



Advanced Vehicle Technologies  
41150 Technology Park Drive  
Suite 101  
Sterling Heights, MI 48314  
Tel: 586.799.1800  
Fax: 586.991.0955

**Customer:** U.S. Department of Transportation, Federal Transit Administration

## Project Definition and Objectives

### *Evaluation of Clean Fuel in Diesel Vehicles*

ICRC was awarded multiple cooperative agreements by the Federal Transit Administration for the testing and demonstration of ultra-clean Fischer-Tropsch (F-T) diesel fuel. The objective of this project is to evaluate the usage of the ultra-clean fuel in transit buses and other diesel vehicles.

## Tasks

The tasks being performed by ICRC for this project include:

- Evaluating arctic grade ultra-clean F-T diesel fuel used in two transit buses in Fairbanks, Alaska.
- Operating a new transit bus in Tulsa, Oklahoma, solely with ultra-clean F-T fuel for at least two years. (If subsequent funding is obtained, the bus will continue to be operated with ultra-clean fuel for the duration of its service life up to overhaul, approximately six to seven years.)
- Directly comparing the fuel consumption of ultra-clean F-T fuel and conventional fuel in heavily loaded trucks operated at Auburn University's National Center for Asphalt Technology.

ICRC's testing for these tasks includes evaluating fuel economy, compiling emission data, and studying the fuel's effects on a variety of diesel engines.

## Impact

ICRC delivered the following results:

- Through its previous clean fuels work, brought to this project unmatched expertise in managing clean fuels testing and demonstration projects.
- Is spearheading the effort to establish the viability of ultra-clean F-T diesel fuel produced from non-petroleum based energy resources.
- Is helping the Department of Transportation and other government entities make significant advances in fulfilling their mission of reducing the nation's dependence on imported petroleum.

## Next Steps

ICRC recently initiated a program to produce ultra-clean F-T diesel and jet fuels from coal. The initial work, led by the Department of Energy in cooperation with the Department of Defense, will include an assessment of environmental factors associated with the coal-to-liquids production process.

## Other ICRC Services:

Information Sciences  
Aerospace Services  
Infrastructure Support Services

For more information or to discuss potential contracting opportunities, contact ICRC's Corporate Headquarters:

Phone: 703.519.9901  
E-mail: [info@ICRCsolutions.com](mailto:info@ICRCsolutions.com)



ICRC is evaluating ultra-clean Fischer-Tropsch fuel in transit buses and other diesel vehicles.