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**1. Name of conveying party(ies)**  
Air Products and Chemicals, Inc.  
  
Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: United States Department of Energy  
Internal Address: \_\_\_\_\_

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) March 14, 2011  
 Assignment  Merger  
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 Joint Research Agreement  
 Government Interest Assignment  
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 Other \_\_\_\_\_

Street Address: 1000 Independence Ave., S.W  
  
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**4. Application or patent number(s):**  This document is being filed together with a new application.  
A. Patent Application No.(s)  
Serial No. 12/567,167  
B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Mark P. Dvorscak  
Internal Address: U. S. Dept. of Energy, IPLD  
Street Address: 9800 S. Cass Ave  
City: Argonne  
State: IL Zip: 60439  
Phone Number: 630-252-2393  
Fax Number: 630-252-2779  
Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:** 1  
**7. Total fee (37 CFR 1.21(h) & 3.41) \$** \_\_\_\_\_  
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 Enclosed  
 None required (government interest not affecting title)

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a. Credit Card Last 4 Numbers \_\_\_\_\_  
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**9. Signature:**  4/13/2011  
Signature Date  
Michael J. Dobbs #58,093 Total number of pages including cover sheet, attachments, and documents: **2**  
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Documents to be recorded (Including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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**(630) 252-2171 Voice • (630) 252-2779 Fax**  
**Chicago-IP@ch.doe.gov**  
**www.ch.doe.gov/offices/OCC/**

### CONFIRMATORY LICENSE

**Title of Invention:** Use of Impure Gases in the Controlled Heating and Cooling of Mixed Conducting Metal Oxide Materials  
**Inventor(s):** Michael Carolan, et al.  
**Patent Application Serial No:** 12/567,167 **Filing Date** 9/25/2009  
**Patent Number:** **Issue Date:**  
**Name of Contractor (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable):**  
**Name of Contractor:** Air Products and Chemicals, Inc.  
**DOE Contract No. (i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable):**  
**DE-FC26-98FT40343**  
**DOE Case No.:** S-126,013 **Contractor Docket No.:** 07232

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Cynthia L. Scott

Signed on: 14 March 2011

**Contractor Name** Air Products and Chemicals, Inc.  
**Official's Name** Cynthia L. Scott  
**Official's Title** Manager, Government Contracting  
**Business Address** 7201 Hamilton Boulevard  
 Allentown, PA 18195-1501