

# Capital MetroRail

Rail Startup Board Update

September 28, 2009



### **Progress Since Last Update**

- Communication System improvements
  - Completed Design of New Primary Communication System (Radio System)
- Train Detection System Relocation
  - Completed
- Hazard Analysis / Risk Assessment
  - Completed Analysis Process with full FRA Participation





## Hazard Analysis / Risk Assessment

- Identified Potential Risks in the System
- Team defined solutions to the risk issues
  - Developed mitigation strategies
- Solutions for addressing issues were agreed upon
- Consensus that analysis was comprehensive
- Two Primary Categories of Issues:
  - 1. Issues requiring programming
    - changes to the 30 Centralized Traffic Control devices
  - 2. Issues requiring new / revised operating procedures





#### Hazard Analysis / Risk Assessment

- 1. Issues requiring programming modifications
  - Reduce opportunities for human error through changes in the vital logic of the Centralized Traffic Control System
  - Other programming changes in parallel to address other field issues
- 2. Issues requiring operating procedure modifications
  - Clarifying procedures for
    - Emergency situations
    - Worker protection
    - Signal operations
- Improve "Gate Down Time" at Lamar, Braker, Kramer intersections
- Comprehensive Functional Specification / System Integration Document





#### Work Remaining

- Complete Programming modifications
- Review Programming modifications
- Complete Operating procedure modifications
- Complete "Gate Down Time" operation improvements
- Final Validation and testing of the modified system
- Install New Primary Communication System (Radio System)
- Complete Comprehensive Functional Specification / System Integration
- Contact FRA within 30 days of opening





## **Estimate for Work Remaining**

Programming Changes, Review and Procedures:

 Expected to be complete before January

Remaining Tasks

 Expected to be complete in 1<sup>st</sup> quarter of 2010

Estimated Cost of Modifications

\$750,000 - \$1,000,000



