

2. AMENDMENT/MODIFICATION NO. 490	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code) Bechtel National, Inc. 450 Hills Street Richland, WA 99354	9A. AMENDMENT OF SOLICITATION NO. <input type="checkbox"/> 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ ORDER NO. DE-AC27-01RV14136 <input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) December 11, 2000
CODE 396A5	FACILITY CODE 089176176

11. THIS ITEM 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 telegram 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 DATE AND HOUR 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 telegram or letter, provided each telegram or letter makes reference to the solicitation and amendment and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

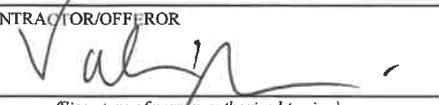
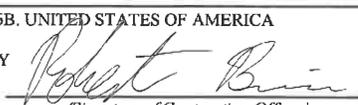
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH IN ITEM 14.

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.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF: FAR 43.103 Types of Contract Modifications (a) Bilateral - Mutual Agreement of the Parties
<input type="checkbox"/>	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.)
Reference Continuation Page(s)

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

15A. NAME AND TITLE OF SIGNER (Type or print) Valerie McCain Project Director	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Robert Burrier Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 24 Sep 2020
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 9/25/2020

Purpose of Modification:

The purpose of this modification is to update Section B, *Supplies or Services and Prices/Costs*, Section I, *Contract Clauses*, and Section J, *List of Attachments*, as follows:

- Correct language from Mod 489 that incorrectly labeled the Control Point for EMF Baseline.
- Replace table in Section B.3 to include new IEWO funding for Unitech.
- Update Table B.1 and Attachment B-1 to account for CY19 Award Fee paid and Lab Startup Testing Fee paid. This decreases the amount of Available Fee, increases the Fee Earned, and decreases Total Estimated Contract Price.
- Update Table in Attachment B-2-D, Incentive Fee D- Award Fee to account for CY19 Award Fee paid.
- Update Section I, *Contract Clauses*, to update Clause I.85 FAR 52.244-2 Subcontracts for incorrect consent threshold.
- Update and replace table in Section J, *List of Attachments*, Attachment E, *List of Applicable Directives*, paragraph (b) to make the following changes
 - Correct DOE O 205.1B, Change 1 CRD to Change 2 CRD. This CRD was supposed to be implemented as Change 2 in Mod 387 when it was added, but it was incorrectly input as Change 1.
 - Add DOE O 442.1B as the new DOE Employee Concerns Document and remove the outdated DOE O 442.1A & Supplemented Rev. 3 CRD.

Description of Modification:

1. The continuation pages on Modification 489 incorrectly stated that the Control Point for EMF Baseline was 1111710 in the table for the Purpose of Modification section and in item 1 of Description of Modification section. The correct Control Point is 1111711. No mistakes were made to the actual Contract Sections. The following changes officially correct Modification 489.

Description	Control Point	Local Use Code	Appropriation Year	Funded Amount
EMF Baseline	1111710 1111711	0421586	2020	\$806,517.00

The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a) is revised as follows:

- The total amount of funds obligated to EMF Baseline ~~1111710~~ 1111711 - 0421586 is increased by \$806,517.00 from \$534,447,919.63 to \$535,254,436.63.
2. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a) is revised as follows:
- IEWO 89303918FEM400008 (UNITECH) is added as an initial award for \$30,000.00.
 - The total IEWO funding is increased by \$30,000.00 from \$85,918,852.35 to \$85,948,852.35.
 - The total funding obligated to the Budgetary Control Points, including Program Direction, Inter-Entity Work Order Funding and Request for Service Funding, is increased by \$30,000.00 from \$13,076,357,449.72 to \$13,076,387,449.72.
3. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a), is deleted in its entirety and replaced in full as follows:

BUDGETARY CONTROL POINTS FOR WTP PROJECT				
Description	Appropriation Symbol	B&R No. (Control Point)	Local Use Code	Budget Authority
	1250	1110401		\$3,006,205,907.70
LAW	1250	1111183		\$637,537,062.71
LAB	1250	1111184		\$207,817,505.32
BOF	1250	1111185		\$261,722,260.48
HLW	1250	1111186		\$559,580,100.04
PT	1250	1111187		\$840,766,807.09
LAW	1250 and 1260	1111241		\$1,691,548,709.50
DFLAW	1250 and 1260	1111243		\$157,063,073.13
LAB	1250 and 1260	1111242		\$349,312,452.11
BOF	1250 and 1260	1111243		\$648,031,980.05
HLW	1250 and 1260	1111244		\$1,029,273,076.81
PT	1250 and 1260	1111245		\$1,526,044,506.86
LAW Baseline	1260	1111710	0421573	\$725,366,374.97
LAB Baseline	1260	1111710	0421574	\$106,126,283.51
BOF Baseline	1260	1111710	0421575	\$343,359,687.30
EMF Baseline	1260	1111711	0421586	\$535,254,436.63
HLW Baseline	1260	1111714	0421587	\$119,300,121.35
PT Baseline	1260	1111716	0421588	\$40,695,760.93
LAW COVID	1260	1111710	0421573	\$24,578,699.03
LAB COVID	1260	1111710	0421574	\$4,446,716.49
BOF COVID	1260	1111710	0421575	\$13,091,795.47
EMF COVID	1260	1111711	0421586	\$14,479,080.37
HLW COVID	1260	1111714	0421587	\$5,921,281.65

PT COVID	1260	1111716	0421588	\$651,815.87
LAW Fee	1260	1111712	0421573	\$98,626,594.00
LAB Fee	1260	1111712	0421574	\$16,096,000.00
BOF Fee	1260	1111712	0421575	\$16,346,714.00
HLW Fee	1260	1111715	0421587	\$4,284,932.00
PT Fee	1260	1111717	0421588	\$4,402,416.00
Subtotal - Budgetary Controls Points for WTP Project thru Contract Modification No. 489				\$12,987,932,151.37

BUDGETARY CONTROL POINTS FOR PROGRAM DIRECTION

Description	Appropriation Symbol	B&R No. (Control Point)	Budget Authority
PD	1250	1110462	\$1,280,000.00
PD	1250	1110458	\$1,210,000.00
Subtotal - Budgetary Controls Points, including Project Direction, thru Contract Modification No. 489			\$12,990,422,151.37

INTER-ENTITY WORK ORDER FUNDING

IEWO Identification Numbers	IEWO Amendment No.	Funding
M0SRLE60 Funding (SRNS/SRNL)	40	\$73,957,217.82
M0SRV00028 Funding (SRNS)	43	\$7,056,600.30
M0SRV00036 Funding (WSRC)	3	\$69,807.36
M0SRV00042 Funding (ORNL)	2	\$27,599.05
M0IDV00061 Funding (BEA)	1	\$21,277.60
M0ORV00088 Funding (ORNL)	2	\$150,848.30
M0NSV00089 Funding (SNL)	1	\$18,030.68
M0SRV00105 Funding (SRNS)	10	\$4,207,471.24
M0FTV00117 Funding (NETL)	4	\$410,000.00
89303918FEM400008 Funding (UNITECH)	Initial Award	\$30,000.00
Total - IEWO Funding 490		\$85,948,852.35

REQUEST FOR SERVICE FUNDING

RFS Number	Supplement No.	Funding
M14009 Funding (MSA)	0	\$16,446.00
Total – RFS Funding 367		\$16,446.00

Total Budgetary Control Points for WTP Project 490	\$13,076,387,449.72
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BEA = Battelle Energy Alliance	SRNL = Savannah River National Laboratory.
NETL = National Energy Technology Laboratory.	SRNS = Savannah River Nuclear Solutions.
ORNL = Oak Ridge National Laboratory.	WSRC = Washington Savannah River Company.

4. As a result of payment for CY19 Award Fee and Lab Startup Testing Incentive Fee, the table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (c) is revised as follows:

- The Maximum Available Award Fee (CY 2016-2022) is decreased by \$7,872,603 from \$31,490,414 to \$23,617,811. The Award Fee Earned is increased by \$5,003,178.28 from \$14,815,776 to \$19,818,954.28.
- The Fee Category (E2) Commission LBL in the DFLAW Configuration Performance Based Incentive Fee Available is decreased by \$6,650,000 from \$152,950,000 to \$146,300,000. The E2 Fee Earned is increased by \$6,650,000 from \$6,650,000 to \$13,300,000.
- The Total Maximum Available Fee is decreased by \$14,522,603 from \$243,740,414 to \$229,217,811.
- The Total Fee Earned is increased by \$11,653,178.28 from \$341,120,899 to \$352,774,077.28.
- The Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) is decreased by \$2,869,424.72 from \$14,669,609,178 to \$14,666,739,753.28.

5. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (c), is deleted in its entirety and replaced in full as follows:

Table B.1 – Total Estimated Contract Price

		Cost		
Total Estimated Contract Cost (TECC) through Mod No. 487				<u>\$14,084,256,935</u>
Total Estimated Contract Cost (490)		CLIN Estimated Cost	Increased/ Decreased by Mod 490	Total CLIN Estimated Cost
B.1	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration	\$6,390,168,711		\$6,390,168,711
B.2	CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW			
	Sub-CLIN 2.1: DFLAW Design (Target Cost)	\$76,359,283		\$76,359,283
	Sub-CLINs 2.2 /2.3 DFLAW Procurement/ Construction	\$481,157,678 (Previous NTE Values)		\$481,157,678
B.3	CLIN 3.0 HLW Facility	\$2,741,179,982		\$2,741,179,982
B.4	CLIN 4.0: PT Facility	\$4,395,882,211		\$4,395,882,211
Revised Total Estimated Contract Cost (TECC) through Mod No. 490				<u>\$14,084,747,865</u>
Fee				
		Available		Earned
Earned before Mod No. 384				Total

Contract No. DE-AC27-01RV14136
Modification No. 490
SF-30 Continuation

		Cost		
A1	Final Fee Determination – Pre-Mod No. A143			\$102,622,325
A2	Final Fee Earned Mod No. A143 – Mod No. 384			\$131,573,553
	Fixed Fee Payment (Attachment B-2-C)***	\$0		\$60,000,000
	Pending Activity Milestones (Attachment B-2-B)	\$0		\$6,667,000
	Maximum Available Award Fee (CY 2016–2022) (Attachment B-2-D)	\$23,617,811		\$19,818,954.28
CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration				
E1	LBL Construction Complete Performance Based Incentives (Attachment B-2-E)	\$51,300,000		\$17,100,000
E2	Commission LBL in the DFLAW Configuration Performance Based Incentive (Attachment B-2-F)	\$146,300,000	\$6,650,000	\$13,300,000
E3	Schedule Incentive Hot Commissioning (Attachment B-2-F)	+/- \$60,000,000 (Max)		
E4	Cost Share Incentive (Attachment B-2-G)	+/- \$50,000,000 (Max)		
E5	REA Fee Negotiated After Mod 384 (487)			\$692,245
	CLIN 2.1: Performance-Based Incentive for DFLAW Design Completion (Attachment B-2-H)	\$8,000,000		\$1,000,000
	Total Maximum Available Fee****	\$229,217,811		
	Total Fee Earned (490)			\$352,774,077.28
	Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) (490)			\$14,666,739,753.28

6. The table in Attachment B-1 in Section B, *Supplies or Services and Prices/Costs*, is deleted in its entirety and replaced in full as follows:

Incentive Element	Title	Fee type	Performance Measure	Amount of Fee Available	Amount Paid
B-2-A	Final Fee Determination for work prior to Mod No. A 143	Fixed	Determined by Contracting Officer		\$102,622,325
B-2-B	Earned Activity Milestone Completion Incentive Fees, REA Settlement Fees, Enhanced Incentive Fee, Earned Facility Milestone Completion Schedule Fee, and Award Fee earned before mod (384)	Fixed	Determined by Contracting Officer		* \$131,573,553
	Pending Activity Milestones	Fixed	Determined by Contracting Officer	\$0	\$6,667,000
B-2-C	Fixed Fee Payment	Fixed		\$0	\$60,000,000
			TOTAL B-2-C	\$0	\$300,862,878
B-2-D	Award Fee (From Mod (384) to December 2022).	Award Fee	To be established prior to each calendar year. Will be based upon DOE goals set for HLW and PT and Project Management.		
			CY2016	\$0	\$7,242,000
			CY2017	\$0	\$3,805,961
			CY2018	\$0	\$3,767,815
			CY2019	\$0	\$5,003,178.28
			CY2020	\$7,872,603	
			CY2021	\$7,872,603	
	CY2022	\$7,872,605			
			Total B-2-D	\$23,617,811	\$19,818,954.28
B-2-E	LBL Physical Plant Complete Performance Based Incentives		Interim Milestones		
		PBI	Install Caustic Scrubber Vessel Milestone	\$0	\$4,275,000
		PBI	Complete Final Assembly of Melter Lid #1 Milestone	\$0	\$4,275,000
		PBI	Complete Final Assembly of Melter Lid #2 Milestone	\$0	\$4,275,000
		PBI	Complete LAW Bulk Cable EL+ 48 Milestone	\$0	\$4,275,000
			Final Milestone		
		PBI	Final LBL Physical Plant Complete Milestone	\$51,300,000	

			TOTAL B-2-E	\$51,300,000	\$17,100,000
B-2-F	Commission LBL in the DFLAW Configuration Performance Based Incentive		Interim Milestones		
		PBI	Approval of LAW DSA	\$0	\$6,650,000
		PBI	LAB Startup Testing Complete	\$0	\$6,650,000
		PBI	LAW Startup Testing Complete	\$6,650,000	
		PBI	EMF Startup Testing Complete	\$6,650,000	
		PBI	LAB Readiness to Operate	\$6,650,000	
		PBI	LAW DOE HQ ORR Complete	\$6,650,000	
			Final Milestone		
	PBI	Successful Demonstration of Hot Commissioning	\$119,700,000		
	Commission LBL in the DFLAW Configuration Performance Based Schedule Incentive/disincentive		Based upon actual completion date of Successful Demonstration of Hot Commissioning	+/- \$60,000,000	
			TOTAL B-2-F	\$146,300,000	\$13,300,000
B-2333-G	CLIN 1.0 Cost Share Incentives	IF	Cost sharing incentive/disincentive based on final CLIN 1 cost above or below the Target cost as defined in Attachment B-2-G	+/- \$50,000,000	
	REA Fee Negotiated After Mod 384 (487)	FF	Fixed Fee payment for REAs Negotiated After Mod 384		\$692,245
			TOTAL B-2-G		\$692,245
B-2-H	DFLAW design completion	PBI	Complete the constructability review milestone	\$0	\$500,000
		PBI	Prepare and issue DFLAW EMF safety basis change package	\$0	\$500,000
	Cost Share incentive for CLIN 2.1	IF	DOE and the contractor will share cost on CLIN 2.1 final total cost above or below the Target Cost as defined in Table B-2-H-1.	\$8,000,000	
			TOTAL B-2-H	\$8,000,000	\$1,000,000
			TOTAL FEE AVAILABLE	\$229,217,811	
			TOTAL FEE EARNED (487)		\$352,774,077.28

7. The table in Attachment B-2-D in Section B, *Supplies or Services and Prices/Costs*, is deleted in its entirety and replaced in full as follows:

Calendar Year	Award Fee Period	Total Award Fee		
		Available	Earned	Unearnable
2016	2016	\$10,200,000	\$7,242,000	\$2,958,000
2017	2017	\$7,872,603	\$3,805,961	\$4,066,642
2018	2018	\$7,872,603	\$3,767,815	\$4,104,788
2019	2019	\$7,872,603	\$5,003,178.28	\$2,869,424.72
2020		\$7,872,603		
2021		\$7,872,603		
2022		\$7,872,605		
Total		\$57,435,620	\$19,818,954.28	\$13,998,854.72

8. Section I, *Contract Clauses*, Contract Clause I.85, FAR 52.244-2 Subcontracts (AUG 1998) – Alternate II (AUG 1998) is revised to correct the consent threshold amount from \$25M to \$50M. Contract Clause I.85 (e)(2) is deleted in its entirety and replaced as follows:

(2) A consent threshold is applicable to new awards ("Rev. 0") (effective January 22, 2008) and subsequent modifications increasing the value (effective March 2010) equal

to or greater than ~~\$25,000,000~~ \$50,000,000, in accordance with the following time periods/values. (M107) (M118) (M166) **(490)**

9. The table in paragraph (b) in Section J, *List of Attachments*, Attachment E, *List of Applicable Directives*, is deleted in its entirety and replaced in full as follows:

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
06-AMD-050 (CCN 144548)		DELETED (310)	
		Deleted (376)	
DOE/EM-0093	12/96	Waste Acceptance Product Specifications for Vitrified High-Level Waste Forms (WAPS), Revision 2 (114)	Contract Clause C.8, Specification 1, 1.2.1.4 and 1.2.2.1.1 (175)
DOE/RL-94-02, Rev 6 (336)	06/2014 (336)	Hanford Emergency Management Plan (197, 310) (Revision 6, June 2014) (336)	Contract Clause C.6, Standard 4(j) and Standard(e)(1) Table S7-1 (175, 197, 336)
DOE M 140.1-1B, CRD	03/30/01	Interface with Defense Nuclear Facilities Safety Board.	Contract Clause C.4 (d) (175)
DOE O 142.3A, CRD	10/14/10	Unclassified Foreign Visits and Assignments Program (047, 124, 204)	The order is effective regardless of comment above at (b) (175)
DOE O 205.1B, Change 2, CRD	12/07/12	Cyber Security Program (387)	Effective with Modification No. 384 and implemented in accordance with CCN: 266220 (14-WTP-0011), Attachment 1, "CRD 205.1B, Chg 2 (Supplemented Rev. 0)" and CCN: 267962 (14-WTP-0051). (387) .
DOE M 205.1-2		DELETED (175)	
DOE M 205.1-5, CRD		DELETED (194)	
DOE M 205.1-6, CRD		DELETED (194)	
DOE M 205.1-7, CRD		DELETED (194)	
DOE M 205.1-8, CRD		DELETED (194)	
DOE O 206.1, CRD	01/16/09	DOE Privacy Program (235)	The order is effective regardless of comment above at (b). Contractor shall implement in accordance with CCN: 231161 (321)
DOE O 206.2, CRD, Supplemented Rev. 1 (425)	02/19/13	Identity, Credential, and Access Management (307)	The order is effective regardless of comment above at (b) (307)

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE O 210.2A, CRD	04/8/11	DOE Corporate Operating Experience Program (077, 310)	Contract Clause H.49 (175) Refer to Note 10 (310)
DOE O 221.1A, CRD		DELETED (467)	
DOE O 221.1B, CRD	09/27/16	Reporting Fraud, Waste and Abuse to the Office of Inspector General (467)	Refer to Note 3 (467)
DOE O 221.2A, CRD	02/25/08	Cooperation with the Office of Inspector General (133)	Refer to Note 3 (175)
DOE O 226.1B, CRD	04/25/11	Implementation of Department of Energy Oversight Policy (069, 108, 310)	Contract Clause H.46 (175) Refer to Note 11 (310)
DOE O 231.1B, CRD (363)	6/27/2011	Environment, Safety, and Health Reporting (033, 310)	Contract Clause C.6, Standard 1(d)(6) (175, 310)
DOE M 231.1-1A, Change 2, CRD		DELETED (332)	
DOE M 231.1-2, CRD		DELETED (256)	
SCRD M 231.1-2		DELETED (256)	
DOE Order 232.2A, CRD (406)	9/29/2017	Occurrence Reporting and Processing of Operations Information(406)	Contract Clause C.6, Standard 1(d)(5) and (6). (406)
OOD-ORP-PPD-OAA-50136, Appendix C (476)	07/22/2019	Facility Representative Contractor Requirements Document (476)	
CRD O 232.2A (Supplemented Rev.0)(406)	9/29/2017	Environmental Mangement Contractor Requirements Document (Supplemented DOE O 232.2A), Occurrence Reporting and Process of Operations Information (406) DELETED (476)	Contract Clause C.6, Standard 1(d)(5) and (6). (406)
SCRD-DOE Order 232.2A (406)	9/29/2017	ORP Supplemental Contractor Requirements Document (SCRD), for DOE Order 232.2A, Occurrence Reporting and Processing of Operations Information (406) DELETED (476)	Contract Clause C.6, Standard 1(d)(5) and (6). (406)
HFID 232-1B		DELETED (256)	
DOE N 234.1, CRD		DELETED (310)	

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE O 241.1, CRD		DELETED (310)	
DOE/RW-0333P	10/01/08	Quality Assurance Requirements and Description for the Civilian Radioactive Waste Management Program (QARD) – Revision 20 (099, 134)	Contract Clause C.6, Standard 2(a)(2)(v), Standard 5(d), and Standard 7(e)(3)(ii)(A) and Contract Clause C.8, Specification 1, 1.2.1.7, 1.2.2.1.1, and 1.3 (175)
DOE O 350.1, Chg 3, CRD	02/23/10	Contractor Human Resource Management Program (171, 175)	Contract Clause H.37 (175)
DOE/RW-0351	5/31/07	Waste Acceptance System Requirements Document– (WASRD) - Revision 5 (114)	Contract Clause C.6, Standard 2(a)(3)(vii)(E) and Standard 6(c)(2) and Contract Clause C.8, Specification 1, 1.2.1.3 and 1.2.2.1.1 (175)
DOE O 413.3A, CRD		DELETED (271)	
DOE M 413.3-1		DELETED (271)	
DOE O 413.3B, CRD	11/29/10	Program and Project Management for the Acquisition of Capital Assets. Refer to Note 7 for implementation (271)	Contract Clause C.3, paragraph (b), subparagraph (1), item (ix), C.6, Standard 1, opening paragraph, (a), (b)(3) and (c)(1) and Standard 5(a)(6) and (k)
DOE O 414.1C, CRD	06/17/05	Quality Assurance (066)	Contract Clause C.6, Standard 7(e)(3)(i) & (iv) (175)
DOE 414.1D, CRD, Chg 1	05/08/13	Quality Assurance (349)	The order is effective regardless of comment above at (b) and implemented in accordance with Note 14 (349)
DOE O 420.1C, CRD, Chg 1, Chapter V	02/27/15	Facility Safety (Partial Implementation Only Chapter V. Cognizant System Engineer Program) (369)	The order is effective regardless of comment above at (b) Implemented for LBL commissioning only in accordance with CCN: 276975
DOE O 422.1, Change 1, CRD	06/25/13	Conduct of Operations (207)(387)	Effective with Modification No. 384 and implemented in accordance with CCN: 276479. (387)
DOE-0223	Effective the date of Modification No. 384	RL Emergency Plan Implementing Procedures (384)	Implemented in accordance with 16-CPM-0072
DOE-0336	9/15/2011	Hanford Site Lockout/Tag out (384)	Implemented in accordance with 16-CPM-0072
DOE-0343	3/26/2013	Hanford Site Wide Stop Work Order Procedure (384)	Implemented in accordance with 16-CPM-0072

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE-0346		Hanford Site Fall Protection Program (HSFPP) (384)	Implemented in accordance with 16-CPM-0072
DOE-0352	11/14/2012	Hanford Site Respiratory Protection Program (HSRPP) (384)	Implemented in accordance with 16-CPM-0072
DOE-0355		Hanford Standardized HAZWOPER Training Program Description (384)	Implemented in accordance with 16-CPM-0072
DOE-0359	11/14/2012	Hanford Site Electrical Safety Program (384)	Implemented in accordance with 16-CPM-0072
DOE-0360		Hanford Site Confined Space Procedure (384)	Implemented in accordance with 16-CPM-0072
DOE O 425.1D, Chg 1, CRD	04/16/10	Verification of Readiness to Start Up or Restart Nuclear Facilities (033, 190, 310)	Contract Clause C.6, Standard 5(a)(5), (c)(6), (e)(2), (f)(ii), and (g) (175, 310) Contractor shall implement in accordance with CCN: 281821 (363)
DOE O 433.1B, CRD Admin Chg 1	04/21/10 03/12/13	Maintenance Management Program for DOE Nuclear Facilities (342)	This order is effective regardless of comment above at (b). (342, 387)
DOE O 435.1, Chg 1, CRD	08/28/01	Radioactive Waste Management	Implementation of this DOE CRD using the graded approach; approved by 05-WED-047; CCN: 136281 satisfies the comment above at (b) (130, 175, 278)
DOE M 435.1-1	07/09/99	Radioactive Waste Management Manual	Contract Clause C.8, Specification 2, 2.2.1.13, 2.2.2.23, & 2.4 (175)
DOE M 441.1-1, CRD	03/07/08	Nuclear Material Packaging	The manual is effective regardless of comment above at (b) (130, 175)
DOE O 442.1B	01/31/19	Department of Energy Employee Concerns Program (490)	Contractor shall implement in accordance with CCN: 319207 (490)
DOE O 442.2, Chg 1, CRD	10/05/16	Differing Opinions for Technical Issues Involving Environment, Safety, and Health (271, 440)	The order is effective regardless of comment above at (b) and implemented as described in CCN: 246747
DOE O 442.1A & Supplemented Rev. 3 CRD	06/06/01	Department of Energy Employee Concerns Program (029, 293) DELETED (490)	The order is effective regardless of comment above at (b) (175) and implemented as described in CCN: 249676 (293) Contractor shall implement in accordance with CCN: 266683 (332)

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE M 442.1-1 CRD		DELETED (271)	
DOE M 450.4-1, CRD		DELETED (310)	
DOE O 458.1, Chg. 2		Radiation Protection of the Public and the Environment (384)	Implemented in accordance with 16-CPM-0072
DOE M 470.4-1, CRD	08/26/05	Safeguards and Security Program Planning and Management (136, 171)	Refer to Note 1 (175)
DOE M 470.4-2A, CRD		DELETED (310)	
DOE M 470.4-4A	01/16/09	Information Security Manual (145)	Refer to Note 2 (175)
DOE O 471.3, CRD	4/9/03	Identifying and Protecting Official Use Only Information (087)	Contract Clause H.50 (175)
DOE M 471.3-1, Chg 1, CRD	4/9/03	Manual for Identifying and Protecting Official Use Only Information (087, 310)	Contract Clause H.50 (175) Refer to Note 12 (310)
DOE O 475.1, CRD	12/10/04	Counterintelligence Program (071)	Contract Clause C.6, Standard 8(c) (175)
DOE/RW-0511, Volume I, Rev. 4	03/07/08	Integrated Interface Control Document (ICD), High-Level Radioactive Waste and U.S. Department of Energy and Naval Spent Nuclear Fuel to the Civilian Radioactive Waste Management System (114)	Contract Clause C.8, Specification 1,1.2.1.5 and 1.2.2.1.1 (321)
DOE O 551.1D, CRD	04/02/12	Official Foreign Travel. Refer to Note 4 (141, 175, 283)	Contract Clause I.109 (175). Implemented in accordance with CCN: 243970, and 12-WTP-0272 (CCN: 251792) and Note 4 (283, 363)
DOE-HDBK-1092-2004, Appendix A	12/2004	DOE Electrical Safety Handbook. Refer to Note 6 (209)	The order is effective regardless of comment above at (b)
RL/REG-2000-04		DELETED (215)	
DOE/ORP-2000-06		Deleted through Contract Modification No. M082 (175)	
DOE STD 3009		DELETED (310)	
DOE O 5480.20A, Change 1, CRD		DELETED (310)	

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
SCSP	05/9/06	Richland Regional Office Site Counterintelligence Support Plan Hanford Site - Bechtel National, Inc. (BNI) (071)	Contract Clause C.6, Standard 8(c) (175)
DOE-0364		DELETED (366)	
HNF-EP-0063	02/01/11	Hanford Site Solid Waste Acceptance Criteria (310)	The order is effective regardless of comment above at (b)
DOE/RL-92-36 Rev 1, Release 84	11/18/14 03/04/20	Hanford Site Hoisting and Rigging Manual (342) (476)	The order is effective regardless of comment above at (b) and implemented in accordance with Note 13
DOE/RL-2001-36, Rev 1E, Appendix I.7	05/01/11	Immobilized low-activity waste (ILAW) Special Packaging Authorization of the Hanford Sitewide Transportation Safety Document (310)	Implemented per C.8, Specification 2, 2.2.1.21 and 2.2.2.10 (293)
DOE/RL-2002-12		Hanford Radiological Health and Safety Document (384)	Implemented in accordance with 16-CPM-0072
DOE O 151.1C, CRD	11/02/05	Comprehensive Emergency Management System (310)	Implemented in accordance with DOE/RL-94-02
DOE O 473.3, CRD	06/29/11	Protection Program Operations (310)	The order is effective regardless of comment above at (b)
DOE O 426.2, CRD	04/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities (310)	Contract Clause C.3(f)(6) (321) Refer to Note 8 (310)
DOE O 225.1B, CRD	03/04/11	Accident Investigations (310)	Refer to Note 9 (310)
DOE-STD-3009	1994	Preparation Guide for DOE Nonreactor Nuclear Facility Safety Analysis Reports (Change Notice 3, March 2006) (029, 152, 321)	Contract Clause C.6, Standard 9, paragraph 2 (321) DELETED (472)
DOE-STD-1228	2019	Preparation of Documented Safety Analysis for Hazard Category 3 Nuclear Facilities (472)	Contract Clause C.6, Standard 9, paragraph 2 (472)
DOE-HDBK-1092-2013, Appendix D	07/2013	DOE Electrical Safety Handbook. Refer to Note 15 (353)	The order is effective regardless of comment above at (b)

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE-STD-1195	09/2016	Design of Safety Significant Safety Instrumented Systems Used at DOE Non-Reactor Nuclear Facilities (384)	Implement clause 11.4 (inclusive of subclauses 11.4.1 through 11.4.9) of International Electrotechnical Commission (IEC) standard 61511-1 (Edition 2.0) concurrent with DOE-STD-1195-2011 as a means of achieving Safety Integrity Level – 2 (SIL-2) for low demand simple Safety Instrumented Functions without requiring redundancy, particularly with respect to final control devices such as valves. (384)

10. All other terms and conditions remain unchanged.

(End of Modification)