

# **BNSF Stockton Yard Emissions**

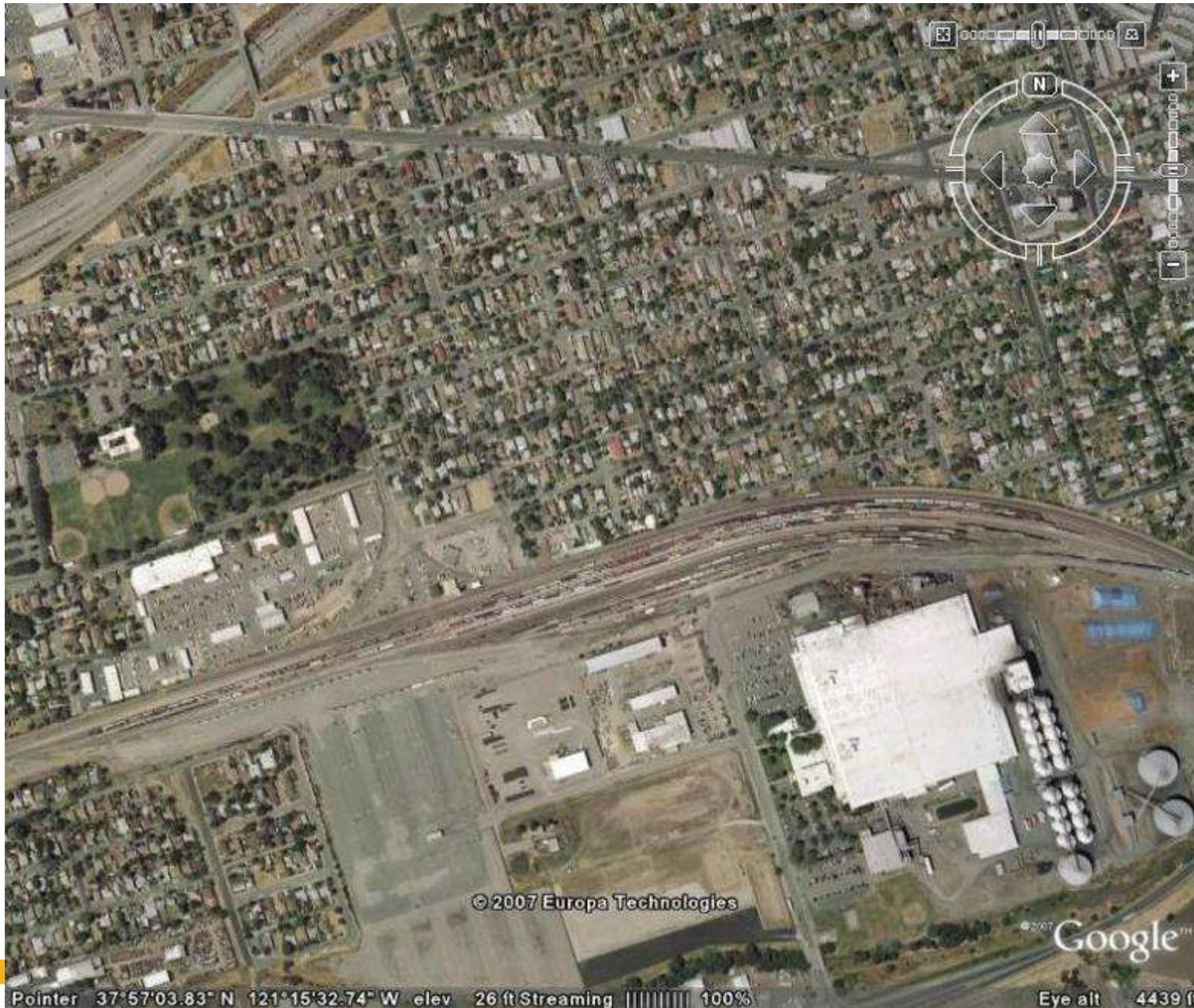
**Mike Stanfill**  
**Stockton, California**  
**June 5, 2007**

# **Risk Assessment, OEHHA**

## **A Guide To Risk Management**

**Risk managers are responsible for protecting human health, but they must also consider public acceptance as well as technological, economic, social and political factors when arriving at their decisions.**

# BNSF Stockton Area Railyard



# Stockton Information

## Stockton

### 35 Acres

- **Primarily Classification (Switching) yard**
  - 25-30 trains on a busy day
  - 6-8 switch locomotives typically in use for switching the yard and local industry
- **Some fueling operations**

# Emissions

## 2005 Emissions

**3.24 Diesel Particulate Matter in metric tons per year**

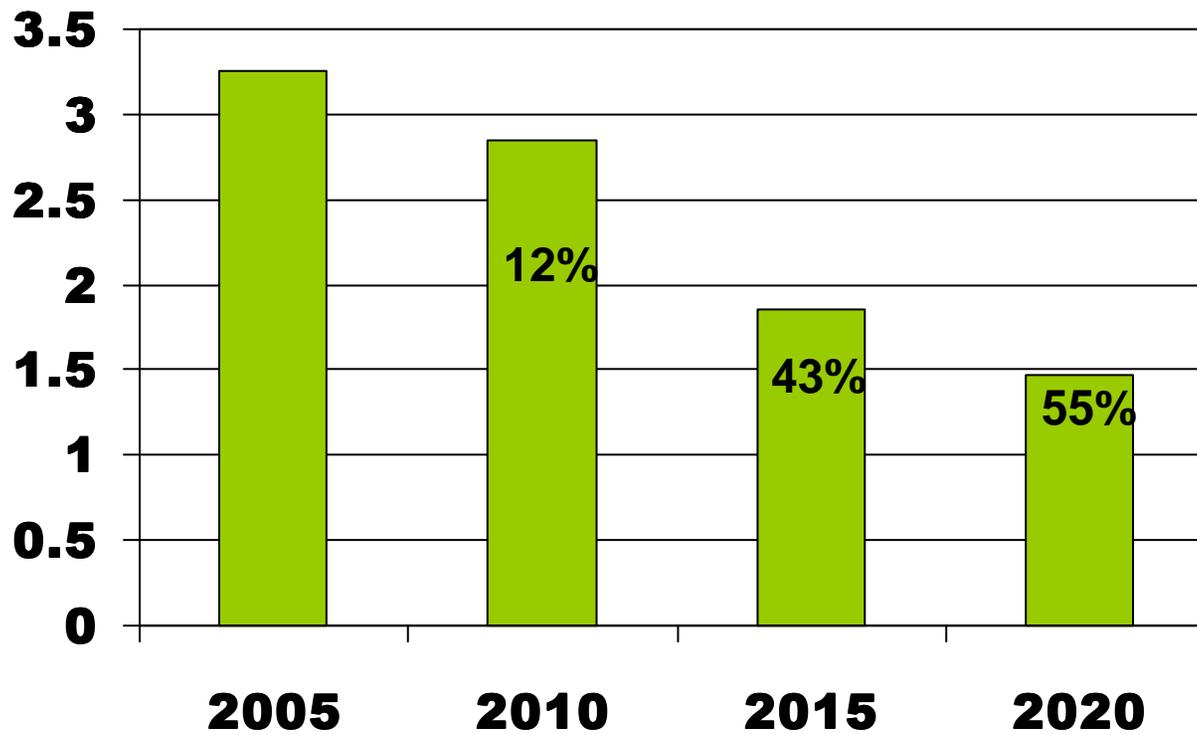
- **Linehaul locomotives** (Arriving & Departing trains) **48%**
- **Switch Engines** **43%**
- **Adjacent foreign and commuter** **7%**
- **Other (off road, basic services)** **2%**

# Emission Reductions

- Use of 15 ppm sulfur fuel for purchases in California
- 30% reduction in switch engine idling due to 2005 MOU
- Reduced idling from current locomotives with idle control devices
- Compliance with USEPA proposed rules for locomotive emissions
- Compliance with the 1998 MOU for nitrogen oxides
- Compliance with CARB rules for refrigerated units
- Compliance with CARB rules for off-road equipment

# BNSF Stockton Yards, emission reductions

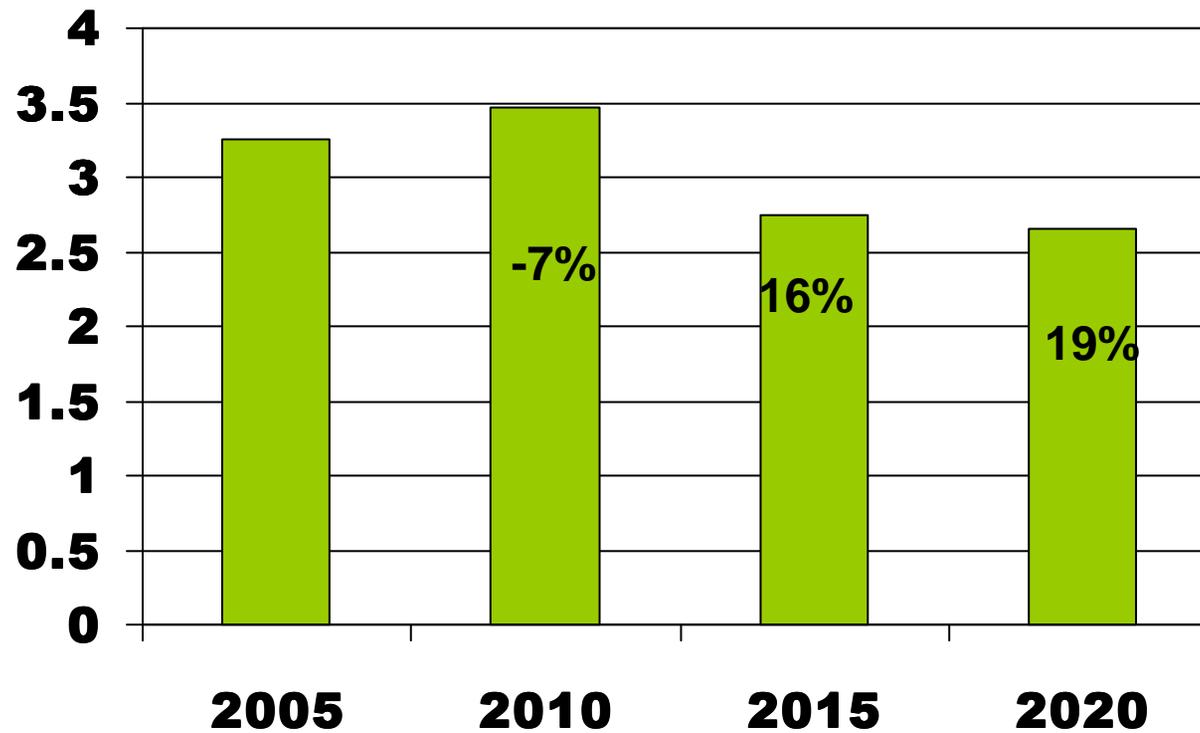
Diesel Particulate Matter in metric tons per year



Predicted reductions with 0% annual growth in activity

# BNSF Stockton Yards, emission reductions

Diesel Particulate Matter in metric tons per year



Predicted reductions with 4% annual growth in activity

# Summary

- **The railroads recognize there are serious air quality concerns, both for ozone and for particulate matter in Southern California.**
- **People living adjacent to rail yards are exposed to similar risks as those faced by persons living adjacent to freeways and other major transportation facilities.**
- **Diesel emissions from rail yards are going down, 19% reductions are projected from 2005 to 2020 even after a 4% annual activity growth rate.**