Using 24 road simulators, Southwest Research Institute® (SwRI®) conducts rapid, cost-effective, round-the-clock mileage accumulation at speeds up to 100 miles per hour. These chassis dynamometers accommodate most cars and light trucks up to 7,000 pounds, conducting any transient or steady-state driving cycle.

Of the 24 road simulators, one dyno offers four-wheel-drive capabilities and supports hybrid vehicle testing under real-world conditions. Four newly installed dynos have temperature- and humidity-controlled engine inlet air to ensure consistent operating conditions year-round. An additional high-performance dyno is capable of supporting vehicles up to 400 horsepower.

SwRI evaluates durability and performance of automotive fluids, fuels, components, and emission control systems. Features include:

- Transient and steady-state driving cycles
- Controlled and repeatable tests
- No downtime for adverse weather
- Side-by-side component comparisons
- Efficient multiple component testing
- Safe operation
- Convenient and real-time access to test data
- Ability to test prototype systems not yet roadworthy
We welcome your inquiries.
For more information, please contact:

James McCord  
Manager  
210.522.3439  
[james.mccord@swri.org](mailto:james.mccord@swri.org)

Matt Jackson  
Director  
210.522.6981  
matt.jackson@swri.org

Fuel Performance Evaluations

Quality Accomplishments

The Office of Automotive Engineering (OAE) at SwRI is certified to ISO 9001:2008, “Quality Management Systems – Requirements,” accredited to ISO/IEC 17025:2005, “General Requirements for the Competence of Testing and Calibration Laboratories,” and certified to ISO 14001:2004, “Environmental Management Systems.” The OAE has also achieved Ford Tier 1 status for providing engineering services and the Engine, Emissions and Vehicle Research Division has received the Ford Q1 Quality Award. In addition, the Petroleum Products Research Department is a Nuclear Procurement Issues Committee (NUPIC)-approved laboratory and the Fuels and Lubricants Research Division has maintained its status as an American Chemistry Council (ACC)-approved laboratory.

SOUTHWEST RESEARCH INSTITUTE

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