

Attachment 1  
Special Temporary Authority Engineering Statement  
***CBS Communications Services Inc.***

CBS Communications Services Inc. (ViacomCBS) herein seeks to extend the existing special temporary authority to transmit low-power test signals on C-Band and Ku-Band frequencies while repairing ten (10) existing satellite antennas located at 300 New Highway, Hauppauge, New York. Such testing is required by Section 25.132 of the FCC Rules for applicants seeking to license and operate large, fixed satellite station antennas that have been assembled on-site.<sup>1</sup>

Eight C-Band antennas at this facility are 11-meter diameter, Scientific Atlanta model 8007A units having a gain of 55 dBi at 6 MHz. When used in conjunction with a 5 Watt test transmitter, each antenna would be capable of a maximum EIRP of 62 dBW. However, virtually all testing will be conducted at lower power levels in close cooperation with satellite system control center(s).

Two Ku-Band antennas to be tested are 9-meter diameter, Vertex model 9KPK units with a published gain of 60.4 dBi at 14.25 GHz. This antenna, in conjunction with a 5 Watt test transmitter, would be capable of 67.4 dBW EIRP. However, virtually all testing will be conducted at far lower power levels in close cooperation with the satellite system control center(s).

Although most testing will be done with one or two satellites, ViacomCBS seeks permission to also conduct testing across the full-arc with any satellite system on the FCC's Permitted Space Station List using domestic C-Band and Ku-Band frequencies. It is believed that repairs can be completed in a period of 90 days. We began testing on August 3, 2020.

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<sup>1</sup> Please see SES-STA-20200720-00782