



The West Coast Collaborative is a public-private partnership focused on reducing diesel emissions throughout western North America and the U.S. Pacific Islands. The Collaborative seeks to significantly improve air quality and public health by providing assistance to upgrade high-polluting diesel-fueled engines, vehicles, and equipment with cost-effective and cleaner emission control technologies.

DERA National 2016: Replacing a Tier 0+ Passenger Locomotive in Southern California



Where:
Southern CA



Grantee:
South Coast Air Quality Management District



Replaced:
1 model year 2001 Tier 0+ diesel passenger locomotive



Funding:
\$523,809 U.S. EPA's DERA
\$4,536,000 Matched



Emissions Reduced:*
8.72 tons of PM_{2.5}
191.01 tons of NO_x
15.17 tons of VOC



What is the Collaborative?
The West Coast Collaborative is a partnership among leaders from federal, tribal, state, and local governments, the private sector and environmental and community groups in EPA Regions 9 and 10.

The West Coast Collaborative is pleased to announce the South Coast Air Quality Management District's (SCAQMD) completion of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) grant to replace a diesel passenger locomotive operating in Southern California. This project was implemented using \$523,809 in DERA grant funding combined with \$4,347,400 in matching funds from SCAQMD and \$188,600 from Metrolink.

What is this Project?

This project replaced one engine model year 2001 Tier 0+ diesel passenger locomotive with a new Tier 4 diesel passenger locomotive. The replaced locomotive was one of Metrolink fleet of locomotives used to transport passengers across Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties, including a portion of the northern San Diego County. The new locomotive continues to operate in the same areas.

Why is this Project Important?

Exposure to diesel exhaust is associated with decreased lung function and can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project reduces human exposure to diesel emissions and therefore negative health effects associated with diesel exposure. The locomotive replaced in this project operated throughout the South Coast air basin and parts of Ventura County and San Diego County. The South Coast air basin continues to face significant air quality challenges and remains in non-attainment for ozone and particulate matter. The South Coast air basin is also designated by US EPA as an air toxics assessment area where much of the population is exposed to more than 2.0 µg/m³ of diesel particulate matter emissions.

Who are the Project Partners?

This project was administered by the SCAQMD, a regional agency with jurisdiction over air quality in California's South Coast air basin. SCAQMD received this DERA grant through the Collaborative and distributed these grant funds to Metrolink. SCAQMD was responsible for all data monitoring and reporting.

*Estimated air emission reductions over the remaining lifetime of this locomotive.