

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WM2XCK

(Call Sign)

0750-EX-CN-2021

(File Number)

NAME L3Harris Technologies

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

- (1) MOBILE: Waco, TX, 30km radius of TSTC, within 30 km, centered around NL 31-38-16;  
WL 97-04-27

Frequency Information

MOBILE: Waco, TX, 30km radius of TSTC, within 30 km, centered around NL 31-38-16; WL 97-04-27

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 32.95 MHz  | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 34.95 MHz  | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 40.025 MHz | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |

This authorization effective October 07, 2021 and  
will expire 3:00 A.M. EST October 01, 2023

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

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| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 42.1 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 51 MHz     | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 53 MHz     | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 58 MHz     | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 65 MHz     | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 81 MHz     | MO            | N0N<br>8M10F1E      | 30 W (ERP)       |                           |
| 138.05 MHz | MO            | N0N<br>6K00A3E      | 30 W (ERP)       |                           |
| 139.8 MHz  | MO            | N0N<br>6K00A3E      | 30 W (ERP)       |                           |

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| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 142.28 MHz  | MO            | N0N<br>6K00A3E      | 30 W (ERP)       |                           |
| 142.288 MHz | MO            | N0N                 | 30 W (ERP)       |                           |
| 143.3 MHz   | MO            | N0N<br>6K00A3E      | 30 W (ERP)       |                           |
| 145 MHz     | MO            | N0N<br>8K10A3E      | 30 W (ERP)       |                           |
| 152.9 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 172.5 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 485 MHz     | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 494.5 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 674 MHz     | MO            | N0N                 | 30 W (ERP)       |                           |

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|-----------|---------------|---------------------|------------------|---------------------------|
| 674 MHz   | MO            | 8K10F1E             | 30 W (ERP)       |                           |
| 704.1 MHz | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 728 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 740 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 758 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 776 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 805 MHz   | MO            | N0N<br>8K10F1E      | 30 W (ERP)       |                           |
| 902 MHz   | MO            | N0N                 | 30 W (ERP)       |                           |
| 925 MHz   | MO            | N0N                 | 30 W (ERP)       |                           |

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|-----------|---------------|---------------------|------------------|---------------------------|
| 1395 MHz  | MO            | N0N                 | 30 W (ERP)       |                           |
| 1895 MHz  | MO            | N0N                 | 30 W (ERP)       |                           |
| 2024 MHz  | MO            | N0N                 | 30 W (ERP)       |                           |
| 2400 MHz  | MO            | N0N                 | 30 W (ERP)       |                           |
| 3200 MHz  | MO            | N0N                 | 30 W (ERP)       |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8620-20-G-4050. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.

**Special Conditions:**

- (6) Licensee must obtain consent from the following within 50 miles of the contours of the testing area:
  - Paging Service licensees in 152 MHz
  - Mobile Service licensees in 152 MHz/158 MHz
  - 700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
  - 700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
  - 700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
  - 700 MHz Guard Band licensees (775-776 MHz/805-806 MHz)
  - Location & Monitoring Service licensees (902-928 MHz)
  - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (7) Stop Buzzer POC is Kara Curtis at 903-457-3544.
- (8) Operation is not permitted using the frequency 162.7 MHz.
- (9) Licensee must successfully secure consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to 2024 MHz.
- (10) Licensee must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to 674 MHz.