 0000034433.

§ The tower structure is identified by FCC Antenna Structure Registration Number 1037877 and it has an overall height above ground level of 370.2 m.

extent necessary. This is believed to further the FCC's Incentive Auction repack process since it maintains the current viewer footprint of WCCB to the greatest extent possible and avoids viewer confusion due to temporary loss of service, particularly during the rescan period.

4. It is noted that the proposed facility is compliant with the *TVStudy* interference protection requirements. This is demonstrated in the *TVStudy* results exhibit.