

Alamo

enterprise

National

November 13, 2012

Mr. Matt Mackenzie
South Coast Air Quality Management District / MSRC
21865 Copley Drive
Diamond Bar, CA 91765

Airport Regional Office
17120 S. Main St. 32YY
Gardena, CA 90248
310.817.7300 p
310.817.8151 f
enterpriseholdings.com

Re: Contract #MS10007: Enterprise Rent-A-Car
Final Report & Invoice for Retained funds

Dear Mr. Mackenzie:

This contract provides Enterprise Rent-A-Car (ERAC) \$18,976 in funding to offset the cost to purchase and deploy two (2) new compressed natural gas (CNG) shuttle buses. ERAC has successfully purchased and deployed the two vehicles.

As required by the MSRC, please accept the enclosed final report from ERAC. Upon submission and report approval, ERAC will have met all deliverables required under this contract and the project will be complete.

Upon acceptance of this report please remit the final grant payment (retained funds) to ERAC as outlined below.

REMMITANCE	
Project Sponsor:	Enterprise Rent-A-Car
Employer Identification Number:	95-3475810
Contact:	Patrick Burwell
Address:	17210 South Main St. Gardena, CA
Grant ID:	MS10007
Invoice #:	2 (FINAL)
Total Amount Due:	\$1,879.60

We appreciate the support and commitment of the MSRC for this project and we look forward to working with you in the future. If you have any questions or require any further documentation to close out this contract, please contact Lacy Buckingham at Clean Energy at (562) 546-0311 or contact me directly at (310) 817-7305 or by email Patrick.burwell@erac.com.

Sincerely,



Patrick Burwell



Final Report

November 13, 2012

Advanced Technology Heavy-Duty
Alternative Fuel Engine Program

Contract Number: MS10007

Contractor Organization: Enterprise Rent-A-Car

*Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under
the AB 2766 Discretionary Fund Work Program.*

Acknowledgements

Enterprise Rent-A-Car thanks the Mobile Source Air Pollution Reduction Review Committee (MSRC) and Clean Energy for their individual and combined efforts that made this project possible.

This report was submitted in fulfillment of MSRC Contract MS10007, Enterprise Rent-A-Car Compressed Natural Gas (CNG) Shuttle Buses (x2). Work was completed as of August 2011.

Disclaimer

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAQMD). The mention of commercial products, their sources or their uses in connection with material reported is not to be constructed as either an actual or implied endorsement of such products.

Project Description

This contract provides \$18,976 in funding to offset the costs of purchasing and placing into service two (2) heavy-duty CNG shuttle buses (\$9,488 per bus). Enterprise Rent-A-Car (ERAC) provided the remaining capital for this purchase, a total of \$705,604.76. ERAC partnered with Clean Energy to purchase, deploy and fuel the new fleet of CNG shuttle buses.

Work Performed

Vehicle purchasing and placement into service began in 2011. All vehicles were purchased and deployed by July 2011.

Task 1: Order Vehicles

All vehicles were ordered Gillig LLC.

Task 2: Submit Public Outreach Plan

ERAC and Clean Energy developed a public outreach plan to publish a blog post on the ERAC sustainability website & blog "Driving Futures" that included information about compressed natural gas, the MSRC, and the air quality benefits created through the use of CNG by fleet vehicles. Each CNG shuttle was clearly labeled with a decal noting the use of CNG and the support of the MSRC. The Public Outreach Plan was submitted and approved by the MSRC.

Task 3: Take Delivery of Vehicles and Place into Service

ERAC took delivery of the two (2) vehicles funded under the terms of this award. Upon delivery they were placed into service.

Task 4: Implement Public Outreach Plan

After the MSRC approved the public outreach plan, ERAC published the blog post about the CNG shuttles. In addition, MSRC decals were placed in a prominent, visible location on vehicles to publicize the MSRC and CNG fuel.

Task 5: Progress Reports

ERAC submitted all quarterly reports as required under the terms of this contract.

Task 6: Final Report

This report will act as the final report for this project. Task 6 is completed upon acceptance of this report.

Problems Encountered

ERAC has not encountered any major problems with the CNG vehicles since their deployment. The new vehicles have provided reliable performance and have received positive feedback from ERAC drivers and customers.

Emissions Benefits

Natural gas is the cleanest choice of fuel available today for this market. Natural gas powered vehicles produce up to 23% fewer greenhouse gas emissions (GHG)¹ than comparable diesel models². The two CNG shuttles are expected to consume a combined total of 9,877 DEG per year (based on fleet data in application). Based on this use, these 2 CNG shuttles reduce 40.62 tons of criteria pollutants³ and Greenhouse Gas⁴ (GHG) emissions each year! They will reduce over 406.2 tons of criteria pollutant & greenhouse gas emissions would be reduced over a 10-year operational life!

Project Emission Reductions*

CNG Shuttle Buses	Emission Reductions (Tons)	
	NOx +PM ₁₀	GHG
Annual Reductions/(per shuttle bus)	0.2007	20.11
Annual Reductions/fleet (2 shuttle buses)	0.4014	40.22
Project Life (10 years)/ fleet (2 shuttle buses)	4.014	402.20

** Emissions reductions were based on total annual fuel consumption of the two proposed CNG shuttle buses at 9,877 DEG's of fuel annually (4,938 DEG per shuttle bus annually)*

¹ "Detailed California-Modified GREET Pathway for Compressed Natural Gas (CNG) from North American Natural Gas" California Air Resources Board, January 12, 2009.

² "Detailed California-Modified GREET Pathway for Ultra Low Sulfur Diesel (USLD) from average Crude Refined In California" California Air Resources Board, January 12, 2009.

³ Criteria Pollutant (NOx&PM10) Emission Reductions were calculated utilizing "Carl Moyer Program Guidelines Approved Revision 2008." California Air Resources Board, April 22, 2008. http://www.arb.ca.gov/msprog/moyer/advisories_005/advisories_005.htm.

⁴ GHG emission reductions calculated using "Detailed California-Modified GREET Pathway for Compressed Natural Gas (CNG) from North American Natural Gas" California Air Resources Board, January 12, 2009 & "Detailed California-Modified GREET Pathway for Ultra Low Sulfur Diesel (USLD) from average Crude Refined In California" California Air Resources Board, January 12, 2009.



Forewords

11/01/2012 – Commitment to Fuel Efficiency Goes Beyond our Cars

By > Lee Broughton



Enterprise is always looking at renewable fuels and alternative technologies whenever possible. But our efforts aren't limited to rental vehicles; Enterprise also is making efforts to [convert to renewable fuels](#) in our airport shuttle buses across the nation.

Most recently, we announced [synthetic diesel pilot programs](#) in Houston and New Orleans. Now I am pleased to tell you our Los Angeles team has implemented two additional compressed natural gas (CNG) shuttle buses at Los Angeles International Airport (LAX). In all cases, the move to renewable fuels not only supports our own sustainability goals but also those of our airport partners.

The two new LAX shuttle buses will join an existing fleet of 30 CNG-fueled shuttles in Southern California. The addition is made possible by a generous grant from the [Mobile Source Air Pollution Reduction Review Committee](#) (MSRC). In 2010, the [MSRC](#) first supported Enterprise with \$300,000 to co-fund 10 Enterprise-Rent-A-Car shuttle buses at the same location. MSRC's grant program encourages owners of local, heavy-duty vehicle fleets to purchase vehicles that use alternative fuels.

Increasing access to this cleaner burning fuel is critical to developing more sustainable airport transit options, and we look forward to additional conversion when it's readily available in even more markets.

-Lee

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Photographs





Summary and Conclusions

ERAC and Clean Energy appreciate the support that has been provided by the Mobile Source Air Pollution Review Committee and South Coast Air Quality Management District for alternative fuel projects in the South Coast Air Basin. We recommend the continued support for funding projects that provide buy-downs for clean-fueled natural gas vehicles, fund technology advancement, and increase natural gas infrastructure.