

TECHNICAL SUMMARY
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
TELEVISION STATION WHKY-TV (DTS)
HICKORY, NORTH CAROLINA
CHANNEL 14

1. The instant application for modification of construction permit is to change the antenna models and pattern data for the repack facilities of the two distributed transmission system (DTS) transmitters for station WHKY-TV, Hickory, NC (Channel 14).^{*} Although the proposed antenna azimuth pattern data is very similar to what is authorized for WHKY-TV, a waiver of the FCC freeze on applications that would result in an extension of the noise-limited service is hereby requested to the extent necessary due to small contour extensions in certain directions.

2. It is necessary to change the antenna models for both DTS1 and DTS2 of the WHKY-TV facility due to manufacturing limitations and requirements to achieve facilities as close as possible to what is authorized for WHKY-TV. There are some small unavoidable noise-limited service contour extensions in certain directions for DTS1 and DTS2. These are due to the small changes in the actual antenna systems that have been designed and manufactured by Electronics Research, Inc.

3. Both the azimuth and elevation pattern data for the DTS1 and DTS2 stations have been updated to reflect what will be actually built for WHKY-TV. It is noted that WHKY-TV is in repack **Phase 5** and it is expecting to take delivery of the DTS1 and DTS2 antennas in time to meet the construction deadline for the end of Phase 5 of September 6, 2019.

4. The modified WHKY-TV facility is compliant with the FCC's interference protection limits, except in two cases where there are existing interference consent agreements. In those cases, the modified WHKY-TV facility is compliant with the terms of the respective interference consent agreements. The interference analysis results are shown in the attached *TVStudy* exhibit as are the respective consent agreements. It is noted that a higher resolution terrain profile point spacing of 0.2 km is requested for study consistent with the underlying prior application for construction permit.

^{*} See FCC File No. 0000034548.