

**Southwest Research Institute
Application for Modification of
Part 5 Experimental License (Call Sign WM2XFG)
ELS File No. 0371-EX-CM-2023**

**SUPPORTING STATEMENT
FOR MODIFICATION OF EXPERIMENTAL LICENSE**

Pursuant to Section 5.3 (a), (e), (f) and (j), Section 5.51, Section 5.54(a)(1) and Section 5.59(a)(2) of the Federal Communications Commission (“FCC”) rules, 47 C.F.R. §§ 5.3 (a), (e), (f) and (j); 5.51; 5.54(a)(1); and 5.59(a)(2) (2022), Southwest Research Institute (“SwRI”) respectfully requests a limited modification of its experimental license issued under call sign WM2XFG used to support third-party government contract-related testing of small unmanned aerial systems (UAS) and radar signature systems.

Specifically, SwRI respectfully requests a modification of its license as shown in the table below to: (1) add certain emission designators for its experimental operations in the 3300 - 3400 MHz band to support testing of additional equipment, and (2) increase the permitted effective radiate power (“ERP”) levels for its operations. No other technical changes are requested to the technical parameters of its license.

Band (MHz)	Currently Permitted ERP	Requested ERP	Additional Emission Designators
420.00 – 449.75	10 Watts	100 Watts	No Change
450.25 – 460.00	10 Watts	100 Watts	No Change
902 – 908	10 Watts	100 Watts	No Change
2400 – 2485	10 Watts	100 Watts	No Change
3300 – 3400	328 Watts	1260 Watts	5M50Q1N 7M50Q1N 9M10Q1N 10M6Q1N 14M1Q1N 18M2Q1N 21M2Q1N
4400 – 4940	4 Watts	20 Watts	No Change
5725 – 5850	10 Watts	100 Watts	No Change

Public Interest Statement

Grant of its request is in the public interest, as it will enhance SwRI’s ability to conduct research and development beneficial to the operations of the United States government. SwRI is an independent, not-for-profit, applied engineering and research organization devoted to technology development and transfer. SwRI conducts business with the industry and the government (*i.e.*, the United States and other friendly nations) on a worldwide basis.

Contact Information

If additional information is needed, the company's contact information is provided below.

Company Contact:

Monica R. Trollinger
General Counsel
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166
Telephone: (210) 522-6024
Facsimile: (210) 522-5839
Email: mtrollinger@swri.org

Technical and "Stop Buzzer" Contact:

Dr. Cris Lewis
Principal Scientist
Applied Power Division
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166
Telephone: (210) 522-3471
Email: Cris.Lewis@swri.org

Legal Contacts:

David E. Hilliard
Kurt E. DeSoto
Wiley Rein LLP
2050 K Street, N.W.
Washington, DC 20036
Telephone: (202) 719-7000
Facsimile: (202) 719-7049
Email: dhilliard@wiley.law
Email: kdesoto@wiley.law