

Final Report

Contract No. AB2766/MS08017
Purchase of 30 CNG Powered Buses
Omnitrans

This report is prepared for the Mobile Source Air Pollution Review Committee (MSRC) under AB 2766 Discretionary Fund Work Program.

Acknowledgements:

Omnitrans would like to thank the Mobile Source Air Pollution Reduction Review Committee of the South Coast Air Quality Management District, San Bernardino Associated Governments (SANBAG), and the Federal Transportation Administration for providing funds related to the purchase of 30 CNG powered buses. This report was submitted in fulfillment of Contract number MS08017 and the Purchase of 30 CNG Powered Buses by Omnitrans under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee.

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 construed as either an actual or implied endorsement of such products.

Project Description & Work Performed:

Task 1 Vehicle Procurement/Design and Engineering

A bus bid specification was prepared detailing vehicle design and performance parameters, as well as technical quality assurance, and warranty requirements.

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 2 Bid Process

A Requests for Proposal (RFP) package was issued to perspective bus manufacturers of alternative fuel buses. Omnitrans reviewed and evaluated all Requests for Approval Equals submitted by each bus manufacturer. Bid opening was February 6, 2008.

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 3 Pre-Production Meetings

Pre-Production Meetings began in November 17, 2008, and were completed in November 18, of 2008. Construction of the prototype bus has begun.

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 4 Prototype Bus Production

Contractor has in place an inspection team consisting of one inspector in Winnipeg AB

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 5

Bus Production

Contractor has in place an onsite manufacturing inspection team which monitors production quality and conformance to bus specifications. Once the production-buses are completed and presented for acceptance, the inspection team will approve documents to allow for purchase and payment of buses. .

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 6

Service Preparation

Contractor has established a bus acceptance team to prepare new buses for service. Each new bus is safety checked, cleaned, and function tested prior to being placed into revenue service.

Percent Completed this Reporting Period:	0%
Percent Complete	100%

Task 7

Vehicle Performance Evaluation

New buses are assigned to designated service operating divisions for introduction into Contractors fleet. Performance of vehicles is monitored and warranty provisions of the contract are administered. This process is on-going throughout the life of the bus and has no completion date. The following percentages indicate buses presently in revenue service. While a number of new buses have been placed in service, any performance evaluation at this point would be premature. The buses, however, have not exhibited any evidence of major problems or concerns.

Percent Completed this Reporting Period:	5%
Percent Complete	100%

Issues During Current Reporting Period:

1. Engine: Cylinder head failure

2. Engine: Piston failure

3. Engine: Catalytic converter failure

Work Planned for Next Reporting Period:

1. No other work associated with this procurement is planned.

Problems Encountered:

- Numerous engine oil cooler failures have been addressed and resolved under an extended warranty contract with Cummins Engine Company.

- Numerous engine ignition control module (ICM) failures have been addressed and resolved under an extended warranty contract with Cummins Engine Company.

- Numerous turbocharger waste-gate failures have been addressed and resolved under an extended warranty contract with Cummins Engine Company

Emissions Benefits:

- NOx reductions from 1.8gm/bhp-hr for the Cummins 8.3 C Gas PLUS, to 0.2 gm/bhp-hr for the Cummins 8.9 ISLG.
- Particulate matter emissions 0.01 gm/bhp-hr.

Summary and Conclusions:

Omnitrans is satisfied with the purchase of the vehicles funded by the Mobile Source Air Pollution Reduction Review Committee. Other than issues outlined in previous paragraphs, reliability has been good. Omnitrans is pleased to offer public transportation on buses that not only use clean burning fuels, but are also economical to operate.

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