

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WH2XDR

(Call Sign)

0253-EX-PL-2014

(File Number)

NAME BNSF Railway Co.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

- (1) Statewide, WA
- (2) MOBILE: Mobile train, Statewide, WA
- (3) Statewide, WA

Frequency Information

Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.125-220.15 MHz	FX	17K8DXW	500 W (ERP)	0.00015 %
220.125-220.15 MHz	FX	8K90DXW	500 W (ERP)	0.00015 %
220.425-220.45 MHz	FX	17K8DXW	500 W (ERP)	0.00015 %
220.425-220.45 MHz	FX	8K90DXW	500 W (ERP)	0.00015 %

This authorization effective April 21, 2014 and
will expire 3:00 A.M. EST May 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.725-220.75 MHz	FX	17K8DXW	500 W (ERP)	0.00015 %
220.725-220.75 MHz	FX	8K90DXW	500 W (ERP)	0.00015 %
220.75-220.775 MHz	FX	17K8DXW	500 W (ERP)	0.00015 %
220.75-220.775 MHz	FX	8K90DXW	500 W (ERP)	0.00015 %

MOBILE: Mobile train, Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.125-220.15 MHz	MO	17K8D9W	50 W (ERP)	0.00015 %
220.125-220.15 MHz	MO	8K90DXW	50 W (ERP)	0.00015 %
220.425-220.45 MHz	MO	17K8D9W	50 W (ERP)	0.00015 %
220.425-220.45 MHz	MO	8K90DXW	50 W (ERP)	0.00015 %
220.725-220.75 MHz	MO	17K8D9W	50 W (ERP)	0.00015 %

Frequency Information

MOBILE: Mobile train, Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.725-220.75 MHz	MO	8K90DXW	50 W (ERP)	0.00015 %
220.75-220.775 MHz	MO	8K90DXW	50 W (ERP)	0.00015 %
220.75-220.775 MHz	MO	17K8D9W	50 W (ERP)	0.00015 %

Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.125-220.15 MHz	FX	8K90DXW	160 W (ERP)	0.00015 %
220.125-220.15 MHz	FX	17K8DXW	160 W (ERP)	0.00015 %
220.425-220.45 MHz	FX	8K90DXW	160 W (ERP)	0.00015 %
220.425-220.45 MHz	FX	17K8DXW	160 W (ERP)	0.00015 %
220.725-220.75 MHz	FX	17K8DXW	160 W (ERP)	0.00015 %
220.725-220.75 MHz	FX	8K90DXW	160 W (ERP)	0.00015 %

Frequency Information

Statewide, WA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220.75-220.775 MHz	FX	17K8DXW	160 W (ERP)	0.00015 %
220.75-220.775 MHz	FX	8K90DXW	160 W (ERP)	0.00015 %

Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Stop buzzer is Praveen Krishnan, phone (817) 593-0496.
- (4) Authorization granted for experimental operations to and from base station facilities that will be deployed on currently existing antenna structures. This authorization is conditioned upon BNSF's subsequent completion of all environmental review processes for these antenna structures that were required under Part 1, Subpart I of the Commission's rules to have been completed before these antenna structures were constructed. Authorization is granted in order that BNSF may test the operation of its Positive Train Control system in compliance with Federal Railroad Administration regulations.