

# Rail Projects on the Amtrak Cascades Corridor

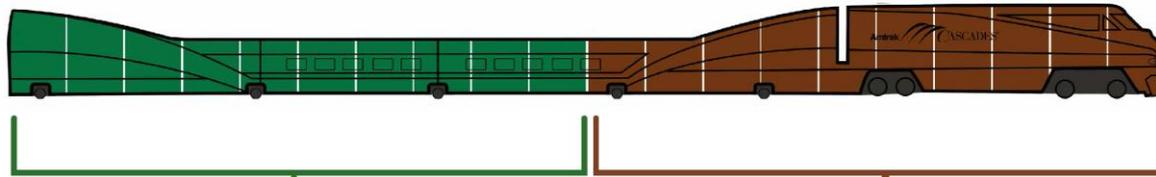


**Ron Pate**  
WSDOT Rail Director

**Joint Annual Meeting  
All Aboard Washington and  
Association of Oregon Rail and Transit Advocates**  
March 5, 2016

# Halfway there – 10 of 20 high-speed rail capital projects completed

## WSDOT HIGH-SPEED RAIL PROJECT PROGRESS



10

### CONSTRUCTION

- Tacoma – Point Defiance Bypass
- Kelso Martin's Bluff – New Siding
- Vancouver – Rail Yard Bypass
- Kelso Martin's Bluff – Toteff Siding Extension
- Corridor Reliability Upgrades – South
- Corridor Reliability Upgrades – North
- Corridor Reliability Supplemental Work
- New Locomotives
- Kelso Martin's Bluff – Kelso to Longview Junction
- King Street Station Track Upgrades

10

### COMPLETED

- Tacoma – D to M Street Connection
- Everett Storage Tracks
- Tukwila Station
- King Street Station Seismic Retrofit
- Advanced Wayside Signal System
- Blaine-Swift Customs Facility
- Mount Vernon Siding Extension
- New Trainsets/Passenger Rail Cars
- Vancouver – New Middle Lead
- Vancouver – Port Access Rail Improvements

DECEMBER 2016  
16-01004A

20 PROJECTS BY 2017



# Completed projects

- **King Street Station:** Seismic retrofits to building; historic lobby restored
- **Tacoma D to M Street Connection:** 1.4 miles of new track
- **Everett Storage Tracks:** New receiving/ departure tracks
- **Tukwila Station:** New station replaces temporary structure with multimodal hub
- **Vancouver New Middle Lead:** Second 1,300-foot track to ease congestion
- **Port of Vancouver Improvements:** Congestion relief, new rail trench improves access
- **Blaine-Swift Customs Facility:** Second siding for customs inspections off the mainline
- **Mount Vernon Siding Extension:** Provides more capacity for meets and passes of trains
- **Advanced Wayside Signal System:** Upgrades at all control points, sidings, turnouts
- **New trainsets:** Goal met by ODOT purchase; funds reallocated



# Projects coming in the next 18 months

- **Slide Management Projects** – four additional sites near Mukilteo and Everett complete this month (2 others done in 2013)
- Two **corridor reliability upgrade** projects to add state-of-the-art technology and equipment along entire Washington corridor
- Three projects in the **Kelso/Kalama/Longview** region to improve capacity and reduce congestion
- **Bypass at the Vancouver Rail Yard** to separate passenger and freight traffic and reduce congestion
- **King Street Station track** improvements to reconfigure connections and increase capacity for all trains operating at station
- **New Tacoma Amtrak Cascades station** and **inland bypass** between Tacoma and Nisqually
- **Eight new Siemens Charger locomotives** delivered starting in late 2016



# FAST ACT: Title XI - Rail

The FAST Act is five-year legislation to improve the Nation's surface transportation infrastructure, including our roads, bridges, transit systems, and rail transportation network.

## Rail Highlights:

- **It Authorizes Three Grant Programs**
  - *Consolidated Rail Infrastructure & Safety Improvements*
  - *Federal-State Partnership for State of Good Repair (SOGR)*
  - *Restoration and Enhancement Grants*
- **Provides Safety Initiatives & Planning**
  - *Inward Facing Cameras in Locomotives and Cab cars*
  - *Increased Rail Liability Insurance Cap*
- **Establishes a State Supported Route Committee (SSRC)**
- **Environmental Efficiencies through expedited reviews**
- **Requires Amtrak Reforms**
  - *DBEs, Planning, Food and Beverage*
  - *Amtrak Board of Directors*



# Moving Closer to Pre-Clearance at Pacific Central Station

- The governments of the United States and Canada are getting closer to finalizing an agreement that will allow all security clearances to occur at Pacific Central Station, which will eliminate the second inspection at the border
- Pre-clearance has been a goal of both Amtrak and WSDOT for over a decade
- Pre-clearance will make Amtrak Cascades a more attractive travel option for cross-border travel by reducing the schedule time by 10 minutes and support improved on-time performance
- Bipartisan legislation was introduced on March 1 to increase national security and facilitate travel and commerce between the United States and Canada was introduced Tuesday in the House and Senate - Senator Murray stated her support for this legislation



# New WSDOT Locomotives



- Eight new Siemens Charger locomotives for WSDOT
- Scheduled for delivery starting late 2016
- More fuel-efficient, faster, and reliable
- In service beginning 2017

# Multi State Locomotive Procurement

## *Project Overview*



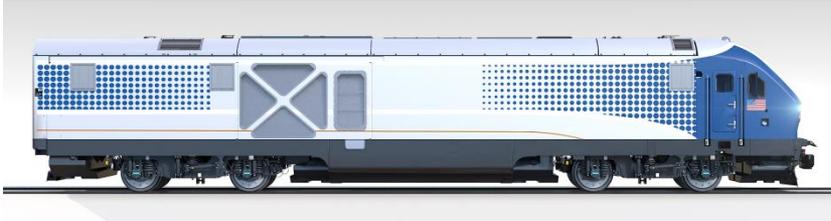
### Fast Facts

- Base contract 32 locomotives + 37 option locomotives awarded
- 11 locomotives in production, first two in final assembly
- 4 Cummins QSK 95 diesel engines delivered
- Tier IV EPA certification submitted for approval
- 60 RFC's submitted with 30 DCR's acknowledged



# The Multi State Charger Locomotive

## Country Wide Standardization



**IDOT** (*Illinois, Michigan and Missouri*)  
33 Loco's



**CALTRANS**  
20 Loco's

- One product
- 6 Customers
- 69 locomotives
- PRIIA 305 compliant
- Locally manufactured



**WSDOT**  
8 Loco's



**MARC**  
8 Loco's

# The Charger Locomotive Family

*7 Customers, 90 locomotives on order (194 Options available)*



**IDOT - Illinois, Michigan & Missouri (33)**



**Caltrans – California (20)**



**WSDOT – Washington (8)**



**MARC – Maryland (8)**



**All Aboard Florida (21)  
*Separate Procurement***

# Charger Locomotive Production

## *Carbody Structure*



Underframe



Carshell Assembly



Cab Front



Completed Carshell



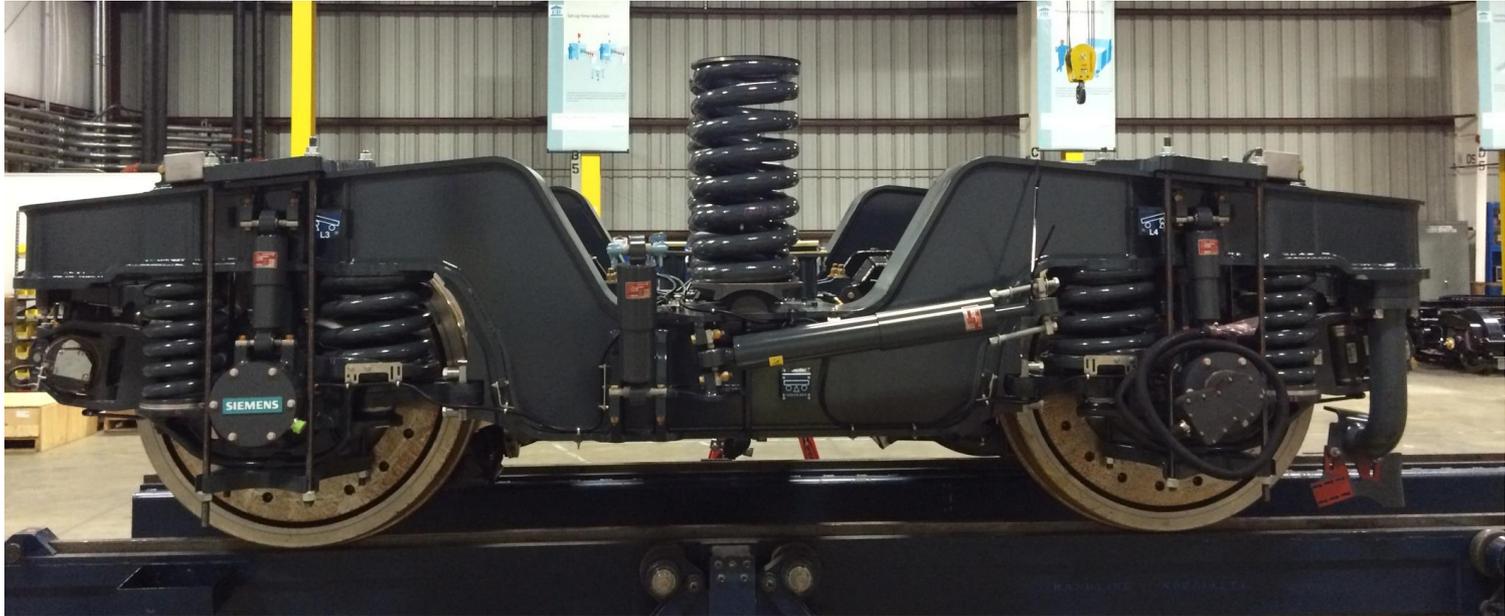
Carshell Compression Test



Carshell Final Paint

# Charger Locomotive Production

## *High Speed Trucks*



# Charger Locomotive Production

## *Diesel Engine installation*



Video of engine installation:

<http://news.usa.siemens.biz/blog/siemens-installs-first-cummins-engine-new-diesel-electric-charger-locomotive>

# Charger Locomotive Production

## *Final Assembly*



# Questions?

**Ron Pate**

WSDOT Rail Director

(360) 705-6903

PateRD@wsdot.wa.gov

**Web links:**

- Rail Division: [www.wsdot.wa.gov/rail](http://www.wsdot.wa.gov/rail)
- WSDOT High-Speed Rail Program: [www.wsdot.wa.gov/Rail/highspeedrail.htm](http://www.wsdot.wa.gov/Rail/highspeedrail.htm)
- Amtrak Cascades: [www.AmtrakCascades.com](http://www.AmtrakCascades.com)

