

LRV Standard Specification RFP and Project Management

Justin Garrod

*Sound Transit, LRV Project Manager
Seattle, WA*



2011 Rail Conference

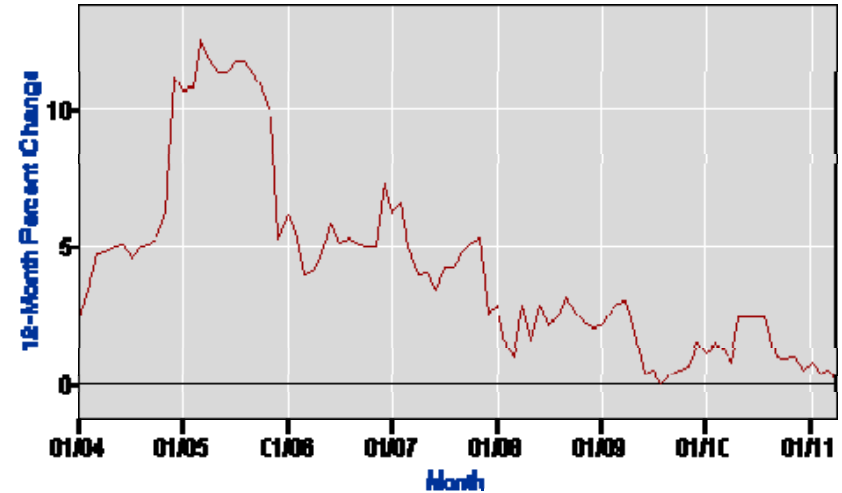
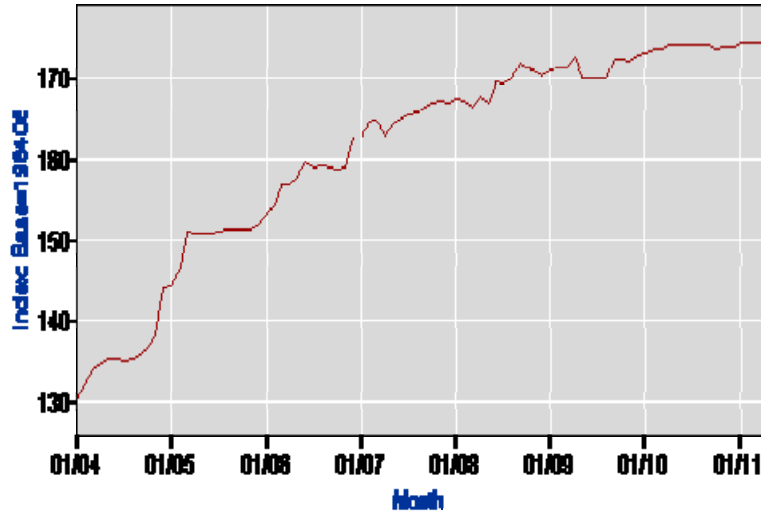
Project Management Prospective

This standard provides an agency with a great road map to develop and deliver your own Light Rail Vehicle contract.

- Roadmap for Procurement and Delivery
 - ✓ Proposal Documents - draft
 - ✓ GCs and SPs – Foundation for an Agency to review and fit for their requirements
 - Escalation Clause
 - Indemnification
 - Bonding / Letter of Credit
 - ✓ Selection Criteria Sample
 - Two systems with sample scoring and criteria
 - ✓ Sample Inspection and Acceptance forms and templates

Escalation

PCU336510336510 Rolling Stock



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2004	130.4	132.4	134.2	134.8	135.4	135.5	135.2	135.4	135.9	136.6	138.2	144.2	135.7
2005	144.4	146.7	151.1	150.8	150.9	150.9	151.2	151.4	151.3	151.3	151.4	151.8	150.3
2006	153.4	154.5	157.0	157.0	158.1	159.7	159.1	159.4	159.0	158.9	159.0	163.0	158.2
2007	163.0	164.7	164.9	163.1	164.4	165.1	165.8	166.1	166.6	167.1	167.4	167.1	165.4
2008	167.6	167.2	166.6	167.7	167.0	169.7	169.3	170.1	171.8	171.4	171.1	170.4	169.2
2009	171.2	171.4	171.4	172.8	170.2	170.2	170.1	170.1	172.4	172.3	172.2	173.0	171.4
2010	173.1	173.8	173.7	174.2	174.2	174.2	174.1	174.1	174.1	173.8	173.9	173.9	173.9
2011	174.5(P)	174.4(P)	174.6(P)	174.6(P)									

P : Preliminary. All indexes are subject to revision four months after original publication.

Project Management Prospective

Consistency across the industry

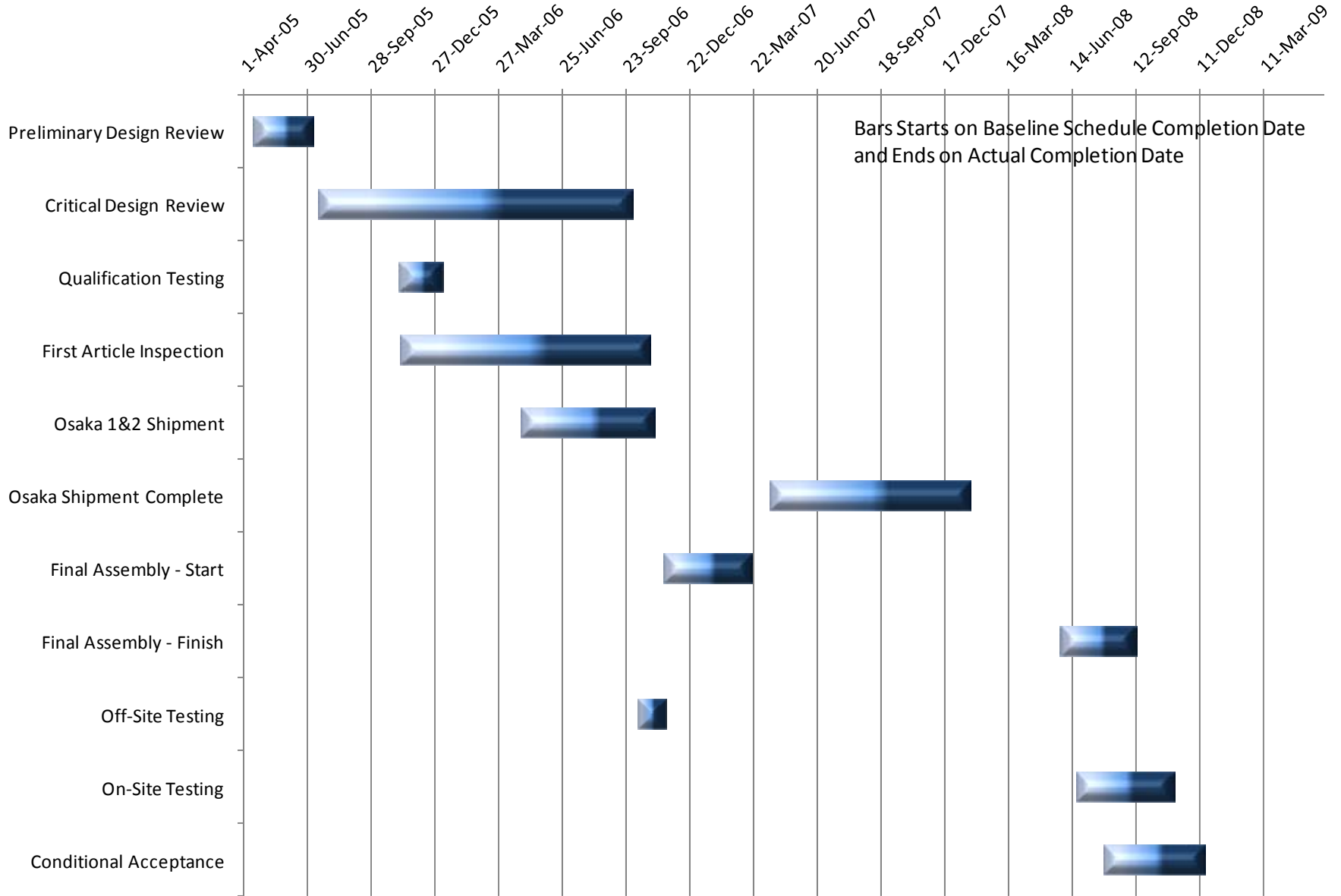
- ✓ Standardization will lead to generally accepted vehicles such that we will reduce the cost associated with design verification and qualification testing
 - Agencies spend millions of dollars on Engineering and Testing of the Vehicle
 - Car Builder
 - Design Consultant

- ✓ Standardization may provide faster delivery timeline
 - First Vehicle Delivered 24 months
 - No reason this couldn't be shortened if we eliminate the design and qualification testing required with a new vehicle design.

Project Management Prospective

- Issues that I dealt with on the Sound Transit Procurement:
 - ✓ Timeline to complete Final Design
 - ✓ FAI and Qualification Testing
 - ✓ Off-site Testing (TTCI)
 - ✓ On-site Testing & Verification
 - ✓ Safety Certification
 - ✓ Warranty
 - ✓ Hidden Language in the documents

LRV Program Delay



Standard Light Rail Vehicle RFP and Project Management

Thank You!
Questions?