

## STATEMENT OF CONSIDERATIONS

REQUEST BY CATERPILLAR, INC. FOR AN ADVANCE WAIVER OF PATENT RIGHTS TO INVENTIONS MADE UNDER COOPERATIVE AGREEMENT DE-FC26-05NT42412; W(A)-05-061, CH-1347

As set out in the attached waiver petition and in subsequent discussions with DOE Patent Counsel, Caterpillar, Inc. (Caterpillar) has requested an advance waiver of domestic and foreign patent rights for all subject inventions made under the above subject cooperative agreement. The waiver will apply to inventions made by Caterpillar employees and its subcontractors' employees, regardless of tier, except inventions made by subcontractors eligible to retain title to inventions pursuant to P.L. 96-517, as amended, and National Laboratories.

The title of this project is, "Development of Enabling Technologies for High Efficiency, Low Emissions, Homogeneous Charge Compression Ignition (HCCI) Engines." Referring to item 2 of Caterpillar's petition, the purpose of this agreement is to develop enabling technologies in the areas of fuel properties, advanced fuel and air systems, cooling systems, and advanced controls methods. The goal is to integrate HCCI technology on Class 8 truck and off-highway equipment with packageable, production-intent hardware meeting 2010 on-highway and 2014 off-highway regulations.

The work under this agreement is expected to take place from August 1, 2005 through December 31, 2008. Caterpillar will be obligated to cost share \$9,508,954, or about 50% of the total cost of the project, which is \$19,017,918. DOE is providing the remaining cost share of 50% or \$9,508,954.

In view of the cost sharing and other equities between Caterpillar and its subcontractors, it is anticipated that the parties will develop an appropriate allocation of patent rights among the participants to facilitate the expeditious development of the technology forming the subject matter of the agreement. Accordingly, DOE will waive title to all subject inventions made by Caterpillar employees and its subcontractors' employees, regardless of tier, except inventions made by subcontractors eligible to retain title pursuant to P.L. 96-517, as amended, or National Laboratories, to Caterpillar or its subcontractors, as mutually agreed by the parties. Except as otherwise approved in writing by DOE Patent Counsel, a party's acceptance of a subcontract under this agreement, at any tier, shall constitute Caterpillar's certification that it has provided that party with a copy of this Statement of Considerations and that party's notice to DOE that it accepts the terms and conditions of this advance waiver. Additionally, subcontractors who receive title under this waiver shall notify DOE Patent Counsel in writing of such disposition of patent rights.

Referring to items 5-8 in Caterpillar's waiver petition, Caterpillar states it is the world's largest manufacturer of class 3-8 on-highway truck engines and is committed to continuous engine efficiency improvement and emissions reduction. Caterpillar performs overall systems integration for all Caterpillar construction machines and as the leading engine supplier for class 3-8 trucks, Caterpillar often participates closely on system integration issues with many truck OEMs. Caterpillar has the skills, tools, equipment, and experience to integrate electric accessories in engine/machine applications. Its technical competence in this area is evidenced by over 2,000 patents owned by Caterpillar or its subsidiaries. This, coupled with Caterpillar's cost sharing, clearly demonstrates the likelihood that Caterpillar will continue development and commercialization of the results of this agreement.

Referring to item 10 of the waiver petition, granting this waiver is not anticipated to have any adverse impact on competition as there are a variety of competing technologies in the domestic electric accessories market.

This advance waiver of the Government's rights in inventions is subject to the usual advance patent waiver licensing provisions, and the government license, march-in rights, and preference for U.S. industry provisions set out in 35 U.S.C. 202-204. The advance patent waiver also includes the attached U.S. Competitiveness clause (paragraph t) which requires products embodying any waived invention or produced through the use of any waived invention be manufactured substantially in the United States unless the participant can show to the satisfaction of DOE that it is not commercially feasible to do so. The contractor further agrees to make the above condition binding on any assignee, licensee or other entity acquiring rights to any waived invention, including subsequent assignees or licensees. Should the Contractor or other such entity receiving rights in any waived invention undergo a change in ownership amounting to a controlling interest, then the waiver, assignment, license, or other transfer of rights in the waived invention is suspended until approved in writing by DOE.


Considering the foregoing, it is believed that granting this waiver will provide Petitioner with the necessary incentive to invest its resources in the commercialization of the results of the agreement in a fashion which will make the technology available to the public in the shortest practicable time. Therefore, upon evaluation of the waiver petition and in view of the objectives and considerations set forth in 10 CFR Part 784, all of which have been considered, it is recommended that the requested waiver be granted.

  
Mark P. Dvorscak  
Assistant Chief Counsel  
Intellectual Property Law Division

Date: May 31, 2006

Based upon the foregoing Statement of Considerations and representations in the attached waiver petition, it is determined that the interests of the United States and the general public will best be served by a waiver of patent rights of the scope described above, and therefore the waiver is granted. This waiver will not apply to any modification or extension of the cooperative agreement, where through such modification or extension, the purpose, scope or cost of the cooperative agreement has been substantially altered.

CONCURRENCE:

  
Edward J. Wall  
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And Vehicle Technology Program  
Office of Energy Efficiency  
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APPROVAL:

  
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Assistant General Counsel  
for Technology Transfer and  
Intellectual Property, GC-62

6-08-06

Date: \_\_\_\_\_

Date: \_\_\_\_\_

(t) U.S. COMPETITIVENESS

The Contractor agrees that any products embodying any waived invention or produced through the use of any waived invention will be manufactured substantially in the United States unless the Contractor can show to the satisfaction of the DOE that it is not commercially feasible to do so. In the event the DOE agrees to foreign manufacture, there will be a requirement that the Government's support of the technology be recognized in some appropriate manner, e.g., recoupment of the Government's investment, etc. The Contractor agrees that it will not license, assign or otherwise transfer any waived invention to any entity unless that entity agrees to these same requirements. Should the Contractor or other such entity receiving rights in the invention undergo a change in ownership amounting to a controlling interest, then the waiver, assignment, license, or other transfer of rights in the waived invention is suspended until approved in writing by the DOE.

## ***WAIVER ACTION - ABSTRACT***

**W(A)-05-061 (CH-1347)**

### REQUESTOR

Caterpillar, Inc.  
under Cooperative  
Agreement No.  
DE-FC26-05NT42412

### CONTRACT SCOPE OF WORK

Development of Enabling Technologies  
for High Efficiency, Low Emissions,  
Homogeneous Charge Compression  
Ignition (HCCI) Engines

### RATIONALE FOR DECISION

50% cost share

### DISPOSITION