

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	DE-FG02-00ER54610	066470972	2011 / 2	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 0 Individuals
Sub Account Number for Program Source	Total Amount of Sub Awards to 0.00 Individuals
CFDA Number 81.049	Total Number of Payments to 4 Vendors less than \$25,000/award
Amount of Award 250000.00	Total Amount of Payments to 17559.31 Vendors less than \$25,000/award
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>Quarterly Activities/ Project Description</p> <p>TAS Recovery Act - MHD Equilibrium and Stability Studies of Current-Carrying Plasmas in the Compact Toroidal Hybrid</p> <p>At Auburn, the PI requested his university's Facilities Division to carry out the requisite upgrades of electrical service, cooling water availability, and fire protection to the room the university made available to the PI in Nov. 2010. Facilities division has cleaned the room and repainted it. They have purchased and installed electrical switchgear to provide 480 V AC power to the facility. They have also installed cooling water lines to the room. What remains to be done is to pull the conductors from the switchgear and building transformer through conduit to the gyrotron facility. While their role is nearly complete, the contract has not yet been billed the estimated \$100K for this work.</p> <p>Dr. Timothy Bigelow, employee of Oak Ridge National Laboratory and expert in high power microwave heating physics and technology is a consultant/contractor of the project. Dr. Bigelow has prepared the magnet power supplies and high pressure pump for the gyrotron as well as other system components, and is preparing to ship them to Auburn from Oak Ridge, TN in early July, 2011. He will then follow with high voltage power supplies as the next stage in bringing this system into operation.</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>

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Project Status	Less than 50% completed
Total Federal Amount ARRA Funds Received/ Invoiced	27679.38
Number of Jobs	0.71
Description of Jobs Created	Architect and Construction Professionals, Skilled Construction Labor
Total Federal Amount of ARRA Expenditure	41694.09
Total Federal ARRA Infrastructure Expenditure	0.00
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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