



Air Resources Board



Linda S. Adams
Secretary for

Environmental Protection

Mary D. Nichols, Chairman

1001 I Street • P.O. Box 2815
Sacramento, California 95812 • www.arb.ca.gov

Arnold Schwarzenegger
Governor

May 12, 2009

Interested Community Members and Stakeholders:

As part of its efforts to promote a comprehensive railyard emissions reduction program, the Air Resources Board (ARB) staff, in cooperation with representatives from BNSF Railways (BNSF), Union Pacific Railroad (UP), and the U.S. Environmental Protection Agency (U.S. EPA), will conduct a Statewide Railroad Agreement Technology Symposium.

The date, time and location are provided below:

Wednesday, June 10, 2009
8:30 a.m. – 4:45 p.m.
California Environmental Protection Agency
Headquarters Building
1001 I Street
Sacramento, California 95814
Bryon Sher Auditorium, 2nd Floor

The proposed agenda is attached for your information. The focus of the Technical Symposium will be to discuss locomotive exhaust aftertreatment retrofit technologies as well as other technologies in development.

The Symposium will be webcast. You may access the webcast at:
<http://www.calepa.ca.gov/Broadcast/>.

You may participate by teleconference by dialing (888) 989-7484 and giving the participant code: 3788372 and leader name: Harold Holmes. We will also accept comments and questions sent via email to auditorium@calepa.ca.gov.

In addition, teleconference capabilities will also be provided for international participants (Calls made outside of Canada and the United States). You may participate by teleconference by dialing (1) (203) 986-6884 and giving the participant code: 3788372 and leader name: Harold Holmes. We will also accept comments and questions sent via email to auditorium@calepa.ca.gov.

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption
For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

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If you require special accommodations or language needs, please contact Sue Wyman, Air Pollution Specialist, Control Strategies Section at (916) 322-8260 or swyman@arb.ca.gov as soon as possible, but no later than 10 business days before the scheduled event/meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service."

If you have any questions about the Symposium, please call Mr. Harold Holmes, Manager, Engineering Evaluation Section, at (916) 324-8029 or email: hholmes@arb.ca.gov.

Sincerely,



Robert D. Fletcher, Chief
Stationary Source Division

Attachment

cc: Harold Holmes, Manager
Engineering Evaluation Section

Statewide Railyard Agreement
Technology Symposium
AGENDA
Public Meeting to Discuss

Status of Locomotive Aftertreatment Design, Research, and Demonstrations

Location:

Cal/EPA Headquarters Building
Byron Sher Auditorium – 2nd Floor

1001 I Street,
Sacramento, California 95814

Date: June 10, 2009

Time: 8:30 am – 4:45 pm

Teleconference:

Dial-In #: (888) 989-7484

Dial-In # for International Calls:

(1) (203) 986-6884

Participant Code: 3788372

Leader Name: Harold Holmes

Email: auditorium@calepa.ca.gov

Webcast: <http://www.calepa.ca.gov/broadcast>

8:30 am – 8:45 am

Introductions and Background

Dean Simeroth

Chief, Stationary Source Division
California Air Resources Board

8:45 am – 9:45 am

Panel discussion on U.S. EPA's 2008 Locomotive Rulemaking

Don Kopinski

Pete Lawson

Dave Brann

- **Status of Locomotive Remanufacturing Kits**
- **Locomotive Development: Status of Meeting New Tier 3 and Tier 4 Standards**
- **What it Takes to Bring a New Technology to Market**

9:45 am – 10:45 am

ARB Preliminary Draft Technical Options to Achieve Additional Emissions and Risk Reductions from California Locomotives and Railyards

Harold Holmes

Manager, Engineering Evaluation Section
California Air Resources Board

10:45 am – 11:00 am

Break

11:00 am – 11:15 am

UP and BNSF Opening Perspectives – EPA 2008 Locomotive rulemaking; one year later

11:15am – 12:00pm

Update/Summary of Locomotive Aftertreatment Retrofits on Older Existing Freight Line Haul and Switch Locomotives & Design Concepts for Newer Freight Line Haul and Switch Locomotives

- **Diesel Oxidation Catalysts on Freight Line Haul Locomotives**
- **Diesel Particulate Filters on Conventional Switch Locomotives**
- **Design Concept for Diesel Particulate Filters Retrofit onto Gen-Set Switch Locomotives**

Steve Fritz
Manager, Medium Speed Diesel Engines
Department of Engine Design and Development
Engine, Emissions, and Vehicle Research Division
Southwest Research Institute

12:00- 1:00 Lunch Break

**1:00 pm-2:00 pm South Coast Air Quality Management District
Locomotive Projects**

- **Metrolink Retrofit of DPF and SCR onto an Existing Head End Power Engine**
- **Metrolink SCR Retrofit onto a Passenger Locomotive**
- **PHL Retrofit of DPF onto a Newer Switch Locomotive**

Mike Bogdanoff
Manager, Technology Advancement
South Coast Air Quality Management District

2:00 pm – 3:00 pm Panel Discussion on How Technology is Proven Suitable and Durable

David Brann
Don Kopinski
Pete Lawson
Harold Holmes
UP/BNSF

- **Field testing/when is it market ready?**
- **EPA Certification Levels**
- **CARB Certification Levels**

3:00 pm – 4:00 pm Panel Discussion on Retrofits: Lessons Learned in the Field

Mike Bogdanoff
Chris Weaver
UP (Iden)
BNSF (Stehly/Seep)
Harold Holmes

4:00 pm – 4:15 pm UPRR Comments On Future Locomotive Aftertreatment

Lanny Schmid
Director, Environmental Operations
Union Pacific Railroad

4:15pm – 4:30 pm BNSF Comments On Future Locomotive Aftertreatment

Dave Seep
Director, Environmental Engineering and Program Development
BNSF Railway

4:30 pm – 4:45 pm Closing Remarks

Dean Simeroth
Chief, Stationary Source Division
California Air Resources Board

Notes: Time assumed for each presenter:

- 30 minutes for presentation; 15 minutes for question and answer; 15 minutes for break