



SOUTHWEST RESEARCH INSTITUTE



## Emissions Consulting Service and Certification Support

Southwest Research Institute® (SwRI®) provides emissions consulting service (ECS) to the major engine and vehicle manufacturers, suppliers, as well as fuel and oil companies. Services focus on current and future emission regulations in China and other global markets, and the aftertreatment technologies to meet the regulations.

### Emissions Consulting Service

- Focus on emission regulations, certification requirements and compliance practice in China
- Covers light-duty, heavy-duty, off-road, marine, and locomotive engines

### Certification Support

- SwRI provides services to help OEMs meet global emissions certification standards
  - U.S. EPA, California Air Resources Board (CARB), Mine Safety and Health Administration (MSHA)
  - China
  - Canada EPA
  - European Union
  - India
  - International Organization for Standardization (ISO)
- SwRI's unique fuel blending capability can significantly reduce OEM certification cost
  - One engine shipping and installation – greatly reduce OEM logistic and installation costs, especially when the engine needs certification for global markets
  - Trusted data from the globally recognized and independent laboratory



SwRI evaluates a converters' ability to continue reducing emissions over the life of a vehicle.



Currently, the ECS program covers the detailed requirements for certification, conformity of production (COP) and in-use compliance testing of the following regulations:

- Current Regulations
  - Beijing V heavy-duty diesel engine emission regulation (including Beijing V+)
  - China V light-duty vehicle emission regulation
  - China Stage III off-road emission regulation
- Upcoming Regulations
  - China VI heavy-duty engine emission regulation (draft to be released late 2016)
  - Beijing VI heavy-duty engine and vehicle emission regulation (effective starting Dec. 1, 2017)
  - China VI light-duty vehicle emission regulation (final rule to be released late 2016)
  - Beijing VI light-duty vehicle emission regulation (effective starting Dec. 1, 2017)
  - China Stage IV off-road engine emission regulation (to be revised)
- China Phase I and II Marine engine emission regulation (final rule to be published late 2016)



ADVANCED COMBUSTION  
CATALYST AND AFTERTREATMENT  
TECHNOLOGIES

A Consortium of 

**We welcome your inquiries.**  
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CATALYST AND  
AFTERTREATMENT R&D

A Program of 

Commercial Vehicle Systems Department  
Powertrain Engineering Division

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## SOUTHWEST RESEARCH INSTITUTE

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Designed & printed by SwRI MPS 03-0223 JCN 268676 tp