TECHNICAL SUMMARY
REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA)
TELEVISION STATION WCIU-TV (STA)
CHICAGO, ILLINOIS
CHANNEL 27 160 KW (MAX-DA) 510 M HAAT

1. The instant request is for Special Temporary Authority (STA) for WCIU-TV, Chicago, IL, which is licensed for operation on Channel 27.* WCIU-TV holds a construction permit for its Incentive Auction repack facility on Channel 23.† WCIU-TV is in repack Phase 6, which starts on September 7, 2019 and ends on October 18, 2019.

2. The proposed STA system will be employed for use as a strictly temporary antenna to facilitate the repack of the WCIU-TV facility from its licensed channel (27) to Channel 23. The WCIU-TV main antenna system is located on the Willis Tower, otherwise known as the Sears Tower, in Chicago. There are two main spires on the top of the building. The west spire supports the main antenna for WCIU-TV. The east spire supports a broadband auxiliary antenna, which is an RFS model PHP24C horizontally-polarized antenna.

3. The PHP24C antenna is to be employed on a temporary basis for WCIU-TV on Channel 27 while the west spire gets reconfigured for the new channel arrangement in Chicago, including WCIU-TV's move to Channel 23. WCIU-TV will operate on the PHP24C from sometime in the month of August until the conclusion of Phase 6, on October 18. This operation is necessary in order for WCIU-TV to remain on the air on Channel 27 while the work on the Sears Tower west spire is completed. There is no other option for WCIU-TV given the phase timeline.

4. The proposed STA antenna system will employ the facility formerly licensed for WCIU-TV under FCC File No. BLCDT-20060525ADR. This facility will result in a small extension of the noise-limited service contour toward the east. This is demonstrated in the attached Predicted Coverage Contours exhibit. This is an unavoidable extension due to the fixed nature of the existing PHP24C master antenna

* See FCC File No. BLCDT-20110822ADN.
† See FCC File No. 0000034608.

system. A waiver of the FCC's Rules regarding the extension of the contour is requested for the reasons discussed above and given the temporary nature of the proposed facility.

5. A study of the proposal conducted under the FCC's *TVStudy* analysis software indicates that the proposed operation will not result in any interference cases. This is attached hereto as an exhibit.