AMENDMENT OF SOLICITATION/MODIFICATION NO. 2 AMENDMENT/MODIFICATION NO. 3 EFFECTIVE DATE 4 AREQUISITION/FUNCHASE REQ. NO. 6 ESUED BY CODE 7. ADMINISTERED BY (If other than Item 6) U.S. Department of Energy/NNSA SC M&O Contract Support Division P.O. Box 5400 Albuquerque, NM 87185-5400 8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State, and ZIP Code) 9. AMENDMENT C Lawrence Livermore National Security, LLC Lawrence Livermore National Laboratory M/S L-019 7000 East Avenue Livermore, CA 94550 PR. DATE (SEE ITEM AMENDMENT OF SOLICITATION NO. 108 DATED (SEE ITEM AMENDMENT OF SOLICITATION NO. 108 DATED (SEE ITEM May 8, 2007 118 DATED (SEE ITEM May 8, 2007 119 DATED (SEE ITEM May 8, 2007 110 DATED (SEE ITEM May 8, 2	
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M&O Contract Support Division Albuquerque, NM 87185-5400 Albuquerque, NM 87185-5400 8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State, and ZIP Code) 9A. AMENDMENT C. SOLICITATION NO. Lawrence Livermore National Security, LLC Lawrence Livermore, CA 94550 9B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION ON DELACION OF RECEIVED A SECURITY ON DE-AC53-07NA27344 10B. DATED (SEE ITEL X 2 10A. MODIFICATION OF SOLICITATIONS 11B. THE HEAD (AND AD APPROPRIATION DATE (If required) see Analge an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and man undersonal see a streament of the solicitation and and the samediment, and is received prior to the operation by THE CHANCES ORDERS, IT MODIFICATION DATE (If required) see attached 13. THIS TERM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFICS THE CONTRACT (ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as demages in appropriation state, to SEE TORTH IN ITEM 14, PRESENTED IN TORTH 14, DESCRIPTION OF AMERICA SUB	
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Lawrence Livermore National Security, LLC Lawrence Livermore National Laboratory M/S L-019 7000 East Avenue Livermore, CA 94550 9B. DATED (SEE ITEE) X 10A. MODIFICATION OF ORDER NO. DE-AC52-07NA27344 10B. DATED (SEE ITEE) May 8, 2007 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. It tended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by once following methods: (a) By completing Items 8 and 25, 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 amenabers. FALURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED A THE PLACE DESIGNATED FOR THE RECEIPT OF OFFE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you des 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) see attached 13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. A. THIS CHANGE ORDER IS SUBJED PRISONANT OF (Specify authors) THE CHANGES (such as changes in appropriation data, etc.) SET PORTH IN ITEM 14, PURSUANT TO THE AUTHORTY OF FAR 43.105 (b). C. THE SUPPLEMENTAL ACREEMENT IS ENTERED INTO PURSUANT TO ATHORTY OF. X. CHANGE ORDER IS SUBJED PRISONANT OF CREATED TO THE AUTHORTY OF FAR 43.105 (b). C. THE SUPPLEMENTAL ACREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORTY OF. X. CHANGES ORDER (Type of modification and authority). E. IMPORTANT: Contractor X. is not, is required to sign this document and return _2 copie	NO.
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(Signature of person authorized to sign) (Signature of Contracting Officer)	ll force and effect.

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Modification No.: 645

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A. The following changes are hereby incorporated into the contract:

1. Part I– Clause H-6 is changed as follows:

Paragraph (d), the table is changed to update/add actual cost for the FY16 Parent Oversight Plan:

Contract Period	Actual Costs	Mod #
10/01/2007-09/30/2008	\$2,063,577	164
10/01/2008-09/30/2009	\$1,915,649.36	513
10/01/2009-09/30/2010	\$1,514,809.56	513
10/01/2010-09/30/2011	\$1,613,780.66	513
10/01/2011-09/30/2012	\$1,872,615.91	513
10/01/2012-09/30/2013	\$1,715,412.09	513
10/01/2013-09/30/2014	\$1,298,617.39	513
10/01/2014-09/30/2015	\$1,389,360.74	580
10/01/2015-09/30/2016	\$1,442,238.43	645
10/01/2016-09/30/2017		
10/01/2017-09/30/2018		
10/01/2018-09/30/2019		
10/01/2019-09/30/2020		
10/01/2020-09/30/2021		

2. Part I - Clause H-8 is changed as follows:

Paragraph (b) (1), the table is changed to update/add actual cost for FY16:

Contract Period	Estimated Cost	Actual Cost	Mod #
10/01/2007-09/30/2008	\$925,000	\$724,863.00	M-107
10/01/2008-09/30/2009	\$2,000,000	\$1,824,512.47	513
10/01/2009-09/30/2010	\$4,000,000	\$ 224,859.19	513
10/01/2010-09/30/2011	\$1,250,000	\$ 613,086.77	513
10/01/2011-09/30/2012	\$500,000	\$236,406.80	513
10/01/2012-09/30/2013	\$500,000	\$326,360.55	513
10/01/2013-09/30/2014	\$500,000	\$161,934.51	513
10/01/2014-09/30/2015	\$500,000	\$351,280.82	569
10/01/2015-09/30/2016	\$500,000	\$382,482.47	645
10/01/2016-09/30/2017	\$500,000		
10/01/2017-09/30/2018			
10/01/2018-09/30/2019			
10/01/2019-09/30/2020			
10/01/2020-09/30/2021			

- 3. Clause I-088 is changed to revise the date of the clause to April 2015 and change the title to Strategic Partnership Projects Program (SPP). All other references to Work for Others (WFO) throughout this clause have been changed to Strategic Partnership Projects (SPP).
- 4. Clause I-098 is changed to replace all references to Work for Others (WFO) throughout this clause to Strategic Partnership Projects (SPP).

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5. Clause I-099 is changed to replace all references to Work for Others (WFO) throughout this clause to Strategic Partnership Projects (SPP).

- 6. Clause I-114 is changed to revise the date of the clause to April 2015 and change the title to Strategic Partnership Projects Funding Authorization. All other references to Work for Others (WFO) throughout this clause have been changed to Strategic Partnership Projects (SPP).
- 7. Clause I-117 is changed to replace all references to Work for Others (WFO) throughout this clause to Strategic Partnership Projects (SPP).
- 8. Clause I-142 FAR 52.203.98 Prohibition of Contracting with Entities that require certain Internal Confidentiality Agreements-Representation (Deviation 2015-02) was added in Mod 619 per Policy Flash 2015-22.
- 9. Clause I-143 FAR 52.203-99 Prohibition of Contracting with Entities that require certain Internal Confidentiality Agreements (Deviation 2015-02) was added in Mod 619 per Policy Flash 2015-22.
- 10. Section J, Appendix B, Statement of Work has been updated to replace "Work for Others" to "Strategic Partnership Projects"
- 11. Section J, Appendix D, Key Personnel has been updated for the following: remove Dona L. Crawford as the Associate Director for Computation and Simulation and replacing her with Bruce A. Hendrickson, Ph.D.
- 12. Section J, Appendix E, Small Business Subcontracting Plan has been updated to add the revised FY17 Small Business Subcontracting Plan by reference.
- 13. Section J, Appendix F, Performance Evaluation and Measurement Plan for FY 2017 has been added.
- 14. Section J, Appendix G, List of Applicable Directives is revised as follows:

DOE Directive	Change	
DOE O 142.3A Chg 1 (MinChg)	Replaces DOE O 142.3A	
DOE O 151.1D	Updated to 1D.	
DOE O 200.1A Cng 1 (MinChg)	Updated to Chg 1 (MinChg)	
DOE O 221.1B	Updated to 1B	
DOE O 232.2A	Updated to A	
DOE O 413.3B Chg 3 (PgChg)	Updated to Chg 3 (PgChg)	
DOE O 415.1 Chg 2 (MinChg)	Updated to Chg 2 (MinChg)	
DOE O 442.2 Chg 1 (PgChg)	Updated to Chg 1 (PgChg)	
DOE O 470.4B Chg 2 (MinChg)	Updated to Chg 2 (MinChg)	
DOE O 470.6	Added	
DOE O 474.2 Chg 4 (PgChg)	Updated to Chg 4 (PgChg)	
DOE O 483.1B	Updated to B	
DOE O 551.1D, Chg 2 (Minor Revision)	Updated to Chg 2 (Minor Revision)	
DOE O 580.1A, Admin Chg 1	Deleted	
DOE-STD-3016-2016	Updated to 2016.	

15. Section J, Appendix J, Parent Oversight Plan has been updated to add FY18 Plan by reference.

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- 16. Note: Due to a Headquarters system error with STRIPES, there is no Mod number 634.
- B. All other terms and conditions remain unchanged.