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
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.

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Southwest Research Institute is an independent, nonprofit, applied engineering and physical sciences research and development organization using multidisciplinary approaches to problem solving. The Institute occupies 1,200 acres in San Antonio, Texas, and provides more than 2 million square feet of laboratories, test facilities, workshops and offices for more than 3,000 employees who perform contract work for industry and government clients.

We welcome your inquiries. For additional information, please contact: