

# Roseville Yard Assessment

Placer County APCD Briefing

October 14, 2004

**BUILDING AMERICA**\*\*



### Union Pacific Railroad





#### **Fast Facts**

• Revenue \$11.6 B

Miles of Track 33,000 in

23 States

• **Employees** 48,000

Annual Payroll \$3.3 B

• Customers 25,000

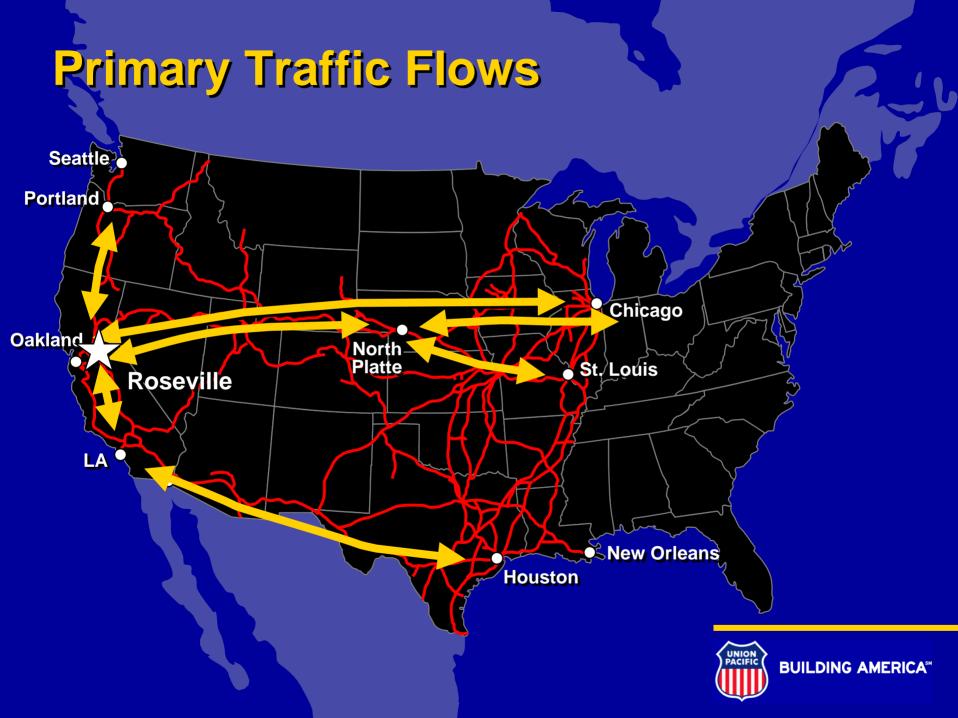
• Locomotives 7,000

• Freight Cars 87,000

Capital Spending \$2 B







### **Good Corporate Citizen**

- Union Pacific Is the 5th Largest Employer in Placer County
- 1,262 Employees, \$97.9M Annual Payroll in Roseville / Sacramento Area
- UP Procures Many Products and Services in the Area to Support Its Operations
- Roseville Employees Are Active & Involved in the Communities in Which They Live
- UP Is Committed to Protecting the Health of Our Employees & Neighbors

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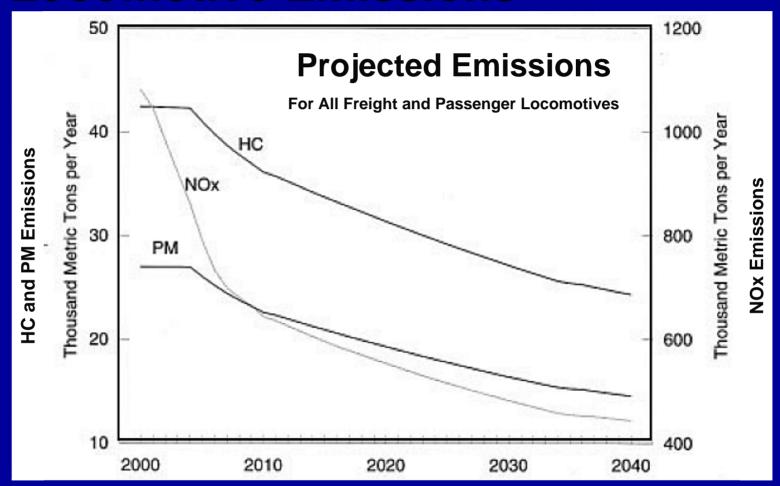
### Rail vs. Truck Advantage

Inherent Efficiency of Rail





# Existing Law Requires Big Reductions in Locomotive Emissions



# **Key Concerns with the ARB report**

- Union Pacific is committed to protecting the environment for our employees, customers and neighbors and has cooperated fully with ARB and Placer County APCD to complete this study
- However, the ARB analysis used very conservative assumptions that results in an unrealistic estimation of the risk to Roseville neighbors

# **Key Concerns with the ARB report**

#### The study:

- Reflects conditions in CY 2000; reductions of 15% have been achieved since that time
- Based on maximum risk estimates that assume emissions at the Yard would stay constant for 70 years
- Assumes that someone would stay outdoors near the yard 24 hours per day, 350 days per year, for 70 years
- Contains uncertainties related to the computer modeling
- Ignores US EPA conclusion that estimates of cancer risk from diesel emissions are too uncertain to quantify



ARB predictions still show air concentrations of diesel exhaust outside the Yard that are similar to those found near freeways and other large transit facilities



# What Is UP Doing to Reduce Diesel Emissions From Our Operations?

- Since January 2000, Union Pacific has purchased more than 1,900 new fuel-efficient locomotives
- Over 1,800 UP locomotives are currently equipped with auto start-stop devices to limit idling
- Since 1989, UP has invested more than \$37M in locomotive research and development



# What Is UP Doing to Reduce Diesel Emissions From Our Operations?

- About 45% of all emissions at Roseville are from idling locomotives
- Cooperative project with SMAQMD has retrofitted 21 low-horsepower units with SmartStart® idle control devices
- UP continues to stress the critical importance of reducing locomotive idling time
  - Less idling means less emissions!



# What Is UP Doing to Reduce Diesel Emissions From Our Operations?

- Moving more cars with fewer locomotives
- Using about 10% fewer low horsepower units
- Purchasing more CARB diesel fuel
- Developing technology for Truck Engine Switcher
- Modeling is being used to identify reductions that will have the biggest impact

Each of these steps reduces emissions



## Mitigation Plan

- Reduce emissions by an additional 10% over three years, for a total of 25% since 2000
- Evaluate specific mitigation measures, and present results to the public in April 2005
- Grant at least \$50,000 each year during 2005, 2006 and 2007, to achieve immediate PM reductions in the Roseville area

### **Monitoring Plan**

- Grant access to UP property for a diesel exhaust monitoring program
- Provide technical assistance the design and implementation of the monitoring program
- Provide at least \$100,000 financial assistance for the design and implementation of the monitoring program



#### THE ROAD TO THE FUTURE ISN'T A ROAD AT ALL.

