

2016

FRA Rail Program Delivery Meeting

PRIIA

Locomotives

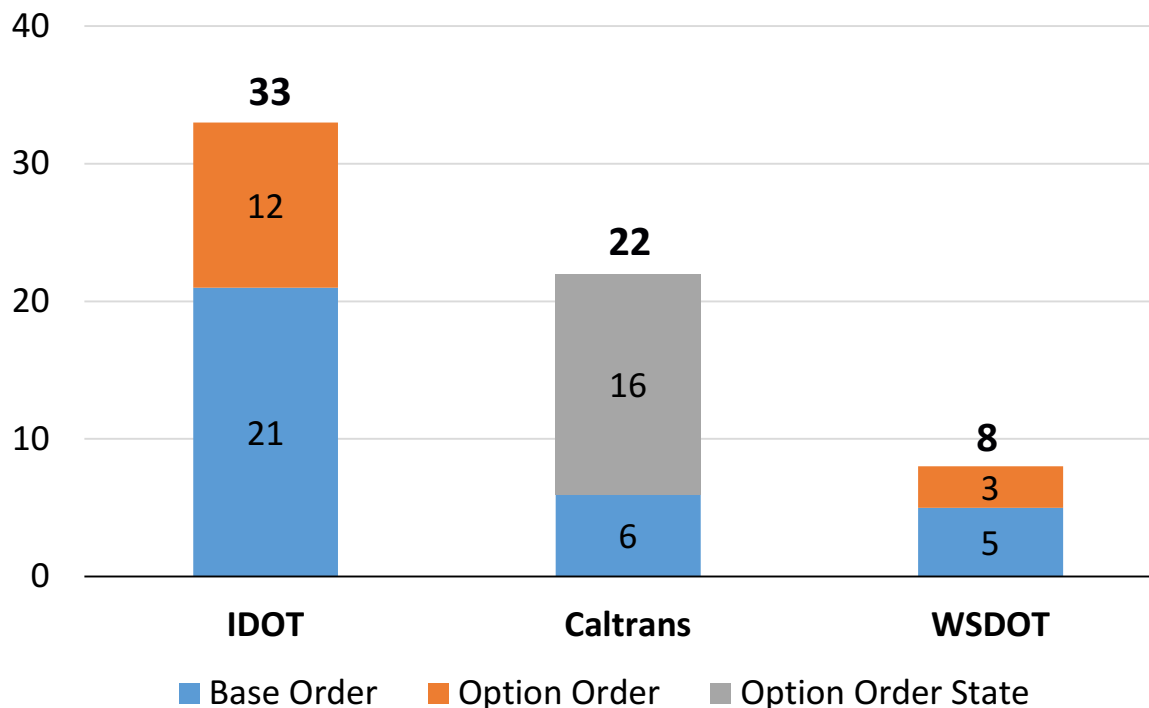
Catherine Dobbs, Central
Team Lead

Charger Locomotives

- ▶ Developed based on standardized equipment specifications from the PRIIA 305 Next Generation Equipment Committee (NGEC)
- ▶ Manufactured by Siemens USA, in Sacramento, California
- ▶ Federal funding supporting locomotive procurement from several different FRA awards

Locomotives by the Numbers

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63 new Charger locomotives, of which 47 are FRA funded

Key Players

- ▶ Siemens, Manufacturer
- ▶ JPEs: Administer Siemens contract and change orders, execute appropriate agreements with Amtrak for testing, lease/maintenance and operation
- ▶ Amtrak: Execute applicable agreements, operate locomotives through revenue testing into service
- ▶ FRA Safety Office: participate in technical review meetings, approve testing plans
- ▶ FRA Program Delivery Office: coordinate activities under Grant awards, oversee Grant timelines and outcomes

Production Timeline

- ▶ NTP: March 13, 2014
- ▶ Design: April 22, 2014 to October 1, 2015
- ▶ FAls: January 23, 2015 to June 13, 2016
- ▶ Pilots built: May 2015 to June 2016
- ▶ TTCI Burn-in
Testing: Fall 2016- Spring 2017
- ▶ Production: May 2015 to September 2017

Under Construction



Regulatory Testing: Focus on Safety

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- ▶ **Sec. 238.111 corridor testing:**
 - ▶ To occur in states once locomotives delivered
 - ▶ Will occur in WA, CA and IL
- ▶ **Qualification/Commissioning/Burn-in**
 - ▶ Locomotives undergo 500-mile burn-in test
 - ▶ Established individual units working as intended
 - ▶ Performed at TTCI in Pueblo
- ▶ **Testing on the NEC:**
 - ▶ High Speed Stability
 - ▶ Incremental high speed qualification 49 CFR 213.345 to 130 mph
 - ▶ Ride Quality
 - ▶ Cant Deficiency
 - ▶ Speed Upgrade
 - ▶ Representative Segment
 - ▶ Track Forces
 - ▶ MCAT Validation



TTCI Testing: Ready to Roll

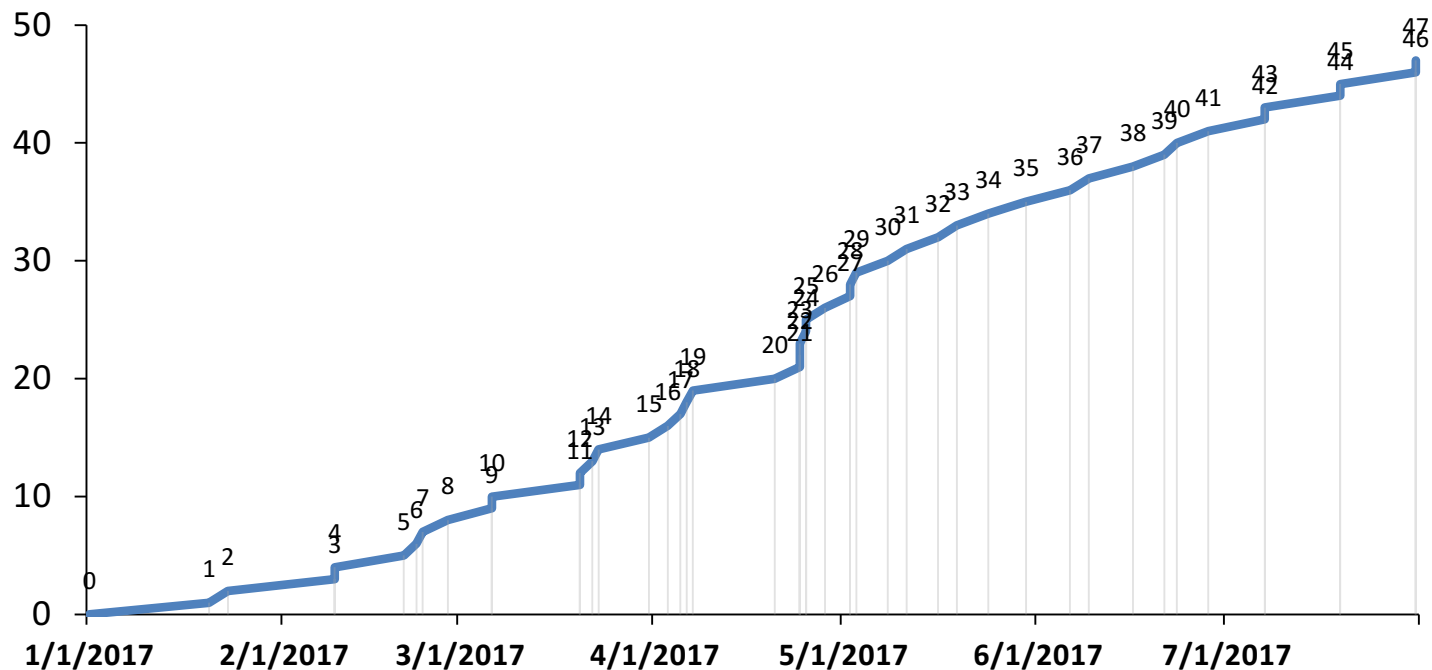
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- All parties agreed to perform 500 mile burn-in testing at TTCI in Pueblo
- Upon completion, locomotives shipped from Siemens to Pueblo
- Once testing complete, locomotives shipped to destination state for Sec. 238.111 corridor testing
- First locomotive to be delivered for Corridor testing Nov. 30

Delivery Timeline

Production Rollout – Deliveries to Grantees



State of the Art Design: Cab

10



State of the Art Design: Cab



State of the Art Design: Exterior



Made in the USA

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- **Compliant with EPA Tier 4 Emission Standards**
- **100% Buy America compliant**

- **Meets Next Gen Performance Requirements**
- **Promotes Industry Standardization**



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Thank you!

Catherine Dobbs

Central Team Lead, Program Implementation Division

Catherine.dobbs@dot.gov

202-407-3140

www.fra.dot.gov