UP Tests Emissions-Reducing Locomotive in Roseville

Union Pacific Railroad is testing new technology designed to reduce diesel emissions from freight locomotives in California. UP 9900, one of 25 locomotives in the experimental series, was unveiled in August at the J.R. Davis Yard in Roseville. This locomotive will test three emissions-reducing technologies including exhaust gas recirculation, diesel oxidation catalysts and diesel particulate filters.

“This new technology funded by the California Air Resources Board’s AB 118 funds, and coordinated by the District, produces a reduction of over 80 percent in PM emissions,” said Larry Greene, executive director of the Sacramento Metropolitan Air Quality Management District. Union Pacific and CARB will jointly analyze the emissions reductions capability of UP 9900 over the next 18 months.

The District is proud of its ongoing and successful partnership with Union Pacific. This public/private partnership has produced, over the last five years, emissions reductions of over 200 tons per year of NOx; over 13 tons per year of PM10; and over 13 tons per year of ROG.
The District is proud to support agencies in our region that offer transportation choices. Here are a few resources for you to consider for either your business or personal life:

**511 Sacramento Region Travel Information**
Visit www.sacregion511.org or dial 511 to get information about all modes of travel, traffic conditions for commuters, bus and light rail information for more than 20 transit agencies, paratransit services for the elderly and disabled, ridesharing and commuting by bike information. 511 serves Sacramento, El Dorado, Placer, Sutter, Yolo and Yuba counties, and can also link to the Bay Area, Nevada and Oregon.

**Transportation Management Associations (TMAs)**
A TMA is a dues-paying membership group consisting of employers, developers, property managers and local government officials that work with employers in a defined area to solve local transportation needs.

**Transportation Choices at Your Fingertips**

**NO TIME TO RELAX**

Over the summer in Sacramento, EPA held one of two national hearings on its proposed new national PM2.5 standard. Anyone living in the Central Valley is familiar with particulate pollution. Parts of California (San Joaquin Valley and Southern California) have the highest levels of particulates in the nation, and those of us who travel are familiar with the visual impacts of that pollution.

Like the San Joaquin Valley and Southern California, communities in Northern California are impacted by particulate pollution. Sacramento County is one of those communities. We are all familiar with high asthma rates, wood smoke pollution in the wintertime and wildfire smoke during the summer.

However, our many efforts to reduce PM2.5 pollution have put us on a positive path with a good story line. Our programs and rules to reduce diesel emissions and to reduce wood smoke in the wintertime have helped us to come in just under the standard in our latest analysis. We are preparing to submit an attainment document demonstrating that our current rules have helped us meet the standard, and our continued work will keep us within the standard in the coming years.

This “attainment demonstration” relies heavily on the results of our current programs, such as Check Before You Burn and the Wood Stove & Fireplace Change Out Program. Failure to stay on track means we would again be designated non-attainment and additional rules to reduce emissions would have to be developed.

We need to continue working hard to reduce wood smoke and maintain our success. Our residents benefit from improving air quality and our businesses benefit from not having new rules implemented.
2nd Quarter 2012
(April, May, June)

The following information reports the number of days that state and federal air quality standards were exceeded in Sacramento County during second quarter 2012 compared to second quarter 2011:

<table>
<thead>
<tr>
<th>NUMBER OF EXCEEDANCES*</th>
<th>2012</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone – State</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ozone – Federal (8-hr.)</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Carbon Monoxide (CO) – Federal (1-hr)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Carbon Monoxide (CO) – Federal (8-hr)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM10 (24-hour) – State</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>PM10 (24-hour) – Federal</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PM2.5 (24-hour) – Federal</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Preliminary data, subject to revision or deletion.

Asbestos (AMENDMENTS TO RULE 902)
Clariﬁes the rule’s intent with more precise language, establishes more speciﬁc sampling provisions to avoid ambiguity and reduces repetition. The proposed changes will make it easier for owners, operators, consultants and contractors to interpret the requirements for demolition and renovation of facilities that contain asbestos. Public workshop tentatively scheduled for October 2012. Contact: Joe Carle, (916) 874-4838.

Bicycle Parking on the Rise
The District is proud to celebrate the ﬁrst milestone of its bicycle parking program by recognizing the program’s success in the city of Sacramento. Earlier this year the District provided the city with approximately $85,000 to supplement its existing bicycle parking program. The funds have been used to purchase bicycle racks, which are locally fabricated and installed by city employees. Racks have been installed in more than 75 locations citywide with more to come. Look for more bicycle parking installations as the District expands its program to include other local cities, jurisdictions and park districts. For more information, contact Joseph Hurley at jhurley@airquality.org.

Compliance Corner
Boiler Permit, Emission and Tune Up Requirements

Many facilities see an increase in the usage of boilers during the fall and winter months to meet space heating and other demands. If you are using boilers at your facility, it is important to understand all of the SMAQMD rules affecting the use of such equipment. Pursuant to SMAQMD Rule 201, General Permit Requirements, a SMAQMD permit is required for any boiler individually rated at one million Btu/hour or greater or when the combined Btu ratings of multiple boilers serving the same process totals one million Btu/hour or greater.

In addition, SMAQMD Rule 411, NOX From Boilers, Process Heaters, and Steam Generators, contains speciﬁc maintenance, emission, and testing requirements for all existing boilers, regardless of use type (space heating, hot water heaters, steam generators, industrial process, etc.). Facilities considering the installation of new boilers must also meet the more stringent Best Available Control Technology (BACT) emission requirements pursuant to recent changes to SMAQMD Rule 202, New Source Review.

If you have boilers already permitted by the SMAQMD that were not subject to a more stringent BACT emission limit, the following emission limits apply to gaseous fuel fired boilers pursuant to Rule 411:

<table>
<thead>
<tr>
<th>Boiler rating, mmBtu/hour input</th>
<th>NOx limit, ppmvd @ 3% O&lt;sub&gt;2&lt;/sub&gt;</th>
<th>CO limit, ppmvd @ 3% O&lt;sub&gt;2&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than or equal to 1 and less than 5</td>
<td>30</td>
<td>400</td>
</tr>
<tr>
<td>Greater than or equal to 5 and less than or equal to 20</td>
<td>15</td>
<td>400</td>
</tr>
<tr>
<td>Greater than 20</td>
<td>9</td>
<td>400</td>
</tr>
</tbody>
</table>

If you have a boiler that is exempt from the above emission requirements due to low fuel usage, an annual tune-up of the boiler by a qualiﬁed technician is required by Rule 411. In addition, there are special source testing requirements for larger boilers. Any unit with a rated heat capacity of 20 million Btu per hour or greater must be tested once every calendar year. Any unit with a rated heat capacity greater than or equal to 5 million Btu per hour, but less than 20 million Btu per hour, must be tested once every second calendar year.

If you have a SMAQMD permit for your boilers, you are advised to review your permit conditions regularly to ensure continued compliance with all conditions. Any facility failing to comply with permit conditions or rule requirements is subject to penalties pursuant to California Health and Safety Code Section 42402.

If you have any questions concerning boiler rules or any other air quality requirement, you may contact the SMAQMD’s Compliance Assistance Hotline at (916) 874-4884 for free, conﬁdential assistance.
Fall is here and so is fine particle pollution. The 6th season of Check Before You Burn starts November 1 and ends February 28, 2013. Wood burning causes almost 50 percent of our wintertime pollution, as opposed to vehicle emissions that cause summer pollution.

No Burn Days will be declared by the Sacramento Metropolitan Air Quality Management District when fine particle pollution, also known as PM2.5, is forecast to be elevated. If weather conditions indicate a pollution build up then the AQMD will restrict or prohibit burning in any indoor or outdoor fireplace, wood stove, firepit or chiminea that burns wood, pellets, manufactured logs or any other solid fuel.

Enforcement is through sightings of visible smoke by Air District enforcement staff. In addition to regular routes, staff visits locations determined by complaints. The address is written down and a notice of violation is mailed to the occupant or property owner if the owner doesn’t reside in the home.

To report a complaint or suspected violation, call 1-800-880-9025. First-time violations will result in a $50 fine; or the violator can choose to complete and pass a wood smoke awareness course. Fines for subsequent violations are higher.

This law applies to Sacramento County and the cities of Citrus Heights, Elk Grove, Folsom, Galt, Isleton, Rancho Cordova and Sacramento. Similar laws exist in the Bay Area and the San Joaquin Valley.

Visit www.SpareTheAir.com/burncheck.cfm to learn more about Check Before You Burn.

2. Sign up to receive Air Alert emails at www.SpareTheAir.com (input your Sacramento County zip code and select the “Daily Air Quality Forecast” box)
3. Call 1-877-NOBURN-5 (1-877-662-8765)
4. Read the Sacramento Bee’s weather page
5. Listen to radio and television weather forecasts
6. Go to Twitter.com/aqmd

Governor Brown has signed AB 146 (Dickinson) into law! Starting January 1, 2013, there will be a Sacramento region representative—a member of the board of directors of one of the region’s local air districts—on the California Air Resources Board. AB 146 fulfills a longstanding desire of the region’s business and political leadership to have a seat at the table when CARB makes important decisions that affect the economy and the environment.

With AB 146 now state law, the region will have the opportunity to bring to CARB the same collaborative, problem-solving spirit that has enabled us to develop innovative solutions to air quality challenges. It’s a significant accomplishment that will pay dividends for decades to come and is another indication that greater Sacramento has arrived as one of the major metropolitan regions of the state.

So many people made this victory possible. Assemblymember Roger Dickinson (former Chair of the SMAQMD Board of Directors) is to be thanked and congratulated for his leadership in introducing the legislation. Senator Darrell Steinberg was very helpful in ensuring that the bill made it out of the Senate. CARB Chair Mary Nichols and Executive Officer James Goldstene were highly cooperative in engaging with the region to better understand our desire to help CARB address the major air quality and climate change challenges California faces. Roger Niello of Metro Chamber and Kori Titus of Breathe California, leaders of the Cleaner Air Partnership that is so ably staffed by Bill Mueller and Tara Thronson of Valley Vision, made it clear that both the business and environmental communities were ready to work with CARB. Our allies at the Sacramento Area Council of Governments were supportive from the start. Congratulations to all!