

| Report Information | | | | |
|--------------------|-------------------|------------|-------------------------|--------------|
| Award Type | Award Number | Prime DUNS | Calendar Year / Quarter | Final Report |
| Grant | DE-FG02-00ER54610 | 066470972 | 2011 / 1 | 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>Quarterly Activities/ Project Description TAS Recovery Act - MHD Equilibrium and Stability Studies of Current-Carrying Plasmas in the Compact Toroidal Hybrid</p> <p>Dr. Timothy Bigelow, employee of Oak Ridge National Laboratory and expert in high power microwave heating physics and technology is a contractor of the project. Dr. Bigelow has prepared the magnet power supplies for the gyrotron as well as other system components, and is prepared to ship them to Auburn from Oak Ridge, TN.</p> <p>At Auburn, the PI officially 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 ordered the electrical equipment required to provide AC power to the room.</p> <p>Once electrical service is provided to the site, Dr. Bigelow plans to ship the magnet power supplies to Auburn for installation, and 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> |
| <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> | |

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Total Federal Amount of ARRA Expenditure 0.00

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 |
| Date Created | 04/01/2011 04:56 PM |
| Last Updated By | Cindy Selman |
| Last Updated On | 04/07/2011 09:12 AM |