

# *Third Update on the Implementation of the 2005/ARB Railroad Statewide Agreement*



**January 25, 2007**

**California Environmental Protection Agency**

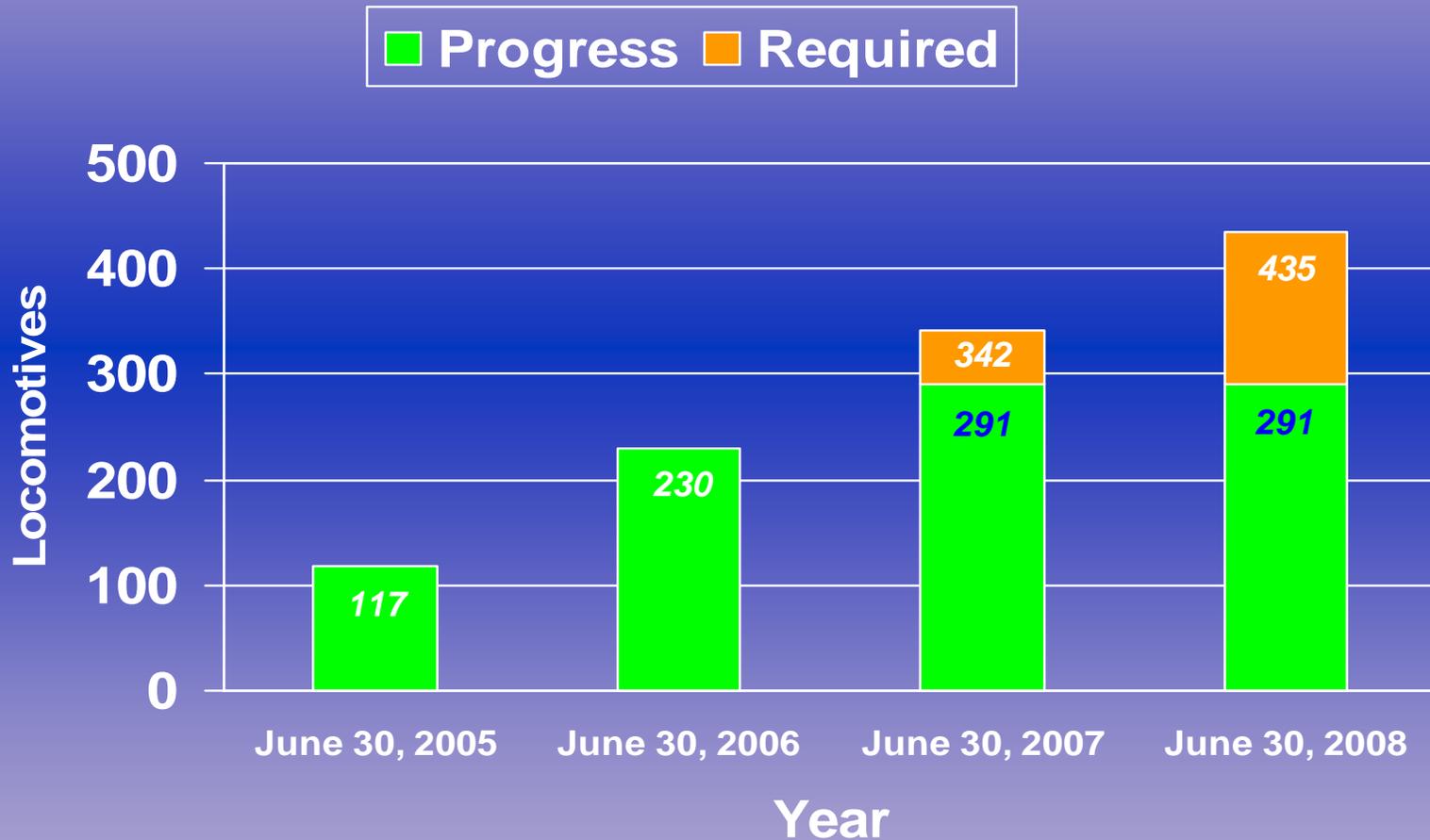
 **Air Resources Board**

# What this Progress Report Covers

- Installations of idle reduction devices
- Use of low sulfur diesel fuel
- Compliance rate for smoking locomotives
- Status of health risk assessments
- Status of locomotive remote sensing pilot program
- Status of technology assessments
- Fall railyard inspection results

# Idle Reduction Devices Installed on Intrastate Locomotives

(UP and BNSF – Progress as of January 2007)



# California is Ahead of the Nation on Intrastate Locomotive Idle Reduction Device Retrofits

California: 66%

National: 31%

**THE LOWDOWN ON THE SHUTDOWN.**

BUILDING AMERICA



**Shutting Down Idling Locomotives Benefits Everyone.**

Far more than just a cost-saving initiative, shutting down locomotives reduces diesel emissions and benefits our environment, our communities, your family — and YOU! Air pollution is a public health concern, and the noise caused by idling locomotives can irritate community members. Sometimes locomotives are kept idling due to a variety of myths. You've probably heard most of them: *It won't restart. The train will be late. It takes too long. We'll lose our air conditioning. It's not my responsibility.*

Forget the myths. Shutting down idling locomotives is everyone's responsibility, regardless of craft. Help out the environment and be a good neighbor — shut it down!



# CARB and USEPA Low Sulfur Diesel Fuels

- CARB diesel for intrastate locomotives by 1/1/2007:  
Complying
- Minimum of 80 percent CARB or USEPA low sulfur (15 ppm) diesel fuel dispensed into interstate locomotives by 1/1/2007:  
Complying



# **Railroad Employee Training (2006)**

## **Idle Reduction**

- **About 3,400 employees trained from July-December 2006.**
- **About 7,700 employees were trained in 2006.**

## **Visible Emissions**

- **Over 8,200 employees trained from July-December 2006.**
- **About 10,200 employees were trained in 2006.**

# Visible Emission Inspections by Railroads

- Over 13,800 visible emission inspections from July-December 2006.
- About 22,200 visible emission inspections for 2006.
- 2006 compliance rate = 99%

# Health Risk Assessments (HRAs) Guidelines

- Released draft guidelines in July 2006
- Two public workshops in August 2006
  - Northern California
  - Southern California
- Issued guidelines in September 2006

# Health Risk Assessments (HRAs) Schedule

- **Original accelerated schedule:**
  - December 31, 2006 – 9 yards
  - December 31, 2007 – 7 yards
- **Delayed more than two months to revise railyard emission inventories and air dispersion models with latest ARB emission factors**
- **New schedule for draft HRAs:**
  - March 2007 for 9 yards
  - December 2007 for remaining 7 yards

# **Locomotive Remote Sensing Pilot Program (AB 1222 – Jones)**

- **AB 1222 requires locomotive remote sensing pilot program**
- **Established Advisory Committee:**
  - **South Coast and Sacramento air districts**
  - **UP and BNSF**
  - **Environmental representatives**
  - **16 meetings**
- **Report to Legislature was due  
December 31, 2006**

# **Locomotive Remote Sensing Pilot Program (AB 1222 – Jones)**

- **Advisory committee deliberations took more time than expected**
- **Three phases of testing – Spring 2007**
  - **Phase 1: Equipment modifications and calibration**
  - **Phase 2: Field testing (Northern and Southern California)**
  - **Phase 3: Correlation with EPA Part 92**
- **Report to Legislature Summer 2007**

# Technology Assessments

- Hood project tested at UP Roseville
  - August-September 2006
- Diesel oxidation catalyst retrofit to 1992 line haul locomotive
  - November 2006 (assigned to Los Angeles)
- Diesel particulate filter retrofits on two older switch locomotives
  - December 2006 (assigned to UP Oakland and BNSF LA)



# Technology Symposiums

## ➤ Symposiums

- April 25, 2006 – ARB El Monte
- July 13, 2006 – Cal/EPA Sacramento
- December 2006 – Summary Report

## ➤ Next Symposiums

- May 2007
- August 2007

# OTHER ACTIVITIES



# ARB Enforcement Activities (July-December 2006)

- Trained 25 additional air district inspectors
- Conducted inspections at 31 railyards
- Observed nearly 700 locomotives
- Issued 9 NOVs for 98% compliance rate



# Community Complaint Process and Status

- Union Pacific Railroad - 1.888.877.7267
- BNSF Railway - 1.800.832.5452
- Since July 2006 BNSF and UP have received about 25 calls per month. By comparison they received about 36 calls per month the first six months of 2006.
- Both railroads are continuing to track and improve how calls are processed.

# Summary

- **Implementation on schedule**
  - Idle reduction, Diesel fuel, Smoking locomotives
- **Lower emitting locomotives entering service in California**
- **Health risk assessments for first nine railyards will be released and community meetings this Spring**
- **Inspections will be held in the Spring**
- **Locomotive remote sensing pilot program report to the Legislature by this summer**
- **Update in six months**