

General Motors LLC
FRN 0029124476

Application for Experimental License

File No. 0111-EX-CN-2020
February 4, 2020

General Motors LLC ("GM") seeks to develop vehicle-to-vehicle ("V2V") and vehicle-to-everything ("V2X") technology to improve consumer safety. These technologies hold great promise toward reducing traffic congestion and improving driver and pedestrian safety by establishing wireless communication between and among vehicles, as well as between vehicles and infrastructure such as traffic lights, construction cones, and the like. Accordingly, GM respectfully requests a 24-month experimental license beginning on April 1, 2020, to undertake testing in the 5.850-5.925 GHz band for the purpose of developing and evaluating V2V and V2X communication technologies for use in the company's North America products.

As set forth in attached application, GM proposes to bench test, and undertake associated short-distance drive testing within 5 kilometers of the fixed address, between April 1, 2020 and April 1, 2022, at and around the following locations:

GM Global Technical Center
Louis Chevrolet Road
Warren MI 48093 (MACOMB County)
42.516, -83.030

GM Global Technical Center
William Durant Boulevard
Warren MI 48092 (MACOMB County)
42.512, -83.040

GM Global Technical Center
Fisher Brothers Road
Warren MI 48092 (MACOMB County)
42.514, -83.032

Milford Proving Ground
3300 General Motors Road
Milford MI 48380 (OAKLAND County)
42.600, -83.700

Detroit Renaissance Center Global Headquarters
100-400 Renaissance Center
Detroit MI 48243 (WAYNE County)

42.329, -83.039

General Motors Arizona Innovation Center
 2900 West Geronimo Place
 Chandler AZ 85224 (MARICOPA County)
 33.294, -111.890

Continental Automotive
 Harman Road
 Auburn Hills MI 48326 (OAKLAND County)
 42.701, -83.279

Mcity—University of Michigan
 2905 Baxter Road
 Ann Arbor MI 48109 (WASHTENAW County)
 42.300, -83.698

Continental Automotive
 21440 Lake Cook Road
 Deer Park IL 60010 (LAKE County)
 42.156, -88.050

Continental Teves
 9301 S M 221
 Brimley MI 49715 (CHIPPEWA County)
 46.371, -84.571

The application also includes the following transmitter information:

| Type | Frequency (MHz) | Power (dBm EIRP) | Power (W EIRP) | Power (W ERP) | Bandwidth (megahertz) | Emissions Designator |
|---------------|-----------------|------------------|----------------|---------------|-----------------------|----------------------|
| Mobile | 5850-5925 | 33 | 2 | 1.21 | 10 and 20 | 10M00W7W 20M00W7W |
| Fixed | 5850-5925 | 33 | 2 | 1.21 | 10 and 20 | 10M00W7W 20M00W7W |

Conclusion. We are grateful for the Commission’s consideration of our application and stand ready to answer any questions.