

ATTACHMENT A - SCHEDULE

A.1 PURPOSE OF GRANT

The purpose of this Grant is to provide support to the "MiraCosta College's Nuclear Technology Scholarship Program" as described in Attachment B entitled "Program Description."

A.2 PERIOD OF GRANT

1. The effective date of this Grant is May 1, 2010. The estimated completion date of this Grant is April 30, 2011.
2. Funds obligated hereunder are available for program expenditures for the estimated period: May 1, 2010 – April 30, 2011.

A. GENERAL

- | | |
|--------------------------------|--|
| 1. Total Estimated NRC Amount: | \$150,000.00 |
| 2. Total Obligated Amount: | \$150,000.00 |
| 3. Cost-Sharing Amount: | \$ 31,630.00 |
| 4. Activity Title: | MiraCosta College Nuclear Technology Scholarship Program |
| 5. NRC Project Officer: | John Gutteridge |
| 6. DUNS No.: | 008756534 |

B. SPECIFIC

- | | |
|-------------------|---------------|
| RFPA No.: | HR-10-905 |
| FFS: | N/A |
| Job Code: | T8460 |
| BOC: | 4110 |
| B&R Number: | 0-8415-5C1115 |
| Appropriation #: | 31X0200 |
| Amount Obligated: | \$150,000.00 |

A.3 BUDGET

Revisions to the budget shall be made in accordance with Revision of Grant Budget in accordance with 2 CFR 215.25.

	Year 1
Direct Participant Cost	\$139,500.00
Indirect Cost	<u>\$ 10,500.00</u>
Yearly Total	\$150,000.00

All travel must be in accordance with the MiraCosta College Travel Regulations or the US Government Travel Policy absent Grantee's travel regulation.

A.4 AMOUNT OF AWARD AND PAYMENT PROCEDURES

1. The total estimated amount of this Award is \$150,000.00 for the one year period.

2. NRC hereby obligates the amount of \$150,000.00 for program expenditures during the period set forth above and in support of the Budget above. The Grantee will be given written notice by the Contracting Officer when additional funds will be added. NRC is not obligated to reimburse the Grantee for the expenditure of amounts in excess of the total obligated amount.

3. Payment shall be made to the Grantee in accordance with procedures set forth in the Automated Standard Application For Payments (ASAP) Procedures set forth below.

Attachment B – Program Description

PROGRAM DESCRIPTION

A. Executive Summary:

MiraCosta College, in Oceanside California, is submitting this request for funding in partnership with Southern California Edison to benefit students seeking careers in the nuclear industry through enrollment in the new Associate of Science Degree Program in Energy Technology. The degree program will offer an emphasis in Operations or Radiation Protection Technology (currently in the state approval process). The new degree, set to be offered in the fall of 2010, will replace the existing certificate programs and provide students standardized-Nuclear Energy Institute and Institute of Nuclear Power Operations curricula that will support the nuclear workforce pipeline industry-wide.

The current and future demand for qualified nuclear workers across the nation is well documented. In a 2009 survey from the Nuclear Energy Institute, comparing workforce age levels throughout the industry, it was found that the San Onofre Nuclear Generating Station had one of the highest number of operation and radiation protection plant staff over the age of fifty-three industry wide. Southern California Edison survey results confirm that nearly fifty percent of its workforce will be eligible for retirement in the coming five to ten years, creating a critical need for the Energy Technology degree and a marketing and outreach plan that will identify and place highly qualified candidates in the program.

With the support provided by the NRC scholarship funds, a well established partnership with Southern California Edison, and active involvement with local school districts and community organizations, MiraCosta College is positioned to begin closing the gap on the industry's growing need for skilled nuclear workforce candidates and ensure continued safe and reliable nuclear plant operations. Our aim is to recruit and place 48 highly qualified students annually, make available the resources and support to ensure student success, and provide each student graduate career placement assistance in the nuclear industry.

B. Program Description

The purpose of the Energy Technology Associate degree program is to provide students the opportunity to develop the analytical skills and technical expertise required to begin successful entry-level careers in the nuclear industry. Curriculum in the program will teach core competencies leading to a knowledge base transferable across multiple career opportunities in Radiation Protection Technology and Nuclear Plant Operations. The Energy Technology program goals include:

- Recruit and retain 48 highly qualified applicants annually from a diverse community who progress through the program in a timely manner
- Make available the assistance and resources needed to promote success
- Maintain uniform and consistent high standards of academic achievement

- Increase the number of qualified candidates needed to replace the industry's growing number of retirees

In the early 2000s the Nuclear Energy Institute began addressing the impending wave of retirements in the nuclear industry. Based on need, the University of Missouri applied for and received a \$2.3 million dollar grant from the Department of Labor to develop community college Radiation Protection Technology training programs. The new programs were developed utilizing the Institute of Nuclear Plant Operations and National Academy for Nuclear Training scenario based training standards. Each of the four colleges selected were partnered with a nearby nuclear utility. MiraCosta College and the San Onofre Nuclear Generating Station successfully implemented the University of Missouri curriculum and launched the first program in the fall of 2007.

Simultaneously in the fall of 2007, San Onofre began taking steps to address the need for future operations and maintenance technicians. An additional partnership was developed with MiraCosta College to provide students the necessary core math, science, and technical skills required to successfully qualify for entry-level positions in Operations and Maintenance. In the combined Radiation Protection Technology and Operations and Maintenance certificate programs there are 25 students on track to graduate in the spring of 2010, with an additional estimated 46 students entering their second year of studies in the fall of 2010.

In the spring of 2009 both certificate programs were expanded in academic content and aligned to meet the Nuclear Uniform Curriculum Standards developed by the Nuclear Energy Institute and Institute of Nuclear Plant Operations. A gap analysis to assist in the new program development was conducted in partnership with subject matter experts from the San Onofre Nuclear Generation Station. The resulting new industry specific courses to complete the degree are now in the state approval process and set to be offered in the fall of 2010. An additional track of study in Nuclear Maintenance is currently under development with a projected start date of fall 2011. MiraCosta College aims to become a leading academic institution in providing industry standards based nuclear energy technology educational programs that provide students a degree transportable throughout the industry.

Number of Scholarships: Initial funding from Southern California Edison through academic years 2008/2009 and 2009/2010 provided tuition and book scholarships for 48 part-time students entering the program each year. It is anticipated that in academic year 2010/2011, MiraCosta College will again identify and place 48 students in the expanded full-time Energy Technology Applied Science Associate degree programs. The new academic programs will replace the original certificates and double the number of required units. MiraCosta College is requesting funding for up to 38 full-time students for book, fees and tuition scholarship awards of up to \$3,163.00 per individual. Any unused portion of the NRC scholarship funds, due to funding from federal, state, or other sources, will be dispersed equally among NRC scholarship students as a MiraCosta bookstore stipend to assist with additional costs associated with course requirements such as supplemental study guides, calculators, and related supplies.

The 2009 C2ER National Cost of Living index reports Southern California's cost of living to be 45% higher than the national *average* making post-secondary education unaffordable for many people. Anxiety over rising college tuition costs combined with the state's current financial crisis *have* made access to higher education increasingly difficult for lower-income families. NRC scholarship funding will ensure equal opportunity and access to higher education for many who would not otherwise be able to afford it and increase the number of qualified nuclear workforce candidates graduating with an education based on industry standards curriculum.

Students entering the scholarship program will be identified as the 2010 student cohort. All

students in the program will be required to progress through the prescribed course of study in a timely manner leading to graduation in 2012. Students with transferable general education units will be considered candidates for MiraCosta College Nuclear Technology Scholarship Program based on their ability to enroll in and complete the required number of courses through a combination of transfer of units and enrollment.

Tuition, Fees and Pertinent Costs:

The table below describes the MiraCosta schedule of tuition, fees, and estimated cost of textbooks based on full-time enrollment for California residents. Costs reflect full-time studies in the Energy Technology Associate degree with enrollment in the fall and spring semesters and a 5 unit summer internship. Estimated cost of textbooks has been provided by the California Student Aid Commission and is based on 2009 average expenses reported by the Student Expense and Resources Survey (SEARS).

Energy Technology Associate Degree One Year in State Tuition and Fees Based on 35 Units of Study in Fall, Spring and Summer Sessions	
Enrollment Fee - \$26.00 per Unit	\$910.00
Student Fee - \$1 per Unit	\$35.00
Health Service Fee - \$17.00 for Fall and Spring Semesters	\$34.00
Textbook Expense	\$2,184.00
Total	\$3,163.00

Recruitment. Marketing

MiraCosta College Outreach, Communications, and Workforce Initiatives offices, in collaboration with key supporters from SONGS and the San Diego Workforce Partnership, have established a successful marketing and outreach campaign that disseminates nuclear career information to educators, students, and residents throughout Southern California. Launched in 2008, the nuclear workforce education outreach campaign has provided presentations on careers in nuclear energy at over 100 high school and middle school events including school assemblies, classroom visits, and college and career fairs. Student ambassadors from the college Outreach office and guest speakers from SONGS chapters of Women in Nuclear and the North American Young Generation in Nuclear will continue to visit high school campuses throughout the college district and beyond to raise awareness to careers in nuclear energy and reinforce the importance of career readiness with strong math and science skills.

Press releases sent from MiraCosta College, SONGS, and the San Diego Workforce Partnership to promote the certificate programs have generated feature newspaper articles, television announcements, and multiple website postings. Marketing efforts have generated strong interest and very high attendance levels at information and recruitment sessions. Although the response has been high, identifying qualified candidates with the math and science skill required to enter the program remains a challenge. Press releases for the new associate degree will be released in early March to promote the April information sessions featuring career information and assistance with the scholarship application process.

MiraCosta College, SONGS, and the Oceanside Unified School District are currently developing a pilot Energy Career Pathway program at El Camino High School (a feeder school in the MiraCosta College district). The new high school program, set to be offered in the fall of 2010, will begin preparing 10th grade students with the Science, Engineering, Technology and Math (STEM) skills required to successfully enter the Energy Technology program. This collaborative effort will provide teachers and students curriculum related to nuclear energy, access to industry information and resources, field trips, guest speakers, a limited number of paid after school internships at the plant, and summer teacher externships at the plant. Outreach will

attract future candidates. The Energy Career Pathway program will place students into a planned seamless educational pipeline leading to direct placement in the MiraCosta College Energy Technology programs upon graduation from high school.

Interest in MiraCosta's nuclear programs extends into Central and Northern California. Pacific Gas and Electric has endorsed MiraCosta's Energy Technology Degrees and provides information to potential student candidates through their corporate human resource website: PG&E Endorsed Power Pathway. This collaborative effort expands the reach for new students and will support the state of California's need for qualified nuclear workforce candidates to replace its aging workforce and ensure safe and reliable operations.

Recruiting for Diversity:

MiraCosta College serves a diverse community and seeks to reflect that in its student body. Activities to promote the college's nuclear programs to academically underrepresented populations have included the dissemination of information and participation in outreach events sponsored by the San Diego North County Chapter of the National Association for the Advancement of Colored People (NAACP), Women in Non-Traditional Employment Roles (WINTER), Two Directions Inc. Native American Career Services, Encuentros and Adelante Mujer Latino and Latina Youth Career and Education Conferences, San Diego County Office of Education Foster Youth Services, and the North County Educational Opportunity Center providing career and academic advising to low-income, first generation to college student candidates. NRC scholarship funds will provide socio-economically disadvantaged students an educational opportunity leading to a career in nuclear that will provide an above average living wage.

Student Support and Retention:

Students entering the Energy Technology degree programs in the fall of 2010 will have access to comprehensive academic support services including individualized tutoring, access to specialized study centers dedicated to Math, Chemistry, and English, and an Energy Club with special events, meetings, and activities held on campus and at San Onofre Nuclear Generating Station. A dedicated San Onofre Workforce Education specialist will provide students regular email communications on current events at the plant, invitations and opportunities to participate in meetings, conferences, plant tours and other opportunities that will allow students to begin connecting with plant personnel and the work environment. San Onofre volunteers from chapters of Women in Nuclear and the North American Young Generation in Nuclear will meet with students and serve as mentors to support them as they progress through the program. SONGS volunteer/mentors will also serve as New Hire Buddies for students during their summer internships. New Hire Buddies will provide assistance and support for students navigating through their first days at the plant and initial training. MiraCosta College and SONGS have strong student support programs in place and will strive to maintain a high level of student retention.

Scholarship Program Administration and Management Structure MiraCosta College is a Western Association of Schools and Colleges accredited two-year institution and has the established infrastructure to administer all forms of student financial aid including grants, scholarships, loans, and third party funds sent to the college for award disbursement to students. Tracking and reporting NRC scholarship student accounts and activity will be generated through the MiraCosta College Scholarship office under the management of Diane Danielewicz, Director of Scholarships, and will be monitored by the Principal Investigators of this program.

Applicant Selection:

To be considered applicants must submit a complete application packet to the MiraCosta Scholarship office by the application deadline of May 28, 2010. Candidates will be screened

based on COMPASS English assessment and Computerized Assessment and Placement Program (CAPP) Math competency scores, academic success indicators found in high school and college transcripts, proven financial need, and clarification of the student's commitment and ability to pursue a career in the nuclear industry with a written personal statement and interview. Scholarship awards will be competitive and selection criteria will be consistent for all students applying for funding. Those students eligible for financial aid from other sources, not including student loans, will be eligible for funding to make up the difference in their actual cost of tuition, fees, and books if a difference exists.

Information sessions featuring facts on careers in the nuclear industry and how to qualify for the MiraCosta College Nuclear Technology Scholarship program will be held in April of 2010. Sessions are scheduled at MiraCosta College and the Oceanside and Escondido San Diego Workforce Partnership career centers. Interested candidates will receive information on eligibility requirements for working in the nuclear industry, an explanation of the NRC service agreement and eligibility requirements associated with the scholarship opportunity, tips and resources on how to prepare for the Math and English assessment exams, referrals for assistance in completing the free application for Federal Student Aid, recommendations on writing an effective personal statement, and details on student services and activities that will support the successful completion of the program if selected.

The MiraCosta College Nuclear Technology Scholarship Award Committee will consist of nine members representing both the college and the San Onofre Nuclear Generating Station:

MiraCosta Committee Members:

Diane Danielewicz, Director of Scholarship Programs
Jean Kaput, Workforce Initiatives Director
Ric Matthews, Dean of Math and Science
Chris Metzler, Energy Technology Chair

SONGS Committee Members:

Debbie Lindbeck, Learning Service Manager
Marreena Appleton, Staffing Manager
Jim Madigan, Maintenance and Technical Training Manager
Bill Arbor, Operations Training Manager
Eric Goldin, Nuclear Engineer and Professor of Radiation Protection Technology

Under the direction of Diane Danielewicz, the scholarship office will process incoming scholarship applications and submit those meeting the basic qualification criteria to the Awards and Scholarships Committee. The committee will then review student applications, meet and interview candidates, review NRC service agreement obligations with each student, then select and notify candidates of their award.

Evaluation Plan:

Data tracking for validation of program effectiveness will follow all outreach and recruitment activity including: the dissemination of information and student contacts, scholarship recipient demographics, determined eligibility, funding amounts dispersed to each individual student, sources of additional financial aid if applicable, student academic progress, retention activities, and support services provided. Data will be compiled by Jean Kaput, Workforce Initiatives Director, Diane Danielewicz, Director of Scholarship Programs and Debbie Lindbeck, SONGS Learning Services Manager. Principal Investigators Chris Metzler, Energy Technology Chair, Erika Artukovic, Energy Technology Co-Chair, and Ric Matthews, Dean of Math and Science will review data for program effectiveness and monitoring upon the completion of each semester term.

Future plans for tracking employment placement will be implemented as students

begin graduating from the program. Students entering the program in the fall of 2010 will be eligible for employment upon graduation in 2012.

Attachment C – Standard Terms and Conditions

The Nuclear Regulatory Commission's Standard Terms and Conditions for U.S. Nongovernmental Grantees

Preface

This award is based on the application submitted to, and as approved by, the Nuclear Regulatory Commission (NRC) under the authorization 42 USC 2051(b) pursuant to section 31b and 141b of the Atomic Energy Act of 1954, as amended, and is subject to the terms and conditions incorporated either directly or by reference in the following:

- Grant program legislation and program regulation cited in this Notice of Grant Award.
- Restrictions on the expenditure of Federal funds in appropriation acts, to the extent those restrictions are pertinent to the award.
- Code of Federal Regulations/Regulatory Requirements - 2 CFR 215 Uniform Administrative Requirements For Grants And Agreements With Institutions Of Higher Education, Hospitals, And Other Non-Profit Organizations (OMB Circulars), as applicable.

To assist with finding additional guidance for selected items of cost as required in 2 CFR 220, 2 CFR 225, and 2 CFR 230 these URLs to the Office of Management and Budget Cost Circulars are included for reference:

A-21 (now 2CFR 220):	http://www.whitehouse.gov/omb/circulars/a021/print/a021.html
A-87 (now 2CFR 225):	http://www.whitehouse.gov/omb/circulars/a087/print/a087-all.html
A-122 (now 2 CFR 230)	http://www.whitehouse.gov/omb/circulars/a122/print/a122.html
A-102, SF 424:	http://www.whitehouse.gov/omb/circulars/a102/print/a102.html
Form 990:	http://www.irs.gov/pub/irs-pdf/i990-ez.pdf

Any inconsistency or conflict in terms and conditions specified in the award will be resolved according to the following order of precedence: public laws, regulations, applicable notices published in the Federal Register, Executive Orders (EOs), Office of Management and Budget (OMB) Circulars, the Nuclear Regulatory Commission's (NRC) Mandatory Standard Provisions, special award conditions, and standard award conditions.

By drawing funds from the Automated Standard Application for Payment system (ASAP), the recipient agrees to the terms and conditions of an award.

Certifications and representations. These terms incorporate the certifications and representations required by statute, executive order, or regulation that were submitted with the SF424B application through Grants.gov.

I. Mandatory General Requirements

The order of these requirements does not make one requirement more important than any other requirement.

1. Applicability of 2 CFR Part 215

a. All provisions of 2 CFR Part 215 and all Standard Provisions attached to this grant/cooperative agreement are applicable to the Grantee and to sub-recipients which meet the definition of "Grantee" in Part 215, unless a section specifically excludes a sub-recipient from coverage. The Grantee and any sub-recipients must, in addition to the assurances made as part of the application, comply and require each of its sub-awardees employed in the completion of the project to comply with Subpart C of 2 CFR 215 Part 180 and include this term in lower-tier (subaward) covered transactions.

b. Grantees must comply with monitoring procedures and audit requirements in accordance with OMB Circular A-133. <

http://www.whitehouse.gov/omb/circulars/a133_compliance/08/08toc.aspx >

2. Award Package

Grant Performance Metrics:

The Office of Management and Budget requires all Federal Agencies providing funding for educational scholarships and fellowships as well as other educational related funding to report on specific metrics. These metrics are part of the Academic Competitiveness Council's (ACC) 2007 report and specifically relates to Science, Technology, Engineering, and Mathematics (STEM) curricula.

As part of the FY 2010 HR grant awards, in addition to the customary performance progress report requested on the SF-PPR, SF-PPR-B, and SF-PPR-E forms, HR requires the following metrics to be reported on by the awardees as follows:

Trade Schools and Community College Awards

1. The number and percentage of STEM graduates who take a job in a STEM or STEM-related field.

Service Agreement

A signed service agreement and resume are required for all student recipients of scholarships or fellowships funded by the US Nuclear Regulatory Commission. The Service Agreement is attached to the Terms and Conditions.

§ 215.41 Grantee responsibilities.

The Grantee is obligated to conduct such project oversight as may be appropriate, to manage the funds with prudence, and to comply with the provisions outlined in 2 CFR 215.41. Within this framework, the Principal Investigator (PI) named on the award face page, Block 11, is responsible for the scientific or technical direction of the project and for preparation of the project performance reports. This award is funded on a cost reimbursement basis not to exceed the amount awarded as indicated on the face page, Block 16., and is subject to a refund of unexpended funds to NRC.

The standards contained in this section do not relieve the Grantee of the contractual responsibilities arising under its contract(s). The Grantee is the responsible authority, without recourse to the NRC, regarding the settlement and satisfaction of all contractual and administrative issues arising out of procurements entered into in support of an award or other agreement. This includes disputes, claims, protests of award, source evaluation or other matters

of a contractual nature. Matters concerning violation of statute are to be referred to such Federal, State or local authority as may have proper jurisdiction.

Subgrants

Appendix A to Part 215—Contract Provisions

Sub-recipients, sub-awardees, and contractors have no relationship with NRC under the terms of this grant/cooperative agreement. All required NRC approvals must be directed through the Grantee to NRC. See 2 CFR 215.180 and 215.41.

Nondiscrimination

(This provision is applicable when work under the grant/cooperative agreement is performed in the U.S. or when employees are recruited in the U.S.)

No U.S. citizen or legal resident shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity funded by this award on the basis of race, color, national origin, age, religion, handicap, or sex. The Grantee agrees to comply with the non-discrimination requirements below:

Title VI of the Civil Rights Act of 1964 (42 USC §§ 2000d et seq)
Title IX of the Education Amendments of 1972 (20 USC §§ 1681 et seq)
Section 504 of the Rehabilitation Act of 1973, as amended (29 USC § 794)
The Age Discrimination Act of 1975, as amended (42 USC §§ 6101 et seq)
The Americans with Disabilities Act of 1990 (42 USC §§ 12101 et seq)
Parts II and III of EO 11246 as amended by EO 11375 and 12086.
EO 13166, "Improving Access to Services for Persons with Limited English Proficiency."
Any other applicable non-discrimination law(s).

Generally, Title VII of the Civil Rights Act of 1964, 42 USC § 2000e et seq, provides that it shall be an unlawful employment practice for an employer to discharge any individual or otherwise to discriminate against an individual with respect to compensation, terms, conditions, or privileges of employment because of such individual's race, color, religion, sex, or national origin. However, Title VII, 42 USC § 2000e-1(a), expressly exempts from the prohibition against discrimination on the basis of religion, a religious corporation, association, educational institution, or society with respect to the employment of individuals of a particular religion to perform work connected with the carrying on by such corporation, association, educational institution, or society of its activities.

Modifications/Prior Approval

NRC prior written approval may be required before a Grantee makes certain budget modifications or undertakes particular activities. If NRC approval is required for changes in the grant or cooperative agreement, it must be requested of, and obtained from, the NRC Grants Officer in advance of the change or obligation of funds. All requests for NRC prior approval must be made, in writing (which includes submission by e-mail), to the designated Grants Specialist and Program Office no later than 30 days before the proposed change. The request must be signed by both the PI and the authorized organizational official. Failure to obtain prior approval, when required, from the NRC Grants Officer may result in the disallowance of costs, termination of the award, or other enforcement action within NRC's authority.

Lobbying Restrictions

The Grantee will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

The Grantee shall comply with provisions of 31 USC § 1352. This provision generally prohibits the use of Federal funds for lobbying in the Executive or Legislative Branches of the Federal Government in connection with the award, and requires disclosure of the use of non-Federal funds for lobbying.

The Grantee receiving in excess of \$100,000 in Federal funding shall submit a completed Standard Form (SF) LLL, "Disclosure of Lobbying Activities," regarding the use of non-Federal funds for lobbying within 30 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The Grantee must submit the SF-LLL, including those received from sub-recipients, contractors, and subcontractors, to the Grants Officer.

§ 215.13 Debarment And Suspension.

The Grantee agrees to notify the Grants Officer immediately upon learning that it or any of its principals:

(1) Are presently excluded or disqualified from covered transactions by any Federal department or agency;

(2) Have been convicted within the preceding three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, receiving stolen property, making false claims, or obstruction of justice; commission of any other offense indicating a lack of business integrity or business honesty that seriously and directly affects your present responsibility;

(3) Are presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b); and

(4) Have had one or more public transactions (Federal, State, or local) terminated for cause or default within the preceding three years.

b. The Grantee agrees that, unless authorized by the Grants Officer, it will not knowingly enter into any subgrant or contracts under this grant/cooperative agreement with a person or entity that is included on the Excluded Parties List System (<http://epls.arnet.gov>).

The Grantee further agrees to include the following provision in any subgrant or contracts entered into under this award:

'Debarment, Suspension, Ineligibility, and Voluntary Exclusion

The Grantee certifies that neither it nor its principals is presently excluded or disqualified from participation in this transaction by any Federal department or agency. The policies and procedures applicable to debarment, suspension, and ineligibility under NRC-financed transactions are set forth in 2 CFR Part 180.

Drug-Free Workplace

The Grantee must be in compliance with The Federal Drug Free Workplace Act of 1988. The policies and procedures applicable to violations of these requirements are set forth in 41 USC 702.

Implementation of E.O. 13224 -- Executive Order On Terrorist Financing

The Grantee is reminded that U.S. Executive Orders and U.S. law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of the Grantee to ensure compliance with these Executive Orders and laws. This provision must be included in all contracts/sub-awards issued under this grant/cooperative agreement.

Award Grantees must comply with Executive Order 13224, Blocking Property and Prohibiting Transactions with Persons who Commit, Threaten to Commit, or Support Terrorism. Information about this Executive Order can be found at: www.fas.org/irp/offdocs/eo/eo-13224.htm.

Procurement Standards. § 215.40

Sections 215.41 through 215.48 set forth standards for use by Grantees in establishing procedures for the procurement of supplies and other expendable property, equipment, real property and other services with Federal funds. These standards are furnished to ensure that such materials and services are obtained in an effective manner and in compliance with the provisions of applicable Federal statutes and executive orders. No additional procurement standards or requirements shall be imposed by the Federal awarding agencies upon Grantees, unless specifically required by Federal statute or executive order or approved by OMB.

Travel

Travel is an appropriate charge to this award and prior authorization for specific trips are not required, as long as the trip is identified in the Grantee's original program description and original budget. All other travel, domestic or international, must not increase the total estimated award amount. Trips that have not been identified in the approved budget require the written prior approval of the Grants Officer.

Travel will be in accordance with the US Government Travel Regulations at: www.gsa.gov/federaltravelregulation and the per diem rates set forth at: www.gsa.gov/perdiem.

Travel costs to the grant must be consistent with provisions as established in Appendix A to 2 CFR 220 (J.53)

Property Management Standards

Property standards of this award shall follow provisions as established in 2 CFR 215.30.

Equipment procedures shall follow provision established in 2 CFR 215.34.

Procurement Standards

Procurement standards of this award shall follow provisions as established in 2 CFR 215.40.

Intangible and Intellectual Property

Intangible and intellectual property of this award shall generally follow provisions established in 2 CFR 215.36.

Inventions Report - The Bayh-Dole Act (P.L. 96-517) affords Grantees the right to elect title and retain ownership to inventions they develop with funding under an NRC grant award ("subject inventions"). In accepting an award, the Grantee agrees to comply with applicable NRC policies, the Bayh-Dole Act, and its Government-wide implementing regulations found at Title 37, Code of Federal Regulations (CFR) Part 401. A significant part of the regulations require that the Grantee report all subject inventions to the awarding agency (NRC) as well as include an acknowledgement of federal support in any patents. NRC participates in the trans-government Interagency Edison system (<http://www.iedison.gov>) and expects NRC funding Grantees to use this system to comply with Bayh-Dole and related intellectual property reporting requirements. The system allows for Grantees to submit reports electronically via the Internet. In addition, the invention must be reported in continuation applications (competing or non-competing).

Patent Notification Procedures- Pursuant to EO 12889, NRC is required to notify the owner of any valid patent covering technology whenever the NRC or its financial assistance Grantees, without making a patent search, knows (or has demonstrable reasonable grounds to know) that technology covered by a valid United States patent has been or will be used without a license from the owner. To ensure proper notification, if the Grantee uses or has used patented technology under this award without license or permission from the owner, the Grantee must notify the Grants Officer. This notice does not necessarily mean that the Government authorizes and consents to any copyright or patent infringement occurring under the financial assistance.

Data, Databases, and Software - The rights to any work produced or purchased under a NRC federal financial assistance award are determined by 2 CFR 215.36. Such works may include data, databases or software. The Grantee owns any work produced or purchased under a NRC federal financial assistance award subject to NRC's right to obtain, reproduce, publish or otherwise use the work or authorize others to receive, reproduce, publish or otherwise use the data for Government purposes.

Copyright - The Grantee may copyright any work produced under a NRC federal financial assistance award subject to NRC's royalty-free nonexclusive and irrevocable right to reproduce, publish or otherwise use the work or authorize others to do so for Government purposes. Works jointly authored by NRC and Grantee employees may be copyrighted but only the part authored by the Grantee is protected because, under 17 USC § 105, works produced by Government employees are not copyrightable in the United States. On occasion, NRC may ask the Grantee to transfer to NRC its copyright in a particular work when NRC is undertaking the primary dissemination of the work. Ownership of copyright by the Government through assignment is permitted under 17 USC § 105.

Records retention and access requirements for records of the Grantee shall follow established provisions in 2 CFR 215.53.

Organizational Prior Approval System

In order to carry out its responsibilities for monitoring project performance and for adhering to award terms and conditions, each Grantee organization shall have a system to ensure that appropriate authorized officials provide necessary organizational reviews and approvals in advance of any action that would result in either the performance or modification of an NRC

supported activity where prior approvals are required, including the obligation or expenditure of funds where the governing cost principles either prescribe conditions or require approvals.

The Grantee shall designate an appropriate official or officials to review and approve the actions requiring NRC prior approval. Preferably, the authorized official(s) should be the same official(s) who sign(s) or countersign(s) those types of requests that require prior approval by NRC. The authorized organization official(s) shall not be the principal investigator or any official having direct responsibility for the actual conduct of the project, or a subordinate of such individual.

Conflict Of Interest Standards of this award shall follow provisions as established in 2 CFR 215.42 Codes of Conduct.

Dispute Review Procedures

- a. Any request for review of a notice of termination or other adverse decision should be addressed to the Grants Officer. It must be postmarked or transmitted electronically no later than 30 days after the postmarked date of such termination or adverse decision from the Grants Officer.
- b. The request for review must contain a full statement of the Grantee's position and the pertinent facts and reasons in support of such position.
- c. The Grants Officer will promptly acknowledge receipt of the request for review and shall forward it to the Director, Office of Administration, who shall appoint a review committee consisting of a minimum of three persons.
- d. Pending resolution of the request for review, the NRC may withhold or defer payments under the award during the review proceedings.
- e. The review committee will request the Grants Officer who issued the notice of termination or adverse action to provide copies of all relevant background materials and documents. The committee may, at its discretion, invite representatives of the Grantee and the NRC program office to discuss pertinent issues and to submit such additional information as it deems appropriate. The chairman of the review committee will insure that all review activities or proceedings are adequately documented.
- f. Based on its review, the committee will prepare its recommendation to the Director, Office of Administration, who will advise the parties concerned of his/her decision.

Termination and Enforcement. Termination of this award by default or by mutual consent shall follow provisions as established in 2 CFR 215.60.

Monitoring and Reporting § 215.51

a. Grantee Financial Management systems must comply with the established provisions in 2 CFR 215.21

- Payment – 2 CFR 215.22
- Cost Share – 2 CFR 215.23
- Program Income – 2 CFR 215.24

- Earned program income, if any, shall be added to funds committed to the project by the NRC and Grantee and used to further eligible project or program objectives.
- Budget Revision – 2 CFR 215.25
 - In accordance with 2 CFR 215.25(e), the NRC waives the prior approval requirement for items identified in sub-part (e)(1-4).
 - The Grantee is not authorized to rebudget between direct costs and indirect costs without written approval of the Grants Officer.
 - Allowable Costs – 2 CFR 215.27

b. Federal Financial Reports

Effective October 1, 2008, NRC transitioned from the SF-269, SF-269A, SF-272, and SF-272A to the Federal Financial Report (SF-425) as required by OMB:

http://www.whitehouse.gov/omb/fedreg/2008/081308_ffr.pdf

http://www.whitehouse.gov/omb/grants/standard_forms/ffr.pdf

http://www.whitehouse.gov/omb/grants/standard_forms/ffr_instructions.pdf

The Grantee shall submit a "Federal Financial Report" (SF-425) on a semi-annual basis for the periods ending March 31 and September 30, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. A final SF-425 shall be submitted within 90 days after expiration of the award.

Period of Availability of Funds 2 CFR § 215.28

- a. Where a funding period is specified, a Grantee may charge to the grant only allowable costs resulting from obligations incurred during the funding period and any pre-award costs authorized by the NRC.
- b. Unless otherwise authorized in 2 CFR 215.25(e)(2) or a special award condition, any extension of the award period can only be authorized by the Grants Officer in writing. Verbal or written assurances of funding from other than the Grants Officer shall not constitute authority to obligate funds for programmatic activities beyond the expiration date.
- c. The NRC has no obligation to provide any additional prospective or incremental funding. Any modification of the award to increase funding and to extend the period of performance is at the sole discretion of the NRC.
- d. Requests for extensions to the period of performance shall be sent to the Grants Officer at least 30 days prior to the grant/cooperative agreement expiration date. Any request for extension after the expiration date shall not be honored.

Automated Standard Application For Payments (ASAP) Procedures

Unless otherwise provided for in the award document, payments under this award will be made using the Department of Treasury's Automated Standard Application for Payment (ASAP) system < <http://www.fms.treas.gov/asap/> >. Under the ASAP system, payments are made through preauthorized electronic funds transfers, in accordance with the requirements of the Debt Collection Improvement Act of 1996. In order to receive payments under ASAP, Grantees are required to enroll with the Department of Treasury, Financial Management Service, and Regional Financial Centers, which allows them to use the on-line method of withdrawing funds from their ASAP established accounts. The following information will be required to make

withdrawals under ASAP: (1) ASAP account number – the award number found on the cover sheet of the award; (2) Agency Location Code (ALC) – 31000001; and Region Code. Grantees enrolled in the ASAP system do not need to submit a "Request for Advance or Reimbursement" (SF-270), for payments relating to their award.

Audit Requirements

Organization-wide or program-specific audits shall be performed in accordance with the Single Audit Act Amendments of 1996, as implemented by OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

<http://www.whitehouse.gov/omb/circulars/a133/a133.html> Grantees are subject to the provisions of OMB Circular A-133 if they expend \$500,000 or more in a year in Federal awards.

The Form SF-SAC and the Single Audit Reporting packages for fiscal periods ending on or after January 1, 2008 must be submitted online.

1. Create your online report ID at <http://harvester.census.gov/fac/collect/ddeindex.html>
2. Complete the Form SF-SAC
3. Upload the Single Audit
4. Certify the Submission
5. Click "Submit."

Organizations expending less than \$500,000 a year are not required to have an annual audit for that year but must make their grant-related records available to NRC or other designated officials for review or audit.

III. Programmatic Requirements

Performance (Technical) Reports

a. The Grantee shall submit performance (technical) reports electronically to the NRC Project Officer and Grants Officer as specified in the special award conditions in the same frequency as the Federal Financial Report unless otherwise authorized by the Grants Officer.

b. Unless otherwise specified in the award provisions, performance (technical) reports shall contain brief information as prescribed in the applicable uniform administrative requirements 2 CFR §215.51 which are incorporated in the award.

Unsatisfactory Performance

Failure to perform the work in accordance with the terms of the award and maintain at least a satisfactory performance rating or equivalent evaluation may result in designation of the Grantee as high risk and assignment of special award conditions or other further action as specified in the standard term and condition entitled "Termination".

Failure to comply with any or all of the provisions of the award may have a negative impact on future funding by NRC and may be considered grounds for any or all of the following actions: establishment of an accounts receivable, withholding of payments under any NRC award, changing the method of payment from advance to reimbursement only, or the imposition of other special award conditions, suspension of any NRC active awards, and termination of any NRC award.

Other Federal Awards With Similar Programmatic Activities

The Grantee shall immediately provide written notification to the NRC Project Officer and the Grants Officer in the event that, subsequent to receipt of the NRC award, other financial assistance is received to support or fund any portion of the program description incorporated into the NRC award. NRC will not pay for costs that are funded by other sources.

Prohibition Against Assignment By The Grantee

The Grantee shall not transfer, pledge, mortgage, or otherwise assign the award, or any interest therein, or any claim arising thereunder, to any party or parties, banks, trust companies, or other financing or financial institutions without the express written approval of the Grants Officer.

Site Visits

The NRC, through authorized representatives, has the right, at all reasonable times, to make site visits to review project accomplishments and management control systems and to provide such technical assistance as may be required. If any site visit is made by the NRC on the premises of the Grantee or contractor under an award, the Grantee shall provide and shall require his/her contractors to provide all reasonable facilities and assistance for the safety and convenience of the Government representative in the performance of their duties. All site visits and evaluations shall be performed in such a manner as will not unduly delay the work.

IV. Miscellaneous Requirements

Criminal and Prohibited Activities

- a. The Program Fraud Civil Remedies Act (31 USC §§ 3801-3812), provides for the imposition of civil penalties against persons who make false, fictitious, or fraudulent claims to the Federal government for money (including money representing grant/cooperative agreements, loans, or other benefits.)
- b. False statements (18 USC § 287), provides that whoever makes or presents any false, fictitious, or fraudulent statements, representations, or claims against the United States shall be subject to imprisonment of not more than five years and shall be subject to a fine in the amount provided by 18 USC § 287.
- c. False Claims Act (31 USC 3729 et seq), provides that suits under this Act can be brought by the government, or a person on behalf of the government, for false claims under federal assistance programs.
- d. Copeland "Anti-Kickback" Act (18 USC § 874), prohibits a person or organization engaged in a federally supported project from enticing an employee working on the project from giving up a part of his compensation under an employment contract.

American-Made Equipment And Products

Grantees are hereby notified that they are encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided under this award.

Increasing Seat Belt Use in the United States

Pursuant to EO 13043, Grantees should encourage employees and contractors to enforce on-the-job seat belt policies and programs when operating company-owned, rented or personally-owned vehicle.

Federal Employee Expenses

Federal agencies are generally barred from accepting funds from a Grantee to pay transportation, travel, or other expenses for any Federal employee unless specifically approved in the terms of the award. Use of award funds (Federal or non-Federal) or the Grantee's provision of in-kind goods or services, for the purposes of transportation, travel, or any other expenses for any Federal employee may raise appropriation augmentation issues. In addition, NRC policy prohibits the acceptance of gifts, including travel payments for Federal employees, from Grantees or applicants regardless of the source.

Minority Serving Institutions (MSIs) Initiative

Pursuant to EOs 13256, 13230, and 13270, NRC is strongly committed to broadening the participation of MSIs in its financial assistance program. NRC's goals include achieving full participation of MSIs in order to advance the development of human potential, strengthen the Nation's capacity to provide high-quality education, and increase opportunities for MSIs to participate in and benefit from Federal financial assistance programs. NRC encourages all applicants and Grantees to include meaningful participations of MSIs. Institutions eligible to be considered MSIs are listed on the Department of Education website:
<http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html>

Research Misconduct

Scientific or research misconduct refers to the fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results. It does not include honest errors or differences of opinions. The Grantee organization has the primary responsibility to investigate allegations and provide reports to the Federal Government. Funds expended on an activity that is determined to be invalid or unreliable because of scientific misconduct may result in a disallowance of costs for which the institution may be liable for repayment to the awarding agency. The Office of Science and Technology Policy at the White House published in the Federal Register on December 6, 2000, a final policy that addressed research misconduct. The policy was developed by the National Science and Technology Council (65 FR 76260). The NRC requires that any allegation be submitted to the Grants Officer, who will also notify the OIG of such allegation. Generally, the Grantee organization shall investigate the allegation and submit its findings to the Grants Officer. The NRC may accept the Grantee's findings or proceed with its own investigation. The Grants Officer shall inform the Grantee of the NRC's final determination.

Publications, Videos, and Acknowledgment of Sponsorship

Publication of the results or findings of a research project in appropriate professional journals and production of video or other media is encouraged as an important method of recording and reporting scientific information. It is also a constructive means to expand access to federally funded research. The Grantee is required to submit a copy to the NRC and when releasing information related to a funded project include a statement that the project or effort undertaken was or is sponsored by the NRC. The Grantee is also responsible for assuring that every publication of material (including Internet sites and videos) based on or developed under an award, except scientific articles or papers appearing in scientific, technical or professional journals, contains the following disclaimer:

"This [report/video] was prepared by [Grantee name] under award [number] from [name of operating unit], Nuclear Regulatory Commission. The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the view of the [name of operating unit] or the US Nuclear Regulatory Commission."

**2010 Trade School Scholarship Program
Service Agreement**

1. This service agreement is required for all student recipients of scholarships (hereinafter referred to as the "recipient") funded by the U.S. Nuclear Regulatory Commission (NRC) through the _____ (name of institution).
2. This agreement confirms the recipient's obligations to maintain satisfactory academic progress and serve 6 months in nuclear-related employment for each full year of academic support. The employment may be with nuclear-related industry, State agencies, Department of Energy laboratories, the NRC or other Federal agencies, or academia in the recipients' sponsored fields of study.
3. The scholarship recipient must:
 - a. remain matriculated in the degree program for the field of study for which the scholarship was approved,
 - b. maintain satisfactory academic progress in the recipient's field of study, and
 - c. maintain a course load of at least 12 credit hours per semester as a full-time student in good standing.
4. If a recipient fails to maintain satisfactory academic progress, the scholarship will be terminated and the recipient could be obligated to repay the NRC the full amount of the scholarship/fellowship.
5. If a recipient receives any subsequent scholarship(s) through this program, the service obligation periods will be consecutive.
6. At the discretion of the NRC, the service obligation period may be delayed to allow the recipient to continue a subsequent degree program immediately following that sponsored under this program. For example, if a recipient receives a scholarship to earn a baccalaureate degree, he/she may request and be permitted to delay fulfilling their service obligation until after they complete a subsequent terminal degree program. Any such requests must be made to the NRC before a student enrolls in a subsequent degree program. If a student enrolls in a subsequent degree program before or without NRC approval, and the NRC does not subsequently approve the request, the NRC will not be held liable for any expenses incurred to dis-enroll, or for failure to otherwise meet the terms of this service obligation. Recipients only incur a service obligation to NRC for funded periods of study.
7. If the student receives no employment offers or does not accept any of the offers received, the student is not relieved of the service obligation, unless, pursuant to this service agreement, the student applies for and receives a waiver from the NRC. Implicit in the waiver request is data or explanation by the student that efforts to secure employment in a nuclear-related field were undertaken. This can be in the form of job searches, referrals, etc. Absent a waiver from the NRC, rejection of one or more job offers could trigger the service agreement obligation.

8. If a recipient voluntarily leaves the employment of an approved employer in a field related to nuclear power during the period of obligated post-academic service, the recipient may immediately become liable to the U.S. Government for repayment of the entire amount of the assistance provided under the scholarship for which the service obligation has not been fulfilled.
9. By accepting this scholarship/fellowship, I agree to provide the NRC with current contact information (address, telephone, email), and employment information, subject to the provisions of the Privacy Act, for as long as I remain under obligated service. This information will be used solely for the purposes of verifying appropriate nuclear related employment in compliance with the service obligation requirements of this service agreement. In accordance with the Privacy Act, providing this information is voluntary; however, failure to do so may result in removal from the scholarship/fellowship program and/or repayment of all scholarship/grant money received. Contact information should be reported to: eduscholar@nrc.gov.
10. By signing this agreement, the recipient certifies that he or she has read this agreement and agrees to all of the obligations it entails.

Scholarship Recipient

Date

Institution Program Coordinator

Date

NRC Office of Human Resources

Date