

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WN9XIY

(Call Sign)

XT FX MO

(Class of Station)

0584-EX-ST-2019

(File Number)

NAME BNSF Railway Company

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

This application seeks a grant of Special Temporary Authority for research, development, and testing of a direct trackside broadband system (DTBS).

Station Locations

- (1) Haslet (TARRANT), TX - NL 32-57-15; WL 97-21-24; MOBILE: , within 8.1 km, centered around NL 32-57-15; WL 97-21-24
- (2) Haslet (TARRANT), TX - NL 32-58-58; WL 97-21-11; MOBILE: , within 8.1 km, centered around NL 32-58-58; WL 97-21-11
- (3) Haslet (TARRANT), TX - NL 33-01-07; WL 97-21-11; MOBILE: , within 8.1 km, centered around NL 33-01-07; WL 97-21-11
- (4) Haslet (TARRANT), TX - NL 33-01-57; WL 97-20-41; MOBILE: , within 8.1 km, centered around NL 33-01-57; WL 97-20-41
- (5) Justin (DENTON), TX - NL 33-02-33; WL 97-19-59; MOBILE: , within 8.1 km, centered around NL 33-02-33; WL 97-19-59
- (6) Justin (DENTON), TX - NL 33-03-31; WL 97-17-55; MOBILE: , within 8.1 km, centered around NL 33-03-31; WL 97-17-55
- (7) Justin (DENTON), TX - NL 33-05-55; WL 97-17-37; MOBILE: , within 8.1 km, centered around NL 33-05-55; WL 97-17-37
- (8) Justin (DENTON), TX - NL 33-08-13; WL 97-17-22; MOBILE: , within 8.1 km, centered around NL 33-08-13; WL 97-17-22
- (9) Justin (DENTON), TX - NL 33-10-22; WL 97-17-18; MOBILE: , within 8.1 km, centered around NL 33-10-22; WL 97-17-18
- (10) Justin (DENTON), TX - NL 33-11-46; WL 97-16-51; MOBILE: , within 8.1 km, centered around NL 33-11-46; WL 97-16-51

This authorization effective April 20, 2019 and
will expire 3:00 A.M. EST October 04, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(11) Justin (DENTON), TX - NL 33-13-12; WL 97-15-32; MOBILE: , within 8.1 km, centered around NL 33-13-12; WL 97-15-32

Frequency Information

Haslet (TARRANT), TX - NL 32-57-15; WL 97-21-24; MOBILE: , within 8.1 km, centered around NL 32-57-15; WL 97-21-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	

Haslet (TARRANT), TX - NL 32-58-58; WL 97-21-11; MOBILE: , within 8.1 km, centered around NL 32-58-58; WL 97-21-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W 10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Haslet (TARRANT), TX - NL 33-01-07; WL 97-21-11; MOBILE: , within 8.1 km, centered around NL 33-01-07; WL 97-21-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Frequency Information

Haslet (TARRANT), TX - NL 33-01-57; WL 97-20-41; MOBILE: , within 8.1 km, centered around NL 33-01-57; WL 97-20-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Justin (DENTON), TX - NL 33-02-33; WL 97-19-59; MOBILE: , within 8.1 km, centered around NL 33-02-33; WL 97-19-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Justin (DENTON), TX - NL 33-03-31; WL 97-17-55; MOBILE: , within 8.1 km, centered around NL 33-03-31; WL 97-17-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Frequency Information

Justin (DENTON), TX - NL 33-05-55; WL 97-17-37; MOBILE: , within 8.1 km, centered around NL 33-05-55; WL 97-17-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Justin (DENTON), TX - NL 33-08-13; WL 97-17-22; MOBILE: , within 8.1 km, centered around NL 33-08-13; WL 97-17-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Justin (DENTON), TX - NL 33-10-22; WL 97-17-18; MOBILE: , within 8.1 km, centered around NL 33-10-22; WL 97-17-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Frequency Information

Justin (DENTON), TX - NL 33-11-46; WL 97-16-51; MOBILE: , within 8.1 km, centered around NL 33-11-46; WL 97-16-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Justin (DENTON), TX - NL 33-13-12; WL 97-15-32; MOBILE: , within 8.1 km, centered around NL 33-13-12; WL 97-15-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2484-2494 MHz	FX	10M0G7W	3.9 W (ERP)	
2484-2494 MHz	MO	10M0G7W	0.76 W (ERP)	

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The power produced by the emission (10M0G7W) from the authorized fixed station must not exceed 3.9W (ERP) and operations must comply with the applicable power limits for Globalstar Licensee LLC and Globalstar USA, LLC's authorized terrestrial low-power operations.
- (4) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.

Special Conditions:

- (8) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (9) The applicant coordinates with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees prior to commencing test operations.
- (10) The power produced by the emission (10M0G7W) from the authorized mobile station must not exceed 0.76W (ERP) and operations must comply with the applicable power limits for Globalstar Licensee LLC and Globalstar USA, LLC's authorized terrestrial low-power operations