

Verify - EPA's Engine and Vehicle Compliance Information System

What is Verify?

Verify is an innovative information management system that centralizes emission-related and fuel economy data for all transportation and other mobile source industries. The U.S. Environmental Protection Agency (EPA) uses the data located in this system to determine a manufacturer's compliance with engine and vehicle emission standards as well as fuel economy standards. As a state-of-the-art, integrated computer system, Verify consolidates and replaces several smaller systems, including the Certification and Fuel Economy Information System (CFEIS) and the Information Management System (IMS), while also incorporating newly-regulated industries that have no prior compliance information system. The Verify system facilitates the collection of manufacturers' data which streamlines EPA's review, approval and distribution of certification and fuel economy information. In addition, Verify's reporting capability provides the data for the Agency's public information web sites, such as EPA's Green Vehicle Guide and the Document Index System, as well as the Fuel Economy Guide (a joint EPA/Department of Energy Web Site).

Covered Processes

- New engine and vehicle exhaust and evaporative emission certification
- Fuel economy testing, fuel economy labels (vehicle window stickers), and Corporate Average Fuel Economy (CAFE)
- Emission testing at EPA to confirm manufacturer emission and fuel economy test results
- Emission compliance testing of in use vehicles
- Manufacturer registration
- Compliance document collection

State-of-the-Art Features

- Interactive web screens
- Integrated help screens
- On-line data validation
- Batch file submission capability



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- Secure bi-directional data transmission using Hypertext Transfer Protocol Secure (HTTPS) and data encryption
- Customized search functions

Technological Innovation

- Uses EPA's Central Data Exchange (CDX) - the point of entry on the Environmental Information Exchange Network for environmental data submissions to the agency
- Established ground-breaking infrastructure for secure interactive web collection.
- Employs federal and EPA enterprise architectures
- Incorporates the Oracle Portal technology
- Uses eXtensible Markup Language (XML), Java, Oracle relational database management system (RDBMS), and Web services
- Integrates secure electronic certificates
- Uses a business-rules engine to keep business and programming logic separate, so subject matter experts can easily define and modify business rules without custom code
- Uses workflow engine, which allows EPA to adapt quickly to changes in work processes

How Verify's Information Is Used

By EPA:

- Green Vehicle Guide
- Fuel Economy Trends report
- EPA Web site and Office of Transportation and Air Quality's Document Index System
- Enforcement actions
- Compliance Progress Report

By Stakeholders:

- U.S. Customs Vehicle & Engine imports
- Department of Transportation (Corporate Average Fuel Economy)
- Department of Energy (Fuel Economy Guide)
- Internal Revenue Service (Gas Guzzler Tax)
- Engine & vehicle manufacturers (Certificates of Conformity)

For More Information

For more information on Verify, visit www.epa.gov/otaq/verify or send an E-mail to verify@epa.gov