

**Application for Special Temporary Authority**  
**BNSF Railway**  
**March 2019**

**NARRATIVE EXPLANATION OF OPERATION**

This application seeks a grant of Special Temporary Authority for research, development, and testing of a new MAS radio in the 900 MHz band. The applicant, BNSF Railway (“BNSF”) is a consumer of wireless RF equipment. BNSF will test the system for radio operations to support rail industry operations.

BNSF proposes to operate, for a limited time period for test operations, one fixed station and six mobile radios in a one-mile radius in Gardner, Kansas. The mobiles and base station radio will operate at a maximum transmitted power of 50 mW and at a maximum ERP of 101 mW.

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