

STATEMENT OF CONSIDERATIONS

REQUEST BY AIR PRODUCTS AND CHEMICALS, INC. FOR AN ADVANCED
WAIVER OF PATENT RIGHTS UNDER DOE COOPERATIVE AGREEMENT
NO. DE-FC36-01GO11087 ENTITLED "VALIDATION OF AN INTEGRATED
SYSTEM FOR A HYDROGEN FUELED POWER PARK"; W(A)-02-015;
CH-1100

As set out in the attached waiver petition and in subsequent discussions with DOE Patent Counsel, Air Products and Chemicals, Inc. (Air Products) has requested an advance waiver of domestic and foreign patent rights for all subject inventions made under the above-identified cooperative agreement by its 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.

Referring to item 2 in Air Product's waiver petition, the overall goal of this agreement is to validate an integrated system for a hydrogen fueled power park encompassing the operation of several different proton exchange membrane (PEM) fuel cells supplied by a single natural gas reforming system. The work under the agreement will be done in two phases. Phase I is to be an optimization study to determine the technical and economic feasibility of the program, and Phase II will include the design and installation of a fully integrated power park system.

The work under this agreement is expected to take place over a period of at least two years at a total cost of about \$1,390,726. The total cost of the work under Phase I is \$363,035 of which Air Products is obligated to cost share \$181,518, or about 50 percent of the total cost of that phase of the agreement. If Phase I proves successful and the Department elects to fund Phase II, Air Products will be expected to cost share at least 50 percent of the total cost of that phase of the agreement.

In view of the cost sharing and other equities between Air Products 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 Air Products's 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 Air Products 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 Air Products' 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, the subcontractors who receive title under this waiver shall notify the DOE Patent Counsel in writing of such disposition of patent rights.

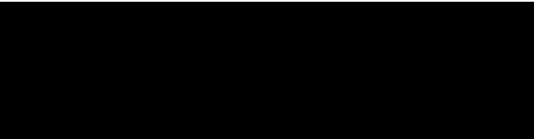
Referring to items 5-9 of Air Products' waiver petition, the teaming effort Air Products is leading includes leading developers of various types of reforming technologies, emerging fuel cell manufacturers and power conversion and distribution experts. This, coupled with Air Products' cost sharing, clearly demonstrates the likelihood that Air Products will continue development and commercialization of the results of this agreement.

This advance waiver of the Government's rights in inventions is subject to the usual advance patent waiver and background data 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.

Referring to item 10 of the waiver petition, granting this waiver is not anticipated to have any adverse impact on competition. Also, the technology forming the subject matter of this agreement can be expected to improve U.S. competitiveness relative to off-shore competition.

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.



Thomas G. Anderson
Assistant Chief Counsel
Intellectual Property Law Division

Date

10/28/02

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 agreement, where through such modification or extension, the purpose, scope or cost of the agreement has been substantially altered.

CONCURRENCE:



Steven Chalk, Program Manager
Hydrogen, Fuel Cells & Infrastructure
EE-2H

Date: 3/7/03

APPROVAL:



Paul A. Gottlieb
Assistant General Counsel for Technology
Transfer and Intellectual Property,
GC-62

Date: 3-11-03

(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.