

Exhibit No. \_\_\_\_\_  
Docket No. TR-100127  
Witness: Kevin M. Jeffers, P.E.

BEFORE THE WASHINGTON STATE  
UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON STATE DEPARTMENT  
OF TRANSPORTATION,

Petitioner,

v.

CENTRAL PUGET SOUND REGIONAL  
TRANSPORTATION AUTHORITY; and  
CITY OF LAKEWOOD,

Respondents.

DOCKETS TR-100127, TR-100128,  
TR-100129, and TR-100131  
*(Consolidated)*

WRITTEN DIRECT TESTIMONY OF

Kevin M. Jeffers, P.E.

STAFF OF  
WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
State Rail and Marine Office

April 16, 2010

1 KEVIN M. JEFFERS testifies as follows:

2 I submit this testimony in support of the Washington State Department of  
3 Transportation's petitions in the above-referenced dockets.

4 **Q. Please state your name and business address.**

5 A. My name is Kevin M. Jeffers, P.E., and my business address is 310 Maple Park Drive  
6 Southeast, P.O. Box 47407, Olympia, Washington 98504-7407. My business email address is  
7 [jefferk@wsdot.wa.gov](mailto:jefferk@wsdot.wa.gov).

8 **Q. By whom are you employed and in what capacity?**

9 A. I am employed by the Washington State Department of Transportation (WSDOT), State  
10 Rail and Marine Office as the Rail Engineering Manager.

11 **Q. What are your duties as the Rail Engineering Manager?**

12 A. I provide rail engineering expertise on behalf of WSDOT in support of projects  
13 involving rail-related improvements. These include projects that benefit the Amtrak *Cascades*  
14 service and projects that involve grade crossing upgrades and closures. I also serve as the  
15 project manager for several projects including the Point Defiance Bypass Project.

16 **Q. How long have you been providing rail engineering expertise and managing rail  
17 projects for WSDOT?**

18 A. Over 11 years.

19 **Q. Please state your professional experience to provide testimony in this proceeding.**

20 A. I have been a Professional Engineer, licensed with the State of Washington, since 1994.  
21 Since 1998, I have worked on a wide variety of rail-related improvements as both a project  
22 manager and engineer. Most have included grade safety improvements, grade crossing  
23 replacements, grade separations, or crossing closures. I have also worked on nineteen main  
24 line capacity improvement projects involving complex operational issues similar to the  
25 improvements proposed in Lakewood and DuPont.

1 **Q. Have you presented testimony before this Commission in other cases?**

2 A. Yes. I testified in *BNSF Railway v. Snohomish County*, WUTC Docket  
3 No. TR-090121, regarding the closure of Logan Road north of Stanwood, Washington.

4 **Q. What is the purpose of your testimony?**

5 A. My testimony provides the background of the State of Washington's rail passenger  
6 program, its legislative authority, our long range plan and goals for rail passenger service, and  
7 the Point Defiance Bypass Project, as necessary in order to understand the importance to the  
8 public of modifying the at-grade crossings of Clover Creek Drive SW, North Thorne Lane SW,  
9 and Berkeley Street SW in Lakewood and Barksdale Avenue SW in DuPont.

10 **I. WASHINGTON STATE DEPARTMENT OF TRANSPORTATION'S**  
11 **RAIL PASSENGER PROGRAM**

12 **Q. What is the Washington State intercity rail passenger program?**

13 A. WSDOT's intercity rail passenger program, commonly known as *Amtrak Cascades*  
14 service, was established to provide safe, fast, frequent, and reliable rail passenger service  
15 between Portland, Seattle, Vancouver, British Columbia (BC), and ten intermediate cities.  
16 Amtrak and WSDOT operate several daily *Amtrak Cascades* passenger trains between  
17 Portland, Seattle, Bellingham, and Vancouver, BC. Currently there are four daily round trips  
18 between Portland and Seattle, serving the communities of Vancouver, WA, Kelso/Longview,  
19 Centralia, Olympia/Lacey, Tacoma, and Tukwila. There are also two daily round trip trains  
20 between Seattle and Vancouver, BC, with service to Edmonds, Everett, Stanwood, Mount  
21 Vernon, and Bellingham. These services are provided under an operating agreement between  
22 the State of Washington and Amtrak.

23 **Q. How did Washington State's intercity rail passenger program begin?**

24 A. The vision of reduced travel times and better passenger rail service in the Pacific  
25 Northwest began in the late 1980s when the Washington State Legislature funded a program to  
26 improve rail depots across the state. In 1991 the Washington State Legislature directed

1 WSDOT to develop a comprehensive assessment of the feasibility of developing a high-speed  
2 ground transportation system in the state of Washington.

3 In October 1992, the *High Speed Ground Transportation Study* was delivered to the  
4 Governor and the Legislature. This study confirmed the feasibility of developing high-speed  
5 rail between Portland, OR, Seattle, WA, and Vancouver, BC.

6 Following release of this study in April 1993, WSDOT was directed to develop  
7 “high-quality intercity passenger rail service . . . through incremental upgrading of the existing  
8 [Amtrak] service” (Revised Code of Washington (RCW) Chapter 47.79). The Legislature  
9 believed that this step-by-step approach would help build a “rail culture” in the region that  
10 would eventually make rail a competitive and viable alternative to automobile and regional air  
11 travel.

12 In October 1992, the U.S. Department of Transportation’s Federal Railroad  
13 Administration (FRA) designated the Pacific Northwest Rail Corridor as one of five  
14 high-speed rail corridors in the United States. The 466-mile long rail corridor stretches from  
15 Eugene, OR to Vancouver, BC, Canada. This designation helps our region compete for  
16 potential federal funds to assist the State with planning and implementing improved passenger  
17 and freight rail service throughout the corridor.

18 **Q. What is the purpose of the intercity rail passenger program?**

19 A. Freight and passenger rail is an important part of our State’s transportation system.  
20 Moving people and goods by rail is safer and friendlier to the environment than adding traffic  
21 to our already congested highways. Improvements to the State’s rail system, whether funded  
22 by the private sector or the public sector, can help mitigate the impacts of our growing  
23 economy and population in many ways such as by reducing highway congestion and  
24 maintenance costs.

25 The purpose of Washington State’s passenger rail program is to:  
26

- 1 • Provide a viable, cost-effective travel mode that significantly increases options  
2 for intercity travel;
- 3 • Respond to the direction given in RCW Chapters 47.79 and 47.82 to develop  
4 high quality passenger rail service through the incremental upgrading of the  
5 existing service;
- 6 • Develop faster, more frequent, safe and reliable Amtrak *Cascades* service that  
7 requires little or no operating subsidy;
- 8 • Reduce the overall impacts of transportation improvements on local  
9 communities and the environment; and
- 10 • Increase safety throughout the corridor, and to team with our partners and  
11 customers to provide more efficient, predictable, reliable, and cost-effective  
12 movement of people and goods.

13 **Q. What type of future service is WSDOT planning?**

14 A. Washington State plans to incrementally improve Amtrak *Cascades* service based on  
15 market demand, partnership investment, legislative authorization, and funding availability.  
16 Improvements to track, safety systems, train equipment, and stations will reduce travel times,  
17 increase train frequency, and improve safety and reliability. WSDOT's current Long Range  
18 Plan for Amtrak *Cascades* serves as a blue print for the development of intercity passenger  
19 service through 2023 and beyond.<sup>1</sup> The Point Defiance Bypass Project is identified in the  
20 document as one of the projects required to expand service between Seattle, WA and Portland,  
21 OR. The Amtrak *Cascades* Mid-Range Plan outlines rail corridor and service development  
22 options through 2017. (See Exhibits KJ02 and KJ02a for the complete Mid-Range Plan and  
23 Appendices.) The Point Defiance Bypass Project is one of the projects included in all four  
24 options discussed in the document.

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25 <sup>1</sup> For a more detailed discussion, please see the Executive Summary of the Long Range Plan, attached  
26 hereto at Exhibit KJ01.

1 In 2009, as part of the federal American Recovery and Reinvestment Act (ARRA), the  
2 U.S. Department of Transportation's Federal Railroad Administration (FRA) offered a call for  
3 projects for the High-Speed Intercity Passenger Rail (HSIPR) Program. The program is  
4 designed to stimulate the economy and create jobs as well as to improve both high-speed rail  
5 and intercity passenger rail corridors. The funds are available for projects through September  
6 2017.

7 In February 2010, the FRA announced that the State of Washington is to be awarded  
8 \$590 million in funds with the stated goals of increasing the intercity passenger rail service  
9 between Seattle, WA and Portland, OR from four daily round trips to six daily round trips,  
10 shortening the travel time between Seattle and Portland by 6 minutes and increasing reliability  
11 of the service to a minimum of 88 percent on-time between Seattle and Portland. The Point  
12 Defiance Bypass Project is one of the projects required to meet the goals of the grant.

13 **Q. Is WSDOT developing the Amtrak Cascades program by itself?**

14 A. Rail corridor development is a cooperative effort of many entities, including the states  
15 of Oregon and Washington, Burlington Northern Santa Fe (BNSF), Union Pacific Railroad,  
16 Amtrak, Sound Transit, the province of British Columbia, ports, local communities, and ticket-  
17 buying passengers.

18 Throughout the program, WSDOT and these organizations and agencies are continually  
19 reviewing system improvements and negotiating the funding arrangements for these  
20 improvements.

21 **Q. What work has already been done?**

22 A. Over the past fifteen years, the states of Washington and Oregon have commissioned a  
23 series of feasibility studies to assess the practical problems, costs, and benefits of providing  
24 public investment to upgrade the corridor for safe, faster, more frequent, and reliable passenger  
25 rail service.

1 In addition, a number of major capital improvement projects have been completed.  
2 These are listed below and include web links for those projects for which WSDOT produced a  
3 project web page:

- 4 • Seattle-Blaine traffic control and rail replacement
- 5 • Swift siding construction <http://www.wsdot.wa.gov/projects/rail/swiftcustoms/>
- 6 • Custer/Cherry Point yard tracks and siding
- 7 • Bow siding extension
- 8 • Burlington track relocation
- 9 • Ferndale siding extension
- 10 • Mount Vernon siding Phase I
- 11 [http://www.wsdot.wa.gov/projects/rail/pnwrc\\_mtvernon siding/](http://www.wsdot.wa.gov/projects/rail/pnwrc_mtvernon siding/)
- 12 • English siding extension
- 13 • Amtrak Seattle Maintenance Facility equipment
- 14 • Titlow and Ruston crossovers
- 15 [http://www.wsdot.wa.gov/projects/rail/pnwrc\\_titlow/](http://www.wsdot.wa.gov/projects/rail/pnwrc_titlow/)
- 16 • Felida and Woodland crossovers
- 17 • Purchase of three Talgo-built passenger trains
- 18 • Centennial crossover [http://www.wsdot.wa.gov/projects/rail/pnwrc\\_centennial/](http://www.wsdot.wa.gov/projects/rail/pnwrc_centennial/);
- 19 • Winlock crossovers <http://www.wsdot.wa.gov/projects/rail/winlockcrossovers/>
- 20 • Tenino crossovers [http://www.wsdot.wa.gov/projects/rail/pnwrc\\_tenino/](http://www.wsdot.wa.gov/projects/rail/pnwrc_tenino/)
- 21 • New station construction and improvements
- 22 <http://www.wsdot.wa.gov/projects/rail/stanwoodstation/>

23 These capital improvement projects allowed new and improved rail passenger services  
24 to be added. These included:

25 1994: Second daily Seattle-Portland round trip added;

26 1995: Seattle-Vancouver, BC service reestablished;

1 1998: Third daily Seattle-Portland round trip added;  
2 25 minute travel time reduction between Seattle and Portland;  
3 1999: New Talgo trainsets go into service as Amtrak *Cascades* Seattle-Bellingham  
4 service starts;  
5 2003: WSDOT purchases third Talgo trainset;  
6 2004: Master Corridor Agreement with BNSF;  
7 2005: Total Amtrak *Cascades* ridership surpasses 600,000;  
8 2006: Fourth Seattle-Portland round trip added; and  
9 2009: Seattle-Bellingham Service extended to Vancouver, BC, creating a second  
10 Seattle-Vancouver BC round trip.

11 **Q. What is Washington State’s vision for Amtrak *Cascades* service in the Long Range**  
12 **Plan?**

13 A. The goal of the program is to incrementally improve rail passenger service by  
14 increasing frequency of service and reducing trip time. Rail passenger service between Seattle,  
15 WA and Portland, OR would increase from four to thirteen round trips per day. Vancouver,  
16 BC to Seattle service would increase from two to four trains per day, three of which will  
17 continue on to Portland. In addition, the estimated travel times would be reduced. Travel time  
18 from Seattle to Portland would decrease by an hour—from three and one half hours to two and  
19 one half hours; travel time from Seattle to Vancouver, BC would be reduced from four hours to  
20 just under three hours; and travel time from Vancouver, BC to Portland would be reduced from  
21 seven and one half hours to approximately five and one half hours.

22 **Q. What are our State’s “building blocks” and how will they be put in place?**

23 A. Following the Legislature’s directive, WSDOT’s Long-Range Plan for Amtrak  
24 *Cascades* (Exhibit KJ01) uses an incremental approach that allows the State of Washington to  
25 add faster, more frequent Amtrak *Cascades* service based on market demand, partnership  
26 investment, and legislative authorization.



1 In order to ensure that public funds are expended in the most efficient manner, the  
2 long-range plan identifies all of the construction projects necessary to achieve WSDOT's  
3 service goals as depicted in the Long-Range Plan. Each construction project is designed to  
4 solve a particular problem within the corridor. These projects are then grouped into "building  
5 blocks" that must be constructed in the sequence described in this plan. Each successive  
6 "building block" adds upon the preceding investments and allows WSDOT to add more daily  
7 trains, improve schedule reliability, and reduce travel times in a methodical and rational way.  
8 These "building blocks" ultimately become the daily timetables that the traveling public will  
9 rely upon once a "block" of construction projects has been completed. This planning approach  
10 combines methods commonly used by intercity rail planners in Europe with the incremental  
11 approach sought by the State Legislature.

12 **Q. How will this program benefit the citizens of Washington now and in the future?**

13 A. The public funds invested to support faster and more frequent Amtrak *Cascades* service  
14 will offer the citizens of Washington a number of benefits in the years ahead. The service will  
15 provide a viable alternative to automobile and regional air travel, while supporting improved  
16 freight rail mobility within the state of Washington.

17 Continued implementation of the Amtrak *Cascades* program will help ease our region's  
18 growing pains in a cost-effective manner. The efficient movement of people and goods within  
19 the region is crucial to the State's ability to compete in world markets, to protect the  
20 environment, and to maintain a high quality of life. At full build out of the rail passenger  
21 program, the system could carry 3 million riders per year, with no public operational subsidy.

22 **Q. What options are discussed in the Amtrak *Cascades* Mid-Range Plan?**

23 A. The mid-range plan, completed in 2008 (*See* Exhibit KJ02), outlined four options for  
24 policy makers to consider. Option 1 was to complete current projects then under construction  
25 but not to expand or improve the service beyond the current 2008 levels. Option 2 included  
26 completion of current projects under construction and purchase of equipment to increase daily

1 service to five round trips between Seattle and Portland and two round trips between Seattle  
2 and Vancouver, BC. Option 3 included completion of current projects under construction,  
3 purchase of additional equipment, and building other projects to increase daily service to six  
4 round trips between Seattle and Portland and two round trips between Seattle and Vancouver,  
5 BC. Option 4 involved completion of current projects under construction, purchase of  
6 additional equipment, and building other projects to increase daily service to eight round trips  
7 between Seattle and Portland and two round trips between Seattle and Vancouver, BC.

8 The Point Defiance Bypass project was identified as required for in all four options.

## 9 II. THE POINT DEFIANCE BYPASS PROJECT

### 10 Q. What is the Point Defiance Bypass Project?

11 A. Currently, passenger trains run along the highly curved water-level route from  
12 Nisqually, through Steilacoom, and through a series of tunnels under Point Defiance to  
13 Tacoma. There are two tracks over most of the water level route, except near the tunnels  
14 where the tunnel height requires a one and one half mile long segment of single track. The  
15 existing route is bordered tightly between the water and tall bluffs. The highly curved tracks  
16 throughout the water level route force passenger and freight trains to travel at speeds as low as  
17 30 mph. Passenger trains can achieve the maximum speed of 79 mph only over five of the  
18 28-mile water level route. The slow speeds and the single track section through the tunnels  
19 create rail traffic congestion. The congestion and the occasional mud slides from the bluff  
20 above the tracks also make the route unreliable. Further, the congestion on the existing route  
21 limits capacity to expand passenger rail service because it does not have the capacity to handle  
22 additional trains. The proximity of the route to the water and bluffs and the more than 4,500 ft.  
23 of tunnels leave no room for additional tracks.

24 The Point Defiance Bypass Project will re-route passenger trains away from the  
25 water-level route to a lightly used route through DuPont, Lakewood, and south Tacoma. It is a  
26 two phase project that will improve rail service between Seattle and Portland. The bypass is

1 six miles shorter than the water level route, will have less freight congestion, and will allow  
2 passenger trains to travel at 79 mph for nearly two-thirds of the 22-mile bypass route. Sound  
3 Transit, as owner of the rail line, is directing the first phase of the construction at the same time  
4 as they are building improvements to allow Sounder commuter rail trains to service Lakewood.  
5 This first phase, currently under construction, will result in realignment of the track from 100<sup>th</sup>  
6 Street SW to the future Sounder commuter rail station in Lakewood. In addition, new warning  
7 devices and crossing surfaces, including the crossing surfaces for a second track, will be  
8 installed at 74<sup>th</sup> Street SW in Tacoma and at four locations in Lakewood—Steilacoom Blvd.  
9 SW, 100<sup>th</sup> St. SW, 108<sup>th</sup> St. SW, and Bridgeport Way SW. The second track is part of the  
10 second phase, but installing the crossing surfaces for the second track during the first phase  
11 (before the construction of the connecting track) will minimize disruption at these locations by  
12 completing all of the crossing surface work at once.

13 The second phase will construct the second track from just south of 66<sup>th</sup> Street SW in  
14 Tacoma to just south of Bridgeport Way SW in Lakewood, a total of about 3.5 miles. From  
15 the end of the second track to Nisqually, the rail line will be upgraded with new subgrade  
16 (roadbed), ballast, concrete ties, and continuously welded rail for about 10 miles. This  
17 southern portion of phase two will include the upgrade of the approaches, crossing surfaces,  
18 and warning devices for the at-grade crossings of Clover Creek Drive SW, North Thorne Lane  
19 SW, and Berkeley Street SW in Lakewood; 41<sup>st</sup> Division Way SW on Joint Base Lewis  
20 McChord (JBLM), and Barksdale Avenue SW in DuPont. It will also make improvements to  
21 the connection to the BNSF Railway main line at Nisqually Junction.

22 Once complete, the Amtrak *Cascades* trains will be able to take advantage of  
23 improvements Sound Transit is making between Lakewood and their Tacoma Dome Station in  
24 Tacoma and re-route all Amtrak trains onto the bypass route. The bypass route essentially  
25 adds a third main track, primarily dedicated to passenger trains between Nisqually and  
26 Tacoma. This improves capacity to the rail network and allows for additional Amtrak

1 *Cascades* service. The completion of this project and another project in Vancouver will allow  
2 the addition of a fifth Seattle-Portland round trip. Once two additional projects in Kelso and  
3 Kalama are complete, a sixth Seattle-Portland round trip can be added. This bypass route is  
4 also several miles shorter which will result in shorter travel time by six minutes, 4 percent of  
5 the current Seattle-Portland travel time.

6 **Q. How does the Point Defiance Bypass Project fit in with the development plans for**  
7 **the Pacific Northwest Rail Corridor?**

8 A. The Point Defiance Bypass Project is an incremental improvement to the overall  
9 Amtrak *Cascades* program. It is a building block towards meeting the goals contained in the  
10 long-range plan of faster and more frequent Amtrak *Cascades* service. It will allow for two  
11 more round trips for passenger trains between Seattle and Portland, as well as reduce the trip  
12 time and improve reliability.

13 **Q. Is demand for the Amtrak *Cascades* service growing?**

14 A. Amtrak *Cascades* service has grown substantially since it started in 1993. That year,  
15 fewer than 95,000 passengers rode Amtrak between Seattle and Portland. In 2009, more than  
16 750,000 riders traveled on Amtrak *Cascades* trains between Eugene, OR and Vancouver, BC.  
17 Amtrak *Cascades* service frequently experiences sold out conditions on weekends, holidays,  
18 and during the summer. Surveys of Amtrak *Cascades* passengers indicate that riders want  
19 more frequent rail passenger service.

20 **Q. How is the Point Defiance Bypass Project funded?**

21 A. The project is currently funded with nearly \$97 million in State funds and over  
22 \$3 million in federal highway funds originally appropriated by the Washington State  
23 Legislature in 2003 with additional funds appropriated in 2005 and 2007. Due to current  
24 economic conditions, and in the absence of the federal ARRA monies discussed below, the  
25 project's spending plan will not allow the second phase of construction to begin until July 2013  
26 at the earliest and would delay completion until 2019.

1           However, as previously stated, in February 2010, the FRA announced that the State of  
2 Washington is to be awarded \$590 million in ARRA funds to increase the intercity passenger  
3 rail service between Seattle and Portland from four to six daily round trips, shortening the  
4 travel time between Seattle and Portland by 6 minutes, and increasing reliability of the service  
5 to a minimum of 88 percent on-time service between Seattle and Portland. The Point Defiance  
6 Bypass Project is one of the projects required to meet the goals of the grant.

7           As part of the grant application submitted in October 2009, WSDOT requested that  
8 \$91.6 million of the FRA grant be applied to the Point Defiance Bypass Project to accelerate  
9 the schedule for the second phase of construction. WSDOT requested the FRA make those  
10 funds available as soon as possible to take advantage of a very competitive bidding climate and  
11 to spur the addition of 635 construction jobs.

12           Up to \$5.7 million of the project budget is for the grade crossing improvements at  
13 Clover Creek Drive SW, North Thorne Lane SW, and Berkeley Street SW in Lakewood; 41<sup>st</sup>  
14 Division Way SW on Joint Base Lewis McChord (JBLM), and Barksdale Avenue SW in  
15 DuPont.

16 **Q.     What is the anticipated timeline for the project?**

17 A.     The schedule has recently accelerated with the inclusion of FRA grant funds in the  
18 project. WSDOT anticipates the FRA grant funds will be made available to the project as early  
19 as June 2010. In order to move through the construction advertisement (ad) and award  
20 process, the earliest I anticipate construction will begin is September 2010. Depending on  
21 weather and other factors that can be difficult to predict, construction could be completed in 18  
22 to 24 months. Once completed and the track and signals are certified by the railroad operators,  
23 passenger trains currently routed on BNSF railroad to the east would be re-routed onto the  
24 bypass route, even if additional service is not added at that time.

1 **Q. How do the proposed crossing modifications at Clover Creek Drive SW, Berkeley**  
2 **Street SW, North Thorne Lane SW, and Barksdale Avenue SW fit in with the overall**  
3 **project?**

4 A. As will be addressed in greater detail by other witnesses in this matter, the current  
5 signal systems at Berkeley Street SW, North Thorne Lane SW, and Barksdale Avenue SW are  
6 outdated and designed for slow speed train operation. Clover Creek Drive SW is currently a  
7 passive crossing. The proposed modifications will alleviate the need to close any of these  
8 crossings and will still allow the passenger trains to pass through at speeds up to 79 mph, while  
9 minimizing the risk to vehicle and pedestrians using those crossings.

10 **III. ENVIRONMENTAL PROCESS**

11 **Q. Did WSDOT undertake an environmental process as part of this project?**

12 A. Yes. An Environmental Assessment under the National Environmental Policy Act  
13 (NEPA) was started in July 2006. Technical studies, called "Discipline Reports" were started  
14 at the time and were completed by March 2008. The resource areas examined in each  
15 Discipline Report are:

- 16 1. Air Quality
- 17 2. Cultural Resources (Historic and Archeological)
- 18 3. Disruptions and Relocations
- 19 4. Energy
- 20 5. Fish, Vegetation, and Wildlife
- 21 6. Geology and Soil
- 22 7. Hazardous Materials
- 23 8. Hydrology and Water Quality
- 24 9. Land Use
- 25 10. Noise and Vibration
- 26 11. Public Services and Utilities

- 1 12. Social Elements (including Environmental Justice)
- 2 13. Traffic and Transportation
- 3 14. Visual Quality; and
- 4 15. Wetlands.

5 These Discipline Reports are summarized in the project's Environmental Summary attached  
6 hereto as Exhibit KJ03.

7 Public and agency outreach efforts for the Point Defiance Bypass Project began in the  
8 fall of 2006 and continued into 2008. Both the National Environmental Policy Act (NEPA)  
9 and the State Environmental Policy Act (SEPA) require that project proponents notify citizens,  
10 tribes, and agencies about a proposed project which could have impacts to the natural or built  
11 environment and to give them opportunities to comment on what should be considered in  
12 preparation of the environmental review. The first phase of outreach entailed public, agency,  
13 and tribal scoping for the project's environmental process. Scoping is a formal step early in  
14 the environmental review process that allows the public, tribes, and agencies to identify issues  
15 and concerns related to a proposed project.

16 As the technical work for the Environmental Assessment was nearing completion,  
17 WSDOT and the Federal Highway Administration (FHWA) jointly determined that the Point  
18 Defiance Bypass Project is categorically excluded from NEPA under 40 C.F.R. 1508.4 because  
19 it meets certain criteria as defined under FHWA guidelines: it does not induce significant  
20 impacts to planned growth or land use for the area; it does not require the relocation of  
21 significant numbers of people; it does not have a significant impact on any natural, cultural,  
22 recreational, historic or other resource; it does not involve significant air, noise, or water  
23 quality impacts; it does not have significant impacts on travel patterns; nor does it otherwise,  
24 either individually or cumulatively, have any significant environmental impacts (23 C.F.R.  
25 771.117).

1 In addition to meeting the categories above, the project does not include any of the  
2 circumstances that the FHWA has determined to require additional analysis beyond a  
3 Categorical Exclusion (CE): it does not result in significant environmental impacts; it does not  
4 create substantial controversy on environmental grounds; it does not have significant impact on  
5 properties protected by section 4(f) of the DOT Act or section 106 of the National Historic  
6 Preservation Act; and is not inconsistent with any federal, state, or local law, requirement, or  
7 administrative determination relating to the environmental aspects of the action (FHWA 1987).

8 Under NEPA and FHWA regulations, if a proposed action is determined to be  
9 categorically excluded from NEPA, then neither an Environmental Assessment (EA) nor an  
10 Environmental Impact Statement (EIS) is required. For the Point Defiance Bypass Project,  
11 WSDOT prepared a Documented Categorical Exclusion (DCE), which includes a standard  
12 FHWA Environmental Classification Summary, and supporting technical material that  
13 demonstrates that the project will not result in significant impacts. The Documented  
14 Categorical Exclusion was officially issued by FHWA on May 5, 2008, and is attached hereto  
15 as Exhibit KJ04.

16 After the Documented Categorical Exclusion was issued by FHWA, WSDOT—as the  
17 lead agency under SEPA—formally adopted the NEPA documents under WAC 197-11-630  
18 and issued a Determination of Non-Significance (DNS) on August 1, 2008 (Exhibit KJ05).  
19 The Determination of Non-Significance states that the proposed project does not have a  
20 probable significant adverse impact on the environment and that an Environmental Impact  
21 Statement (EIS) is not required under RCW 43.21C.030(2)(c). WSDOT issued the  
22 Determination of Non-Significance under WAC 197-11-340(2).

23 **Q. Who was the lead agency for that process?**

24 A. Under Washington’s State Environmental Policy Act (SEPA), any agency that proposes  
25 to take an official action is required to perform an environmental review to identify any  
26



1 benefits and/or impacts which may result from the action. As such WSDOT is the lead agency  
2 on the Point Defiance Bypass Project for the purposes of SEPA.

3 At the federal level, pursuant to the National Environmental Policy Act (NEPA), an  
4 environmental review must be performed if the proposed action is being implemented by a  
5 federal agency, requires a federal permit, or has federal funding. In this case, two federal  
6 agencies have authority over the project, the Federal Highway Administration (FHWA) and the  
7 Federal Railroad Administration (FRA). The two agencies agreed that the FHWA should serve  
8 as the lead agency under NEPA and guide the NEPA review.

9 **Q. Has the environmental process been completed?**

10 A. Yes. The environmental process was completed when FHWA issued the Documented  
11 Categorical Exclusion on May 5, 2008, and 14 days after WSDOT issued the Determination of  
12 Non-Significance on August 1, 2008, according to WAC 197-11-340.

13 **Q. What were the findings?**

14 A. They found that the project does not induce significant impacts to planned growth or  
15 land use for the area; does not require the relocation of significant numbers of people; does not  
16 have a significant impact on any natural, cultural, recreational, historic or other resource; does  
17 not involve significant air, noise, or water quality impacts; does not have significant impacts on  
18 travel patterns; or does not otherwise, either individually or cumulatively, have any significant  
19 environmental impacts. In addition, the project does not include any of the circumstances that  
20 the FHWA has determined to require additional analysis beyond a Categorical Exclusion (CE):  
21 it does not result in significant environmental impacts; does not create substantial controversy  
22 on environmental grounds; does not have significant impact on properties protected by  
23 section-4(f) of the DOT Act or section 106 of the National Historic Preservation Act; and is not  
24 inconsistent with any federal, state, or local law, requirement, or administrative determination  
25 relating to the environmental aspects of the action.

1                                    **IV. ALTERNATIVE CROSSING CONFIGURATIONS**

2    **Q. Under what statutory authority does WSDOT petition the UTC?**

3    A. WSDOT asks the UTC to exercise the authority granted in RCW 81.53.261 to consider  
4 the petitions filed herein under Dockets TR-100127, TR-100128, TR-100129, and TR-100131,  
5 and to enter an order deeming that the public safety requires the construction of the safety  
6 devices and other modifications to those crossings as set forth by WSDOT in its petitions.

7    **Q. Did WSDOT consider filing a petition requesting the UTC order the construction**  
8 **of an over-crossing or an under-crossing at one or more of these crossings?**

9    A. Both the railroad and the affected roadways currently exist and already meet at-grade.  
10 So, the requirement in RCW 81.53.020 that requires newly constructed railroads that cross  
11 existing highways, and newly constructed highways that cross existing railroads, to be grade  
12 separated where practicable, is not applicable. WSDOT elected not to request authorization to  
13 construct over-crossings or under-crossings because, as set forth below, constructing grade  
14 separations at this crossing is not feasible within available funding.

15    **Q. Can you briefly describe the factors that caused you to conclude that it is not**  
16 **feasible to separate grades at one or more of these intersections?**

17    A. Safety and cost. WSDOT examined whether the existing at-grade crossings could be  
18 improved to allow the passenger trains to move across them at 79 mph. As the initial designs  
19 were prepared, WSDOT examined the addition of flashing lights, traffic gates, median  
20 separator curbs, and wayside horns along with improving crossing surfaces at Clover Creek  
21 Drive SW, North Thorne Lane SW, and Berkeley Street SW in Lakewood, and Barksdale  
22 Avenue SW in DuPont. At Clover Creek Drive SW, North Thorne Lane SW, and Berkeley  
23 Street SW, WSDOT also examined widening the approaches and crossing surface. At North  
24 Thorne Lane SW and Berkeley Street SW, WSDOT also examined broadening the turning  
25 radii for the Interstate 5 on and off ramps. At North Thorne Lane SW, Berkeley Street SW,  
26 and Barksdale Avenue SW, WSDOT examined improvements to traffic signal controllers and

1 interfaces to prevent queuing of traffic onto the tracks from adjacent intersections and from the  
2 nearby military security check points. As the testimony of Mr. Berger and Mr. Stewart shows,  
3 the crossing improvements proposed improve safety to an acceptable state.

4 The other factor examined is cost; WSDOT examined the relative costs of grade  
5 separating the at-grade crossings. WSDOT has a plan to build a grade separation at North  
6 Thorne Lane SW as part of the larger SR 704 – Cross Base Highway. That overall project  
7 would move a significant amount of traffic from the I-5/SR 512 interchange to the North  
8 Thorne Lane interchange. In one phase, the project would rebuild and raise the interchange  
9 and eliminate the at-grade crossing. Although this phase of the SR 704 – Cross Base Highway  
10 is not yet funded, the most reasonable option for grade separating that crossing would be to do  
11 so as proposed in the SR 704 project. From that plan, we know that it would cost about \$246  
12 million in 2006 to grade separate just that one crossing.

13 At Berkeley Street SW in Lakewood, and Barksdale Avenue SW in DuPont, the most  
14 economical grade separation would be to raise the rail line over roadways. In order to provide  
15 the required clearance over the roadway, the rail line would need to be at least 30 ft. above the  
16 roadway, and would require specially-designed walls to support the heavy freight rail loading.  
17 In order to safely traverse the 30 ft. or more climb, the grade of the rail line would need to be  
18 less than 1 ft. of rise per for every 100 ft. of distance. This grade would require construction of  
19 walls that would extend up to 3,000 ft. in both directions. The over-crossing necessary to carry  
20 both passenger and existing freight trains would be long enough to require a heavy plat girder  
21 bridge or an even more costly through-truss bridge. I estimate this would cost between \$30  
22 and \$70 million at each location (up to \$140 million in total). Grade separating these crossings  
23 is simply not financially feasible.

24 At Clover Creek Drive SW, WSDOT did not consider a grade separation of any kind.  
25 The volume of traffic would not warrant even the lowest cost grade separation. WSDOT  
26

1 considered closure of that crossing more practicable in the event that it could not safely remain  
2 open with appropriate modifications.

3 **Q. Why do you think the modifications in the petitions are the more appropriate way**  
4 **to address public safety and convenience for these crossings?**

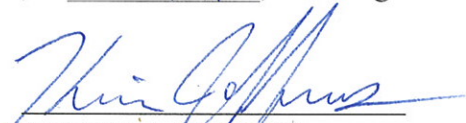
5 A. As I have stated earlier in my testimony, the proposed modifications will provide an  
6 adequate and feasible level of safety and convenience for motorists while allowing the  
7 passenger trains to be re-routed onto the bypass route. Thus WSDOT asks the UTC to enter an  
8 order deeming that the public safety requires the construction of the safety devices and other  
9 modifications to those crossings as set forth by WSDOT in its petitions.

10 **Q. Does this conclude your testimony?**

11 A. Yes, it does.

12 I declare under penalty of perjury under the laws of the State of Washington that the  
13 foregoing is true and correct to the best of my knowledge.

14 DATED this 16<sup>TH</sup> day of April, 2010, at OLYMPIA, Washington.

15   
16 KEVIN M. JEFFERS