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S-127,483

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North Carolina State University

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Name: United States Department of Energy

Internal Address: _____

Street Address: 1000 Independence Ave., S.W

City: Washington

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3. Nature of conveyance/Execution Date(s):

Execution Date(s) July 28, 2011

- Assignment Merger
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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)

B. Patent No.(s)

Serial No. 12/756,563

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Mark P. Dvorscak

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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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Signature

3/5/2012
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Michael J. Dobbs #58,093

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2

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PATENT

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CONFIRMATORY LICENSE

Title of Invention: METHODS AND INTERMEDIATES FOR THE SYNTHESIS OF DIPYRRIN-SUBSTITUTED PORPHYRINIC MACROCYCLES
 Inventor(s): Lianhe Yu, Kannan Muthukumaran, Prathapan Sreedharan, Jonathan S. Lindsey
 Patent Application Serial No: 12/756,563 Filing Date Apr 8, 2010
 Patent Number: 7,947,828 Issue Date: May 24, 2011
 Name of Contractor (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable):
 Name of Contractor: North Carolina State University
 DOE Contract No. (i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable):
 DE-FG02-96ER14632
 DOE Case No.: S-127,483 Contractor Docket No.: 03129

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Signed on: July 28, 2011

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