FTA Streetcar & Bus Circulator Roundtable

Prototype Car & Rail

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Portland Streetcar Prototype

- Prototype History
- Prototype Streetcar
- Propulsion System
- Prototype Schedule
- Where are we now?
# Streetcar Prototype History

**Background:**
- Portland Streetcar Inc. is a non-profit a company, est. in 2001 that operates a 2.7 mile rail line with cars manufactured in the Czech Republic.

**Objective:**
- To establish a domestic streetcar manufacturer to support growing streetcar market in the U.S.

**Costs:**
Portland Streetcar Prototype

Suppliers:
- Oregon Iron Works
- (United Streetcar)

Schedule
- Prototype scheduled for delivery May 2009 and evaluated for 1 year.

Industry Potential
- Up to 19 cities have commenced corridor evaluations for implementing streetcar operations that are similarly styled. Portland has cooperated with Washington, D.C. & WMATA for the purchase of three Inekon Group vehicles. (the development of streetcar systems in the U.S. continues to grow.)
Portland Streetcar Prototype
Prototype Propulsion System
Prototype Current Schedule

- Vehicle moves to test track/building: 7/20/11 COMPLETE
- High-pot and continuity wire testing: August 2011 COMPLETE
- On board static testing (no motion) September through November 2011 COMPLETE
- In motion testing on test track; December 2011, January 2012
- Move to Portland track: January 27, 2012
- Static and/dynamic testing on Portland track: 1/27/12 to 2/15/12
- Burn in: 2/15/12 to 3/5/12
- Ready for Revenue Service (est.): 3/15/12
Where Are We Now?

- Off-Wire car Study
- Advances in Battery Technology
- Onboard Energy Storage Systems
- Costs
What About Rail?

- Buy America Requirements
- Types of Rail
- National Institute of Standards & Technology
- Girder Rail Meeting
- Where are we now?
Buy America Requirements

- Sec. Lahood – 2009 mandate that all projects using American Recovery and Reinvestment Act (ARRA) funds meet Buy America requirements.

- Admin. Rogoff and FTA’s Office of Chief Council has upheld this mandate.
Preferred Rail for Streetcars

- Types of rail:
  - Tee Rail
  - Girder Rail
  - 112 TRAM block rail

- HDR studied
NIST Assistance

- Manufacturing Extension Partnership (MEP)
- Existence of Domestic Capacity
- Steel of West Virginia
- Rocky Mountain Steel
- Arcelor-Mittal Steelton
Girder Rail Meetings

- February 16
- March 16
- June 6
Where Are We Now?

- TRAM 112 Block Rail
- HDR has video at: www.youtube.com/hdrinc
- Continue to engage the industry
Questions?

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