

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
			1 40
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
0343	See Block 16C	19SC000954	
6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
Thomas Jefferson Site Office U.S. Department of Energy Thomas Jefferson Site Office 12000 Jefferson Avenue Newport News VA 23606	892431	Thomas Jefferson Site Office U.S. Department of Energy Thomas Jefferson Site Office 12000 Jefferson Avenue Newport News VA 23606	00523
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x) 9A. AMENDMENT OF SOLICITATION NO.	
Jefferson Science Associates, LLC Attn: ELIZABETH LAWSON 1201 New York Ave NW Ste 430 Washington DC 20005		9B. DATED (SEE ITEM 11)	
CODE 557181422		FACILITY CODE	
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-06OR23177	
		10B. DATED (SEE ITEM 13)	
		04/14/2006	

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 electronic communication 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 letter or electronic communication, provided each letter or electronic communication 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: \$30,266,500.00
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION 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) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: See item 14
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not is required to sign this document and return 1 copies to the issuing office.

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

MANAGEMENT AND OPERATION OF THE THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY.

MODIFICATION AUTHORITY:

Clause F.2 Award Term Incentive;
Clause H.015 Application of DOE Contractor Requirements Documents;
Clause I.091 DEAR 970.5204-2 Laws, Regulations, and DOE Directives (DEC 2000);
Clause I.121 DEAR 970.5232-4 Obligation of Funds (DEC 2000);
Policy Flash 2019-16; and
SC emails dated February 6, March 14, and March 19.

Continued ...

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

15A. NAME AND TITLE OF SIGNER (Type or print) Jerry P. Draayer, Chief Executive Officer Jefferson Science Associates, LLC	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner
15B. CONTRACTOR/OFF 	15C. DATE SIGNED April 29, 2019
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 4/29/19

Previous edition unusable (Signature of person authorized to sign)

NAME OF OFFEROR OR CONTRACTOR
Jefferson Science Associates, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>LIST OF CHANGES:</p> <p>Reason for Modification : Supplemental Agreement for work within scope</p> <p>Total Amount for this Modification: \$30,266,500.00</p> <p>New Total Amount for this Version: \$2,149,669,065.33</p> <p>Obligated Amount for this Modification: \$30,266,500.00</p> <p>New Total Obligated Amount for this Award: \$2,149,669,065.33</p> <p>Incremental Funded Amount changed from \$2,119,402,565.33 to \$2,149,669,065.33</p> <p>PLEASE SEE ATTACHED</p> <p>Payment: OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831</p>				

The purpose of this modification is to award and modify the contract as follows:

- Section F, paragraph (a) of clause F.1 *Period of Performance* is revised as follows:

“(a) This contract shall be effective as specified in Block no. 3 – Award Date of Standard Form 30, and shall continue up to and including May 31, 2021, unless sooner terminated according to its terms. The Contract may be further extended in accordance with Clause F.2 – AWARD TERM INCETIVE (SPECIAL).”
- Section I, Clause I.30A FAR 52.222-50 *Combating Trafficking in Persons (MAR 2015)* is deleted and replaced with I.30A FAR 52.222-50 *Combating Trafficking in Persons (JAN 2019)* as attached.
- Section I, Clause I.61 FAR 52.244-6 *Subcontracts for Commercial Items (OCT 2018)* is deleted and replaced with I.61 FAR 52.244-6 *Subcontracts for Commercial Items (JAN 2019)* as attached.
- Section I, Clause I.91 DEAR 970.5204-2 *Laws, Regulations, and DOE Directives (DEC 2000) (DEVIATION)* is deleted and replaced with Clause I.91 DEAR 970.5204-2 *Laws, Regulations, and DOE Directives (MAY 2018) (SC Alternate)* as attached.
- Section I, Clause I.97 DEAR 970.5217-1 *Strategic Partnership Projects Program (Non-DOE Funded Work) (April 23, 2015)* is deleted and replaced with Clause I.97 DEAR 970.5217-1 *Strategic Partnership Projects Program (Non-DOE Funded Work) (April 23, 2015) (SC Alternate)* as attached.
- Section I, Clause I.106 DEAR 970.5227-2 *Rights in Data – Technology Transfer (DEC 2000) (DEVIATION: JUL 2006 – AL 2006-10)* is deleted and replaced with Clause I.106 DEAR 970.5227-2 *Rights in Data – Technology Transfer (DEC 2000) (SC Alternate)* as attached.
- Add the following Directive to List B in Appendix E:
 - DOE O 442.1B, Department of Energy Employee Concerns Program (01/31/19)

Note 23: DOE O 442.1B, add the following requirements to Section 2 of the CRD:

“Ensure that all employees and subcontractor employees are notified annually that they have the right to report environment, safety, and health technical concerns that have not been resolved through routine work processes through the Department of Energy Differing Professional Opinion (DPO) process [the DOE DPO process can be found in Attachment 2 to DOE O 442.2 (found at <https://www.directives.doe.gov/directives-documents/400-series/0442.2-BOrder-chg1-pgchg>) and at <https://energy.gov/ehss/doe-differing-professional-opinions>]. The notification must provide points of contact (name,

phone number and email addresses of DPO Managers) as listed on the DOE DPO webpage, as well as the DOE DPO web page address.”

- Delete the following Directive to List B in Appendix E:
 - DOE O 442.1A, Department of Energy Employee Concerns Program (06/06/01)
- Revise the funds on the contract as follows:

The total amount under this contract is increased \$30,266,500.00 from \$2,119,402,565.33 to \$2,149,669,065.33.

As a result, the first sentence of paragraph (a) of Clause I.121, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

FT	Program	Obj Cl	Local Use or SPP	B&R Code	Change	FY 2019 Amount	Cumulative Contract Amount
1W	1720614	25400	0496240	650102000 AGRJSA-2006S015	0.00	0.00	0.00
1W	1720614	25400	0483807	650102000 AGRSURA-2004S002	0.00	0.00	121,834.00
1W	1720614	25400	0507537	650102000 JSA2014S008	0.00	(13,587.00)	281,413.00
1W	1720614	25400	0495243	650102000 JSA2009S005	0.00	0.00	29,874.00
1W	1720614	25400	0495869	650102000 JSA2010-S001	0.00	0.00	119,789.00
1W	1720616	25400	0496166	650201010 AGRJSA2006S008	0.00	0.00	36,482.00
1W	1720616	25400	0493924	650201010 JSA-2008S010	0.00	0.00	29,388.00
1W	1720616	25400	0493925	650201010 JSA-2008S012	0.00	0.00	29,453.00
1W	1720616	25400	0494086	650201010 JSA2008S014	0.00	0.00	15,360.00
1W	1720616	25400	0494314	650201010 JSA2008S017	0.00	0.00	669,204.00
1W	1720616	25400	0496006	650201010 JSA2009S013	0.00	0.00	26,783.00
1W	1720616	25400	0496007	650201010 JSA2009S014	0.00	0.00	27,658.00
1W	1720616	25400	0496046	650201010 JSA2009S017	0.00	0.00	3,915.00
1W	1720616	25400	0503229	650201010 JSA2009S007	0.00	0.00	23,870.00
1W	1720616	25400	0497873	650201010 JSA-2010S002	0.00	0.00	188,624.00
1W	1720616	25400	0498970	650201010 JSA2010S015	0.00	0.00	29,615.00
1W	1720616	25400	0498969	650201010 JSA2010S016	0.00	0.00	27,000.00
1W	1720616	25400	0499791	650201010 JSA2010S017	0.00	0.00	497,903.00
1W	1720616	25400	0498967	650201010 JSA2010S019	0.00	0.00	175,883.00
1W	1720616	25400	0499663	650201010 JSA2011S001-001	0.00	0.00	1,888,333.00
1W	1720616	25400	0499803	650201010 JSA2011S002	0.00	0.00	18,840.00
1W	1720616	25400	0499235	650201010 JSA2011S003	0.00	0.00	18,195.00
1W	1720616	25400	0499389	650201010 JSA2011S008	0.00	0.00	47,648.00
1W	1720616	25400	0499388	650201010 JSA-2011S009	0.00	0.00	187,492.00
1W	1720616	25400	0499802	650201010 JSA2011S015	0.00	0.00	108,135.00
1W	1720616	25400	0500230	650201010 JSA2011S018	0.00	0.00	17,903.00
1W	1720616	25400	0500868	650201010 JSA2011S020	0.00	0.00	30,000.00
1W	1720616	25400	0500866	650201010 JSA2011S021	0.00	0.00	30,000.00
1W	1720616	25400	0500867	650201010 JSA2011S025	0.00	0.00	221,519.00
1W	1720616	25400	0501458	650201010 JSA2012S001	0.00	0.00	48,562.00
1W	1720616	25400	0501681	650201010 JSA2012S004	0.00	0.00	60,522.00
1W	1720616	25400	0502303	650201010 JSA2012S005	0.00	0.00	29,819.00
1W	1720616	25400	0502915	650201010 JSA2012S007	0.00	0.00	196,615.00
1W	1720616	25400	0503044	650201010 JSA2012S015	0.00	0.00	977,334.95
1W	1720616	25400	0504212	650201010 JSA2013S009	0.00	(278.00)	8,890.00
1W	1720616	25400	0506027	650201010 JSA2013S011	0.00	0.00	30,004.00
1W	1720616	25400	0503896	650201010 JSA2013S012	0.00	0.00	47,932.00
1W	1720616	25400	0504060	650201010 JSA2013S013	0.00	0.00	46,762.00
1W	1720616	25400	0505862	650201010 JSA2013S014	0.00	(1,871.00)	198,129.00
1W	1720616	25400	0504329	650201010 JSA2013S015	0.00	0.00	294,671.00
1W	1720616	25400	0508328	650201010 JSA2014S001	0.00	0.00	139,011.00
1W	1720616	25400	0505997	650201010 JSA2014S002	0.00	0.00	1,904,950.00
1W	1720616	25400	0509546	650201010 JSA2015S005	0.00	0.00	42,891.00
1W	1720616	25400	0509545	650201010 JSA2015S006	0.00	0.00	43,825.00
1W	1720616	25400	0505654	650201010 JSA2013W019	0.00	0.00	0.00
1W	1720616	25400	0509348	650201010 JSA2015S007	0.00	(145.00)	23,175.00
1W	7400168	25400	0503044	453065021 JSA2012S015	0.00	0.00	301,510.68
1W	7400168	25400	0505862	453065021 JSA2013S014	0.00	(2,089.00)	97,911.00
1W	7400168	25400	0511364	453065021 JSA2013S018	0.00	0.00	15,000.00
1W	7400168	25400	0505997	453065021 JSA2014S002	0.00	0.00	306,585.00
1W	7400168	25400	0511839	453065021 JSA2015CERN	0.00	(2,885.10)	185,445.00

FT	Program	Obj Cl	Local Use or SPP	B&R Code	Change	FY 2019 Amount	Cumulative Contract Amount
1W	7400168	25400	0511095	453065021 JSA2015S003	0.00	0.00	122,445.00
1W	7400168	25400	0509348	453065021 JSA2015S007	0.00	(1,078.00)	124,560.00
1W	7400168	25400	0516636	453065021 ORJSA2017S015	0.00	56,360.00	299,660.00
1W	7400168	25400	0514251	453065021 JSA2016S012	0.00	(867.00)	44,133.00
1W	7400168	25400	0516888	453065021 JSA2016S014	0.00	138,640.47	174,890.47
1W	7400168	25400	0515220	453065021 JSA2017S011	0.00	0.00	48,999.00
1W	7400168	25400	0516295	453065021 JSA2017S016	25,000.00	50,000.00	125,000.00
1W	7400168	25400	0510556	453065021 JSA2015S008	0.00	0.00	11,053.00
1W	7400168	25400	0512074	453065021 JSA2016S002	0.00	0.00	60,055.00
1W	7400168	25400	0511847	453065021 JSA2016S003	0.00	0.00	23,209.00
1W	7400168	25400	0512244	453065021 JSA2016S004	0.00	0.00	255,000.00
1W	7400168	25400	0517504	453065021 ORJSA2016S005	0.00	(1,065.00)	35,935.00
1W	7400168	25400	0518172	453065021 ORJSA2018S005	0.00	10,000.00	30,000.00
1W	7400168	25400	0518960	453065021 ORJSA2018S007	0.00	0.00	175,000.00
1W	7400168	25400	0519590	453065021 ORJSA2018S009	22,500.00	45,000.00	45,000.00
1W	7400168	25400	0519758	453065021 ORJSA2019S001	0.00	12,500.00	12,500.00
1Y	1720614	25400	0496240	650102000 AGRJSA-2006S015	0.00	0.00	221,958.00
1Y	1720614	25400		650102000 AGRSURA2002S003	0.00	0.00	0.00
1Y	1720614	25400	0483807	650102000 AGRSURA-2004S002	0.00	0.00	83,671.00
1Y	1720614	25400		650102000 AGRSURA-2005S001	0.00	0.00	4,506.00
1Y	1720614	25400		650102000 AGRSURA-2005S004	0.00	0.00	15,637.00
1Y	1720614	25400		650102000 AGRSURA-2005S005	0.00	0.00	42,159.00
1Y	1720616	25400	0496166	650201010 AGRJSA2006S008	0.00	0.00	4,891.00
2W	7400114	25400	0510664	453060032 JSA2013W020	0.00	0.00	51,060.00
2W	7400116	25400	0509161	453060034 ORJSA2011W014B	0.00	0.00	1,693,750.00
2W	7400116	25400	0502366	453060034 JSA-2011W014A	0.00	0.00	1,477,000.00
2W	7400116	25400	0513660	453060034 JSA-2016W008	0.00	(1,597.00)	91,461.00
2W	7400116	25400	0513661	453060034 JSA-2016W009	0.00	(761.00)	67,361.00
2W	7400118	25400	0507633	453060036 ORJSA2014W011	0.00	85,000.00	135,000.00
2W	7400118	25400	0501540	453060036 JSA2012W003	0.00	0.00	1,627,513.00
2W	7400118	25400	0508329	453060036 JSA2015W002	0.00	0.00	982,743.75
2W	7400118	25400	0511649	453060036 JSA2016W001	0.00	0.00	46,275.00
2W	1720572	25400	0492981	600301010 AGRJSA2006W012	0.00	0.00	0.00
2W	1720572	25400	0496459	600301010 AGRJSA-2006W012	0.00	0.00	0.00
2W	1720572	25400	0490137	600301010 AGRSURA2005W008	0.00	0.00	0.00
2W	1720572	25400	0494417	600301010 JSA2008W0006	0.00	0.00	28,383.00
2W	1720572	25400	0493299	600301010 JSA-2008W0006	0.00	0.00	0.00
2W	1720572	25400	0494917	600301010 JSA2009W002	0.00	0.00	290,594.00
2W	1720572	25400	0495208	600301010 JSA-2009-W003	0.00	0.00	47,992.00
2W	1720572	25400	0494916	600301010 JSA2009W004	0.00	0.00	1,809,844.00
2W	1720572	25400	0499390	600301010 JSA-2010W014	0.00	0.00	39,675.00
2W	1720572	25400	0499357	600301010JSA2011W010	0.00	0.00	24,333.00
2W	1720572	25400	0500925	600301010JSA2011W026	0.00	0.00	48,989.00
2W	1720572	25400	0502795	600301010JSA2012W016	0.00	0.00	24,253.00
2W	1720572	25400	0507067	600301010JSA2014W007	0.00	0.00	48,517.00
2W	1720573	25400	0500643	600301020JSA2011W023	0.00	0.00	13,279.00
2W	1720573	25400	0483809	600301020 AGRSURA2003W003	0.00	0.00	0.00
2W	1720575	25400	0494478	600303000 JSA-2011W014	0.00	0.00	9,000,000.00
2W	1720575	25400	0502366	600303000 JSA-2011W014A	0.00	0.00	2,390,000.00
2W	1720575	25400	0509161	600303000 JSA-2011W014B	0.00	0.00	3,950,000.00
2W	1720575	25400	0503643	600303000 JSA2013W010	0.00	0.00	2,996,251.00
2W	1720575	25400	0505654	600303000 JSA2013W019	0.00	0.00	88,120.00
2W	1720577	25400	0490395	600305000 AGRSURA2005W005	0.00	0.00	6,590.00
2W	1720577	25400	0494290	600305000 JSA2008-W016	0.00	0.00	5,057.00
2W	1720577	25400	0498316	600305000 JSA2010-W013	0.00	0.00	455,000.00
2W	1720577	25400	0499234	600305000 JSA2010W020	0.00	0.00	273,114.00
2W	1720577	25400	0500048	600305000 JSA2011W019	0.00	0.00	10,558.00
2W	1720577	25400	0501712	600305000 JSA2012W002	0.00	0.00	128,533.00

FT	Program	Obj Cl	Local Use or SPP	B&R Code	Change	FY 2019 Amount	Cumulative Contract Amount
2W	1720577	25400	0501540	600305000 JSA2012W003	0.00	0.00	3,449,126.00
2W	1720577	25400	0502326	600305000 JSA2012W011	0.00	0.00	16,516.00
2W	1720577	25400	0504048	600305000 JSA2013W016	0.00	0.00	19,302.00
2W	1720577	25400	0507633	600305000 JSA2014W011	0.00	0.00	225,000.00
2W	1720577	25400	0508329	600305000 JSA2015W002	0.00	0.00	1,261,942.00
2W	1720577	25400	0494980	600305000 SURA2005W005	0.00	0.00	24,695.00
2W	1720578	25400	0492957	600306000 AGRSURA2006W009	0.00	0.00	0.00
2Y	1720572	25400	0496459	600301010 AGRJSA-2006W012	0.00	0.00	275,819.00
2Y	1720572	25400		600301010 AGR2006W004SAIC001	0.00	0.00	62,193.00
2Y	1720572	25400	0490137	600301010 AGRSURA2005W008	0.00	0.00	0.00
2Y	1720573	25400	0483809	600301020 AGRSURA2003W003	0.00	0.00	2,013.00
2Y	1720573	25400		600301020 AGRSURA2004W004	0.00	0.00	0.00
2Y	1720577	25400		600305000 AGR2004W002W	0.00	0.00	42,754.00
2Y	1720577	25400		600305000 AGRSURA2005W001	0.00	0.00	160,168.00
2Y	1720577	25400	0490395	600305000 AGRSURA2005W005	0.00	0.00	171,024.00
2Y	1720577	25400		600305000 AGRSURA-2006W005	0.00	0.00	360,602.00
2Y	1720577	25400		600305000 AGRSURA-2006W007	0.00	0.00	21,077.00
2Y	1720578	25400		600306000 AGRSURA-2004W001	0.00	0.00	0.00
2Y	1720578	25400		600306000 AGRSURA-2006W009	0.00	0.00	42,156.00
2Z	1720572	25400	0492981	600301010 AGRJSA2006W012	0.00	0.00	148,062.00
2Z	1720572	25400	0493299	600301010 JSA-2008W0006	0.00	0.00	71,164.00
2Z	1720572	25400		600301010 JSA2008W007	0.00	0.00	56,190.00
2Z	1720572	25400	0493707	600301010 JSA2008W009	0.00	0.00	46,701.00
2Z	1720572	25400		600301010 JSA2008W010	0.00	0.00	2,545.00
2Z	1720572	25400	0493544	600301010 JSA2008W011	0.00	0.00	9,357.00
2Z	1720578	25400	0492957	600306000 AGRSURA2006W009	0.00	0.00	5,952.00
3T	1720292	25400	0482420	400403109 AGRSURA-2001-W004	0.00	0.00	(5,450.00)
3T	1720292	25400	0499145	400403109 AGRJSA2010W018	0.00	0.00	719,600.00
3T	1720292	25400	0493300	400403109 JSA2008W005	0.00	0.00	1,449,971.00
3T	1720292	25400	0494992	400403109 JSA2009W008	0.00	0.00	1,027,138.00
3T	1720297	25400	0485465	400403209 AGRSURA05W004	0.00	0.00	443,526.00
3T	1720297	25400		400403209 AGRSURA2005W007	0.00	0.00	100,309.00
3T	1720303	25400	0503028	400403309 AGRJSA12IA012	0.00	0.00	1,696,226.00
3T	1720303	25400	0503181	400403309 AGRJSA12IA012A	0.00	0.00	523,140.00
3T	1720303	25400	0499086	400403309 AGRJSA2011W005	0.00	0.00	2,988,283.00
3T	1720303	25400	0499323	400403309 AGRJSA2011W005A	0.00	0.00	21,540.00
3T	1720303	25400	0500102	400403309 AGRJSA2011W005B	0.00	0.00	70,115.00
3T	1720303	25400	0501141	400403309 AGRJSA2011W005C	0.00	0.00	6,227,664.00
3T	1720303	25400	0502692	400403309 AGRJSA2011W005D	0.00	0.00	58,873.00
3T	1720303	25400	0499088	400403309 AGRJSA2011W006	0.00	0.00	190,863.00
3T	1720303	25400	0501347	400403309 AGRJSA2011W006A	0.00	0.00	154,127.00
3T	1720303	25400	0499144	400403309 AGRJSA2011W007	0.00	0.00	299,833.00
3T	1720303	25400	0499324	400403309 AGRJSA2011W011	0.00	0.00	37,180.00
3T	1720303	25400	0503559	400403309 AGRJSA2012IA012B	0.00	0.00	58,529.00
3T	1720303	25400	0504980	400403309 AGRJSA2012IA012C	0.00	0.00	21,765.00
3T	1720303	25400	0505870	400403309 AGRJSA2012IA012D	0.00	0.00	144,781.00
3T	1720303	25400	0506248	400403309 AGRJSA2012IA012E	0.00	0.00	43,358.00
3T	1720303	25400	0506387	400403309 AGRJSA2012IA012F	0.00	0.00	73,877.00
3T	1720303	25400	0508105	400403309 AGRJSA2012IA012G	0.00	0.00	149,490.00
3T	1720303	25400	0510432	400403309 AGRJSA2012IA012H	0.00	0.00	73,246.00
3T	1720303	25400	0472518	400403309 AGRN00014-01-F-0171G	0.00	0.00	564.00
3T	1720303	25400	0484186	400403309 AGRN00014-04-F-0171N	0.00	0.00	(542.00)
3T	1720303	25400	0484187	400403309 AGRN00014-04-F-0171P	0.00	0.00	0.00
3T	1720303	25400	0490864	400403309 AGRN00014-04-F0171AA	0.00	0.00	255,896.00
3T	1720303	25400	0491455	400403309 AGRN00014-04-F0171AB	0.00	0.00	3,033,443.00
3T	1720303	25400	0491618	400403309 AGRN00014-04-F0171AC	0.00	0.00	124,113.00
3T	1720303	25400	0491619	400403309 AGRN00014-04-F0171AD	0.00	0.00	1,390,511.00

FT	Program	Obj Cl	Local Use or SPP	B&R Code	Change	FY 2019 Amount	Cumulative Contract Amount
3T	1720303	25400	0491704	400403309 AGRN00014-04-F0171AE	0.00	0.00	147,851.00
3T	1720303	25400	0491705	400403309 AGRN00014-04-F0171AF	0.00	0.00	77,061.00
3T	1720303	25400	0496189	400403309 AGRN00014-04-F0171AG	0.00	0.00	2,908,725.00
3T	1720303	25400	0496602	400403309 AGRN00014-04-F0171AH	0.00	0.00	3,397,389.00
3T	1720303	25400	0496783	400403309 AGRN00014-04-F0171AI	0.00	0.00	847,445.00
3T	1720303	25400	0496995	400403309 AGRN00014-04-F0171AJ	0.00	0.00	159,411.00
3T	1720303	25400	0496996	400403309 AGRN00014-04-F0171AK	0.00	0.00	156,952.00
3T	1720303	25400	0484337	400403309 AGRN00014-04-F-0171Q	0.00	0.00	(1,355.00)
3T	1720303	25400	0483765	400403309 AGRN00014-04-F-0171M	0.00	0.00	(18.00)
3T	1720303	25400	0485294	400403309 AGRN00014-04-F-0171U	0.00	0.00	2,607.00
3T	1720303	25400	0485295	400403309 AGRN00014-04-F-0171V	0.00	0.00	25,413.00
3T	1720303	25400	0485815	400403309 AGRN00014-04-F-0171W	0.00	0.00	1,466.00
3T	1720303	25400	0490728	400403309 AGRN00014-04-F-0171X	0.00	0.00	7,071.00
3T	1720303	25400	0490818	400403309 AGRN00014-04-F-0171Y	0.00	0.00	4,590.00
3T	1720303	25400	0490878	400403309 AGRN00014-04-F-0171Z	0.00	0.00	99,307.00
3T	1720303	25400	0493120	400403309 AGRNONRMOA-2008C	0.00	0.00	67,887.00
3T	1720303	25400	0493174	400403309 AGRNONRMOA-2008D	0.00	0.00	139,380.00
3T	1720303	25400	0493193	400403309 AGRNONRMOA-2008E	0.00	0.00	1,870,735.00
3T	1720303	25400	0493366	400403309 AGRNONRMOA-2008F	0.00	0.00	244,330.00
3T	1720303	25400	0493858	400403309 AGRNONRMOA-2008G	0.00	0.00	69,065.00
3T	1720303	25400	0493883	400403309 AGRNONRMOA2008H	0.00	0.00	910,623.00
3T	1720303	25400	0493927	400403309 AGRNONRMOA2008I	0.00	0.00	1,354,241.00
3T	1720303	25400	0493970	400403309 AGRNONRMOA2008J	0.00	0.00	47,275.00
3T	1720303	25400	0494355	400403309 AGRNONRMOA2008L	0.00	0.00	347,365.00
3T	1720303	25400	0494356	400403309 AGRNONRMOA2008M	0.00	0.00	194,020.00
3T	1720303	25400	0498457	400403309 AGRNONRMOA2008U	0.00	0.00	45,429.00
3T	1720303	25400	0494418	400403309 AGRNONRMOA2008N	0.00	0.00	2,248,581.00
3T	1720303	25400	0495047	400403309 AGRNONRMOA2008O	0.00	0.00	423,454.00
3T	1720303	25400	0495607	400403309 AGRNONRMOA2008P	0.00	0.00	266,982.00
3T	1720303	25400	0495608	400403309 AGRNONRMOA2008Q	0.00	0.00	1,940,643.00
3T	1720303	25400	0498046	400403309 AGRNONRMOA2008R	0.00	0.00	277,899.00
3T	1720303	25400	0498054	400403309 AGRNONRMOA2008S	0.00	0.00	107,766.00
3T	1720303	25400	0498388	400403309 AGRNONRMOA2008T	0.00	0.00	136,298.00
3T	1720303	25400	0492199	400403309 AGRONRMOA2008	0.00	0.00	1,941,503.00
3T	1720303	25400	0492286	400403309 AGRONRMOA-2008A	0.00	0.00	1,938,446.00
3T	1720303	25400	0492379	400403309 AGRONRMOA-2008B	0.00	0.00	22,609.00
3T	1720303	25400		400403309 AGRSURA03W002	0.00	0.00	(17,082.30)
3T	1720303	25400	0482421	400403309 AGRSURA2004W003	0.00	0.00	2,621.00
3T	1720303	25400		400403309 AGRSURA2006W011	0.00	0.00	94,443.00
3W	1720338	25400	0496864	400409900 AGRJSA2007W002	0.00	0.00	(322.16)
3W	1720338	25400	0496790	400409900 AGRJSA2007W005	0.00	0.00	384,124.00
3W	1720338	25400	0492518	400409900 AGRJSA2008W002	0.00	0.00	0.00
3W	1720338	25400		400409900 94158	0.00	0.00	870,254.37
3W	1720338	25400	0502117	400409900 2012IA010	0.00	0.00	103,743.00
3W	1720338	25400	0510414	400409900 JSA15IA001A	0.00	0.00	56,910.00
3W	1720338	25400	0508364	400409900 JSA2015IA001	0.00	0.00	55,731.00
3W	1720338	25400	0494158	400409900 AGRJSA2007W005	0.00	0.00	(0.37)
3W	1720338	25400	0495345	400409900 JSA2009W009	0.00	0.00	144,949.00
3W	1720338	25400	0499703	400409900 JSA2011W013	0.00	0.00	26,902.00
3W	7400040	25400	0514957	453040135 ORJSA2017IA0014	0.00	0.00	77,731.07
3W	7400182	25400	0514026	453040196 ORJSA2017IA0007	0.00	0.00	37,504.00
3W	7400182	25400	0514597	453040196 ORJSA2015IA001B	0.00	0.00	61,368.93
3W	7400182	25400	0510414	453040196 ORJSA15IA001A	0.00	0.00	74,637.00
3W	7400168	25400	0512244	453065021 JSA2016S004	0.00	0.00	0.00
3Y	1720330	25400		400407000 AGRSURA2004W007	0.00	0.00	4,068.00
3Y	1720338	25400	0496864	400409900 AGRJSA2007W002	0.00	0.00	96,675.00
3Y	1720338	25400	0496790	400409900 AGRJSA2007W005	0.00	0.00	545,208.00

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3Y	1720338	25400	0492518	400409900 AGRJSA2008W002	0.00	0.00	188,782.00
3Y	1720338	25400		400409900 AGRSURA2005W003	0.00	0.00	0.00
3Z	1720338	25400	0496790	400409900 AGRJSA2007W005	0.00	0.00	114,177.00
SA	1721221	25400	0494689	WN0219050 JSAKEK	0.00	0.00	0.00
	1721224	25400	0508369	WN0219080 JSAAIP	0.00	0.00	0.00
TF	1001221	25400		GD2540600	0.00	0.00	64,793.00
WA	2924033	25400		39KB00000P	0.00	0.00	0.00
WA	2924033	32001	0472770	39KB00000P	0.00	0.00	245,500,150.00
WA	2923489	32001		39KB01000P	0.00	0.00	0.00
WA	2923567	32001	0472469	39KG01000P	0.00	0.00	96,799.00
WA	2924171	32001	0473071	39KG01000P	0.00	0.00	72,056,566.00
WA	2924279	32001		39KG02000P	0.00	0.00	29,200,000.00
WA	2923652	25400		FS1001000	163,000.00	1,004,000.00	10,789,273.00
WA	2923653	25400		FS1002000	37,000.00	228,000.00	2,765,888.00
WA	2923653	32002		FS1002000	0.00	0.00	328,913.00
WA	2923653	32002		FS1002000 (0472376)	0.00	0.00	19,475.00
WA	2923654	25400		FS1004000	0.00	0.00	228,271.00
WA	2923655	25400		FS1005000	209,000.00	1,293,000.00	9,705,754.00
WA	2923656	25400		FS1006000	17,000.00	105,000.00	602,000.00
WA	2923657	25400		FS1007000	5,000.00	31,000.00	192,000.00
WA	2923658	25400		FS1009000	29,000.00	179,000.00	1,605,788.00
WA	2923659	25400		KA1101010	0.00	0.00	0.00
WA	2923685	25400		KA1201020	0.00	0.00	338,168.00
WA	2923706	25400		KA1401030	0.00	0.00	781,255.00
WA	2923707	25400		KA1401040	0.00	0.00	205,868.00
WA	2923707	31003		KA1401040	0.00	0.00	1,247,855.00
WA	2924152	25400		KA1401050	0.00	0.00	0.00
WA	2924152	31003		KA1401050	0.00	0.00	1,645,614.00
WA	2923709	25400		KA1501020	0.00	0.00	76,725.00
WA	2923712	25400		KA1502020	0.00	0.00	435,462.00
WA	2924034	25400		KA1502021	0.00	0.00	8,254,684.00
WA	2923713	25400		KA1502030	0.00	0.00	19,928.00
WA	2924325	25400		KA2201020	0.00	0.00	0.00
WA	2924325	31003		KA2201020	0.00	0.00	663,258.00
WA	2924356	25400		KA2401019	0.00	0.00	9,517.00
WA	2924363	25400		KA2403013	0.00	(6,170.00)	964,552.00
WA	2924363	31003		KA2403013	0.00	0.00	897,278.00
WA	2924366	25400		KA2501012	0.00	0.00	330,000.00
WA	2924369	25400		KA2501022	0.00	(69.00)	249,931.00
WA	2924380	25400		KA2601020	0.00	0.00	629,590.00
WA	2924382	25400		KA2602010	0.00	0.00	260,000.00
WA	2923718	25400		KB0101011	0.00	0.00	0.00
WA	2923720	25400		KB0101021 Research	1,238,000.00	5,618,000.00	89,761,577.00
WA	2924154	25400		KB0101052	0.00	854,000.00	7,826,500.00
WA	2923723	25400		KB0102011 Accelerator Ops	15,156,000.00	69,142,005.00	707,742,920.24
WA	2923723	25400	473340	KB0102011	0.00	0.00	11,652.00
WA	2923723	31003		KB0102011 (EQU)	59,000.00	309,000.00	5,498,000.00
WA	2923723	32002	0472376	KB0102011 GPP	460,000.00	2,060,000.00	26,388,717.00
WA	2923723	32003	0472476	KB0102011 AIP	220,000.00	1,030,000.00	11,927,243.00
WA	2923724	25400		KB0102012 Exp Fac Ops	9,099,000.00	41,519,000.00	382,136,160.00
WA	2923724	31003		KB0102012 Capital (EQU)	716,000.00	3,252,000.00	53,685,642.00
WA	2923725	25400		KB0102013	0.00	0.00	22,646,969.00
WA	2923725	31003		KB0102013 (EQU)	0.00	0.00	0.00
WA	2923727	25400		KB0102030	0.00	0.00	303,187.00
WA	2923730	25400		KB0181015	0.00	0.00	944,599.00
WA	2923731	25400		KB0181020	0.00	0.00	933,000.00
WA	2923746	25400		KB0301020 Theory	889,000.00	5,009,000.00	58,684,560.00
WA	2923746	31003		KB0301020 (EQU)	0.00	0.00	228,386.00

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WA	2923752	25400		KB0301052	0.00	0.00	3,869,810.00
WA	2923752	31003		KB0301052 (EQU)	0.00	0.00	18,346.00
WA	2923755	25400		KB0401022	0.00	0.00	198,464.00
WA	2923761	25400		KB0401052	0.00	0.00	58,325.00
WA	2923769	25400		KC0201010	0.00	0.00	0.00
WA	2924039	25400		KC0211010	0.00	0.00	899,342.00
WA	2924305	25400		KC0406020	(150,000.00)	0.00	1,491,636.00
WA	2924251	25400		KC0407000	0.00	0.00	5,947,204.00
WA	2924416	32002		KG0701000	0.00	0.00	8,000,000.00
WA	2923828	25400		KG0801000	0.00	0.00	9,612.00
WA	2924024	32002	0472376	KG0900000	0.00	0.00	146,191.00
WA	2923832	25400		KJ0102000	0.00	0.00	314,692.00
WA	2923833	25400		KJ0200000	0.00	0.00	2,172.00
WA	2924136	25400		KJ0403000	0.00	(1,497.00)	879,503.00
WA	2924476	25400		KJ0403010	0.00	387,000.00	942,000.00
WA	2924141	25400		KJ0504000	0.00	0.00	179,691.00
WA	2923835	25400		KL0101000	0.00	0.00	712,952.00
WA	2923837	25400		KL0103000	0.00	0.00	0.00
WA	2924169	25400		KL0104000	0.00	0.00	450,815.00
WA	2923838	25400		KL0201000	0.00	0.00	1,303,064.00
WA	2923839	25400		KL0202000	0.00	0.00	26,901.00
WA	2924406	25400		KL1001000	0.00	200,000.00	1,131,865.00
WA	2924409	25400		KL1101000	0.00	0.00	0.00
WA	2924411	25400		KL1200000	0.00	0.00	440,000.00
WA	2923853	25400		KP1104020	0.00	0.00	0.00
WA	2923873	25400		KP1401030	0.00	0.00	884,256.00
WA	2923873	31003		KP1401030 (EQU)	0.00	0.00	4,588.00
WA	2923878	25400		KP1402010	0.00	0.00	0.00
WA	2923878	31003		KP1402010 (EQU)	0.00	0.00	1.00
WA	2924107	25400		KP1503020	0.00	0.00	1,200,000.00
WA	2924205	25400		KP1602010	0.00	0.00	2,823,200.00
WV	2923653	25400		FS1002000	0.00	0.00	4,470.00
YY	1721310	25102	0504378	YN1901000 SNS 468	0.00	0.00	50,000.00
YY	1721310	25400	0515377	YN1901000 ARGONNE 7T-30009 Cell Cav & VTA Te	0.00	0.00	35,000.00
YY	1721310	25400	0506349	YN1901000 ARGONNE 4T-30341 3GHZ SINGLE	0.00	0.00	31,254.00
YY	1721310	25400	0508062	YN1901000 ARGONNE 4T-31301 ALCC HIGH GPS	0.00	0.00	45,569.00
YY	1721310	25400	0515579	YN1901000 ARGONNE 8T-30067 E-BEAM			
				WELDING ANL-30067 EBW	0.00	5,000.00	5,000.00
YY	1721310	25400	0515519	YN1901000 BROOKHAVEN 348363 EIC R&D Compt	0.00	0.00	16,474.50
YY	1721310	25400	0515501	YN1901000 BROOKHAVEN 342230 EIC	72,000.00	72,000.00	110,100.00
YY	1721310	25400	0515387	YN1901000 BROOKHAVEN 330947 EIC R&D FOF C	0.00	0.00	5,218.00
YY	1721310	25400	0508520	YN1901000 BROOKHAVEN 282337 EIC R&D	0.00	0.00	59,217.00
YY	1721310	25400	0510571	YN1901000 BROOKHAVEN 300581 C-100 RF	0.00	0.00	22,111.00
YY	1721310	25400	0510827	YN1901000 BROOKHAVEN 303473 EIC R&D	0.00	0.00	75,551.00
YY	1721310	25400	0515358	YN1901000 BRKHVN 324231 CIRCUIT BOARDS CONV	0.00	0.00	33,491.00
YY	1721310	25400	0510336	YN1901000 FERMI 623843 PROTOTYPE RFD	0.00	0.00	1,086,547.00
YY	1721310	25400	0509574	YN1901000 L AUTH 5T-30581 3GHZ SINGLE CELL	0.00	0.00	4,916.00
YY	1721310	25400	0505429	YN1901000 REVIEW OF SNS PPS	0.00	0.00	25,306.00
YY	1721310	25400	0515535	YN1901000 ORNL SNS Proton Power Upgrade 615	0.00	0.00	1,438,515.51
YY	1721310	25400	0515528	YN1901000 ORNL AUTH TEST HB CAVITIES	0.00	0.00	85,000.00
YY	1721310	25400	0506381	YN1901000 ORNL INCITE PROGRAM	0.00	0.00	5,163.00
YY	1721310	25400	0508522	YN1901000 ORNL INCITE PROGRAM	0.00	0.00	21,837.00
YY	1721310	25400	0513313	YN1901000 ORNL 581 EXASCALE COMPU PROJ	0.00	0.00	544,846.00
YY	1721310	25400	0513324	YN1901000 ORNL 44-582 AUTH FOR PPU	0.00	0.00	28,629.00
YY	1721310	25400	0515350	YN1901000 ORNL SCL MED BETA CRYOMODULE	0.00	0.00	105,000.00
YY	1721310	25400	0515503	YN1901000 ORNL 4400000581 ECP ASCR	0.00	300,516.00	1,166,371.00
YY	1721310	25400	0512781	YN1901000 BROOKHAVEN 316799 VERT COLD TE	0.00	0.00	9,247.00
YY	1721310	25400	0502815	YN1901000 PNNL AUTH FOR JSA LOGUE	0.00	0.00	0.00

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YY	1721310	25400	0503767	YN1901000 ANL 30505	0.00	0.00	172,751.00
YY	1721310	25400	0503768	YN1901000 ANL 30506	0.00	0.00	493,363.00
YY	1721310	25400	0501780	YN1901000 ARGONNE 2T-30522 TJLAB	0.00	0.00	14,875.00
YY	1721310	25400	0503358	YN1901000 ARGONNE AUTH SHORT PULSE	0.00	0.00	179,422.00
YY	1721310	25400	0501346	YN1901000 NAF-ARGONNE 2T-30262	0.00	0.00	1,853,287.00
YY	1721310	25400	0502425	YN1901000 SLAC AUTH FOR JSA	0.00	0.00	11,653.00
YY	1721310	25400	0502343	YN1901000 TJ-BERKLEY.35893	0.00	0.00	11,653.00
YY	1721310	25400	0501665	YN1901000 UTB-VIPERS 34904	0.00	0.00	11,653.00
YY	1721310	25400	0502466	YN1901000 AMES AUTH FOR JSA OIC	0.00	0.00	4,361.00
YY	1721310	25400	0502345	YN1901000 TJ-FERMI 607737	0.00	0.00	11,653.00
YY	1721310	25400	0515498	YN1901000 FERMI 641178 LATTICE QCD COMPUT	0.00	(2,793.00)	97,207.00
YY	1721310	25400	0515500	YN1901000 FERMI 641343 CAVITIES IMPROVE	0.00	50,000.00	150,000.00
YY	1721310	25400	0515648	YN1901000 FERMI HL-LHC ACCELERATOR 654726	0.00	88,070.69	88,070.69
YY	1721310	25400	0502364	YN1901000 ARGONNE AUTH FOR JSA	0.00	0.00	11,653.00
YY	1721310	25400	0502495	YN1901000 BNL AUTH FOR JSA OIC	0.00	0.00	11,653.00
YY	1721310	25400	0503569	YN1901000 ORNL AUTH FOR OIC	0.00	0.00	0.00
YY	1721310	25400	0515520	YN1901000 PNNL Issue Mgmt Process Travel	0.00	0.00	3,200.00
YY	1721310	25400	0502028	YN1901000 PNNL AUTH FOR JSA	0.00	0.00	11,653.00
YY	1721310	25400	0502624	YN1901000 PPPL AUTH FOR JSA	0.00	0.00	11,653.00
YY	1721310	25400	0502424	YN1901000 ORLANL WNDW2	0.00	0.00	11,511.00
YY	1721310	25400	0503054	YN1901000 BNL AUTH FOR RICH DETECTOR	0.00	0.00	23,552.00
YY	1721310	25400	0502771	YN1901000 BROOKHAVEN AUTH FOR BEAM	0.00	0.00	27,856.00
YY	1721310	25400	0504211	YN1901000 BRKHVN AUTH FOR HOM PR	0.00	0.00	462,419.00
YY	1721310	25400	0515493	YN1901000 BRKHVN 340638 ERD22 R&D	0.00	0.00	40,820.00
YY	1721310	25400	0505657	YN1901000 SLAC 122022 CRYOPLANT	0.00	0.00	141,521.00
YY	1721310	25400	0505656	YN1901000 SLAC 122023 SUPERCONDUCTING	0.00	0.00	288,017.00
YY	1721310	25400	0505704	YN1901000 SLAC 122440 LCLSII ESH CDC/D	0.00	0.00	57,106.00
YY	1721310	25400	0505846	YN1901000 SLAC 122868 LCLSII ACCELERATOR	0.00	0.00	136,113.00
YY	1721310	25400	0505995	YN1901000 SLAC 123753 LCLS II HIGH Q0 R&D	0.00	0.00	444,716.00
YY	1721310	25400	0506147	YN1901000 SLAC 123822 LCLS II END CAN ENG	0.00	0.00	219,725.00
YY	1721310	25400	0506145	YN1901000 SLAC 123823 LCLS II BRIDGING EFF	0.00	0.00	255,699.00
YY	1721310	25400	0506426	YN1901000 SLAC 125201 LCLS II CRYOMODULE	2,000,000.00	9,100,000.00	164,777,356.00
YY	1721310	25400	0508691	YN1901000 SLAC 153127 HEAVY PHOTON SEA	0.00	0.00	45,194.00
YY	1721310	25400	0508805	YN1901000 SLAC 153678 NUM MOD SIM FIELD	0.00	0.00	48,342.00
YY	1721310	25400	0515514	YN1901000 SLAC 181827 CD-1 Review for LCLS II HE	0.00	0.00	50,000.00
YY	1721310	25400	0515518	YN1901000 SLAC 183676 SRF Cavities for LCLS II	0.00	842,800.00	1,092,800.00
YY	1721310	25400	0506348	YN1901000 SNS CAVITY PROCESSING 440000	0.00	0.00	40,000.00
YY	1721310	25400	0511632	YN1901000 SNS CAVITY PROCESSING 440000	0.00	0.00	50,000.00
YZ	1721310	25400	0494036	YN1901000 LANL for Muon Scan	0.00	0.00	384,851.00
YZ	1721310	25400	0494624	YN1901000 LANL support	0.00	0.00	26,596.00
YZ	1721310	25400	0496550	YN1901000 90.OR23177.OR40.4400	0.00	0.00	78,699.00
YZ	1721310	25400	0495791	YN1901000 AB 23177/ORNL 44-354	0.00	0.00	23,840.00
YZ	1721310	25400	0500468	YN1901000 NAF-BROOKHAVEN PO 200930	0.00	0.00	56,673.00
YZ	1721310	25400	0500469	YN1901000 NAF-BROOKHAVEN PO 201878	0.00	0.00	278,349.00
YZ	1721310	25400	0500688	YN1901000 NAF-BROOKHAVEN PO 203685	0.00	0.00	55,554.00
YZ	1721310	25400	0484380	YN1901000 TSKOLDIPAC	0.00	0.00	(4,320.00)
YZ	1721310	25400		YN1901000 TSK4400000101	0.00	0.00	0.00
YZ	1721310	25400	0485478	YN1901000 TSK4400000239	0.00	0.00	5,247.00
YZ	1721310	25400	0490967	YN1901000 TSK4400000263	0.00	0.00	395,063.00
YZ	1721310	25400	0473312	YN1901000 TSKER40150L111J	0.00	0.00	0.00
YZ	1721310	25400	0473313	YN1901000 TSKER40150JLAAA	0.00	0.00	0.00
YZ	1721310	25400	0473314	YN1901000 TSKER40150TJAAA	0.00	0.00	(1,147.00)
YZ	1721310	25400	0498940	YN1901000 S-TJNAF CYROGENICS SYS	0.00	0.00	44,796.00
YZ	1721310	25400	0499711	YN1901000 NAF- ARGONNE-1T-30461	0.00	0.00	940,191.00
YZ	1721310	25400	0501346	YN1901000 NAF- ARGONNE-2T-30262	0.00	0.00	0.00
YZ	1721310	25400	0499474	YN1901000 LANL WINDOWS	0.00	0.00	87,004.00
YZ	1721310	25400	0500839	YN1901000 FNAL PO 596124	0.00	0.00	97,820.00
	1713203	25400		CS5020000 IT NETWORK ASSESSMENT HQ	0.00	0.00	6,654.00

FT	Program	Obj Cl	Local Use or SPP	B&R Code	Change	FY 2019 Amount	Cumulative Contract Amount
	4500001	25400		TT1020000 ENERGY I-CORPS SITE FUNDS	0.00	29,500.00	29,500.00
VE	2720715	25400		ST5001030 RADIOISOTOPE PRODUCTION	0.00	0.00	430,256.00
ZA	1005103	25400		EB4215000	0.00	0.00	113,996.00
ZA	1005091	25400		EL1708000	0.00	0.00	43,620.00
SUBTOTAL					<u>30,266,500.00</u>	<u>143,068,640.06</u>	<u>2,063,200,041.33</u>

AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF FY 2009

WO	2923489	32001	0472770	39KB01000P (WA KB/OR39/9/ARRA-1)	0.00	0.00	64,999,150.00
WO	2924093	25400		KA1502012 (WA KA/OR39/9/ARRA-1)	0.00	0.00	1,942,354.00
WO	2924093	25400	0473341	KA1502012 (WA KA/OR39/9/ARRA-1)	0.00	0.00	0.00
WO	2923723	32002	0473098	KB0102011 (WA KB/OR39/9/ARRA-2)	0.00	0.00	9,997,519.00
WO	2923723	32003	0473101	KB0102011 (WA KB/OR39/9/ARRA-4)	0.00	0.00	2,744,777.00
WO	2923746	25400		KB0301020 (WA KB/OR39/9/ARRA-3)	0.00	0.00	1,234,219.00
WO	2923746	31003		KB0301020 (WA KB/OR39/9/ARRA-3)	0.00	0.00	3,475,636.00
WO	2923746	32002		KB0301020 (WA KB/OR39/9/ARRA-3)	0.00	0.00	250,000.00
WO	2923755	25400		KB0401022 (WA KB/OR39/9/ARRA-5)	0.00	0.00	1,825,369.00
SUBTOTAL ARRA FUNDING					<u>0.00</u>	<u>0.00</u>	<u>86,469,024.00</u>
TOTAL CONTRACT FUNDING					<u>30,266,500.00</u>	<u>143,068,640.06</u>	<u>2,149,669,065.33</u>

I.30A FAR 52.222-50 COMBATING TRAFFICKING IN PERSONS (JAN 2019)

(a) *Definitions.* As used in this clause—

“Agent” means any individual, including a director, an officer, an employee, or an independent contractor, authorized to act on behalf of the organization.

“Coercion” means—

- (1) Threats of serious harm to or physical restraint against any person;
- (2) Any scheme, plan, or pattern intended to cause a person to believe that failure to perform an act would result in serious harm to or physical restraint against any person; or
- (3) The abuse or threatened abuse of the legal process.

“Commercial sex act” means any sex act on account of which anything of value is given to or received by any person.

“Commercially available off-the-shelf (COTS) item” means--

- (1) Any item of supply (including construction material) that is—
 - (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

“Debt bondage” means the status or condition of a debtor arising from a pledge by the debtor of his or her personal services or of those of a person under his or her control as a security for debt, if the value of those services as reasonably assessed is not applied toward the liquidation of the debt or the length and nature of those services are not respectively limited and defined.

“Employee” means an employee of the Contractor directly engaged in the performance of work under the contract who has other than a minimal impact or involvement in contract performance.

“Forced labor” means knowingly providing or obtaining the labor or services of a person—

- (1) By threats of serious harm to, or physical restraint against, that person or another person;

(2) By means of any scheme, plan, or pattern intended to cause the person to believe that, if the person did not perform such labor or services, that person or another person would suffer serious harm or physical restraint; or

(3) By means of the abuse or threatened abuse of law or the legal process.

“Involuntary servitude” includes a condition of servitude induced by means of—

(1) Any scheme, plan, or pattern intended to cause a person to believe that, if the person did not enter into or continue in such conditions, that person or another person would suffer serious harm or physical restraint; or

(2) The abuse or threatened abuse of the legal process.

“Recruitment fees” means- Fees of any type, including charges, costs, assessments, or other financial obligations, that are associated with the recruiting process, regardless of the time, manner, or location of imposition or collection of the fee.

(1) Recruitment fees include, but are not limited to, the following fees (when they are associated with the recruiting process) for--

(i) Soliciting, identifying, considering, interviewing, referring, retaining, transferring, selecting, training, providing orientation to, skills testing, recommending, or placing employees or potential employees;

(ii) Advertising;

(iii) Obtaining permanent or temporary labor certification, including any associated fees;

(iv) Processing applications and petitions;

(v) Acquiring visas, including any associated fees;

(vi) Acquiring photographs and identity or immigration documents,

such as passports, including any associated fees;

(vii) Accessing the job opportunity, including required medical examinations and immunizations; background, reference, and security clearance checks and examinations; and additional certifications;

(viii) An employer's recruiters, agents or attorneys, or other

notary or legal fees;

(ix) Language interpretation or translation, arranging for or accompanying on travel, or providing other advice to employees or potential employees;

(x) Government-mandated fees, such as border crossing fees, levies, or worker welfare funds;

(xi) Transportation and subsistence costs--

(A) While in transit, including, but not limited to, airfare or costs of other modes of transportation, terminal fees, and travel taxes associated with travel from the country of origin to the country of performance and the return journey upon the end of employment; and

(B) From the airport or disembarkation point to the worksite;

(xii) Security deposits, bonds, and insurance; and

(xiii) Equipment charges.

(2) A recruitment fee, as described in the introductory text of this definition, is a recruitment fee, regardless of whether the payment is--

(i) Paid in property or money;

(ii) Deducted from wages;

(iii) Paid back in wage or benefit concessions;

(iv) Paid back as a kickback, bribe, in-kind payment, free labor, tip, or tribute; or

(v) Collected by an employer or a third party, whether licensed or unlicensed, including, but not limited to--

(A) Agents;

(B) Labor brokers;

(C) Recruiters;

(D) Staffing firms (including private employment and placement firms);

(E) Subsidiaries/affiliates of the employer;

(F) Any agent or employee of such entities; and

(G) Subcontractors at all tiers.

“Severe forms of trafficking in persons” means—

- (1) Sex trafficking in which a commercial sex act is induced by force, fraud, or coercion, or in which the person induced to perform such act has not attained 18 years of age; or
- (2) The recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.

“Sex trafficking” means the recruitment, harboring, transportation, provision, or obtaining of a person for the purpose of a commercial sex act.

“Subcontract” means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

“Subcontractor” means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime contractor or another subcontractor.

“United States” means the 50 States, the District of Columbia, and outlying areas.

(b) *Policy.* The United States Government has adopted a policy prohibiting trafficking in persons including the trafficking-related activities of this clause. Contractors, contractor employees, and their agents shall not—

- (1) Engage in severe forms of trafficking in persons during the period of performance of the contract;
- (2) Procure commercial sex acts during the period of performance of the contract;
- (3) Use forced labor in the performance of the contract;
- (4) Destroy, conceal, confiscate, or otherwise deny access by an employee to the employee's identity or immigration documents, such as passports or drivers' licenses, regardless of issuing authority;
- (5)
 - (i) Use misleading or fraudulent practices during the recruitment of employees or offering of employment, such as failing to disclose, in a format and language understood by the employee or potential employee, basic information or making material misrepresentations during the recruitment of employees regarding the key terms and conditions of employment, including wages and fringe benefits, the location of work, the living conditions, housing and associated costs (if employer or agent provided or arranged), any significant costs to be charged to the employee or potential employee, and, if applicable, the hazardous nature of the work;
 - (ii) Use recruiters that do not comply with local labor laws of the country in which the recruiting takes place;

(6) Charge employees or potential employees recruitment fees;

(7)

(i) Fail to provide return transportation or pay for the cost of return transportation upon the end of employment--

(A) For an employee who is not a national of the country in which the work is taking place and who was brought into that country for the purpose of working on a U.S. Government contract or subcontract (for portions of contracts performed outside the United States); or

(B) For an employee who is not a United States national and who was brought into the United States for the purpose of working on a U.S. Government contract or subcontract, if the payment of such costs is required under existing temporary worker programs or pursuant to a written agreement with the employee (for portions of contracts performed inside the United States); except that--

(ii) The requirements of paragraphs (b)(7)(i) of this clause shall not apply to an employee who is--

(A) Legally permitted to remain in the country of employment and who chooses to do so; or

(B) Exempted by an authorized official of the contracting agency from the requirement to provide return transportation or pay for the cost of return transportation;

(iii) The requirements of paragraph (b)(7)(i) of this clause are modified for a victim of trafficking in persons who is seeking victim services or legal redress in the country of employment, or for a witness in an enforcement action related to trafficking in persons. The contractor shall provide the return transportation or pay the cost of return transportation in a way that does not obstruct the victim services, legal redress, or witness activity. For example, the contractor shall not only offer return transportation to a witness at a time when the witness is still needed to testify. This paragraph does not apply when the exemptions at paragraph (b)(7)(ii) of this clause apply.

(8) Provide or arrange housing that fails to meet the host country housing and safety standards; or

(9) If required by law or contract, fail to provide an employment contract, recruitment agreement, or other required work document in writing. Such written work document shall be in a language the employee understands. If the employee must relocate to perform the work, the work document shall be provided to the employee at least five days prior to the employee relocating. The employee's work document shall include, but is not limited to, details about work description, wages, prohibition on charging recruitment fees, work location(s), living accommodations and associated costs, time off, roundtrip transportation arrangements, grievance process, and the content of applicable laws and regulations that prohibit trafficking in persons.

(c) *Contractor requirements.* The Contractor shall—

(1) Notify its employees and agents of—

(i) The United States Government's policy prohibiting trafficking in persons, described in paragraph (b) of this clause; and

(ii) The actions that will be taken against employees or agents for violations of this policy. Such actions for employees may include, but are not limited to, removal from the contract, reduction in benefits, or termination of employment; and

(2) Take appropriate action, up to and including termination, against employees, agents, or subcontractors that violate the policy in paragraph (b) of this clause.

(d) *Notification.*

(1) The Contractor shall inform the Contracting Officer and the agency Inspector General immediately of—

(i) Any credible information it receives from any source (including host country law enforcement) that alleges a Contractor employee, subcontractor, subcontractor employee, or their agent has engaged in conduct that violates the policy in paragraph (b) of this clause (see also 18 U.S.C. 1351, Fraud in Foreign Labor Contracting, and 52.203-13(b)(3)(i)(A), if that clause is included in the solicitation or contract, which requires disclosure to the agency Office of the Inspector General when the Contractor has credible evidence of fraud); and

(ii) Any actions taken against a Contractor employee, subcontractor, subcontractor employee, or their agent pursuant to this clause.

(2) If the allegation may be associated with more than one contract, the Contractor shall inform the contracting officer for the contract with the highest dollar value.

(e) *Remedies.* In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraphs (c), (d), (g), (h), or (i) of this clause may result in—

(1) Requiring the Contractor to remove a Contractor employee or employees from the performance of the contract;

(2) Requiring the Contractor to terminate a subcontract;

(3) Suspension of contract payments until the Contractor has taken appropriate remedial action;

(4) Loss of award fee, consistent with the award fee plan, for the performance period in which the Government determined Contractor non-compliance;

(5) Declining to exercise available options under the contract;

(6) Termination of the contract for default or cause, in accordance with the termination clause of this contract; or

(7) Suspension or debarment.

(f) *Mitigating and aggravating factors.* When determining remedies, the Contracting Officer may consider the following:

(1) *Mitigating factors.* The Contractor had a Trafficking in Persons compliance plan or an awareness program at the time of the violation, was in compliance with the plan, and has taken appropriate remedial actions for the violation, that may include reparation to victims for such violations.

(2) *Aggravating factors.* The Contractor failed to abate an alleged violation or enforce the requirements of a compliance plan, when directed by the Contracting Officer to do so.

(g) *Full cooperation.*

(1) The Contractor shall, at a minimum—

(i) Disclose to the agency Inspector General information sufficient to identify the nature and extent of an offense and the individuals responsible for the conduct;

(ii) Provide timely and complete responses to Government auditors' and investigators' requests for documents;

(iii) Cooperate fully in providing reasonable access to its facilities and staff (both inside and outside the U.S.) to allow contracting agencies and other responsible Federal agencies to conduct audits, investigations, or other actions to ascertain compliance with the Trafficking Victims Protection Act of 2000 (22 U.S.C. chapter 78), E.O. 13627, or any other applicable law or regulation establishing restrictions on trafficking in persons, the procurement of commercial sex acts, or the use of forced labor; and

(iv) Protect all employees suspected of being victims of or witnesses to prohibited activities, prior to returning to the country from which the employee was recruited, and shall not prevent or hinder the ability of these employees from cooperating fully with Government authorities.

(2) The requirement for full cooperation does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not—

(i) Require the Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine;

(ii) Require any officer, director, owner, employee, or agent of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; or

(iii) Restrict the Contractor from—

(A) Conducting an internal investigation; or

(B) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.

(h) *Compliance plan.*

(1) This paragraph (h) applies to any portion of the contract that—

(i) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and

(ii) Has an estimated value that exceeds \$500,000.

(2) The Contractor shall maintain a compliance plan during the performance of the contract that is appropriate—

(i) To the size and complexity of the contract; and

(ii) To the nature and scope of the activities to be performed for the Government, including the number of non-United States citizens expected to be employed and the risk that the contract or subcontract will involve services or supplies susceptible to trafficking in persons.

(3) *Minimum requirements.* The compliance plan must include, at a minimum, the following:

(i) An awareness program to inform contractor employees about the Government's policy prohibiting trafficking-related activities described in paragraph (b) of this clause, the activities prohibited, and the actions that will be taken against the employee for violations. Additional information about Trafficking in Persons and examples of awareness programs can be found at the Web site for the Department of State's Office to Monitor and Combat Trafficking in Persons at <http://www.state.gov/j/tip/>.

(ii) A process for employees to report, without fear of retaliation, activity inconsistent with the policy prohibiting trafficking in persons, including a means to make available to all employees the hotline phone number of the Global Human Trafficking Hotline at 1-844-888-FREE and its email address at help@befree.org.

(iii) A recruitment and wage plan that only permits the use of recruitment companies with trained employees, prohibits charging recruitment fees to the employee or potential employees, and ensures that wages meet applicable host-country legal requirements or explains any variance.

(iv) A housing plan, if the Contractor or subcontractor intends to provide or arrange housing, that ensures that the housing meets host-country housing and safety standards.

(v) Procedures to prevent agents and subcontractors at any tier and at any dollar value from engaging in trafficking in persons (including activities in paragraph (b) of this clause) and to monitor, detect,

and terminate any agents, subcontracts, or subcontractor employees that have engaged in such activities.

(4) *Posting.*

(i) The Contractor shall post the relevant contents of the compliance plan, no later than the initiation of contract performance, at the workplace (unless the work is to be performed in the field or not in a fixed location) and on the Contractor's Web site (if one is maintained). If posting at the workplace or on the Web site is impracticable, the Contractor shall provide the relevant contents of the compliance plan to each worker in writing.

(ii) The Contractor shall provide the compliance plan to the Contracting Officer upon request.

(5) *Certification.* Annually after receiving an award, the Contractor shall submit a certification to the Contracting Officer that—

(i) It has implemented a compliance plan to prevent any prohibited activities identified at paragraph (b) of this clause and to monitor, detect, and terminate any agent, subcontract or subcontractor employee engaging in prohibited activities; and

(ii) After having conducted due diligence, either—

(A) To the best of the Contractor's knowledge and belief, neither it nor any of its agents, subcontractors, or their agents is engaged in any such activities; or

(B) If abuses relating to any of the prohibited activities identified in paragraph (b) of this clause have been found, the Contractor or subcontractor has taken the appropriate remedial and referral actions.

(i) *Subcontracts.*

(1) The Contractor shall include the substance of this clause, including this paragraph (i), in all subcontracts and in all contracts with agents. The requirements in paragraph (h) of this clause apply only to any portion of the subcontract that—

(A) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and

(B) Has an estimated value that exceeds \$500,000.

(2) If any subcontractor is required by this clause to submit a certification, the Contractor shall require submission prior to the award of the subcontract and annually thereafter. The certification shall cover the items in paragraph (h)(5) of this clause.

(End of clause)

I.61 FAR 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (JAN 2019)

(a) *Definitions.* As used in this clause—

“Commercial item and commercially available off-the-shelf item” have the meanings contained Federal Acquisition Regulation 2.101, Definitions.

“Subcontract” includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)

(1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (Oct 2015) (41 U.S.C. 3509), if the subcontract exceeds \$5.5 million and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

(ii) 52.203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (Jun 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.

(iii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (Jan 2017).

(iv) 52.204-21, Basic Safeguarding of Covered Contractor Information Systems (JUN 2016) other than subcontracts for commercially available off-the-shelf items, if flow down is required in accordance with paragraph (c) of FAR clause 52.204-21.

(v) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).

(vi) 52.219-8, Utilization of Small Business Concerns (Oct 2018) (15 U.S.C. 637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

- (vii) 52.222-21, Prohibition of Segregated Facilities (Apr 2015).
- (viii) 52.222-26, Equal Opportunity (Sep 2016) (E.O. 11246).
- (ix) 52.222-35, Equal Opportunity for Veterans (Oct 2015) (38 U.S.C. 4212(a));
- (x) 52.222-36, Equal Opportunity for Workers with Disabilities (Jul 2014) (29 U.S.C. 793).
- (xi) 52.222-37, Employments Reports on Veterans (Feb 2016) (38 U.S.C. 4212).
- (xii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (Dec 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xiii)
 - (A) 52.222-50, Combating Trafficking in Persons (Jan 2019) (22 U.S.C. chapter 78 and E.O. 13627).
 - (B) Alternate I (Mar 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xiv) 52.222-55, Minimum Wages under Executive Order 13658 (Dec 2015), if flowdown is required in accordance with paragraph (k) of FAR clause 52.222-55.
- (xv) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706), if flow down is required in accordance with paragraph (m) of FAR clause 52.222-62.
- (xvi)
 - (A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a) if flow down is required in accordance with 52.224-3(f).
 - (B) Alternate I (JAN 2017) of 52.224-3, if flow down is required in accordance with 52.224-3(f) and the agency specifies that only its agency-provided training is acceptable.
- (xvii) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Oct 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xviii) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (Dec 2013), if flow down is required in accordance with paragraph (c) of FAR clause 52.232-40.
- (xix) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. App. 1241 and 10 U.S.C. 2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

I.91 DEAR 970.5204-2 LAWS, REGULATIONS, AND DOE DIRECTIVES (MAY 2018) (SC ALTERNATE)

(a) In performing work under this contract, the Contractor shall comply with the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the appropriate regulatory agency. A List of Applicable Laws and regulations (List A) may be appended to this contract for information purposes. Omission of any applicable law or regulation from List A does not affect the obligation of the Contractor to comply with such law or regulation pursuant to this paragraph.

(b) In performing work under this contract, the contractor shall comply with the requirements of those Department of Energy directives, or parts thereof, identified in the List of Applicable Directives (List B) appended to this contract unless and until such time as an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described in the Section H clause of this Contract, entitled, "Application of DOE Contractor Requirements Documents" is approved. The contracting officer may, from time to time and at any time, revise List B by unilateral modification to the contract to add, modify, or delete specific requirements. Prior to revising List B, the contracting officer shall notify the contractor in writing of the Department's intent to revise List B and provide the contractor with the opportunity to assess the effect of the contractor's compliance with the revised list on contract cost and funding, technical performance, and schedule; and identify any potential inconsistencies between the revised list and the other terms and conditions of the contract. Within 30 days after receipt of the contracting officer's notice, the contractor shall advise the contracting officer in writing of the potential impact of the contractor's compliance with the revised list. Based on the information provided by the contractor and any other information available, the contracting officer shall decide whether to revise List B and so advise the contractor

(c) The contractor shall procure all necessary permits or licenses required for the performance of work under this contract separately, or jointly with DOE as co-permittees, as appropriate.

(d) Regardless of the performer of the work, the contractor is responsible for compliance with the requirements of this clause. The contractor is responsible for flowing down the requirements of this clause to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

(End of clause)

I. 97 DEAR 970.5217-1 STRATEGIC PARTNERSHIP PROJECTS PROGRAM (NON-DOE FUNDED WORK) (APRIL 23, 2015) (SC ALTERNATE)

(a) *Authority to perform Strategic Partnership Projects.* Pursuant to the Economy Act of 1932, as amended (31 U.S.C. 1535), and the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 *et seq.*) or other applicable authority, the Contractor may perform work for non-DOE entities (sponsors) on a fully reimbursable basis in accordance with this clause.

(b) *Contractor's implementation.* The Contractor must draft, implement, and maintain formal policies, practices, and procedures in accordance with this clause, which must be submitted to the Contracting Officer for review and approval.

(c) *Conditions of participation in Strategic Partnership Projects program.* The Contractor—

(1) Must not perform Strategic Partnership Projects activities that would place it in direct competition with the domestic private sector;

(2) Must not respond to a request for proposals or any other solicitation from another Federal agency or non-Federal organization that involves direct comparative competition, either as an offeror, team member, or subcontractor to an offeror; however, the Contractor may, following notification to the Contracting Officer, respond to Broad Agency Announcements, Financial Assistance solicitations, and similar solicitations from another Federal Agency or non-Federal organizations when the selection is based on merit or peer review, the work involves basic or applied research to further advance scientific knowledge or understanding, and a response does not result in direct, comparative competition;

(3) Must not commence work on any Strategic Partnership Projects activity until a Strategic Partnership Projects proposal package has been approved by the DOE Contracting Officer or designated representative;

(4) Must not incur project costs until receipt of DOE notification that a budgetary resource is available for the project, except as provided in 48 CFR 970.5232-6;

(5) Must ensure that all costs associated with the performance of the work, including specifically all DOE direct costs and applicable surcharges, are included in any Strategic Partnership Projects proposal;

(6) Must maintain records for the accumulation of costs and the billing of such work to ensure that DOE's appropriated funds are not used in support of Strategic Partnership Projects activities and to provide an accounting of the expenditures to DOE and the sponsor upon request;

(7) Must perform all Strategic Partnership Projects projects in accordance with the standards, policies, and procedures that apply to performance under this contract, including but not limited to environmental, safety and health, security, safeguards and classification procedures, and human and animal research regulations;

(8) May subcontract portion(s) of a Work for Others project; however, the Contractor must select the subcontractor and the work to be subcontracted. Any subcontracted work must be in direct support of the DOE Contractor's performance as defined in the DOE approved Strategic Partnership Projects proposal package; and,

(9) Must maintain a summary listing of project information for each active Strategic Partnership Projects project, consisting of—

(i) Sponsoring agency;

(ii) Total estimated costs;

(iii) Project title and description;

(iv) Project point of contact; and,

(v) Estimated start and completion dates.

(d) *Negotiation and execution of Strategic Partnership Projects agreement.* (1) When delegated authority by the Contracting Officer, the Contractor may negotiate the terms and conditions that will govern the performance of a specific Strategic Partnership Projects project. Such terms and conditions must be consistent with the terms, conditions, and requirements of the Contractor's contract with DOE. The Contractor may use DOE-approved contract terms and conditions as delineated in Attachment 1 of DOE Order 481.1E or terms and conditions previously approved by the responsible Contracting Officer or authorized designee for agreements with non-Federal entities. The Contractor must not hold itself out as representing DOE when negotiating the proposed Strategic Partnership Projects agreement.

(2) The Contractor must submit all Strategic Partnership Projects agreements to the DOE Contracting Officer for DOE review and approval. The Contractor may not execute any proposed agreement until it has received notice of DOE approval.

(e) *Preparation of project proposals.* When the Contractor proposes to perform Strategic Partnership Projects activities pursuant to this clause, it may assist the project sponsor in the preparation of project proposal packages including the preparation of cost estimates.

(f) *Strategic Partnership Projects appraisals.* DOE may conduct periodic appraisals of the Contractor's compliance with its Strategic Partnership Projects Program policies, practices and procedures. The Contractor must provide facilities and other support in conjunction with such appraisals as directed by the Contracting Officer or authorized designee.

(g) *Annual Strategic Partnership Projects report.* The Contractor must provide assistance as required by the Contracting Officer or authorized designee in the preparation of a DOE Annual Summary Report of Strategic Partnership Projects Activities under the contract.

(End of clause)

I. 106 DEAR 970.5227-2 RIGHTS IN DATA – TECHNOLOGY TRANSFER (DEC 2000) (SC ALTERNATE)

(a) Definitions.

Assistant General Counsel for Technology Transfer and Intellectual Property is the senior intellectual property counsel for the Department of Energy, as distinguished from the NNSA Patent Counsel, and, where used in this clause, indicates that the authority for the activity(ies) being described belongs to DOE.

Computer data bases, as used in this clause, means a collection of data in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.

Computer software, as used in this clause, means (i) computer programs which are data comprising a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations and (ii) data comprising source code listings, design details, algorithms, processes, flow charts, formulae, and related material that would enable the computer program to be produced, created, or compiled. The term does not include computer data bases.

Data, as used in this clause, means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term “data” does not include data incidental to the administration of this contract, such as financial, administrative, cost and pricing, or management information.

Department of Energy (DOE), as used in this clause, includes the National Nuclear Security Administration (NNSA), unless otherwise identified or indicated.

Limited rights data, as used in this clause, means data, other than computer software, developed at private expense that embody trade secrets or are commercial or financial and confidential or privileged. The Government's rights to use, duplicate, or disclose limited rights data are as set forth in the Limited Rights Notice of paragraph (h) of this clause.

Open source software, as used in this clause, means computer software that is distributed under a license in which the user is granted the right to use, copy, modify, prepare derivative works and distribute, in source code or other format, the software, in original or modified form and derivative works thereof, without having to make royalty payments.

Patent Counsel means the DOE or NNSA Patent Counsel assisting the contracting activity.

Restricted computer software, as used in this clause, means computer software developed at private expense and that is a trade secret; is commercial or financial and is confidential or privileged; or is published copyrighted computer software, including minor modifications of any such computer software. The Government's rights to use, duplicate, or disclose restricted computer software are as set forth in the Restricted Rights Notice of paragraph (i) of this clause.

Technical data, as used in this clause, means recorded data, regardless of form or characteristic, that are of a scientific or technical nature. Technical data does not include computer software, but does include manuals and instructional materials and technical data formatted as a computer data base.

Unlimited rights, as used in this clause, means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, including by electronic means, and perform publicly and display publicly, in any manner, including by electronic means, and for any purpose whatsoever, and to have or permit others to do so.

(b) *Allocation of Rights.*

(1) The Government shall have:

(i) Ownership of all technical data and computer software first produced in the performance of this Contract;

(ii) Unlimited rights in technical data and computer software first produced or specifically used in the performance of this Contract, except as provided herein regarding copyright, limited rights data, or restricted computer software, and except for data subject to the withholding provisions for protected Cooperative Research and Development Agreement (CRADA) information in accordance with Technology Transfer actions under this Contract, or other data specifically protected by statute for a period of time or, where approved by Patent Counsel, appropriate instances of the DOE Strategic Partnership Projects (SPP) Program;

(iii) The right to inspect technical data and computer software first produced or specifically used in the performance of this Contract at all reasonable times. The Contractor shall make available all necessary facilities to allow DOE personnel to perform such inspection;

(iv) The right to have all technical data and computer software first produced or specifically used in the performance of this Contract delivered to the Government or otherwise disposed of by the Contractor, either as the contracting officer may from time to time direct during the progress of the work or in any event as the contracting officer shall direct upon completion or termination of this Contract. The Contractor agrees to leave a copy of such data at the facility or plant to which such data relate, and to make available for access or to deliver to the Government such data upon request by the contracting officer. If such data are limited rights data or restricted computer software, the rights of the Government in such data shall be governed solely by the provisions of paragraph (h) of this clause (“Rights in Limited Rights Data”) or paragraph (i) of this clause (“Rights in Restricted Computer Software”). When delivering all contractor produced computer software to the DOE Office of Scientific and Technical Information (OSTI), the Contractor shall submit a complete package as prescribed in paragraph (e)(3) of this clause; and

(v) The right to remove, cancel, correct, or ignore any markings not authorized by the terms of this Contract on any data furnished hereunder if, in response to a written inquiry by DOE concerning the propriety of the markings, the Contractor fails to respond thereto within 60 days or fails to

substantiate the propriety of the markings. In either case DOE will notify the Contractor of the action taken.

(2) The Contractor shall have:

(i) The right to withhold limited rights data and restricted computer software unless otherwise provided in provisions of this clause;

(ii) The right to use for its private purposes, subject to patent, security or other provisions of this Contract, data it first produces in the performance of this Contract, except for data in DOE's Uranium Enrichment Technology, including diffusion, centrifuge, and atomic vapor laser isotope separation, provided the data requirements of this Contract have been met as of the date of the private use of such data; and

(iii) The right to assert copyright subsisting in scientific and technical works, and works produced by Contractor under DEAR 952.204-75, as provided in paragraph (d) of this clause, and the right to request permission to assert copyright subsisting in works other than scientific and technical works as provided in paragraph (e) of this clause.

(3) The Contractor agrees that for limited rights data or restricted computer software or other technical business or financial data in the form of recorded information which it receives from, or is given access to by DOE or a third party, including a DOE contractor or subcontractor, and for technical data or computer software it first produces under this Contract which is authorized to be marked by DOE, the Contractor shall treat such data in accordance with any restrictive legend contained thereon.

(4) In the performance of DOE contracted obligations, the Contractor is required to manage scientific and technical information (STI) produced under the contract as a direct and integral part of the work and ensure its broad availability to all customer segments by making STI available to DOE's central STI coordinating office (OSTI) per DOE O 241.1B or its successor version.

(c) *Copyright (General)*.

(1) The Contractor agrees not to mark, register, or otherwise assert copyright in any data in a published or unpublished work, other than as set forth in paragraphs (d), (e) or (f) of this clause.

(2) Except for material to which the Contractor has obtained the right to assert copyright in accordance with either paragraph paragraphs (d), (e) or (f) of this clause, the Contractor agrees not to include in the data delivered under this Contract any material copyrighted by the Contractor and not to knowingly include any material copyrighted by others without first granting or obtaining at no cost a license therein for the benefit of the Government of the same scope as set forth in paragraph (d) of this clause. If the Contractor believes that such copyrighted material for which the license cannot be obtained must be included in the data to be delivered, rather than merely incorporated therein by reference, the Contractor shall obtain the written authorization of the contracting officer to include such material in the data prior to its delivery.

(3) If the Contractor has not been granted permission to copyright data or computer software first produced under the contract where such permission is necessary and if the Government desires to obtain copyright in such data or computer software, the Contracting Officer may direct the Contractor to establish claim to copyright in such data or computer software and to assign such copyright to the Government or its designated assignee.

(d) *Copyrighted works (scientific and technical works).*

(1) The Contractor shall have the right to assert, without prior approval of the contracting officer, copyright subsisting in scientific and technical works composed under this contract or based on or containing data first produced by the Contractor in the performance of this Contract, and published in academic, technical or professional journals, symposia, proceedings, contributions to chapters of book compilations or similar means of dissemination to make broadly available to the public or scientific community for the purpose of scientific research, knowledge and education. Such scientific and technical works may be recorded or fixed in any medium including but not limited to print, online, web, audio, video or other medium, and released or disseminated through any communication or distribution channel including but not limited to articles, reports, books, non-architectural drawings, repositories, videos, websites, workshops, or social media.

When assertion of copyright is made, the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 and acknowledgment of Government sponsorship (including contract number) on the data when such data are delivered to the Government as well as when the data are published or deposited for registration as a published work in the U.S. Copyright Office. The Contractor grants to the Government, and others acting on its behalf, a nonexclusive, paid-up, irrevocable, world-wide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.

(2) For each scientific or technical work first produced or composed under this Contract and submitted for publication or similar means of dissemination, the contractor shall provide notice to the publisher of the Government's license in the copyright that is substantially similar to or otherwise references one of the notices below:

A suitable notice (long version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright;

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the work for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this work, or allow others to do so, for United States Government purposes. The Department of Energy will provide public access to these results of federally sponsored research in accordance with the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

A suitable notice (short version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright follows:

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the U.S. Department of Energy. Publisher acknowledges the U.S. Government license and provide public access under the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

(3) The title to the copyright of the original of unclassified graduate theses and the original of related unclassified scientific papers shall vest in the author thereof, subject to the right of DOE to retain duplicates of such documents and to use such documents for any purpose whatsoever without any claim on the part of the author or the contractor for additional compensation.

(e) Copyrighted works (other than scientific and technical works and data produced under a CRADA).

The Contractor may obtain permission to assert copyright subsisting in technical data and computer software first produced by the Contractor in performance of this Contract, when the Contractor needs to control distribution to advance the goals of the technology transfer mission and where the Contractor can show that commercialization would be enhanced by such copyright protection, subject to the following: (1) Contractor Request to Assert Copyright.

(i) Except for scientific and technical works under (d) above and data produced under a CRADA, the Contractor shall submit in writing to Patent Counsel its request to assert copyright in data first produced in the performance of this Contract pursuant to this clause. The right of the Contractor to copyright data first produced under a CRADA is as described in the individual CRADA. Each request by the Contractor must include:

(A) The identity of the data (including any computer software) for which the Contractor requests permission to assert copyright, as well as an abstract which is descriptive of the data and is suitable for dissemination purposes,

(B) The funding program under which it was funded,

(C) Whether, to the best knowledge of the Contractor, the data is subject to an international treaty or agreement,

(D) Whether the data is subject to export control,

(E) A statement that the Contractor plans to commercialize the data in compliance with the clause of this contract entitled, "Technology Transfer Mission," within five (5) years after obtaining permission to assert copyright or, on a case-by-case basis, a specified longer period where the Contractor can demonstrate that the ability to commercialize effectively is dependent upon such longer period, and

(F) For data other than computer software, a statement explaining why the assertion of copyright is necessary to enhance commercialization and is consistent with DOE's dissemination responsibilities.

(ii) For data that is developed using other funding sources in addition to DOE funding, the permission to assert copyright in accordance with this clause must also be obtained by the Contractor from all other funding sources prior to the Contractor's request to Patent Counsel. The request shall include the Contractor's certification or other documentation acceptable to Patent Counsel demonstrating such permission has been obtained.

(iii) Permission for the Contractor to assert copyright in excepted categories of data as determined exclusively by DOE will be expressly withheld. Such excepted categories include data whose release (A) would be detrimental to national security, i.e., classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act of 1954, as amended, or are subject to export control for nonproliferation and other nuclear-related national security purposes, (B) would not enhance the appropriate transfer or dissemination and commercialization of such data, (C) would have a negative impact on U.S. industrial competitiveness; (D) would prevent DOE from meeting its obligations under treaties and international agreements, or (E) would be detrimental to one or more of DOE's programs.

(iv) The Contractor will obtain the advanced written permission of the Patent Counsel to assert copyright where data are determined to be in the following excepted categories: (a) under export control restrictions, (b) developed with Naval Reactors' funding, (c) subject to disposition of data rights under treaties and international agreements. Additional excepted categories may be added by the Assistant General Counsel for Technology Transfer and Intellectual Property. Where data are determined to be under export control restriction, the Contractor may obtain permission to assert copyright subject to the provisions of this clause for purposes of limited commercialization in a manner that complies with export control statutes and applicable regulations. In addition, notwithstanding any other provision of this Contract, all data developed with Naval Reactors' funding and those data that are classified fall within excepted categories. The rights of the Contractor in data are subject to the disposition of data rights in the treaties and international agreements identified at DOE's Office of International Affairs (International Commitments—IEC) (<http://energy.gov/ia/iec-documents>).

(2) Patent Counsel—Review and Response to Contractor's Request. The Patent Counsel shall use its best efforts to respond in writing within 60 days of receipt of a complete request by the Contractor to assert copyright in technical data and computer software pursuant to this clause. Such response shall either give or withhold DOE's permission for the Contractor to assert copyright or advise the Contractor that DOE needs additional time to respond, and the reasons therefor. If Patent Counsel grants permission for the Contractor to assert copyright in computer software, the permission automatically extends to subsequent minor versions (e.g., minor revisions, patches and bug fixes) having the same funding source, same name and substantially same functionality as the original computer software, and may be extended to subsequent major versions representing significant modifications of the program with the approval of Patent Counsel.

(3) Permission for Contractor to Assert Copyright.

(i) For computer software, the Contractor shall furnish, or make available, to OSTI in accordance with OSTI guidelines at the time permission to assert copyright is given under paragraph (e)(2) of this clause:

(A) Announcement information/metadata contained in the Software Announcement Notice 241,

(B) The source code and executable file for each software program, and

(C) Documentation, if any, which may consist of a user manual, sample test cases, or similar information, needed by a technically competent user to understand and use the software (whether included on the software media itself or provided in a separate file or in paper format).

(ii) The Contractor acknowledges that the DOE designated software distribution and control point may provide a technical description of the software in an announcement identifying its availability from the copyright holder.

(iii) Unless otherwise directed by the Patent Counsel, for data other than computer software to which the Contractor has received permission to assert copyright under paragraph (e)(2) of this clause above, the Contractor shall within sixty (60) days of obtaining such permission furnish, or make available, to OSTI in accordance with OSTI guidelines, a copy of such data as well as an abstract of the data suitable for dissemination purposes. The Contractor acknowledges that OSTI may provide an abstract of the data in an announcement to DOE, its contractors and to the public identifying its availability from the copyright holder.

(iv) Once the Contractor is given permission to assert copyright in data, the Contractor may begin to commercialize the copyrighted data by making copyrighted data available for licensing to third parties and by offering other types of distribution to third parties. During the period in which commercialization activities pertaining to the copyrighted data are continuing, or for a specified period of time prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, prepare derivative works and perform publicly and display publicly, by or on behalf of the Government. For all previously approved and current copyrighted data that the Contractor is actively commercializing, the Contractor may continue to commercialize in accordance with this paragraph.

(v) When the Contractor abandons commercialization activities pertaining to the copyrighted data or at the end of the specified periods as prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.

(vi) If at any time the Contractor abandons commercialization activities for copyrighted data, it shall notify OSTI and Patent Counsel, and upon request assign the copyright to the Government, so that the Government can distribute the data to the public. When the Contractor abandons commercialization activities, the Contractor will provide to OSTI the latest version of the copyrighted data (for example, source code, object code, minimal support documentation, drawings or updated manuals). In addition, the Contractor will provide annually to Patent Counsel, if

requested, a list of all copyrighted data that the Contractor has abandoned commercial licensing activity during that year.

(vii) Whenever the Contractor asserts copyright in data pursuant to this paragraph (e), the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 on the copyrighted data and also an acknowledgment of the Government sponsorship and license rights of paragraphs (e)(3)(iv) and (v) of this clause. Such action shall be taken when the data are delivered to the Government, licensed or deposited for registration as a published work in the U.S. Copyright Office, or when submitted for publication. The acknowledgment of Government sponsorship and license rights shall be substantially similar to the following:

Notice: These data were produced by (insert name of Contractor) under Contract No. _____ with the Department of Energy. During the period of commercialization or such other time period specified by DOE, the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, and perform publicly and display publicly, by or on behalf of the Government. Subsequent to that period, the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, distribute copies to the public, perform publicly and display publicly, and to permit others to do so. The specific term of the license can be identified by inquiry made to Contractor or DOE. NEITHER THE UNITED STATES NOR THE UNITED STATES DEPARTMENT OF ENERGY, NOR ANY OF THEIR EMPLOYEES, MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF ANY DATA, APPARATUS, PRODUCT, OR PROCESS DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS.

(End of notice)

(viii) With respect to any data to which the Contractor has received permission to assert copyright, the DOE has the right, during the period that Contractor is commercializing the software as provided for in paragraph (e)(3)(iv) of this clause, to request the Contractor to grant a nonexclusive, partially exclusive or exclusive license in any field of use to a responsible applicant(s) upon terms that are reasonable under the circumstances, and if the Contractor refuses such request, to grant such license itself, if the DOE determines that the Contractor has not made a satisfactory demonstration that either it or its licensee(s) is actively pursuing commercialization of the data as set forth in subparagraph (e)(1)(i) of this clause. Before licensing under this subparagraph (viii), DOE shall furnish the Contractor a written request for the Contractor to grant the stated license, and the Contractor shall be allowed thirty (30) days (or such longer period as may be authorized by the contracting officer for good cause shown in writing by the Contractor) after such notice to show cause why the license should not be granted. The Contractor shall have the right to appeal the decision of the DOE to grant the stated license to the Invention Licensing Appeal Board as set forth in 10 CFR 781.65—
”Appeals.”

(ix) No costs shall be allowable for maintenance of copyrighted data, primarily for the benefit of the Contractor and/or a licensee which exceeds DOE Program needs, except as expressly provided in writing by the contracting officer. The Contractor may use its net royalty income to effect such maintenance costs.

(4) The following notice may be included in computer software prior to any publication or release and prior to the Contractor's obtaining permission from the Department of Energy to assert copyright in the computer software pursuant to paragraph (c)(3) of this section.

Notice: This computer software was prepared by [insert the Contractor's name and the individual author], hereinafter the Contractor, under Contract [insert the Contract Number] with the Department of Energy (DOE). All rights in the computer software are reserved by DOE on behalf of the United States Government and the Contractor as provided in the Contract. You are authorized to use this computer software for Governmental purposes but it is not to be released or distributed to the public. **NEITHER THE GOVERNMENT NOR THE CONTRACTOR MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LIABILITY FOR THE USE OF THIS SOFTWARE.** This notice including this sentence must appear on any copies of this computer software.

(End of notice)

(5) A similar notice can be used for data, other than computer software, prior to any publication or release and prior to Contractor's obtaining permission of DOE Patent Counsel to assert copyright.

(f) *Open software source.*

The Contractor may release computer software first produced by the Contractor in the performance of this contract under an open source software license. Such software shall hereinafter be referred to as open source software or OSS, subject to the following:

(1) *DOE Program notice for copyright assertion for OSS.*

(i) The Contractor shall provide written notice to each DOE Program(s) that have provided a substantial portion of the funding (funding source(s)) to develop the software that the Contractor intends to release as OSS unless the funding Program(s) have previously provided blanket approval for all software developed with funding from that Program or a specific DOE project stipulates the software to be released as OSS. Unless Program has objected to the assertion of copyright within ten working days of such written notice, the Contractor may assert copyright in the software. If notification to funding DOE Program(s) is not practicable, the Contractor shall consult with Patent Counsel, which may provide approval. For software developed under a CRADA, User Facility Agreement, or SPP Agreement, authorization from the CRADA Participant(s) or User Facility User(s), or SPP Sponsor(s), as applicable, shall be additionally obtained for OSS release unless such Agreement has a provision providing for copyright.

(ii) If the software is developed with funding from a federal government agency or agencies (funding source(s)) other than DOE, then authorization from all the funding agency(ies) shall be obtained for OSS release, if practicable. Such federal government agency(ies) may provide blanket approval for

all software developed with funding from that agency(ies). However, OSS release of any one of such software shall be subject to approval by all other funding sources for the software, if any. If approval from such federal government agency(ies) is not practicable, the Patent Counsel may provide approval instead.

(2) *Assert copyright in the OSS.* Once the Contractor has met the Program and sponsor approval requirements set forth in paragraph (f)(1) of this clause, copyright in the software to be distributed as OSS may be asserted by the Contractor, or, for OSS developed under a CRADA, User Facility Agreement, or SPP Agreement, copyright in the software to be distributed as OSS may be asserted either by the Contractor, CRADA Participant, User Facility User, or SPP Sponsor, as applicable, whereby such assertion precludes marking such OSS as protectable from public distribution.

(3) *Submit Software Announcement Notice 241.4 to OSTI.* The Contractor must submit the Software Announcement Notice (AN) 241.4 (or the current notice as may be required by DOE) to DOE's OSTI, which may require the unique URL (i.e., a persistent identifier) from which the software can be obtained so that OSTI can announce the availability of the OSS and the public has access via the URL.

(4) *Maintain OSS record.* The Contractor must maintain adequate records of all software distributed as OSS. Upon request of the Patent Counsel, the Contractor shall provide the necessary information regarding any or all OSS.

(5) *Provide public access to the OSS.* The Contractor shall ensure that the OSS is publicly accessible as open source via the Contractor's website, DOE, software repositories or other industry methods.

(6) *Select an OSS license.* Each OSS will be distributed pursuant to an OSS license. The Contractor may choose among industry standard OSS licenses or create its own set of Contractor standard licenses. To assist the Contractor, the Assistant General Counsel for Technology Transfer and Intellectual Property, may periodically issue guidance on OSS licenses. Each Contractor-created OSS license, must contain, at a minimum, the following provisions:

(i) An industry standard disclaimer for licensees' and third parties' use of the software; and

(ii) A grant of permission for licensee to distribute OSS containing the licensee's derivative works. This provision may allow the licensee and third parties to commercialize their derivative works or might request that the licensee's derivative works be forwarded to the Contractor for incorporation into future OSS versions.

(7) Collection of administrative costs is permissible. However, the Contractor may not collect a royalty or other fee in excess of a good faith amount for cost recovery from any licensee for the Contractor's OSS.

(8) *Relationship to other required clauses in the contract.* OSS distributed in accordance with this section shall not be subject to the requirements relating to indemnification of the Contractor or Federal Government, U.S. Competitiveness and U.S. Preference, as set forth in paragraphs (f) and (g) of the clause within this contract entitled Technology Transfer Mission (48 CFR 970.5227-3). The

requirement for the Contractor to request permission to assert copyright for the purpose of engaging in licensing software for royalties, as set forth elsewhere in this clause, is not modified by this section.

(9) *Government license.* For all OSS, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in data copyrighted to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.

(10) *Contractor abandons OSS.* If the Contractor ceases to make OSS publicly available, then the Contractor shall submit to OSTI the object code and source code of the latest version of the OSS developed by the Contractor in addition to a revised Announcement Notice 241.4 (which includes an abstract) and the Contractor shall direct any inquiries from third parties seeking to obtain the original OSS to OSTI.

(g) *Subcontracting.*

(1) Unless otherwise directed by the contracting officer, the Contractor agrees to use in subcontracts in which technical data or computer software is expected to be produced or in subcontracts for supplies that contain a requirement for production or delivery of data in accordance with the DOE policy and procedures by using "Rights in Data-General" at 48 CFR 52.227-14 modified in accordance with 927.409(a) and including Alternate V. Other modifications (e.g., Alternates II through IV of that clause or using "Special Works" at 48 CFR 52.227-17) may be made with the approval of the Patent Counsel. The Contractor shall not acquire rights in a subcontractor's limited rights data or restricted computer software, except through the use of Alternates II or III, respectively, without the prior approval of the Patent Counsel. The clause at 48 CFR 52.227-16, Additional Data Requirements, shall be included in subcontracts in accordance with 48 CFR 927.409(h). In subcontracts, including subcontracts for related support services, involving the design or operation of any plants or facilities or specially designed equipment for such plants or facilities that are managed or operated under its contract with DOE, the Contractor shall instead use the "Rights in Data-Facilities" clause at 48 CFR 970.5227-1.

(2) It is the responsibility of the Contractor to obtain from its subcontractors technical data and computer software and rights therein, on behalf of the Government, necessary to fulfill the Contractor's obligations to the Government with respect to such data. In the event of refusal by a subcontractor to accept a clause affording the Government such rights, the Contractor shall: (i) Promptly submit written notice to the contracting officer setting forth reasons or the subcontractor's refusal and other pertinent information which may expedite disposition of the matter, and (ii) Not proceed with the subcontract without the written authorization of the contracting officer.

(3) Neither the Contractor nor higher-tier subcontractors shall use their power to award subcontracts as economic leverage to acquire rights in a subcontractor's limited rights data and restricted computer software for their private use.

(h) *Rights in Limited Rights Data.*

Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable nonexclusive, paid-up license by or for the Government, in any limited rights data of the Contractor specifically used in the performance of this Contract, provided, however, that to the extent that any limited rights data when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Limited Rights Notice" set forth below. All such limited rights data shall be marked with the following "Limited Rights Notice:"

Limited Rights Notice

These data contain "limited rights data," furnished under Contract No. _____ with the United States Department of Energy which may be duplicated and used by the Government with the express limitations that the "limited rights data" may not be disclosed outside the Government or be used for purposes of manufacture without prior permission of the Contractor, except that further disclosure or use may be made solely for the following purposes:

- (a) Use (except for manufacture) by support services contractors within the scope of their contracts;
 - (b) This "limited rights data" may be disclosed for evaluation purposes under the restriction that the "limited rights data" be retained in confidence and not be further disclosed;
 - (c) This "limited rights data" may be disclosed to other contractors participating in the Government's program of which this Contract is a part for information or use (except for manufacture) in connection with the work performed under their contracts and under the restriction that the "limited rights data" be retained in confidence and not be further disclosed;
 - (d) This "limited rights data" may be used by the Government or others on its behalf for emergency repair or overhaul work under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; and
 - (e) Release to a foreign government, or instrumentality thereof, as the interests of the United States Government may require, for information or evaluation, or for emergency repair or overhaul work by such government.
- This Notice shall be marked on any reproduction of this data in whole or in part.

(End of Notice)

(i) *Rights in restricted computer software.*

(1) Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up, license by or for the Government, in any restricted computer software of the Contractor specifically used in the performance of this Contract; provided, however, that to the extent that any restricted computer software when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Restricted Rights Notice" set forth below. All such restricted computer software shall be marked with the following "Restricted Rights Notice:"

Restricted Rights Notice - Long Form (a) This computer software is submitted with restricted rights under Department of Energy Contract No. _____. It may not be used, reproduced, or disclosed by the

Government except as provided in paragraph (b) of this notice. (b) This computer software may be: (1) Used or copied for use in or with the computer or computers for which it was acquired, including use at any Government installation to which such computer or computers may be transferred; (2) Used, copied for use, in a backup or replacement computer if any computer for which it was acquired is inoperative or is replaced; (3) Reproduced for safekeeping (archives) or backup purposes; (4) Modified, adapted, or combined with other computer software, provided that only the portions of the derivative software consisting of the restricted computer software are to be made subject to the same restricted rights; and (5) Disclosed to and reproduced for use by contractors under a service contract (of the type defined in 48 CFR 37.101) in accordance with subparagraphs (b)(1) through (4) of this Notice, provided the Government makes such disclosure or reproduction subject to these restricted rights. (c) Notwithstanding the foregoing, if this computer software has been published under copyright, it is licensed to the Government, without disclosure prohibitions, with the rights set forth in the restricted rights notice above. (d) This Notice shall be marked on any reproduction of this computer software, in whole or in part.

(End of notice)

(2) Where it is impractical to include the Restricted Rights Notice on restricted computer software, the following short-form Notice may be used in lieu thereof:

Restricted Rights Notice - Short Form Use, reproduction, or disclosure is subject to restrictions set forth in the Long Form Notice of DOE Contract No. ____ with (name of Contractor).

(End of notice)

(3) If the software is embedded, or if it is commercially impractical to mark it with human readable text, then the symbol R and the clause date (mo/yr) in brackets or a box, e.g., a [R-mo/yr], may be used. This will be read to mean restricted computer software, subject to the rights of the Government as described in the Long Form Notice, in effect as of the date indicated next to the symbol. The symbol shall not be used to mark human readable material. In the event this Contract contains any variation to the rights in the Long Form Notice, then the contract number must also be cited.

(4) If restricted computer software is delivered with the copyright notice of 17 U.S.C. 401, the software will be presumed to be published copyrighted computer software licensed to the Government without disclosure prohibitions and with unlimited rights, unless the Contractor includes the following statement with such copyright notice "Unpublished-rights reserved under the Copyright Laws of the United States."

(j) *Relationship to patents.* Nothing contained in this clause creates or is intended to imply a license to the Government in any patent or is intended to be construed as affecting the scope of any licenses or other rights otherwise granted to the Government under any patent.

(End of clause)

Table with columns: Rep Entity, Fund Code, Approp Year, Program, Legacy B&R, Object Class, Local Use, Project, WFO, Legacy Order Number, OCTADJ1-19 Beginning Uncosted Obs, Previous, Change, Revised, Total Available. Includes subtotals for Program Parents C000984, C001009, and C001018.

Subtotal for Program Parent: C001021, KL0000000 95,874.00 200,000.00 0.00 200,000.00 295,874.00

2015 2924205 KP1602010 25400 0000000 0000000 0000000 U.S. DEPARTMENT OF ENERGY 12,195.00 0.00 0.00 0.00 12,195.00

Financial Plan Number: 49

DOE AFP Local Financial Plan Report
 Period Name: APR-19
 PO Number: OR23177
 Fund Parent: ALL FUNDS
 Fiscal Year: 2019
 Reporting Entity:
 Allottee:
 Run Prior AFP Report?: N
 Report Run Type: FINAL
 Prior Financial Plan Run Code: OR23177-48 (21-MAR-2019 11:20:11)
 Changes Only?: N
 To Date:
 Report Output Type: BEARS VERSION
 Report Output: TEXT

Report Date: 25-APR-19 10:55
 Page: 2of 5

Rep Entity	Fund Code	Approp Year	Program	Legacy B&R	Object Class	Local Use	Project	WFO	Legacy Order Number	OCTADJ1-19 Beginning Uncosted Obs	Previous	Change	Revised	Total Available
Subtotal for Program Parent: C001024, KP0000000										12,195.00	0.00	0.00	0.00	12,195.00
472101	00500	2016	2924033	39KB00000PRN065C01000	32001	0472770	0000000	0000000		72,102.00	0.00	0.00	0.00	72,102.00
Subtotal for Program Parent: C001191, 39KB01000										72,102.00	0.00	0.00	0.00	72,102.00
2016	2924363	KA2403013	25400	0000000	0000000	0000000				6,170.00	-6,170.00	0.00	-6,170.00	0.00
2018	2924366	KA2501012	25400	0000000	0000000	0000000				160,000.00	0.00	0.00	0.00	160,000.00
2017	2924366	KA2501012	25400	0000000	0000000	0000000				5,056.00	0.00	0.00	0.00	5,056.00
2015	2924369	KA2501022	25400	0000000	0000000	0000000				69.00	-69.00	0.00	-69.00	0.00
2018	2924380	KA2601020	25400	0000000	0000000	0000000				365,000.00	0.00	0.00	0.00	365,000.00
2017	2924380	KA2601020	25400	0000000	0000000	0000000				28,047.00	0.00	0.00	0.00	28,047.00
2015	2924382	KA2602010	25400	0000000	0000000	0000000				6,507.00	0.00	0.00	0.00	6,507.00
Subtotal for Program Parent: C002852, KA0000000										571,849.00	-6,239.00	0.00	-6,239.00	565,610.00
2019	2924305	KC0406020	25400	0000000	0000000	0000000				0.00	150,000.00	-150,000.00	0.00	0.00
Subtotal for Program Parent: C002853, KC0000000										0.00	150,000.00	-150,000.00	0.00	0.00
2014	2924279	39KG02000PRN135C71000	32001	0000000	0000000	0000000				13,049.00	0.00	0.00	0.00	13,049.00
Subtotal for Program Parent: C002914, 39KG00000										13,049.00	0.00	0.00	0.00	13,049.00
2017	2924416	KG0701000	32002	0000000	0000000	0000000				5,546,054.00	0.00	0.00	0.00	5,546,054.00
Subtotal for Program Parent: C002925, KG0700000										5,546,054.00	0.00	0.00	0.00	5,546,054.00
Subtotal for Fund: 00500										45,415,569.24	104,065,269.00	28,147,000.00	132,212,269.00	177,627,838.24
00510	2015	1720614	650102000	25400	0000000	0000000	0507537	ORJSA2014S008		13,587.00	-13,587.00	0.00	-13,587.00	0.00
2015	1720616	650201010	25400	0000000	0000000	0509348	ORJSA2015S007			145.00	-145.00	0.00	-145.00	0.00
2014	1720616	650201010	25400	0000000	0000000	0505862	ORJSA2013S014			1,871.00	-1,871.00	0.00	-1,871.00	0.00
2013	1720616	650201010	25400	0000000	0000000	0503044	ORJSA2012S015			1,828.95	0.00	0.00	0.00	1,828.95
2013	1720616	650201010	25400	0000000	0000000	0504212	ORJSA2013S009			278.00	-278.00	0.00	-278.00	0.00
Subtotal for Program Parent: C000738, 650000000										17,709.95	-15,881.00	0.00	-15,881.00	1,828.95
2019	7400168	453065021	25400	0000000	0000000	0516636	ORJSA2017S015			0.00	56,360.00	0.00	56,360.00	56,360.00
2019	7400168	453065021	25400	0000000	0000000	0519758	ORJSA2019S001			0.00	12,500.00	0.00	12,500.00	12,500.00
2019	7400168	453065021	25400	0000000	0000000	0516295	ORJSA2017S016			0.00	25,000.00	25,000.00	50,000.00	50,000.00
2019	7400168	453065021	25400	0000000	0000000	0518172	ORJSA2018S005			0.00	10,000.00	0.00	10,000.00	10,000.00
2019	7400168	453065021	25400	0000000	0000000	0516888	ORJSA2016S014			0.00	138,640.47	0.00	138,640.47	138,640.47
2019	7400168	453065021	25400	0000000	0000000	0519590	ORJSA2018S009			0.00	22,500.00	22,500.00	45,000.00	45,000.00
2018	7400168	453065021	25400	0000000	0000000	0518960	ORJSA2018S007			175,000.00	0.00	0.00	0.00	175,000.00
2018	7400168	453065021	25400	0000000	0000000	0517504	ORJSA2016S005			1,065.00	-1,065.00	0.00	-1,065.00	0.00
2018	7400168	453065021	25400	0000000	0000000	0516888	ORJSA2016S014			12,162.00	0.00	0.00	0.00	12,162.00
2018	7400168	453065021	25400	0000000	0000000	0514251	ORJSA2016S012			867.00	-867.00	0.00	-867.00	0.00
2018	7400168	453065021	25400	0000000	0000000	0518172	ORJSA2018S005			20,000.00	0.00	0.00	0.00	20,000.00
2018	7400168	453065021	25400	0000000	0000000	0516295	ORJSA2017S016			46,400.00	0.00	0.00	0.00	46,400.00
2018	7400168	453065021	25400	0000000	0000000	0516636	ORJSA2017S015			163,706.00	0.00	0.00	0.00	163,706.00
2018	7400168	453065021	25400	0000000	0000000	0512244	ORJSA2016S004			77,236.00	0.00	0.00	0.00	77,236.00
2017	7400168	453065021	25400	0000000	0000000	0509348	ORJSA2015S007			1,078.00	-1,078.00	0.00	-1,078.00	0.00
2017	7400168	453065021	25400	0000000	0000000	0515220	ORJSA2017S011			41,568.00	0.00	0.00	0.00	41,568.00

Year	Fund Code	Approp Year	Program	Legacy B&R	Object Class	Local Use	Project	WFO	Legacy Order Number	OCTADJ1-19 Beginning Uncosted Obs	Previous	Change	Revised	Total Available
2017	7400168	453065021			25400	0000000	0000000	0512074	ORJSA2016S002	34,608.00	0.00	0.00	0.00	34,608.00
2016	7400168	453065021			25400	0000000	0000000	0511364	ORJSA2013S018	3,677.00	0.00	0.00	0.00	3,677.00
2016	7400168	453065021			25400	0000000	0000000	0505862	ORJSA2013S014	2,089.00	-2,089.00	0.00	-2,089.00	0.00
2016	7400168	453065021			25400	0000000	0000000	0511095	ORJSA2015S003	3,100.00	0.00	0.00	0.00	3,100.00
2016	7400168	453065021			25400	0000000	0000000	0511839	ORJSA2015CERN	2,885.10	-2,885.10	0.00	-2,885.10	0.00
2016	7400168	453065021			25400	0000000	0000000	0503044	ORJSA2012S015	626.68	0.00	0.00	0.00	626.68

Subtotal for Program Parent: C003017, 453000000 586,067.78 257,016.37 47,500.00 304,516.37 890,584.15

Subtotal for Fund: 00510 603,777.73 241,135.37 47,500.00 288,635.37 892,413.10

Financial Plan Number: 49

U.S. DEPARTMENT OF ENERGY
 DOE AFP Local Financial Plan Report
 Period Name: APR-19
 PO Number: OR23177
 Fund Parent: ALL FUNDS
 Fiscal Year: 2019
 Reporting Entity:
 Allottee:
 Run Prior AFP Report?: N
 Report Run Type: FINAL
 Prior Financial Plan Run Code: OR23177-48 (21-MAR-2019 11:20:11)
 Changes Only?: N
 To Date:
 Report Output Type: BEARS VERSION
 Report Output: TEXT

Report Date: 25-APR-19 10:55
 Page: 3of 5

Rep Entity	Fund Code	Approp Year	Program	Legacy B&R	Object Class	Local Use	Project	WFO	Legacy Order Number	OCTADJ1-19 Beginning Uncosted Obs	Previous	Change	Revised	Total Available
472101	00511	2015	1720575	600303000	25400	0000000	0000000	0502366	ORJSA-2011W014A	3,047.00	0.00	0.00	0.00	3,047.00
		2014	1720575	600303000	25400	0000000	0000000	0509161	ORJSA2011W014B	1,662,488.00	0.00	0.00	0.00	1,662,488.00
		2011	1720575	600303000	25400	0000000	0000000	0499478	ORJSA-2011W014	267.00	0.00	0.00	0.00	267.00
		2015	1720577	600305000	25400	0000000	0000000	0507633	ORJSA2014W011	38,343.00	0.00	0.00	0.00	38,343.00
		2015	1720577	600305000	25400	0000000	0000000	0508329	ORJSA2015W002	1,003.00	0.00	0.00	0.00	1,003.00

Subtotal for Program Parent: C000737, 600000000 1,705,148.00 0.00 0.00 0.00 1,705,148.00

2018	7400116	453060034			25400	0000000	0000000	0502366	ORJSA-2011W014A	144,000.00	0.00	0.00	0.00	144,000.00
2018	7400116	453060034			25400	0000000	0000000	0513660	ORJSA2016W008	1,597.00	-1,597.00	0.00	-1,597.00	0.00
2018	7400116	453060034			25400	0000000	0000000	0513661	ORJSA2016W009	761.00	-761.00	0.00	-761.00	0.00
2018	7400116	453060034			25400	0000000	0000000	0509161	ORJSA2011W014B	650,000.00	0.00	0.00	0.00	650,000.00
2017	7400116	453060034			25400	0000000	0000000	0509161	ORJSA2011W014B	270,890.00	0.00	0.00	0.00	270,890.00
2017	7400116	453060034			25400	0000000	0000000	0502366	ORJSA-2011W014A	340,000.00	0.00	0.00	0.00	340,000.00
2016	7400116	453060034			25400	0000000	0000000	0502366	ORJSA-2011W014A	161,797.00	0.00	0.00	0.00	161,797.00
2019	7400118	453060036			25400	0000000	0000000	0507633	ORJSA2014W011	0.00	85,000.00	0.00	85,000.00	85,000.00
2017	7400118	453060036			25400	0000000	0000000	0507633	ORJSA2014W011	9,117.00	0.00	0.00	0.00	9,117.00
2016	7400118	453060036			25400	0000000	0000000	0508329	ORJSA2015W002	26,799.75	0.00	0.00	0.00	26,799.75

Subtotal for Program Parent: C003017, 453000000 1,604,961.75 82,642.00 0.00 82,642.00 1,687,603.75

Subtotal for Fund: 00511 3,310,109.75 82,642.00 0.00 82,642.00 3,392,751.75

00512	2017	7400040	453040135		25400	0000000	0000000	0514957	ORJSA17IA014	29,372.07	0.00	0.00	0.00	29,372.07
	2017	7400182	453040196		25400	0000000	0000000	0514957	ORJSA15IA0018	8,320.93	0.00	0.00	0.00	8,320.93

Subtotal for Program Parent: C003017, 453000000 37,693.00 0.00 0.00 0.00 37,693.00

Subtotal for Fund: 00512 37,693.00 0.00 0.00 0.00 37,693.00

00674	2018	4500001	TT1020000		25400	0000000	0000000	0000000		0.00	29,500.00	0.00	29,500.00	29,500.00
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Subtotal for Program Parent: C003093, TT0000000 0.00 29,500.00 0.00 29,500.00 29,500.00

Subtotal for Fund: 00674 0.00 29,500.00 0.00 29,500.00 29,500.00

00922	2019	1721310	YN1901000		25400	0000000	0000000	0515579	ARGONNE 8T-30067 E-BEAM WELDING	0.00	5,000.00	0.00	5,000.00	5,000.00
	2019	1721310	YN1901000		25400	0000000	0000000	0515501	BROOKHAVEN 342230 EIC R&D Research	0.00	0.00	72,000.00	72,000.00	72,000.00
	2019	1721310	YN1901000		25400	0000000	0000000	0515503	ORNL 4400000581 ECP ASCR	0.00	300,516.00	0.00	300,516.00	300,516.00
	2019	1721310	YN1901000		25400	0000000	0000000	0515648	FERMI HL-LHC ACCELERATOR 654726	0.00	88,070.69	0.00	88,070.69	88,070.69
	2019	1721310	YN1901000		25400	0000000	0000000	0515500	FERMI 641343 CAVITIES IMPROVEMENTS	0.00	50,000.00	0.00	50,000.00	50,000.00
	2019	1721310	YN1901000		25400	0000000	0000000	0515518	SLAC 183676 SRF Cavities for LCLS-II	0.00	842,800.00	0.00	842,800.00	842,800.00

2019	1721310	YN1901000	25400	0000000	0000000	0506426	HE ORSLAC 125201 LCLS-II CRYMODULE	0.00	7,100,000.00	2,000,000.00	9,100,000.00	9,100,000.00
2018	1721310	YN1901000	25400	0000000	0000000	0515493	BROOKHAVEN 340638 eRD22 R&D	38,063.00	0.00	0.00	0.00	38,063.00
2018	1721310	YN1901000	25400	0000000	0000000	0515535	ORNL AUTH SNS Proton Power Upgrade	1,389,044.51	0.00	0.00	0.00	1,389,044.51
2018	1721310	YN1901000	25400	0000000	0000000	0515500	FERMI 641343 CAVITIES IMPROVEMENTS	63,561.00	0.00	0.00	0.00	63,561.00
2018	1721310	YN1901000	25400	0000000	0000000	0515503	ORNL 4400000581 ECP ASCR	474,362.00	0.00	0.00	0.00	474,362.00
2018	1721310	YN1901000	25400	0000000	0000000	0515520	PNNL 411174 Issue Mgmt Process Travel	86.00	0.00	0.00	0.00	86.00
2018	1721310	YN1901000	25400	0000000	0000000	0515518	SLAC 183676 SRF Cavities for LCLS-II HE	163,319.00	0.00	0.00	0.00	163,319.00
2018	1721310	YN1901000	25400	0000000	0000000	0515514	SLAC 181827 CD-1 Review for LCLS II HE	35,338.00	0.00	0.00	0.00	35,338.00
2018	1721310	YN1901000	25400	0000000	0000000	0515498	FERMI 641178 Lattice QCD Computing	2,793.00	-2,793.00	0.00	-2,793.00	0.00

Financial Plan Number: 49

U.S. DEPARTMENT OF ENERGY
DOE AFP Local Financial Plan Report
Period Name: APR-19
PO Number: OR23177
Fund Parent: ALL FUNDS
Fiscal Year: 2019
Reporting Entity:
Allottee:
Run Prior AFP Report?: N
Report Run Type: FINAL
Prior Financial Plan Run Code: OR23177-48 (21-MAR-2019 11:20:11)
Changes Only?: N
To Date:
Report Output Type: BEARS VERSION
Report Output: TEXT

Report Date: 25-APR-19 10:55
Page: 4of 5

Rep Entity	Fund Code	Approp Year	Program	Legacy B&R	Object Class	Local Use	Project	WFO	Legacy Order Number	OCTADJ1-19 Beginning Uncosted Obs	Previous	Change	Revised	Total Available
472101	00922	2018	1721310	YN1901000	25400	0000000	0000000	0515501	BROOKHAVEN 342230 EIC R&D Research	8,059.00	0.00	0.00	0.00	8,059.00
		2018	1721310	YN1901000	25400	0000000	0000000	0506426	ORSLAC 125201 LCLS-II CRYMODULE	18,754,015.00	0.00	0.00	0.00	18,754,015.00
		2018	1721310	YN1901000	25400	0000000	0000000	0515528	ORNL AUTH TEST HB CAVITIES	78,831.00	0.00	0.00	0.00	78,831.00
		2018	1721310	YN1901000	25400	0000000	0000000	0515519	Brookhaven 348363 EIC R&D Compton	469.50	0.00	0.00	0.00	469.50
		2017	1721310	YN1901000	25400	0000000	0000000	0515350	ORSNS CAVITY PROCESSING	1,153.00	0.00	0.00	0.00	1,153.00
		2017	1721310	YN1901000	25400	0000000	0000000	0510827	ORNBROOKHAVEN 303473 EIC R&D FOF COMPTON	41,492.00	0.00	0.00	0.00	41,492.00
		2017	1721310	YN1901000	25400	0000000	0000000	0515377	Argonne 7T-30009 Cell Cavity & VTA Tests	27,042.00	0.00	0.00	0.00	27,042.00
		2016	1721310	YN1901000	25400	0000000	0000000	0511632	ORNL SNS CAV PROCESSING	930.00	0.00	0.00	0.00	930.00
		2016	1721310	YN1901000	25400	0000000	0000000	0513313	ORNL 4400000581 EXASCALE COMPUT PROJ	3,241.00	0.00	0.00	0.00	3,241.00
		2015	1721310	YN1901000	25400	0000000	0000000	0508522	ORORNL 4400000483- 00002 INCITE PROGRAM	7,393.00	0.00	0.00	0.00	7,393.00
		2015	1721310	YN1901000	25400	0000000	0000000	0510336	ORFERMI 623843 PROTOTYPE RFD/DQW	34,579.00	0.00	0.00	0.00	34,579.00
		2014	1721310	YN1901000	25400	0000000	0000000	0506348	ORSNS CAVITY PROCESSING 4400000482	15,141.00	0.00	0.00	0.00	15,141.00
		2013	1721310	YN1901000	25102	0471981	0000000	0504378	ORNL AUTH JLAB ENGINEERING CONSULTING	14,927.00	0.00	0.00	0.00	14,927.00
Subtotal for Program Parent: C001129, YN1900000										21,153,839.01	8,383,593.69	2,072,000.00	10,455,593.69	31,609,432.70
Subtotal for Fund: 00922										21,153,839.01	8,383,593.69	2,072,000.00	10,455,593.69	31,609,432.70
02300	2018	2720715	ST5001030		25400	0000000	0000000	0000000		354,726.00	0.00	0.00	0.00	354,726.00
Subtotal for Program Parent: C001087, ST0000000										354,726.00	0.00	0.00	0.00	354,726.00
Subtotal for Fund: 02300										354,726.00	0.00	0.00	0.00	354,726.00
05450	2013	1005091	EL1708000		25400	0000000	0000000	0000000		43,620.00	0.00	0.00	0.00	43,620.00
Subtotal for Program Parent: C000955, EL1700000										43,620.00	0.00	0.00	0.00	43,620.00

Subtotal for Fund: 05450	43,620.00	0.00	0.00	0.00	43,620.00
Subtotal for Reporting Entity: 472101	70,919,334.73	112,802,140.06	30,266,500.00	143,068,640.06	213,987,974.79
Grand Total:	70,919,334.73	112,802,140.06	30,266,500.00	143,068,640.06	213,987,974.79

Financial Plan Number: 49

U.S. DEPARTMENT OF ENERGY
 DOE AFP Local Financial Plan Report
 Period Name: APR-19
 PO Number: OR23177
 Fund Parent: ALL FUNDS
 Fiscal Year: 2019
 Reporting Entity:
 Allottee:
 Run Prior AFP Report?: N
 Report Run Type: FINAL
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 Page: Sof 5

Rep Entity	Fund Code	Approp Year	Program	Legacy B&R	Object Class	Local Use	Project	WFO	Legacy Order Number	OCTADJ1-19 Beginning Uncosted Obs	Previous	Change	Revised	Total Available
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Agency Sub-Report

Agency	Obligation Change Amount
Work for Others Funds Associated with Federal Agencies:	0.00
Total DOE Funds:	28,147,000.00
Total Non-Appropriated Funds:	2,119,500.00
Grand Total:	30,266,500.00

TAS Sub-Report

DOE Funding:
 Reimbursable Funding:

089X0222

*** End of Report ***