AMENDMENT NUMBER 4
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:
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PROJECT NAME: Crossroads Supercomputer

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

DESCRIPTION OF CHANGES:
Amendment 4 is written to answer the following questions:

1. Question 1: With respect to Section 3.5.9 of Exhibit D, it states:

   The Offeror shall report, or project, the time to perform the following collective
   operations for 25%, 50%, and 100% of the compute partition nodes in the system and
   report on core occupancy during the operations measured by the communication
   benchmark specified on the Crossroads website for:

   • An 8 byte MPI_Allreduce operation.
   • An 8 byte per rank MPI_Allgather operation.

   The MPI source on the benchmark site does not appear to have such collectives. Will
   the Crossroads Project team be updating the tarball or will the Offeror be allowed to
   use something else?

   Answer 1: The Offeror is being asked to project the time required for the collective
   calls listed. The projected time provided in the response can be demonstrated using
   any benchmark selected by the Offeror, but the APIs to start the call must be
   compliant with the MPI standard and be reproducible. Any source code used must be
   supplied during acceptance.

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:

Subcontract Administrator

Date
RECEIPT ACKNOWLEDGED BY:

Signature & Title ___________________________ Date ____________

Company Name ____________________________