

Quarterly Recovery Act Reporting: DOE Office of Science

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| Recovery Project Name and Identification Number: | 2005410 - Energy Sciences Fellowships and Early Career Awards (WDTS) |
| Reporting Period: | 1st Quarter 2015 |
| Laboratory M&O Contractor: | Los Alamos National Security, LLC |
| WAS Number: | KA/NS03/9/ARRA-2 Rev. 0 |
| Laboratory POC: | Evgenya I. Simakov |
| SC Program POC: | Dennis Kovar |
| Site Office POC: | Eugene Colton |
| SC Budget Office POC: | Denise Allen |
| Total Funding Under this WAS (Whole Dollars): | \$2,500,000 |

| JOBS | |
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| REPORT QUARTERLY JOBS AT THE PRIME AND SUBCONTRACT LEVEL | |
| Prime Contract Jobs Created this quarter: | |
| Prime Contract Jobs Retained this quarter: | 0.7 |
| Total Prime Contract Jobs for this quarter: | 0.7 |
| Subcontract Jobs Created this quarter: | |
| Subcontract Jobs Retained this quarter: | 0.2 |
| Total Subcontract Jobs for this quarter: | 0.2 |
| Total Number of Jobs for this quarter: | 0.9 |
| Total Number of Subcontracts : | 1 |

| RECOVERY ACT MILESTONES | | | | |
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| Recovery Act Milestones (From SC Program Milestone Table) | | Date | Progress Towards Next Milestones | Completed (Yes/No) |
| <i>Initiate research for the Early Career Research Program</i> | | 30-Jun-10 | Milestone complete. | Yes |
| <i>First quarterly Recovery Act progress report due</i> | | 30-Sep-10 | Milestone complete | Yes |
| Additional Notable Milestones | | Date | Progress Towards Next Milestone | Completed (Yes/No) |
| <i>Design a single-cell superconducting PBG cavity at 700 MHz with rf and HOM couplers</i> | | 30-Nov-10 | Milestone complete. | Yes |
| <i>Design and procure a cryostat</i> | | 31-Mar-11 | Milestone complete. | Yes |
| <i>Test the 2.7 GHz prototype cavity</i> | | 31-Mar-11 | Milestone complete. | Yes |
| <i>Report the progress at PAC 2011 conference</i> | | 1-Apr-11 | Milestone complete. | Yes |
| <i>Work with vendor to develop fabrication procedure for a 700 MHz PBG cavity</i> | | 30-Apr-11 | Milestone cancelled due to vendor issues. | No |
| <i>Initiate the design of the TW structure for wakefields testing</i> | | 30-Apr-11 | Milestone complete. | Yes |
| <i>Hire a graduate student for the project</i> | | 1-Sep-11 | Milestone complete. | Yes |
| <i>Send a contract to MIT to support the graduate student</i> | | 1-Sep-11 | Milestone complete. | Yes |
| <i>Procure the 2.1 GHz SRF PBG prototype cavity</i> | | 1-Jan-12 | Milestone complete. | Yes |
| <i>Test the 2.1 GHz SRF PBG prototype cavity</i> | | 1-Mar-12 | Milestone complete. | Yes |
| <i>Design the TW structure for wakefields testing</i> | | 1-Apr-12 | Milestone complete. | Yes |
| <i>Tune and braze prototype TW cells</i> | | 1-May-12 | Milestone complete. | Yes |
| <i>Report the results at IPAC 12 conference</i> | | 1-Jun-12 | Milestone complete. | Yes |
| <i>Report the results at AAC 2012 workshop</i> | | 18-Jun-12 | Milestone complete. | Yes |
| <i>Develop the conceptual the design of the 5-cell SRF PBG structure</i> | | 1-Sep-12 | Milestone complete. | Yes |
| <i>Send a contract to MIT to support the graduate student for the second year</i> | | 1-Sep-12 | Milestone complete. | Yes |
| <i>Design the hardware for the wakefield experiment</i> | | 1-Apr-13 | Milestone complete. | Yes |
| <i>Procure TW cells for the wakefield experiment.</i> | | 1-Apr-13 | Milestone complete. | Yes |
| <i>Procure the hardware for the wakefield experiment</i> | | 1-Jun-13 | Milestone complete. | Yes |
| <i>Test and tune TW cells for the wakefield experiment.</i> | | 1-Sep-13 | Milestone complete. | Yes |
| <i>Put together the components for the wakefield experiment.</i> | | 1-Jan-14 | Milestone complete. | Yes |
| <i>Procure the copper prototype of the 5-cell SRF PBG structure for cold-testing.</i> | | 1-Jun-14 | Milestone complete. | Yes |

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| <i>Report the results at AAC 2014 workshop</i> | <i>18-Jul-14</i> | <i>Milestone complete</i> | Yes |
| <i>Conduct the cold-test of the copper prototype of the 5-cell SRF PBG structure.</i> | <i>1-Sep-14</i> | <i>Milestone complete</i> | Yes |
| <i>Conduct the wakefield experiment.</i> | <i>1-Sep-14</i> | <i>Milestone delayed due to scheduling delays at the AWA user facility. The experiment is starting in January, 2015.</i> | No |
| <i>Conduct the high gradient tests of the 5-cell SRF PBG structure.</i> | <i>1-Mar-15</i> | <i>Milestone on schedule</i> | No |
| <i>Write a paper to report the results of the SRF experiment.</i> | <i>15-Apr-15</i> | <i>Milestone on schedule</i> | No |
| <i>Write a paper to report the results of the wakefield experiment.</i> | <i>15-Apr-15</i> | <i>Milestone on schedule</i> | No |

Quarterly reports are due by 4:00 pm (ET) on the 10th of the month following the end of each quarter. If one of these dates falls on a weekend or holiday, the reports are due

Last updated August 2010