AMENDMENT NUMBER 1
TO SOLICITATION NUMBER 511017

ISSUED BY:
Triad National Security, LLC (TRIAD)
Los Alamos National Laboratory
PO Box 1663, MS D447
Los Alamos, NM 87545

TRIAD SUBCONTRACT ADMINISTRATOR:
Maureen Armijo
Telephone No.: 505-665-2098
Fax No.: 505-665-8944
Email Address: m_armjo@lanl.gov

PROJECT NAME: Crossroads Supercomputer

CURRENT PROPOSAL / BID DUE DATE: 3/18/2019
REVISED PROPOSAL / BID DUE DATE: N/A

DESCRIPTION OF CHANGES:

Amendment 1 is written to update RFP form B and answer the following questions:

1. Update RFP form B (attached) to read:
   Crossroads System – anticipated funding stream
   Percentage of Total Funding
   FY19 FY20 FY21 FY22 FY23 FY24 FY25-26
   14% 17% 40% 12% 7% 5% 5%

2. Question 1: RFP Form B Schedules of Proposed Milestones and Payments discusses the anticipated funding stream for the Crossroads systems. Does the Crossroads Project Team anticipate installing a portion of the system later in CY22 to match the FY23 funding stream?
   Answer 1: The funding stream as originally distributed was incorrect. RFP Form B has been updated with the correct anticipated funding stream.

3. Question 2: We noticed that there’s mention of “The small business size standard for the listed NAICS code is 1,250 employees.” Does this signal that the procurement is limited to small business (small business set aside) or is a large business eligible to bid?
   Answer 2: This procurement is not a small business set aside. The size standard is listed for a supplier to determine if they are classified as Large or Small business based on whether the supplier has more or less than 1,250 employees.

4. Question 3: With respect to Section 3.3.10 of Exhibit D:
   Atomic compare-and-swap operations over 16-byte wide operands that comprise two double precision values or two 64-bit memory pointer operands
   Is the comparison implied here bitwise equality?
   Answer 3: The Crossroads team is interested in support for bit-wise equality comparisons of 16B contiguous blocks of data. Other operations are not required to be supported.
Failure to acknowledge this amendment, formerly called an addendum, in accordance with the Instructions to Offerors or Solicitation Provisions may result in rejection of your proposal / bid. Except as provided herein, all terms and conditions of the Request For Proposal / Solicitation, as heretofore changed, remain unchanged and in full force and effect.

**ISSUED ON BEHALF OF TRIAD BY:**

[Signature]  
Subcontract Administrator  
21/11/19  
Date

**RECEIPT ACKNOWLEDGED BY:**

[Signature & Title]  
Date

Company Name
RFP FORM B
SCHEDULES OF PROPOSED QUANTITIES AND PRICES

NOTE:
This form is for bid evaluation and will not be a part of the Subcontract. Offerors shall use the Milestone and Payment Schedules below, or reasonable facsimiles thereof, as a basis for proposing Milestone Schedules and Payment Amounts for the Crossroads System.

The total of the proposed payment amounts for each of the schedules below shall be equal to the proposed pricing within the corresponding Pricing Schedules of RFP Form A Schedule of Proposed Quantities and Prices.\(^1\) The Offeror shall propose a Target Completion Schedule for each milestone based on its capabilities and resources, as well as its proposed work breakdown and time sequence.\(^2\)

The Crossroads subcontract will be funded in multiple fiscal years. Although subject to change, percentages representing the anticipated funding stream are stated below. An Offeror's Schedules of Proposed Milestones and Payments for Crossroads shall conform to this anticipated funding stream.

<table>
<thead>
<tr>
<th>Crossroads System - anticipated funding stream</th>
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<tbody>
<tr>
<td>Percentage of Total Funding</td>
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<tr>
<td>FY19</td>
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<td>14%</td>
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Schedule 1.1
Crossroads Supercomputer System – Schedule of Proposed Milestones and Payments

<table>
<thead>
<tr>
<th>No.</th>
<th>Milestone Description (see SCHEDULES NOTES below)</th>
<th>Target Completion Schedule (# of months after Subcontract Award)</th>
<th>Payment Amounts</th>
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<tbody>
<tr>
<td>1.0</td>
<td>Initial Milestone</td>
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<td>2.0</td>
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<tr>
<td>2.0</td>
<td>Final Milestone</td>
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TOTAL OF PAYMENTS
(This Total of Payments must correspond to the Crossroads Supercomputer Price from Schedule 1.1 of RFP Form A Schedules of Proposed Quantities and Prices)

$ TBD
Offeror shall identify any issues that have potential for affecting any Target Completion Schedule proposed above and successful completion of the project. Offeror shall propose a resolution for each issue identified to be enacted if the issue happens to occur.

NOTES

1 It is not required that Offerors include Target Completion Schedules or payment amounts for Options within the pricing of these schedules of Proposed Milestones and Payments. A schedule for milestones and payments of Options will be negotiated only if and when Options are awarded.

2 The CONTRACTOR and the successful Offeror will negotiate Milestones and Payments Schedules based on CONTRACTOR requirements/funding profiles and the successful Offeror’s Schedules of Proposed Milestones and Payments.