



Advanced Vehicles and Fuels Systems

Cooperative Research and Development Final Report

CRADA Number: CRD-03-00129

NREL Technical Contact: Robert B. Farrington

CRADA Report
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In accordance with Requirements set forth in Article XI.A(3) of the CRADA document, this document is the final CRADA report, including a list of Subject Inventions, to be forwarded to the Office of Science and Technical Information as part of the commitment to the public to demonstrate results of federally funded research.

CRADA number: CRD-03-00129

CRADA Title: Advanced Vehicles and Fuels Systems

Parties to the Agreement: AVL Powertrain Engineering, Inc. + NREL

Joint Work Statement Funding Table showing DOE commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 1,500,000.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 1,500,000.00

Abstract of CRADA work:

Midwest Research Institute ("MRI") and AVL Powertrain Engineering, Inc. ("AVL") have executed a Software and Trademark License Agreement ("Software License") by which AVL is granted the exclusive right to use, modify and improve and to commercialize by reproducing, distributing and granting sublicenses in, certain computer software known as ADVISOR 2003. As a precondition to the Software License, AVL and MRI were required to negotiate and enter into a Cooperative Research and Development Agreement ("CRADA").

Task 1, described below, states how the parties will collaborate to transfer technology that is relevant to ADVISOR 2003 as well as how the parties will independently and jointly modify and improve ADVISOR 2003. Tasks 2 thru 4 are specific cooperative research and development projects focusing on automotive technology of mutual interest to the parties, as well as the Department of Energy ("DOE"). It is anticipated that relevant portions of the results of Tasks 2 thru 4 will be periodically incorporated into future derivative works of ADVISOR 2003, for the benefit of the DOE program and both parties. Additional, future collaborative research tasks may be added to the CRADA at a later date dependent upon the mutual interest of the parties and the level of DOE and participant funding available.

Summary of Research Results:

The benefits to NREL and DOE are: AVL's participation in this cooperative research program provided a significant leveraging of DOE resources at no additional cost to the government. AVL provided NREL with commercial versions of ADVISOR and a significant amount of free software licenses and training in AVL proprietary software. The provision of these tools, as well as the experience gained through a long-term technical engagement with a world-class power-train engineering consulting firm, significantly enhanced the technical expertise of NREL staff in the area of automotive power-trains with particular emphasis on the capability of future technology that impacts fuel economy and emissions. This newly acquired technical expertise at NREL is employed to accomplish DOE research goals and objectives.

Subject Inventions listing:

None.

Report Date: 3/1/10

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