

BEFORE THE WASHINGTON

UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of the Application of
BNSF RAILWAY COMPANY
for an Exemption from the
Requirements of WAC 480-60-060

Docket No. **TR-160512**

STATE OF WASHINGTON
UTILITIES AND TRANSPORTATION
COMMISSION

2016 MAY 16 PM 2:01

RECEIVED
GENERAL MANAGER

BNSF Railway Company ("BNSF" or the "Applicant") hereby submits this application for an order from the Washington Utilities and Transportation Commission (the "Commission") granting BNSF an exemption from the requirements of WAC 480-60-060.

In support of this Application, BNSF states the following:

1. The full name and address of the Applicant is:

BNSF Railway Company
2650 Lou Menk Drive, MOB-2
P.O. Box 961057
Fort Worth, Texas 76161-0057

2. BNSF is a common carrier by rail engaged in the transportation of freight across the western two-thirds of the United States, including Washington.

3. BNSF wishes to install Trackside Acoustic Detection System ("TADS") equipment adjacent to its Seattle Subdivision at approximately Mile Post 28.2, in the vicinity of Sumner, Washington. The two main tracks at this location are tangent. An average of roughly 49 trains per day, which includes 10 passenger trains per day pass by the site of the proposed installation.

4. The purpose of TADS is to provide early detection of defective wheel bearings on railcars passing by it at normal operating speeds. This is accomplished through use of an

arrangement of multiple microphones on both sides of the track that records the sound produced by each wheel bearing that passes by the TADS installation. These recordings are analyzed by computer equipment programmed to detect sound patterns indicative of a number of common wheel bearing defects.

5. In the event that the TADS detects a defective wheel bearing on a train passing by it, the TADS will issue an alert notice to the appropriate Mechanical Department location based on the alarm's severity and confidence levels. For reference, the inspection points nearest the proposed installation site are Tacoma, WA (northbound) and Centralia, WA (southbound). Upon the train's arrival at the inspection location chosen by BNSF, the wheel bearing(s) that led to the alert being issued will be manually inspected by Mechanical Department personnel, with appropriate action to be taken based on the results of manual inspection.

6. In order to perform its function properly, the TADS must be installed at a distance of 6 feet 5 inches from the center line of the track, on both sides of the target track (main track number 1). The height of the entire TADS assembly (including the support structure) is approximately 20.5 inches above the top of the rail nearest the TADS. The centers of main track number one and main track number two are spaced 17 feet 2 inches apart at this location. As a result, the back side of the TADS equipment placed between the two tracks will be located approximately 9 feet 1/16 inches from the center line of the non-target track. Diagrams depicting these dimensions are attached hereto as Exhibit A.

7. WAC 480-60-050(1) prescribes a general minimum side clearance of 8 feet 6 inches from the center line of the track to trackside structures. A number of exceptions exist for specific trackside structures such as platforms, switch machines, signal

equipment and bridges, but none of these clearly encompass trackside mechanical detector equipment like the TADS equipment. Therefore, the general clearance requirement of 8 feet 6 inches prescribed in WAC 480-60-050(1) applies.

8. Pursuant to WAC 480-60-020(3), the Commission has authority to grant exemptions from any rule in Chapter 480-60 WAC, if consistent with the public interest, the purposes underlying the regulation, and applicable statutes.

9. When positioned closer than 6 feet 5 inches from the center line of the target track, the performance of the TADS equipment diminishes greatly. Therefore, BNSF respectfully requests that the Commission grant this exemption in order to allow for the installation of the TADS equipment approximately 6 feet 5 inches from the center line of the main track

1. This exemption will serve the public interest by supporting the continued safety of BNSF's operations in this region. Further, this exemption would not adversely affect the safety of railroad personnel and operations, the protection of which is the primary underlying purpose of the regulations in Chapter 480-60 WAC. The area for which BNSF seeks this exemption is limited in scope (principally, the proposed installation site for the TADS equipment). BNSF therefore asserts that this exemption would improve, not adversely affect, safety.

10. BNSF is committed to the safe operation of its railroad network, and the TADS technology is one of a number of trackside detector systems available to BNSF for the purpose of detecting railcar problems and preventing en route failures. Other trackside detectors in use by BNSF are designed to evaluate brake shoe status, truck performance, and wheel performance, but the TADS equipment is one of few technologies available to BNSF to effectively, automatically evaluate wheel bearing status on moving trains.

11. This portion of track is an integral part of BNSF's interstate rail system. Under the ICC Termination Act, 49 U.S.C. § 10501(b), the Surface Transportation Board has exclusive jurisdiction over railroad operations and facilities. Although state and local agencies do not have jurisdiction to compel railroads to submit to state or local permitting requirements as a condition of improving the railroads' interstate facilities, BNSF and other railroads can and often do voluntarily agree to comply with reasonable state and local requirements in connection with railroad construction projects. This voluntary cooperation in no way is meant to confer jurisdiction on the state or local regulator but instead is a byproduct of BNSF's commitment to partnership with the communities in which it operates. BNSF is committed to working with the Commission as set forth herein.

12. Therefore, in light of the foregoing, BNSF respectfully submits that it is in the public interest that BNSF be permitted to install the TADS equipment as proposed herein. Further, BNSF requests the Commission approve BNSF's Application for an exemption from the clearance requirements of WAC 480-60-050 in order to allow for installation of the installation of the TADS equipment at a distance of 6 feet 5 inches from main track 1.

Respectfully submitted this 12th day of May 2016,

/s/

Zachary T. Abel

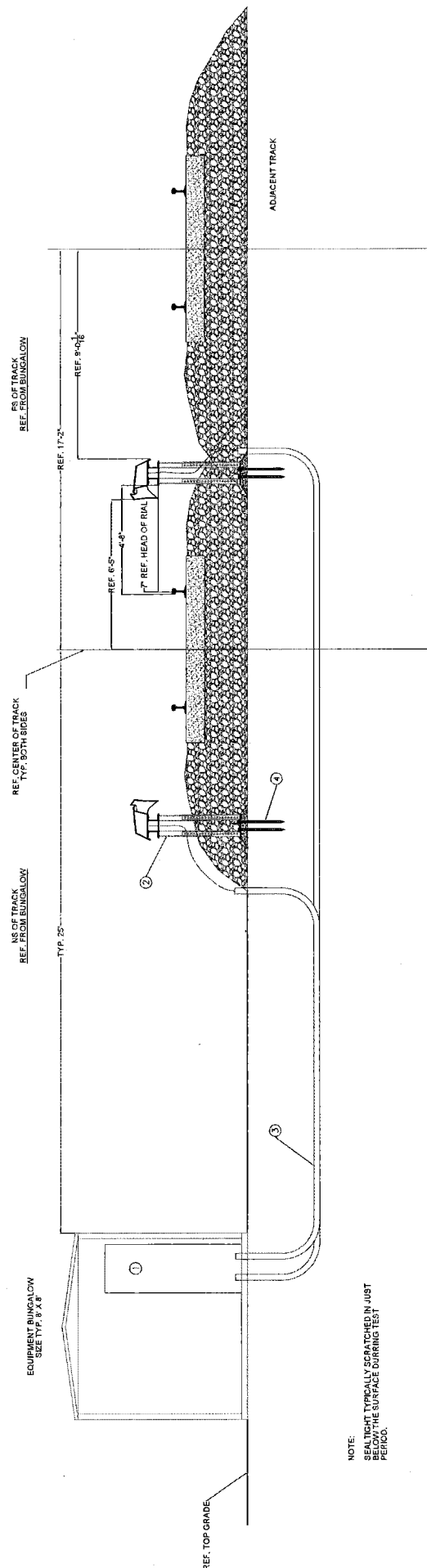
Attorney for Applicant BNSF Railway Company

Exhibit A

Diagram of Proposed Installation of TADS Equipment

REVISIONS			
ZONE	REV	DESCRIPTION	DATE

- ① TADS EQUIPMENT TRACK EXT. RACK DIMENSIONS [1825.8 H X 804.52 W X 1000.00 D]
- ② ADJUSTABLE TADS STANCHION TYP. 8 PLACES.
- ③ 2-1/2" METALLIC SEALTIGHT.
- ④ ANCHOR STAKE TYP. 18 PLACES.



NOTE:
SEALTIGHT TYPICALLY SCRATCHED IN JUST BELOW THE SURFACE DURING TEST PERIOD.

815 14th St. SW Loveland, CO 80537 www.datatraks.com	PRELIMINARY TADS LAYOUT SIDE ELEVATION	DRAWING INFO: DATE: 07/01/14 DRAWN: DJG CHECKED: APPROVED: SIZE: C DATE: 07/01/14 DWG NO.: SCALE: NTS. CAD FILE:	SHEET 1
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES ANGULAR: 4:5 TYP. PLACE DECIMAL ±0.050 TYP. PLACE DECIMAL ±0.010 COMMENTS:		TADS INSTALL WITHOUT CANTILEVERS.	
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