AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
   A No PR

2. AMENDMENT/MODIFICATION NO.
   109

3. EFFECTIVE DATE
   See Block 16C

4. REQUISITION/PURCHASE REQ. NO.
   

5. PROJECT NO. (If applicable)
   

6. ISSUED BY
   

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

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

7. ADMINISTERED BY (If other than Item 6)
   

   CODE 00518

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

9. AMENDMENT OF SOLICITATION NO.
   

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

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

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

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

   Tax ID Number: 62-0476816
   DUNS Number: 041152224
   Subj to Retent: N

   The purpose of this modification is to extend the period of performance for Work Authorization No.: 09/CJ000/00/01 (ARPA-E Early Harvest – Peer net), which was incorporated in the contract through modification no. 084, dated 09/01/2009. Attached is Revision No.: 05 to Work Authorization No.: 09/CJ000/00/01 which extends the period of performance to 03/21/2010.

   Continued ...

15A. NAME AND TITLE OF SIGNER (Type or print)
    Mary L. Crow

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED
    11/20/2009

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

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

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

NSN 7540-01-152-8070
Previous edition unusable
All other terms and conditions remain unchanged.  

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):

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SUPPLIES/SERVICES</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001</td>
<td>TECHNICAL SERVICES TO MANAGE AND DIRECT THE PROGRAMS OF ORISE</td>
<td></td>
<td></td>
<td></td>
<td>896,872,723.00</td>
</tr>
</tbody>
</table>

Line item value is: $896,872,723.00  

Incrementally Funded Amount: $770,909,741.53