

EXHIBIT A – SPECIAL TEMPORARY AUTHORITY DESCRIPTION AND JUSTIFICATION

Description of Experimental Equipment and Operation:

Radio City Productions, LLC (“RCP”) seeks Special Temporary Authority (“STA”) for evaluation and demonstration of experimental radiofrequency equipment to be used in connection with the 2023-2024 performance season of the “Christmas Spectacular Starring the Radio City Rockettes,” RCP’s flagship show, with more than 140 performers performing live at the iconic Radio City Music Hall location in New York City, New York. Since 1933, this performance has been a holiday tradition for generations of fans. The show’s enduring popularity is driven by the world-famous Radio City Rockettes, the longest running precision dance company in America.

Specifically, STA is needed to operate experimental radiofrequency equipment custom-designed to be integrated into the holiday musical/dance production as small, lightweight airborne decorative drone “fairies” complementing and enhancing the simultaneous performance of the Rockettes. The system will be comprised of a single fixed base station as the main transmitting/receiving RF device providing command/control instructions to no more than twelve (12) mobile airborne controller transceivers. The “fairy” drones will transmit telemetry data back to as well as receive instructions from the base station flight computer.

All operations will be indoor and wholly contained within the heavily shielded walls of the Radio City Music Hall main auditorium located at 1260 Avenue of the Americas, NY, NY 10021. The experimental equipment will at all times be under the control of experienced RCP production engineers. No other party’s spectrum use will be prejudiced by the testing because it will occur on a sufferance basis in conformance with Part 15 of the Commission’s Rules. Further technical details as required by Section 5.61 of the Commission’s Rules are set forth below and in the attached list of transmitting equipment that is a part of this Exhibit A.

STA Grant Requested by September 18, 2023, For a 6-Month Period

Pursuant to Section 5.61 of the Commission’s Rules, RCP seeks grant of an STA by no later than Monday, September 18, 2023, in preparation for RCP’s first major pre-production technology test and rehearsal scheduled for Monday, September 18, 2023. This first major pre-production test involves coordination of multiple technical and production teams critical to developing the 2023-2024 Christmas Spectacular, including technical consultants and designers attending from overseas locations. For this scheduled first major preproduction test, RCP has also planned for facilities access, staff support, security and other necessary arrangements. RCP expects to operate the experimental equipment for further tests and rehearsals leading up to the opening of the Christmas Spectacular show in November, 2023 and thereafter in all daily performances in the 2023-2024 show season. STA is appropriate in this instance because rehearsals and testing are set to begin soon and will be short-term, lasting only through the end of the production.

Public Interest Statement:

Grant of this STA request will serve the public interest by allowing RCP to continue its long tradition of its globally acclaimed innovative holiday production to the benefit of the show, its participants, its wide audience as well as the various organizations and companies that benefit economically from successful Radio City Music Hall productions. The Christmas Spectacular began in 1933 when the Music Hall presented lavish live stage shows along with the latest Hollywood feature films. In the 90 years since, RCP has retained much-loved traditions such as the Rockettes' performance of "[Parade of the Wooden Soldiers](#)," choreographed by their founder, Russell Markert; and "The Living [Nativity](#)," but has continually evolved the productions to keep up with the demand for innovative new choreography, music, set designs, visual effects, and technologies to the delight and enjoyment of fans coming from around the globe for the Rockettes' Christmas Spectacular experience. The experimental drone equipment for which STA is being sought is an integral part of RCP's ongoing innovation in stage production and is specifically planned for use in the Rockettes' "Dance of the Frost Fairies" performance to create a stunning visual effect that blurs the line between magic and reality.

Grant of this STA request will allow RCP to test and demonstrate innovative new audiovisual and set design technology during its most important performance of the year. A successful demonstration of this distinctive performance technique will continue RCP's long tradition of exciting innovations in performing arts production design, greatly benefitting the show and its extensive audiences, as well as continuing the important economic and cultural success of this much beloved production and performance venue. Given the importance of this technology to the RCP 2023-2024 Christmas Spectacular, cancellation of the proposed evaluation and demonstration would materially diminish the Rockettes' performance and potentially degrade the entertainment value of the Christmas Spectacular. Cancellation of the proposed experimental operation would also likely inhibit further innovation in performance productions using similar technologies in the United States market.

In summary, grant of the requested STA is required for the purpose of allowing RCP to test and demonstrate innovative audiovisual performance technology for the 2023-2024 performance season of the "Christmas Spectacular Starring the Radio City Rockettes," RCP's flagship show. For the above reasons, RCP requests expedited treatment and approval of its STA application by no later than September 18, 2023.

Attachment 1

List of transmitting equipment

Equipment	Base Station transceiver	Controller transceiver
Operating scheme:	TX / RX	TX / RX
Frequency (902 - 928 MHz)	915 MHz	915 MHz
Output power (dBm)	20	20
Antenna gain (dBi)	3	3
EIRP	23 dBm	23 dBm
Emission Bandwidth	TX @ 915Mhz every 0.02 ms	TX @ 915Mhz every 2 s

Communication scheme

