

WES Ridership and Fleet Requirements

TriMet Board Briefing

April 9, 2014

Service Design

- Operates between Wilsonville and BTC via Tualatin and Tigard
- 5 stations with P&Rs at 4 stations
- 14.7 miles; 27 minutes travel time one-way



Schedule Design

- Operates 30 minute headways during weekday peak commute times
- Average speed 37mph; top speed 60mph
- Operates on shared trackway with the Portland and Western Railroad
- 3 trains operate 32 weekday one-way trips
- Train is a 2-car unit and 2 trains run as single cars

Growing Ridership



Ridership

Year	Actual Average Daily Boardings	% Increase over previous year	Projected Average Daily Boardings at			Original Projection
			10% per yr	13% per yr	15% per yr	
2009	1,141					1,594
2010	1,304	14.4%				
2011	1,571	20.5%				
2012	1,700	8.2%				
2013	1,877	10.4%				
average increase		13.4%				
2014			2,064	2,121	2,158	
2015			2,271	2,396	2,482	
2016			2,498	2,708	2,854	
2017			2,748	3,060	3,282	
2018			3,022	3,458	3,775	
2019			3,325	3,907	4,341	
2020			3,657	4,415	4,992	3,037

Frequent Standees



WES Fleet Requirements



Service Standards/Fleet Requirements

- Capacity set at 95 passengers
- Originally planned 3 DMUs in 2 car consist with future acquisition of 2 units
- Ridership growth requires all 3 trains with 2 car units in 2016

Market for Commuter Rail Cars

- Extremely small market in the US
- Only one competitive procurement in the last five years, by SMART
- Only two additional procurements, both as Option Orders on SMART Contract
- SMART Order: 7 DMUs (14 cars)
- Metrolinx Option: 18 cars
- MBTA Option: 18 cars

SMART



SMART is a voter-approved commuter rail project located in Marin and Sonoma counties. It will serve a 70-mile corridor from Larkspur to Cloverdale, with a first phase from San Rafael to Santa Rosa. Opening of the first phase is scheduled for 2016.

SMART Car Procurement

- Competitive Vehicle Procurement in 2010
- Specifications very similar to WES cars
- Sumitomo/Nipponsharyo won the Contract
- Price was well below Engineers estimate and \$23 M below second lowest proposer
- Car assembly plant in Rochelle, Illinois
- First carset will be delivered this fall
- TriMet is a named option in the Contract

SMART Option Cars



SMART Option Cars



- SMART cars are very similar to WES cars
- Same dimensions and same level boarding
- Only minor changes will be required

SMART Option Cars

- TriMet needs two cars (One DMU)
- Negotiate with carbuilder and prepare contract documentations this spring
- Board review and approval/Issue Option Order this summer
- Receive cars in 2016
- Budget: \$8.5M