

**REQUEST FOR EXTENSION OF EXPERIMENTAL AUTHORITY**

Lockheed Martin Corporation (“Lockheed Martin”) holds experimental STA’s under Call Sign WN9XAF (File No. 1162-EX-ST-2018) and Call Sign WN9XBF (File No. 1229-EX-ST-2018) to operate on the frequencies that are the subject of this request. Under its STA, Lockheed Martin conducted preliminary testing to determine the feasibility of L- and S-band communications configurations with its Aerial Reconfigurable Embedded System (ARES), a compact, high-speed vertical takeoff and landing (VTOL) delivery system.

Based on the positive results of its preliminary testing at Yuma Proving Ground (YPG), Lockheed Martin has determined that it will implement a long-term test program with the objective of completing demonstrations necessary to satisfy work authorized in support of DARPA contract #FA8650-10-C-7069.

Lockheed Martin Corporation has arranged with the YPG Range Manager to continue operations on the subject frequencies in the area identified on the related Form 442. In addition, Lockheed Martin previously secured coordination with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC), attached hereto, which coordination is valid through mid-2020.

Accordingly, pursuant to 5.61(c) of the Commission’s Rules, Lockheed Martin respectfully requests continued authority under the terms of its STA’s, the parameters of which it is herein combining and for which it seeks a conventional license for a period of 18 months, consistent with the AFTRCC coordination.

**Nature of operations.**

As noted in its initial STA request, the program is conducting low-altitude operations at YPG of a VTO technology under DARPA contract.