

Request for Experimental Authority

Marathon Petroleum Company LP (“Marathon”) requests experimental authority for operation of a GPS passive antenna repeater to test the initialization characteristics of a GPS and inertial navigation system in the company’s indoor aircraft hangar. Marathon will keep power levels to a minimum to obtain results, and Marathon has designed the installation to prevent the transmission of the GPS signal outside of the facility.

Marathon’s aircraft hangar is located in Findlay, Ohio. Use of the GPS antenna at this central hangar will permit Marathon to test and position the initialization of the GPS and inertial navigation for aircraft while in the hangars. The rebroadcast of the GPS signal through use of the GPS passive antenna will result in a quicker development timeline and provide an immediate critical analysis of the system status. Absent the GPS repeater, Marathon would be unable to test the GPS capability indoors and make the necessary modifications before the aircraft are deployed.

In connection with the FCC Form 442 submitted with the request, Marathon agrees to the following special conditions for the proposed operations:¹

1. Operation is limited to activity for the purpose of testing radio navigation satellite service (RNSS) equipment and systems.
2. Marathon Petroleum Company LP will post signs on doors to the test area notifying that, “GPS re-radiator is in use and the GPS information you receive may be in error.”
3. Benjamin Stevens will be the designated point-of-contact, available at telephone number 419-421-2235, in case of any harmful interference during testing.
4. The test equipment will only be used indoors and shall be under the control of Marathon Petroleum Company LP.

Should the Commission require additional information, please contact Wes Wright, Keller and Heckman LLP, 1001 G Street NW, Suite 500 West, Washington, DC 20001; wright@khlaw.com; 202.434.4296.

¹ In addition, Marathon requests that the station identification requirements of Section 5.115 of the Commission’s Rules be waived.