

## **Request for Experimental Authority**

BNSF Railway Company (“BNSF”) seeks to modify its experimental authority for operation of an additional GPS passive antenna repeater to broadcast the GPS signal into an indoor UAS lab at a BNSF warehouse at 4929 Northeast Parkway, Fort Worth, Texas.

BNSF is currently authorized to operate a GPS antenna located at rail facilities in Kansas City, Kansas and Alliance, Nebraska under experimental call sign WG2XQK. BNSF is requesting to modify this authorization to add an additional GPS antenna location in Fort Worth, Texas. The GPS antenna subject to this request will retransmit the GPS signal into the indoor UAS lab at 4929 Northeast Parkway, Fort Worth, Texas. Due to the construction of the warehouse, the GPS signal is not currently available in the area of the UAS lab, which is located in a separate, caged portion of the building.

The rebroadcast of the GPS signal through use of the GPS passive system will allow BNSF to continue its UAS research. Absent the GPS system, BNSF would not be able to test the GPS capability of installed units indoors.

In connection with the FCC Form 442 submitted with this request, BNSF agrees to the following special conditions for the proposed operations:<sup>1</sup>

1. Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
2. BNSF Railway Company shall 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. Jeffrey Gray will be the designated point-of-contact, available at telephone number 913-551-4640, in case of any harmful interference during testing.
4. The test equipment will only be used indoors and shall be under the control of BNSF Railway Company.

Should the Commission require additional information, please contact Greg Kunkle, Keller and Heckman LLP, 1001 G Street NW, Suite 500 West, Washington, DC 20001; [kunkle@khlaw.com](mailto:kunkle@khlaw.com); 202.434.4178.

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<sup>1</sup> In addition, BNSF requests that the station identification requirements of Section 5.115 of the Commission’s Rules be waived.