AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

2. AMENDMENT/MODIFICATION NO.
067

3. EFFECTIVE DATE
See Block 16C

4. REQUISITION/PURCHASE REQ. NO.
09SC003139

5. PROJECT NO. (If applicable)

6. ISSUED BY
Oak Ridge
U.S. Department of Energy
P.O. Box 2001
Oak Ridge TN 37831

7. ADMINISTERED BY (If other than Item 6)
Oak Ridge
U.S. Department of Energy
P.O. Box 2001
Oak Ridge TN 37831

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
OAK RIDGE ASSOCIATED UNIVERSITIES, INC.
P.O. BOX 117
OAK RIDGE TN 37830-6218

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
DE-AC05-06OR23100

10B. DATED (SEE ITEM 11)
12/21/2005

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Net Increase: $285,000.00

13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE
☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority)
☐ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
☐ D. OTHER (Specify type of modification and authority)

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Subj to Retent: N

Recovery TAS::89 5657

See Page 3.

Page 2 is for information only and does not represent any changes other than those detailed in Page 3-4.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Barbara J. Jackson

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED
06/08/2009

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NOT SPECIFIED /OTHER
<table>
<thead>
<tr>
<th>ITEM NO. (A)</th>
<th>SUPPLIES/SERVICES (B)</th>
<th>QUANTITY (C)</th>
<th>UNIT (D)</th>
<th>UNIT PRICE (E)</th>
<th>AMOUNT (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001</td>
<td>TECHNICAL SERVICES TO MANAGE AND DIRECT THE PROGRAMS OF ORISE</td>
<td>746,872,723.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOB: Destination
Period of Performance: 01/01/2006 to 12/31/2010

Change Item 00001 to read as follows (amount shown is the total amount):

Line item value is: $746,872,723.00
Incrementally Funded Amount: $668,809,407.83
Block 12 “ACCOUNTING AND APPROPRIATIONS DATA,” continued.

Funds Obligated for Recovery Act Projects:

All required accounting and appropriations data, including the Treasury Accounting Symbol and Fund Code is hereby provided as Attachment 1 to this modification.

Block 14 “DESCRIPTION OF AMENDMENT/MODIFICATION,” continued.

A. This modification is issued to obligate American Recovery and Reinvestment Act (Recovery Act) of 2009 funds for the purpose of technical support for independent characterization and verification of projects performed under the American Recovery and Reinvestment Act (ARRA).

B. Funds in the amount of $285,000.00 are hereby obligated in support of Recovery Act activities. Clause B.4 Obligation of Funds paragraph (a) is revised as follows:

"Pursuant to the clause in Section I, FAR 52.232-22 entitled "Limitation of Funds," total funds in the amount of $668,809,407.83 are obligated herewith and made available for payment of allowable costs and maximum fee to be incurred from the effective date of this contract through the period estimated to end December 31, 2010."

C. The specific Contractor Recovery Act Statement of Work, Milestones, Outcomes and Measures, and Deliverables funded by this modification are identified in the following referenced Work Authorization (provided as Attachment 2 to this modification):

<table>
<thead>
<tr>
<th>Work Authorization Number</th>
<th>Work Authorization Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF/01019/OR/36</td>
<td>Characterization, Verification and Technical Support of ARRA Work at the ETTP K-27 Building (Project Code 2002210)</td>
</tr>
</tbody>
</table>

D. The work described in this modification shall be performed using funds obligated under this contract, which have been appropriated under the Recovery Act of 2009, (Pub. L. 111-5), and as such, is subject to the special statutory conditions and the additional contractual terms and conditions that are identified in Modifications 063 and 065. The funds obligated hereunder shall only be used to accomplish the work as set forth in paragraph C. above and may not be used for any other purpose without the prior written consent of the Contracting Officer.

E. The Contractor shall complete all Recovery Act Work funded by this modification in accordance with Recovery Act requirements, including the required completion dates specified therein, and by the completion date identified in the approved work authorization for the activity.
F. In accordance with Clause H.40, Modification Definitization, which was incorporated into the contract by Modification 065, the contractor shall promptly begin negotiating with the Contracting Officer the terms of a definitive modification for the Recovery Act work directed under this modification.

G. All other terms and conditions remain unchanged.

(End of Standard Form 30)
### Financial Plan Report - Detail

**OR23100 - ORISE (RECOVERY ACT - 8909/105657)**

<table>
<thead>
<tr>
<th>Rpt Entity</th>
<th>Fund Code</th>
<th>Legacy Code</th>
<th>Leg Class</th>
<th>Legacy Use</th>
<th>Legacy Order Number</th>
<th>Beginning</th>
<th>BA</th>
<th>Revised</th>
<th>Total Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>470009</td>
<td>05998</td>
<td>VY</td>
<td>1111362</td>
<td>FT</td>
<td>FF0100000</td>
<td>000000</td>
<td></td>
<td>285,000.00</td>
<td>285,000.00</td>
</tr>
</tbody>
</table>


| Total for Program/Parent Code: FF010000 | 0.00 | 0.00 | 285,000.00 | 285,000.00 | 285,000.00 |
| Total for Fund Type: VY | 0.00 | 0.00 | 285,000.00 | 285,000.00 | 285,000.00 |
| Total for Recipient Code: OR | 0.00 | 0.00 | 285,000.00 | 285,000.00 | 285,000.00 |
| Total for Reporting Entity: 470009 | 0.00 | 0.00 | 285,000.00 | 285,000.00 | 285,000.00 |
| Total for OR23100 - ORISE (RECOVERY ACT - 8909/105657) | 0.00 | 0.00 | 285,000.00 | 285,000.00 | 285,000.00 |
## U.S. Department of Energy
### Contract Work Authorization

<table>
<thead>
<tr>
<th>1a. Project Title: Characterization and Verification in Support of ARRA Work at the ETTP K-27 Building (Project Code 2002210)</th>
<th>1b. Work Proposal Number (if applicable): NA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>2. ORO EM Program Point of Contract.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: J. T. Howell</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. ORO Budget Point of Contract.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: T. T. Blaine</td>
</tr>
</tbody>
</table>

| 4. Responsible Program: EM | 5. Responsible Secretarial Officer: Assistant Manager for Environmental Management |

| 6. Responsible Field Organization: Oak Ridge Office |

| 7a. Site and Facility Management Contractor: Oak Ridge Institute for Science and Education Oak Ridge Associated Universities | 7b. Contractor Point of Contact. Name S. J. Roberts | Telephone No: 865 241 8893 |

| 8. Work Authorization Number: FF/01019/OR/36 | 9. Revision Number:* 0 |

<table>
<thead>
<tr>
<th>10. Funding Authorized ($ in thousands).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget and Reporting Code: FF0110000</td>
</tr>
</tbody>
</table>


| 14. Statement of Work: This Work Authorization is issued for the sole purpose of authorizing work in support of the American Recovery and Reinvestment Act of 2009, (Pub. L. 111-5)(Recovery Act). All contract terms and conditions apply to the work identified herein, in particular contract provision H.39 applies. The work described in this work authorization shall be performed using funds obligated under the contract, appropriated under the Recovery Act and as such is subject to special statutory conditions. |

The Office of Environmental Management (EM) is committed to conducting all work authorized herein, in a manner that ensures protection of the workers, the public, and the environment. Protecting the workers, the public, and the environment is a direct and individual responsibility of all EM managers and EM-supported contractors. Funds provided by ORO EM will be applied as necessary to ensure that all supported activities are conducted safely and in an environmentally conscientious manner. Only work conducted in this manner will be supported. |

Specific Recovery Act Statement of Work:
Attachment A, Contractor Recovery Act Performance Requirements, identifies the Contractor Recovery Act Schedule or Milestones, Performance Outcomes and Measures and Deliverables for this work authorization. The contractor's performance will be evaluated by the Office of Environmental Management.

ORISE staff will perform the following tasks as directed by DOE:

- **General Technical and Health Physics/Nuclear Engineering Support**

  ORISE will provide full-time support to DOE ORO for an independent technical review of the data quality objectives (DQO) process for the K-27 building in the areas of criticality safety (including criticality incredibility criteria), non-destructive assay, document review, data review and evaluation of project records (including assistance in the evaluation of the confidence and completeness of the existing data), project management technical support, evaluation of the process for demonstrating meet appropriate WAC for EMWMM and/or NTS, and other activities related to this task as requested by DOE.

  The task will require periodic travel to the ETTP site to interview personnel affiliated with the demolition of the K-27 building as it impacts criticality safety issues; review historical radiological screening and NDA measurements; conduct routine site walk-downs and visual inspections of impacted areas; and observe and critique the radiological screening process (e.g., collection and recording of building radiological measurements) and characterization approach. ORISE will also assist in the review of contractor's approach for demonstrating that waste materials planned for disposition at the Environmental Management Waste Management Facility (EMWMM) meet the applicable waste acceptance criteria (WAC).

- **Ongoing QA Oversight**

  As requested by DOE ORO, ORISE will provide ongoing quality assurance oversight of BJC's implementation of activities cited in the task above. This task may consist of informal document or data reviews, and/or formal audit/assessment support. As needed, this will include ORISE-subcontracted staff with the requisite working knowledge. ORISE and/or its approved subcontractor will prepare its component of the required audit report.

  Due to the nature of these tasks, ORISE will work with the DOE ORO and the ORISE Safeguards and Security department to ensure sensitive (e.g., “official use only”) materials are handled in accordance with applicable policies and procedures.

- **Independent Field Verification of Criticality Incredible and Waste Characterization Results**

  ORISE will develop a Project-Specific Plan (PSP) to include the IV DQOs for the K-27 Building. The plan will describe a phased approach to evaluate the quantity and quality of the contractor's radiological data collected to satisfy both the criticality incredible and the EMWMM acceptance criteria. The IV will be designed to validate the contractor's assumptions related to contaminants of concern for given areas (piping and structural surfaces), level of uranium enrichment, and presence or absence of other interfering isotopes (Tc-99, natural uranium, etc.). Subtasks may include the following:

  - Development of PSP to address IV DQOs
HMS4 detector and software modifications (as applicable)
- Calibration and set-up of In-Situ Object Counting System (ISOCS) to determine area-specific level of uranium enrichment
- Radiochemical analysis of five-percent (approximately 100) of contractor collected pipe samples for inter-laboratory comparison
- Structural surface scans and direct measurements for alpha and beta activity in judgmentally selected locations to identify and quantify Tc-99 surface activity levels
- Radiochemical analysis of (approximately 100) structural samples to identify and quantify Tc-99 concentrations
- Scans and HMS4 measurements in ten percent of the process gas piping (PGP) cells

The scope of work to be supported by this work authorization is as follows:

**K-27 Demolition Ready**

(Attach a detailed description of work to be performed or reference to a work proposal, project plan, or similar document that describes the scope of work, milestones, deliverables, and performance measures/expectations.)

---

15. Reporting Requirements (Status reports, scientific and technical information or similar): The recipient of funding in the Work Authorization is responsible for meeting all reporting requirements established by the Department of Energy for activities funded by the American Recovery and Reinvestment Act of 2009.

16. Work Authorization Program Official

<table>
<thead>
<tr>
<th>Name (typed):</th>
<th>Signature:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. T. Howell</td>
<td>[Signature]</td>
<td>6/3/09</td>
</tr>
</tbody>
</table>

17. DOE Field Organization Official:

Name (typed): Michele G. Branton
Signature: [Signature]
Date: 6/4/09

18. Contractor's Authorized Representative:

Name (typed): Eric W. Abelquist
Signature: [Signature]
Date: 6/4/09

19. DOE Contracting Officer (or delegated representative):

Name (typed): Mary Lou Crow
Signature: [Signature]
Date: 6/4/09

* The revision number will consist of a 2-digit program identifier, 4-digit sequential number, and the last digit of the fiscal year.

---

**ATTACHMENT A – CONTRACTOR RECOVERY ACT PERFORMANCE REQUIREMENTS**

**Section A: Contractor Recovery Act Schedule or Milestone Requirement**

Complete independent validation of contractor programs

**Section B: Contractor Recovery Act Performance Outcomes and Measures**

Complete independent validation of contractor programs according to schedule
Section C: Contractor Recovery Act Deliverables
Independent Validation reports for facilities as requested by task manager