

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	DE-FG02-00ER54610	066470972	2010 / 4	No

Award Recipient Information

Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219060	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.G6.M8.OH.VW	Recipient ZIP Code + 4 368490001
Recipient Legal Name AUBURN UNIVERSITY	Recipient Country USA
Recipient DBA Name	

Project / Award Information

Funding Agency Code 8925	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 8925	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 89-0227	Total Number of Sub Awards to Individuals 0
Sub Account Number for Program Source	Total Amount of Sub Awards to Individuals 0.00
CFDA Number 81.049	Total Number of Payments to Vendors less than \$25,000/award 0
Amount of Award 250000.00	Total Amount of Payments to Vendors less than \$25,000/award 0.00
Award Date 06/23/2010	
Award Description The project funds an extension of the Auburn fusion research lab's capability to heat plasmas (hot ionized gases) with microwaves. When complete, the the project will more than triple the microwave heating power of the existing Compact Toroidal Hybrid fusion energy experiment. This will result in hotter plasmas more characteristic of the conditions needed to achieve controlled nuclear fusion ultimately for the production of electric power. Research on the Compact toroidal hybrid experiment will be far more applicable to fusion science research as a consequence of this ARRA project.	

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Project Information

Project Name or Project/ Program Title	Activity Codes (NAICS or NTEE-NPC) (up to 10)
<p>TAS Recovery Act - MHD Equilibrium and Stability Studies of Current-Carrying Plasmas in the Compact Toroidal Hybrid</p> <p>Quarterly Activities/ Project Description High voltage capacitors for 100kV anode supplied procured and delivered.</p> <p>Site for high power system near existing lab identified, permission to use site granted by AU VP for Research in Sept. 2010; preparation of site by AU Facilities Division to begin in Oct. 2010.</p> <p>Specific work plan and tasks agreed on with contracted consultant.</p> <p>Plans for next quarter: Clear room (site of microwave system) of existing hardware.</p> <p>Prepare electrical and cooling water services; safety interlocks for room access</p> <p>Design and test waveguide transmission line run from source room to CTH laboratory</p> <p>Refurbish high power gyrotron (microwave source) and associated oil tank at Oak Ridge</p>	<p>Activity Code 1 B43 - NTEE</p> <p>Activity Code 2 Z - NTEE</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>
<p>Project Status Less than 50% completed</p> <p>Total Federal Amount ARRA Funds Received/ Invoiced 0.00</p> <p>Number of Jobs 0.00</p> <p>Description of Jobs Created None this quarter</p> <p>Total Federal Amount of ARRA Expenditure 0.00</p> <p>Total Federal ARRA Infrastructure Expenditure 0.00</p>	

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Infrastructure Purpose and Rationale

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Infrastructure Contact

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

Primary Place of Performance

Address 1	Department of Mathematics and Statistics
Address 2	221 Parker Hall
City	Auburn University
Country Code	US
State	AL
ZIP Code + 4	36849 - 0001
Congressional District	02

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name
Officer 1 Name		Officer 3 Compensation
Officer 1 Compensation		Officer 4 Name
Officer 2 Name		Officer 4 Compensation
Officer 2 Compensation		Officer 5 Name
		Officer 5 Compensation

Report Audit Trail

Created By	Cindy Selman
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