

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 6
2. AMENDMENT/MODIFICATION NO. 0556	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 Richland WA 99352	CODE 893040	7. ADMINISTERED BY (If other than Item 6) Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 MS: H6-60 Richland WA 99352	CODE 00603
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) WASHINGTON RIVER PROTECTION SOLUTIONS LLC Attn: Keven Mabe Washington River Protection Solutions LLC 2425 Stevens Center Pl Richland WA 99354-1874		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE 806500521 FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC27-08RV14800	
		10B. DATED (SEE ITEM 13) 05/29/2008	

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)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	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. FAR 52.243-2 Changes - Cost Reimbursement (AUG 1987)
	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).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to definitize the Fiscal Year 2020 contract extension and Additional FY20 Work Scope, update contract section B, revise the FY20 PEMP, and delete contract section J, attachment J.17. See continuation pages for further details.

FOB: Destination
Period of Performance: 06/20/2008 to 09/30/2020.

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) Katie Downing, Contracts Mgr.	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Wade E. Hader
15B. CONTRACTOR/OFFEROR KOL (Signature of person authorized to sign)	15C. DATE SIGNED 2/5/2020
16B. UNITED STATES OF AMERICA Wade E. Hader (Signature of Contracting Officer)	16C. DATE SIGNED 5 Feb 2020

Previous edition unusable

Continuation of Block 14. Description of Amendment/Modification

The purpose of this change order is to make the following changes:

1. Definitize cost and fee for the FY 2020 Contract Extension work scope. The addition of this new scope increases the cost by \$734,333,310.72 and fee by \$50,700,000, for a total increase in contract value of \$785,033,310.72. The cost and fee are incorporated in the B.4-1 Table by sub-Contract Line Item Number (CLIN), FY, shown in the table below.

Fiscal Year 2020 Contract Extension (CP-19-013)	FY2020
SubCLIN 1.2.1 - Safe, Compliant Operations	\$ 304,528,426.00
SubCLIN 1.2.2 - Base Operations Indirect Costs (G&A Only)	\$ 93,665,616.85
SubCLIN 1.3 - Analytical Laboratory Support	\$ 36,489,158.01
SubCLIN 2.1 - Single Shell Tank Retrieval	\$ 106,591,972.20
SubCLIN 2.2 - SST Farm (Waste Management Area) Closure	\$ 4,493,085.48
SubCLIN 3.1 - Treatment Planning, WFD and WTP Transition	\$ 58,278,096.57
SubCLIN 3.2 - WTP Operational Readiness	\$ 1,900,669.48
SubCLIN 3.3 - Immobilized High-Level Waste (IHLW) Storage & Shipping Facility Construction	\$ 7,351,993.06
SubCLIN 3.4 - Upgrade/Operate Effluent Treatment Facility	\$ 31,816,901.63
SubCLIN 4.3 - Supplemental Treatment Design	\$ 3,791,075.45
SubCLIN 5.1 - Tank Selection, Retrieval, Pretreatment & Feed Delivery Design	\$ 47,355,523.39
SubCLIN 6.1 - Hanford Employee Retirement & Benefit Plan Management	\$ 38,070,792.60
Subtotal Cost	\$ 734,333,310.72
Fee increase (pool)	\$ 50,700,000.00
Total Increase Cost plus Fee	\$ 785,033,310.72

2. Definitize cost and fee for FY 2020 Additional Work Scope. The addition of this new scope increases the cost by \$14,071,368.72 and fee by \$1,002,646.22, for a total increase in contract value of \$15,074,014.94. The cost and fee are incorporated in the B.4- 1 Table by sub- CLIN, FY, shown in the table below.

Fiscal Year 2020 Additional Work Scope	FY2020
SubCLIN 1.2.1 - Safe, Compliant Operations	\$ 5,489,197.08
SubCLIN 1.2.2 - Base Operations Indirect Costs (G&A Only)	\$ 1,794,829.97
SubCLIN 1.3 - Analytical Laboratory Support	\$ 1,209,453.26
SubCLIN 2.1 - Single Shell Tank Retrieval	\$ 4,353,596.13
SubCLIN 2.2 - SST Farm (Waste Management Area) Closure	\$ 474,996.54
SubCLIN 3.1 - Treatment Planning, WFD and WTP Transition	\$ 85,761.48
SubCLIN 6.1 - Hanford Employee Retirement & Benefit Plan Management	\$ 663,534.26
Subtotal Cost	\$ 14,071,368.72
Fee increase (pool)	\$ 1,002,646.22
Total Increase Cost plus Fee	\$ 15,074,014.94

- Incorporate cost and fee for the FY 2020 work scope previously negotiated for Fire Alarm Panel Upgrades in contract modification 508 (CP-17-004). The addition of this scope increases the cost by \$215,726.10 and fee by \$13,084.22, for a total increase in contract value of \$228,810.32. The cost and fee are removed from Contract Section J, Attachment J.17 and incorporated in the B.4-1 Table by sub- CLIN, FY, shown in the table below.

Fire Alarm Panel Upgrades (CP-17-004)	FY2020
SubCLIN 1.2.1 - Safe, Compliant Operations	\$ 180,427.74
SubCLIN 1.2.2 - Base Operations Indirect Costs (G&A Only)	\$ 27,516.28
SubCLIN 6.1 - Hanford Employee Retirement & Benefit Plan Management	\$ 7,782.08
Subtotal Cost	\$ 215,726.10
Fee increase (pool)	\$ 13,084.22
Total Increase Cost plus Fee	\$ 228,810.32

Note: the values include rate adjustments that were provisionally approved since originally negotiated onto contract and added to the J.17 Table in mod 508, dated 10-17-2018.

- Revise Contract Section J, Attachment J.17, to remove the cost and fee for the FY 2020 Tank Side Cesium Removal (TSCR) Capability work scope previously negotiated and included in contract modification 502 (CP-18-001). This scope of work was re-negotiated as part of the FY 2020 contract extension cost and fee. The reduction from Attachment J.17 for this scope is \$4,659,530.02 and fee of \$348,787.08, for a total decrease of \$5,008,317.10.
- Remove Contract Section J, Attachment J.17, in its entirety as a result of removing the cost and fee listed in Attachment J.17 table for items 3 and 4 above.
- Include FY 2020 cost for CLIN 6.2, *Pension and Welfare Plans*, in the amount \$9,551,044 for Mound and \$26,356,477 for Rocky Flats for a total of \$35,907,521.
- Revise Contract Section J, Attachment J.4 in its entirety to incorporate the Performance Evaluation and Measurement Plan (PEMP) Revision 1 for FY 2020 (Attachment 4).
- As a result of this modification, the Contract Value is changed by \$836,243,656.98 from \$6,955,827,826.83 to \$7,792,071,483.81. Section B, Table B.4-1 is changed as follows:

FROM:

Table B.4-1 Contract Cost and Contract Fee

CLIN	Sub-CLIN	Auth	Transition FY 2008	Base Period					Totals	Option Period 1			Totals	Option Period 2			Extension			Contract Totals Totals
				FY 2009	FY 2010	FY 2011	FY 2012	FY 2013		FY 2014	FY 2015	FY 2016		FY 2017	FY 2018	FY 2019	FY 2020			
CLIN 1 Base Operations	1.11	A	5,494,000	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,494,000.00
	1.21	A	0	108,317,537	130,557,912	139,669,524	138,592,209	176,874,583	694,011,765	215,393,004.61	262,726,567.76	255,262,185.16	733,381,757.53	300,982,734.68	300,411,333.06	601,394,067.75	332,619,115.72	1,087,082.39	333,706,198.11	2,362,493,788.34
	1.22	A	0	29,509,468	33,281,799	30,647,681	44,176,825	44,686,448	182,302,220	49,756,360.42	61,732,950.26	70,529,647.44	182,018,958.11	83,905,807.79	74,846,240.12	158,752,047.91	95,522,923.76	492,229.03	96,015,152.79	619,088,379.27
	1.3	A	0	18,551,276	19,732,180	22,296,216	23,131,428	23,312,148	107,023,247	31,337,058.29	28,332,863.18	36,917,456.74	96,587,378.22	33,638,931.57	37,130,176.98	70,769,108.55	37,559,202.41	0.00	37,559,202.41	311,938,936.36
CLIN 2 SST Retrv. & Closure	2.1	A	0	57,403,068	72,752,511	75,625,974	84,296,755	94,643,864	384,722,172	55,930,407.30	80,664,671.98	57,396,603.55	193,991,682.84	111,781,012.54	71,131,069.54	182,912,082.08	109,043,299.93	0.00	109,043,299.93	870,669,236.64
	2.2	A	0	1,385,657	2,367,273	3,266,018	381,496	512,554	7,912,998	2,599,094.17	5,833,999.36	4,947,599.41	13,380,692.94	8,603,388.40	3,455,666.86	12,059,055.26	6,038,118.36	0.00	6,038,118.36	39,390,864.14
CLIN 3 WTP Support	3.1	A	0	7,973,682	17,498,036	20,512,679	36,090,531	27,944,842	110,019,770	31,749,228.75	20,891,238.11	28,897,199.68	81,537,666.54	40,284,181.99	47,120,497.96	87,404,679.95	57,495,561.95	0.00	57,495,561.95	336,457,678.59
	3.2	A	0	926,406	3,845,905	2,538,026	3,272,674	2,588,147	13,171,157	10,476,467.85	8,599,876.31	7,592,899.69	26,669,243.85	4,845,337.33	6,996,755.68	11,842,093.01	13,907,123.83	0.00	13,907,123.83	65,589,617.94
	3.3	A	0	829,600	3,462,842	2,535,361	3,317,522	309,605	10,454,929	3,620,996.96	3,802,246.18	3,160,390.98	10,583,634.13	5,527,185.69	6,245,469.60	11,772,655.29	6,346,837.82	0.00	6,346,837.82	39,158,056.71
	3.4	A	0	158,274	544,884	1,787,451	4,212,966	39,542	6,743,117	3,410,479.79	8,409,961.89	23,842,851.49	35,663,293.17	16,195,021.87	16,127,482.28	32,322,504.15	27,685,028.56	2,154,364.69	29,839,393.25	104,568,307.79
CLIN 4 Supplemental Treatment	4.1	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.2	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.3	A	0	0	2,798,664	8,547,404	976,925	4,795,858	17,118,850	5,053,482.96	6,051,884.80	9,996,859.02	21,102,226.78	0.00	0.00	0.00	0.00	0.00	0.00	38,221,077.07
	4.4	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.5	A	0	2,412	0	0	110,034	375,222	487,668	702,630.06	0.00	0.00	702,630.06	0.00	0.00	0.00	0.00	0.00	0.00	1,190,297.84
CLIN 5 Early Feed & Operation of the WTP LAW	5.1	A	0	0	0	0	0	0	0	3,641,836.17	10,326,096.86	35,590,888.57	49,558,821.59	49,789,697.60	28,633,954.56	78,423,652.15	20,832,003.12	0.00	20,832,003.12	148,814,476.87
	5.2	A	0	0	0	0	0	0	0	0.00	0.00	63,707.85	63,707.85	0.00	0.00	0.00	0.00	0.00	0.00	63,707.85
	5.3	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.4	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLIN 6 Pension & Welfare Plans	6.1	A	0	14,203,459	19,021,014	16,942,123	23,321,065	26,803,599	100,291,259	33,082,022.57	37,692,214.81	39,569,785.19	110,344,022.56	40,326,130.03	36,063,680.98	76,389,811.00	36,639,903.08	125,372.38	36,765,275.46	323,790,368.29
	6.2	A	0	71,526,845	146,785,096	90,633,410	79,044,602	122,161,289	510,151,241	123,154,662.00	118,009,762.90	113,994,557.70	355,158,982.60	54,236,000.00	53,847,000.00	108,083,000.00	44,500,000.00	0.00	44,500,000.00	1,017,893,224.04
Base Contract Sub-Totals	Contract Cost		5,494,000	310,787,683	452,648,115	415,001,865	440,925,030	525,047,701	2,144,410,395	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	3,859,048.49	792,048,167.03	6,284,022,017.73
	Available Fee 1		0	14,902,548	21,704,882	19,899,711	21,142,750	24,524,804	102,174,694	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	0.00	52,169,818.72	347,143,462.12
	Contract Price		5,494,000	325,690,231	474,352,998	434,901,576	462,067,780	549,572,505	2,246,585,089	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	3,859,048.49	844,217,985.75	6,631,965,479.85
CLIN 7 American Recovery and Reinvestment Act (ARRA)	7.1	A	0	18,542,771	82,696,778	87,820,906	0	0	189,060,455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	189,060,454.81
	7.2	A	0	2,444,642	15,043,442	17,382,721	0	0	34,870,804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34,870,804.21
	7.3	A	0	3,599,231	20,087,000	26,950,992	0	0	50,637,222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50,637,222.49
	7.4	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7.5	A	0	820,051	2,960,284	4,272,691	0	0	8,053,026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,053,026.31
	7.6	A	0	0	8,620,572	10,278,267	0	0	18,898,839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,898,839.16
CLIN 8 Contract Closeout	8.1	A	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARRA & Contract Closeout Sub-Totals	Contract Cost		0	25,406,695	129,408,075	146,705,577	0	0	301,520,347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301,520,346.98
	Available Fee		0	2,853,000	11,180,000	8,309,000	0	0	22,342,000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22,342,000.00
	Contract Price		0	28,259,695	140,588,075	155,014,577	0	0	323,862,347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323,862,346.98
Contract Totals	Contract Cost		5,494,000	336,194,379	582,056,190	561,707,442	440,925,030	525,047,701	2,445,930,742	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	3,859,048.49	792,048,167.03	6,586,342,364.71
	Available Fee 1		0	17,755,548	32,884,882	28,208,711	21,142,750	24,524,804	124,516,694	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	0.00	52,169,818.72	369,485,462.12
	Contract Price		5,494,000	353,949,926	614,941,072	589,916,153	462,067,780	549,572,505	2,570,447,436	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	3,859,048.49	844,217,985.75	6,955,827,826.83

Option Period 2 and FY19 Extension Total Available Fee values represent the current negotiated Fee value of all contract change actions including definitized changes for these time periods. Currently the FY17, FY18, and FY19 Available Fee value (as defined by TOC B.4) represents the PEMP value for each corresponding Fiscal Year. Option Period 2 and FY19 Extension Total Available Fee columns represent the fee amounts negotiated. Once definitizations are complete, the necessary adjustments will be made to the B.4 table will be updated accordingly.

TO:

Table B.4-1 Contract Cost and Contract Fee

CLIN	Sub-CLIN	Auth	Transition FY 2008	Base Period					Totals	Option Period 1				Option Period 2			Extension			Contract Totals Totals
				FY 2009	FY 2010	FY 2011	FY 2012	FY 2013		FY 2014	FY 2015	FY 2016	Totals	FY 2017	FY 2018	Totals	FY 2019	FY 2020	Totals	
CLIN 1 Base Operations	1.1	A	5,494,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,494,000.00
	1.2.1	A	0.00	108,317,536.70	130,557,912.35	139,669,524.15	138,592,208.83	176,874,582.93	694,011,764.96	215,393,004.61	262,726,567.76	255,262,185.16	733,381,757.53	300,982,734.68	300,411,333.06	601,394,067.75	332,619,115.72	311,285,133.21	643,904,248.93	2,672,691,839.16
	1.2.2	A	0.00	29,509,468.03	33,281,798.88	30,647,681.01	44,176,824.67	44,686,447.87	182,302,220.46	49,756,360.42	61,732,950.26	70,529,647.44	182,018,958.11	83,905,807.79	74,846,240.12	158,752,047.91	95,522,923.76	95,980,192.13	191,503,115.89	714,576,342.37
	1.3	A	0.00	18,551,275.94	19,732,179.97	22,296,215.60	23,131,427.69	23,312,147.98	107,023,247.18	31,337,058.29	28,332,863.18	36,917,456.74	96,587,378.22	33,638,931.57	37,130,176.98	70,769,108.55	37,559,202.41	37,698,611.27	75,257,813.68	349,637,547.63
CLIN 2 SST Retrv. & Closure	2.1	A	0.00	57,403,068.25	72,752,511.36	75,625,973.89	84,296,754.53	94,643,863.76	384,722,171.79	55,930,407.30	80,664,671.98	57,396,603.55	193,991,682.84	111,781,012.54	71,131,069.54	182,912,082.08	109,043,299.93	110,945,568.33	219,988,868.26	981,614,804.97
	2.2	A	0.00	1,385,657.11	2,367,273.10	3,266,017.53	381,495.61	512,554.22	7,912,997.57	2,599,094.17	5,833,999.36	4,947,599.41	13,380,692.94	8,603,388.40	3,455,666.86	12,059,055.26	6,038,118.36	4,968,082.02	11,006,200.38	44,358,946.18
CLIN 3 WTP Support	3.1	A	0.00	7,973,682.21	17,498,035.99	20,512,678.70	36,090,530.97	27,944,842.28	110,019,770.15	31,749,228.75	20,891,238.11	28,897,199.68	81,537,666.54	40,284,181.99	47,120,497.96	87,404,679.95	57,495,561.95	58,363,858.05	115,859,420.00	394,821,536.64
	3.2	A	0.00	926,405.51	3,845,904.54	2,538,026.40	3,272,673.61	2,588,147.19	13,171,157.25	10,476,467.85	8,599,876.31	7,592,899.69	26,669,243.85	4,845,337.33	6,996,755.68	11,842,093.01	13,907,123.83	1,900,669.48	15,807,793.31	67,490,287.42
	3.3	A	0.00	829,599.90	3,462,842.00	2,535,360.67	3,317,522.33	309,604.57	10,454,929.47	3,620,996.96	3,802,246.18	3,160,390.98	10,583,634.13	5,527,185.69	6,245,469.60	11,772,655.29	6,346,837.82	7,351,993.06	13,698,830.88	46,510,049.77
	3.4	A	0.00	158,274.43	544,883.66	1,787,450.73	4,212,966.24	39,542.16	6,743,117.22	3,410,479.79	8,409,961.89	23,842,851.49	35,663,293.17	16,195,021.87	16,127,482.28	32,322,504.15	27,685,028.56	33,971,266.32	61,656,294.88	136,385,209.42
CLIN 4 Supplemental Treatment	4.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.2	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.3	A	0.00	0.00	2,798,664.23	8,547,403.83	976,924.69	4,795,857.54	17,118,850.29	5,053,482.96	6,051,884.80	9,996,859.02	21,102,226.78	0.00	0.00	0.00	0.00	3,791,075.45	3,791,075.45	42,012,152.52
	4.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.5	A	0.00	2,412.22	0.00	0.00	110,034.00	375,221.57	487,667.79	702,630.06	0.00	0.00	702,630.06	0.00	0.00	0.00	0.00	0.00	0.00	1,190,297.84
CLIN 5 Early Feed & Operation of the WTP LAW	5.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,641,836.17	10,326,096.86	35,590,888.57	49,558,821.59	49,789,697.60	28,833,954.56	78,423,652.15	20,832,003.12	47,355,523.39	68,187,526.51	196,170,000.26
	5.2	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63,707.85	63,707.85	0.00	0.00	0.00	0.00	0.00	63,707.85	
	5.3	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CLIN 6 Pension & Welfare Plans	6.1	A	0.00	14,203,458.58	19,021,013.58	16,942,122.67	23,321,065.00	26,803,599.43	100,291,259.26	33,082,022.57	37,692,214.81	39,569,785.19	110,344,022.56	40,326,130.03	36,063,680.98	76,389,811.00	36,639,903.08	38,867,481.32	75,507,384.40	362,532,477.23
	6.2	A	0.00	71,526,844.51	146,785,095.75	90,633,409.75	79,044,602.23	122,161,289.20	510,151,241.44	123,154,662.00	118,009,762.90	113,994,557.70	355,158,982.60	54,236,000.00	53,847,000.00	108,083,000.00	44,500,000.00	35,907,521.00	80,407,521.00	1,053,800,745.04
Base Contract Sub-Totals	Contract Cost		5,494,000.00	310,787,683.39	452,648,115.41	415,001,864.93	440,925,030.40	525,047,700.70	2,144,410,394.83	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	788,386,975.03	1,576,576,093.57	7,069,349,944.27
	Available Fee		0.00	14,902,547.54	21,704,882.20	19,899,710.80	21,142,749.79	24,524,804.09	102,174,694.42	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	50,700,000.00	103,885,549.16	398,859,192.56
	Contract Price		5,494,000.00	325,690,230.93	474,352,997.61	434,901,575.73	462,067,780.19	549,572,504.79	2,246,585,089.25	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	839,086,975.03	1,680,461,642.73	7,468,209,136.83
CLIN 7 American Recovery and Reinvestment Act (ARRA)	7.1	A	0.00	18,542,771.25	82,696,777.62	87,820,905.94	0.00	0.00	189,060,454.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	189,060,454.81
	7.2	A	0.00	2,444,642.06	15,043,441.60	17,382,720.55	0.00	0.00	34,870,804.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34,870,804.21
	7.3	A	0.00	3,599,230.55	20,086,999.61	26,950,992.33	0.00	0.00	50,637,222.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50,637,222.49
	7.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7.5	A	0.00	820,051.41	2,960,284.14	4,272,690.76	0.00	0.00	8,053,026.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,053,026.31
	7.6	A	0.00	0.00	8,620,571.75	10,278,267.41	0.00	0.00	18,898,839.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,898,839.16
CLIN 8 Contract Closeout	8.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ARRA & Contract Closeout Sub-Totals	Contract Cost		0.00	25,406,695.27	129,408,074.72	146,705,576.99	0.00	0.00	301,520,346.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301,520,346.98
	Available Fee		0.00	2,853,000.00	11,180,000.00	8,309,000.00	0.00	0.00	22,342,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22,342,000.00
	Contract Price		0.00	28,259,695.27	140,588,074.72	155,014,576.99	0.00	0.00	323,862,346.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323,862,346.98
Contract Totals	Contract Cost		5,494,000.00	336,194,378.66	582,056,190.13	561,707,441.92	440,925,030.40	525,047,700.70	2,445,930,741.81	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	788,386,975.03	1,576,576,093.57	7,370,870,291.23
	Available Fee		0.00	17,755,547.54	32,884,882.20	28,208,710.80	21,142,749.79	24,524,804.09	124,516,694.42	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	50,700,000.00	103,885,549.16	421,201,192.56
	Contract Price		5,494,000.00	353,949,926.20	614,941,072.33	589,916,152.72	462,067,780.19	549,572,504.79	2,570,447,436.23	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	839,086,975.03	1,680,461,642.73	7,792,071,483.81

Option Period 2, FY19, and FY20 Extension Total Available Fee values represent the current negotiated Fee value of all contract change actions including definitized changes for these time periods. Currently the FY17, FY18, FY19, and FY20 Available Fee value (as defined by TOC B.4) represents the PEMP value for each corresponding Fiscal Year. Option Period 2, FY19, and FY20 Extension Total Available Fee columns represent the fee amounts negotiated. Once definitizations are complete, the necessary adjustments will be made to the B.4 table will be updated accordingly.

9. Attached to this modification are:
- a. Attachment 1 – Replacement page for Section B, *Supplies or Services and Prices/Costs*, page B-6
 - b. Attachment 2 – Agreed to Cost Table
 - c. Attachment 3 – Risk Registers
 - d. Attachment 4 – Section J, Attachment J.4, *PEMP Rev. 1*
 - e. Attachment 5 – FY2020 Additional Work Scope Table

10. FAR 43.204(c)(2) - Contractor's Statements of Release –

Fiscal Year 2020 Contract Extension Proposal, CP-19-013

In consideration of the modification agreed to herein as complete equitable adjustments for Contractor's incorporation of the Fiscal Year 2020 *Contract Extension Proposal, CP-19-013*, (WRPS-1903330 R1), dated September 9, 2019, "proposal for adjustment," and as updated in Attachment 2, *Agreed to Cost Table*, and Attachment 3, *Risk Registers*, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributed to such facts or circumstances giving rise to the "proposal for adjustment" except for the exclusions identified in Contractor proposal, *Fiscal Year 2020 Contract Extension Proposal, CP-19-013* (WRPS-1903330 R1), and the items listed below, all of which will be subject to determination of entitlement at the time of submittal pursuant to Federal Acquisition Regulation (FAR) 52.243-2, Changes Cost-Reimbursement (Aug 1987):

- Full-face air-purifying respirators use in passively ventilated tank farms and for risk classification (RC)-3 and RC-4 work activities.
- Design Basis Threat Policy, DOE Order 470.3B to 470.3C impacts.

Fiscal Year 2020 Additional 9 Work Scopes

In consideration of the modification agreed to herein as complete equitable adjustments for Contractor's incorporation of the *Fiscal Year 2020 Additional 9 Work Scopes*, (WRPS-1903330.5), dated October 17, 2019, "proposal for adjustment," and as updated in Attachment 5, *FY2020 Additional Work Scope Table*, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributed to such facts or circumstances giving rise to the "proposal for adjustment" except for the exclusions identified in Contractor proposal, *Fiscal Year 2020 Additional 9 Work Scopes*, (WRPS-1903330.5), and the items listed below, all of which will be subject to determination of entitlement at the time of submittal pursuant to Federal Acquisition Regulation (FAR) 52.243-2, Changes Cost-Reimbursement (Aug 1987):

- None

11. All other Terms and Conditions remain unchanged.

ATTACHMENT 1
Section B Replacement Page

Total: 2 pages including this cover page

- Contract Section B, *Supplies or Services and Prices/Costs*, page B-6

Table B.4-1 Contract Cost and Contract Fee

CLIN	Sub-CLIN	Auth	Transition FY 2008	Base Period					Option Period 1				Option Period 2			Extension		Contract Totals		
				FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Totals	FY 2014	FY 2015	FY 2016	Totals	FY 2017	FY 2018	Totals	FY 2019	FY 2020	Totals	Totals
CLIN 1 Base Operations	1.1	A	5,494,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,494,000.00
	1.2.1	A	0.00	108,317,536.70	130,557,912.35	139,669,524.15	138,592,208.83	176,874,582.93	694,011,764.96	215,393,004.61	262,726,567.76	255,262,185.16	733,381,757.53	300,982,734.68	300,411,333.06	601,394,067.75	332,619,115.72	311,285,133.21	643,904,248.93	2,672,691,839.16
	1.2.2	A	0.00	29,509,468.03	33,281,798.88	30,647,681.01	44,176,824.67	44,686,447.87	182,302,220.46	49,756,360.42	61,732,950.26	70,529,647.44	182,018,958.11	83,905,807.79	74,846,240.12	158,752,047.91	95,522,923.76	95,980,192.13	191,503,115.89	714,576,342.37
	1.3	A	0.00	18,551,275.94	19,732,179.97	22,296,215.60	23,131,427.69	23,312,147.98	107,023,247.18	31,337,058.29	28,332,863.18	36,917,456.74	96,587,378.22	33,638,931.57	37,130,176.98	70,769,108.55	37,559,202.41	37,698,611.27	75,257,813.68	349,637,547.63
CLIN 2 SST Retrv. & Closure	2.1	A	0.00	57,403,068.25	72,752,511.36	75,625,973.89	84,296,754.53	94,643,863.76	384,722,171.79	55,930,407.30	80,664,671.98	57,396,603.55	193,991,682.84	111,781,012.54	71,131,069.54	182,912,082.08	109,043,299.93	110,945,568.33	219,988,868.26	981,614,804.97
	2.2	A	0.00	1,385,657.11	2,367,273.10	3,266,017.53	381,495.61	512,554.22	7,912,997.57	2,599,094.17	5,833,999.36	4,947,599.41	13,380,692.94	8,603,388.40	3,455,666.86	12,059,055.26	6,038,118.36	4,968,082.02	11,006,200.38	44,358,946.16
CLIN 3 WTP Support	3.1	A	0.00	7,973,682.21	17,498,035.99	20,512,678.70	36,090,530.97	27,944,842.28	110,019,770.15	31,749,228.75	20,891,238.11	28,897,199.68	81,537,666.54	40,284,181.99	47,120,497.96	87,404,679.95	57,495,561.95	58,363,858.05	115,859,420.00	394,821,536.64
	3.2	A	0.00	926,405.51	3,845,904.54	2,538,026.40	3,272,673.61	2,588,147.19	13,171,157.25	10,476,467.85	8,599,876.31	7,592,899.69	26,669,243.85	4,845,337.33	6,996,755.68	11,842,093.01	13,907,123.83	1,900,669.48	15,807,793.31	67,490,287.42
	3.3	A	0.00	829,599.90	3,462,842.00	2,535,360.67	3,317,522.33	309,604.57	10,454,929.47	3,620,996.96	3,802,246.18	3,160,390.98	10,583,634.13	5,527,185.69	6,245,469.60	11,772,655.29	6,346,837.82	7,351,993.06	13,698,830.88	46,510,049.77
	3.4	A	0.00	168,274.43	544,883.66	1,787,450.73	4,212,966.24	39,542.16	6,743,117.22	3,410,479.79	8,409,961.89	23,842,851.49	35,663,293.17	16,195,021.87	16,127,482.28	32,322,504.15	27,685,028.56	33,971,266.32	61,656,294.88	136,385,209.42
CLIN 4 Supplemental Treatment	4.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.2	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.3	A	0.00	0.00	2,798,664.23	6,547,403.83	976,924.69	4,795,857.54	17,118,850.29	5,053,482.96	6,051,884.80	9,996,859.02	21,102,226.78	0.00	0.00	0.00	0.00	3,791,075.45	3,791,075.45	42,012,152.52
	4.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4.5	A	0.00	2,412.22	0.00	0.00	110,034.00	375,221.57	487,667.79	702,630.06	0.00	0.00	702,630.06	0.00	0.00	0.00	0.00	0.00	0.00	1,190,297.84
CLIN 5 Early Feed & Operation of the WTP LAW	5.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,641,836.17	10,326,096.86	35,590,888.57	49,558,821.59	49,789,697.60	28,633,954.56	78,423,652.15	20,832,003.12	47,355,523.39	68,187,526.51	196,170,000.26
	5.2	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63,707.85	63,707.85	0.00	0.00	0.00	0.00	0.00	0.00	63,707.85	
	5.3	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CLIN 6 Pension & Welfare Plans	6.1	A	0.00	14,203,458.58	19,021,013.58	16,942,122.67	23,321,065.00	26,803,599.43	100,291,259.26	33,082,022.57	37,692,214.81	39,569,785.19	110,344,022.56	40,326,130.03	36,063,680.98	76,389,811.00	36,639,903.08	38,867,481.32	75,507,384.40	362,532,477.23
	6.2	A	0.00	71,526,844.51	146,785,095.75	90,633,409.75	79,044,602.23	122,161,289.20	510,151,241.44	123,154,662.00	118,009,762.90	113,994,557.70	355,158,982.60	54,236,000.00	53,847,000.00	108,083,000.00	44,500,000.00	35,907,521.00	80,407,521.00	1,053,800,745.04
Base Contract Sub-Totals	Contract Cost		5,494,000.00	310,787,683.39	452,648,115.41	415,001,864.93	440,925,030.40	525,047,700.70	2,144,410,394.83	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	788,386,975.03	1,576,576,093.57	7,069,349,944.27
	Available Fee		0.00	14,902,547.54	21,704,882.20	19,899,710.80	21,142,749.79	24,524,804.09	102,174,694.42	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	50,700,000.00	103,885,549.16	398,859,192.56
	Contract Price		5,494,000.00	325,690,230.93	474,352,997.61	434,901,575.73	462,067,780.19	549,572,504.79	2,246,585,089.25	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	839,086,975.03	1,680,461,642.73	7,468,209,136.83
CLIN 7 American Recovery and Reinvestment Act (ARRA)	7.1	A	0.00	18,542,771.25	82,696,777.62	87,820,905.94	0.00	0.00	189,060,454.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	189,060,454.81
	7.2	A	0.00	2,444,642.06	15,043,441.60	17,382,720.55	0.00	0.00	34,870,804.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34,870,804.21
	7.3	A	0.00	3,599,230.55	20,086,999.61	26,950,992.33	0.00	0.00	50,637,222.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50,637,222.49
	7.4	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7.5	A	0.00	820,051.41	2,960,284.14	4,272,690.76	0.00	0.00	8,053,026.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,053,026.31
	7.6	A	0.00	0.00	8,620,571.75	10,278,267.41	0.00	0.00	18,898,839.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,898,839.16
CLIN 8 Contract Closeout	8.1	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARRA & Contract Closeout Sub-Totals	Contract Cost		0.00	25,406,695.27	129,408,074.72	146,705,576.99	0.00	0.00	301,520,346.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301,520,346.98
	Available Fee		0.00	2,853,000.00	11,180,000.00	8,309,000.00	0.00	0.00	22,342,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22,342,000.00
	Contract Price		0.00	28,259,695.27	140,588,074.72	155,014,576.99	0.00	0.00	323,862,346.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323,862,346.98
Contract Totals	Contract Cost		5,494,000.00	336,194,378.66	582,056,190.13	561,707,441.92	440,925,030.40	525,047,700.70	2,445,930,741.81	569,907,731.89	653,074,334.40	687,762,632.47	1,910,744,698.76	750,115,429.51	682,009,327.60	1,432,124,757.11	788,189,118.54	788,386,975.03	1,576,576,093.57	7,370,870,291.25
	Available Fee		0.00	17,755,547.54	32,884,882.20	28,208,710.80	21,142,749.79	24,524,804.09	124,516,694.42	25,073,192.00	30,000,000.00	45,890,628.00	100,963,818.85	44,640,000.00	51,323,000.00	91,835,130.13	41,000,000.00	50,700,000.00	103,885,549.16	421,201,192.56
	Contract Price		5,494,000.00	353,949,926.20	614,941,072.33	589,916,152.72	462,067,780.19	549,572,504.79	2,570,447,436.23	594,980,923.89	683,074,334.40	733,653,260.47	2,011,708,517.61	794,755,429.51	733,332,327.60	1,523,959,887.24	829,189,118.54	839,086,975.03	1,680,461,642.73	7,792,071,483.81

Option Period 2, FY19, and FY20 Extension Total Available Fee values represent the current negotiated Fee value of all contract change actions including definitized changes for these time periods.

Currently the FY17, FY18, FY19, and FY20 Available Fee value (as defined by TOC B.4) represents the PEMP value for each corresponding Fiscal Year. Option Period 2, FY19, and FY20 Extension Total Available Fee columns represent the fee amounts negotiated. Once definitizations are complete, the necessary adjustments will be made to the B.4 table will be updated accordingly.

ATTACHMENT 2
Agreed to Cost Table

Total: 4 pages including this cover page

**Fiscal Year 2020 Contract Extension (CP-19-013)
Agreed to Cost Table**

WBS	Title	WRPS Initial	Other Changes (inclusive of rate adjustment)	WRPS Updated Position	Negotiation Adjustments	WRPS Negotiated Position	DOE Adjustments on Original	DOE Going in Position	Negotiation Adjustments	DOE Negotiated Position	Rate Adjustment*	Negotiated Final Position	Negotiated Work Scope Explanations
5.01.01.01	Base Operations Project Mgmt	15,380,602.63	-	15,380,602.63	0.00	15,380,602.64	(3,994,156.99)	11,386,445.65	3,994,156.99	15,380,602.64	(431,046.53)	14,949,556.11	FY20 work scope to be performed as proposed.
5.01.01.03	TSR Administrative Controls	6,599,462.43	-	6,599,462.43	(423,369.10)	6,176,093.33	(846,738.20)	5,752,724.23	423,369.10	6,176,093.33	(292,040.61)	5,884,052.72	FY20 work scope to be performed as proposed.
5.01.01.04	Core Services	5,168,385.47	-	5,168,385.47	(168,646.59)	4,999,738.88	(337,293.18)	4,831,092.29	168,646.59	4,999,738.88	(108,634.44)	4,891,104.44	FY20 work scope to be performed as proposed.
5.01.01.05	Tank Chemistry and Integrity	16,641,654.87	131.16	16,641,786.03	(894,914.77)	15,746,871.27	(1,789,698.37)	14,851,956.50	894,914.77	15,746,871.27	(436,576.34)	15,310,294.93	Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology.
5.01.01.06	Solid Waste Management	13,781,275.78	-	13,781,275.78	(908,532.00)	12,872,743.78	(1,817,064.23)	11,964,211.56	908,532.23	12,872,743.79	(471,544.72)	12,401,199.07	FY20 work scope to be performed as proposed.
5.01.01.09	TOC Support Facility Construction/Refurbishment	-	682.65	682.65	-	682.65	-	-	682.65	682.65	-	682.65	Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology.
5.01.01.10	TOC Direct Facilities Support	21,334,155.83	(3,499,818.94)	17,834,336.89	(1,111,716.13)	16,722,620.76	(2,223,432.25)	19,110,723.58	(2,388,102.82)	16,722,620.76	(415,413.75)	16,307,207.01	5.01.01.10.01.22 - 2750E D-Wing HVAC Sys Repl - CENRTC, Activity Z2-2202-00 - 2750E D-Wing HVAC System Replacement: Execution/Closeout: This work scope was not negotiated as it will not be performed in FY20. 5.01.01.10.01.31 - 2703E Roof/HVAC/Fire Sys Replacemnt, Activity Z2-2401-00 - 2703E Roof, HVAC Replacement & Fire System - Design/SOW Development: This work scope was not negotiated as it will not be performed in FY20. 5.01.01.10.08.03 - MultiCraft Maint. FacDesgnCons-GPP, Activity Z2-1706-00 - Multi-Craft Maintenance Facility - Construction Support: This work scope was not negotiated as it will not be performed in FY20.
5.01.01.11	Base Operations East Area Farms	35,363,187.39	-	35,363,187.39	(2,592,083.71)	32,771,103.68	(5,184,167.42)	30,179,019.97	2,592,083.71	32,771,103.68	(1,611,087.96)	31,160,015.72	FY20 work scope to be performed as proposed.
5.01.01.12	Base Operations West Area Farms	15,164,532.56	(940,851.73)	14,223,680.83	(537,371.13)	13,686,309.70	(2,956,445.72)	12,208,086.84	1,478,222.86	13,686,309.70	(729,796.82)	12,956,512.88	5.01.01.12.02.13 - ST Team Corrective Maintenance, Activity Z4-SE2L-00, Labor - ST Team Corrective Maintenance - FY20: Error made in initial entry and a decimal point was missed when entering the number of resources resulting in removal of 4.5 FTEs of E040-REG Electrical Engineers.
5.01.01.13	Base Operations Support/Special Projects	70,471,222.95	-	70,471,222.95	(0.00)	70,471,222.94	(8,509,143.75)	61,962,079.19	8,509,143.75	70,471,222.94	(2,291,885.77)	68,179,337.17	FY20 work scope to be performed as proposed.
5.01.01.16	TOC Maintenance Program	4,725,406.86	-	4,725,406.86	(109,773.02)	4,615,633.84	(219,546.04)	4,505,860.83	109,773.02	4,615,633.84	(122,348.30)	4,493,285.55	FY20 work scope to be performed as proposed.
5.01.01.17	MSA J.3 UBS Services	8,923,651.27	-	8,923,651.27	(0.00)	8,923,651.27	(3,233,632.33)	5,690,018.94	3,233,632.33	8,923,651.27	(34,491.63)	8,889,159.64	FY20 work scope to be performed as proposed.
5.01.02.02	Tank Waste Volume Management	3,421,231.93	-	3,421,231.93	(143,381.87)	3,277,850.05	(286,763.75)	3,134,468.18	143,381.87	3,277,850.05	(131,775.10)	3,146,074.96	FY20 work scope to be performed as proposed.
5.01.02.03	242-A Evaporator	11,266,645.72	-	11,266,645.72	(620,665.91)	10,645,979.81	(1,241,331.82)	10,025,313.90	620,665.91	10,645,979.81	(485,836.29)	10,160,143.52	FY20 work scope to be performed as proposed.
5.01.02.06	Effluent Treatment Facility	54,329,369.42	(3,725,840.26)	50,603,529.16	(4,304,901.82)	46,298,627.35	(10,081,805.10)	44,247,564.33	2,051,063.02	46,298,627.35	(1,687,332.81)	44,611,294.54	5.01.02.06.29.04 - ETF - MCS/Hardware Field Work / TO, Activities Z6-294B-00 - ETF - MCS/Hardware Field Work and Z6-294C-00, ETF - MCS/Hardware Commissioning: Work scopes were not negotiated as they will not be performed in FY20. 5.01.02.06.28.05 - ETF - UV/OX Field Work / TO, Activities Z6-284B-00 - ETF - UV/OX Field Work, and Z6-284C-00 - ETF - UV/OX Commissioning: Work scopes were not negotiated as they will not be performed in FY20. 5.01.02.06.33.03-05 - The LERF Basin 41 Design work scope was not negotiated as it was moved to CP-19-009, LERF Basin 41 Design proposal, and will be included in that proposal's negotiations.
5.01.03.01	222-S Laboratory Facility	127,069.20	-	127,069.20	(3,070.81)	123,998.39	(6,141.62)	120,927.58	3,070.81	123,998.39	(474.18)	123,524.20	FY20 work scope to be performed as proposed.
5.01.03.03	222-S Laboratory Facility Option Period 2-3	51,901,674.52	(4,621,677.55)	47,279,996.97	-	47,279,996.97	(7,895,200.19)	44,006,474.33	3,273,522.64	47,279,996.97	(1,767,434.68)	45,512,562.29	5.01.03.03.37.01-.03: 222-S Personnel Trailer: Removal of 222-S Personnel Trailer work scope as a result of ORP direction on October 22, 2019, via WRPS-1903330.2, "2704S Building Stop Work," to stop work associated with installation of a 10-wide for the 2704S. WRPS received ORP direction on October 3, 2019, via WRPS-1903330.1 to add an additional item to the Additional Work Scope to Fiscal Year 2020 Work Plan, and to provide certified costs and schedule to design a pre-engineered building and perform site preparation activities.
5.01.04.01	Field Projects/DST Life Extension	25,970,020.26	(2.85)	25,970,017.41	(1,077,264.69)	24,892,752.72	(2,154,529.38)	23,815,490.88	1,077,261.84	24,892,752.72	(1,022,827.52)	23,869,925.19	Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology. This cost was a minor timecard correction.
5.01.04.03	Tank Farm Field Projects	25,443,786.70	592,135.63	26,035,922.33	(1,121,472.50)	24,914,449.83	(2,242,944.99)	23,200,841.71	1,713,608.12	24,914,449.83	(509,766.02)	24,404,683.81	5.01.04.03.05.06 - 242-A Slurry Line Replacement Fabrication, Activities Z6-356C-00 - 242-A Slurry Line Replacement - Jumper Fabrication Receipt and Z6-356D-00 - 242-A Slurry Line Replacement - Cover Plate Fabrication Receipt: Work scopes were not negotiated as they will not be performed in FY20. Activity Z6-356B-00 - 242-A Slurry Line Replacement - Waste Transfer Line & PBM Valve Fabrication Receipt: Portion of PMB valves, transfer lines, and miscellaneous consumables were not negotiated as they will not be received in FY20.
5.01.05.01	Project Integration	24,196,271.03	-	24,196,271.03	-	24,196,271.03	(5,210,594.11)	18,985,676.92	5,210,594.11	24,196,271.03	(597,932.53)	23,598,338.50	FY20 work scope to be performed as proposed.

**Fiscal Year 2020 Contract Extension (CP-19-013)
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WBS	Title	WRPS Initial	Other Changes (inclusive of rate adjustment)	WRPS Updated Position	Negotiation Adjustments	WRPS Negotiated Position	DOE Adjustments on Original	DOE Going in Position	Negotiation Adjustments	DOE Negotiated Position	Rate Adjustment*	Negotiated Final Position	Negotiated Work Scope Explanations
5.01.05.02	ESH&Q	48,422,896.66	2,918,960.40	51,341,857.07	(6,234,979.75)	45,106,877.32	(14,939,918.50)	33,482,978.16	11,623,899.15	45,106,877.32	(1,061,503.43)	44,045,373.89	5.01.05.02.27.06 - FY20 HPT Certification Class 1: New hire training for up to 20 additional HPT new hires was negotiated and will be performed in FY20. 5.01.05.02.30.04 - IHT Certification & Training: New hire training for up to 25 IHT new hires was negotiated and will be performed in FY20. Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology.
5.01.05.03	Security and Emergency Services	2,131,253.75	-	2,131,253.75	(49,509.84)	2,081,743.91	(99,019.69)	2,032,234.06	49,509.84	2,081,743.91	(33,042.84)	2,048,701.06	FY20 work scope to be performed as proposed.
5.01.05.04	Central Engineering	18,038,592.88	-	18,038,592.88	(840,009.29)	17,198,583.59	(1,680,018.57)	16,358,574.30	840,009.29	17,198,583.59	(258,219.58)	16,940,364.01	FY20 work scope to be performed as proposed.
5.01.05.10	Organizational Performance Improvement	3,503,861.23	-	3,503,861.23	(149,074.93)	3,354,786.30	(298,149.87)	3,205,711.37	149,074.93	3,354,786.30	(67,226.06)	3,287,560.24	FY20 work scope to be performed as proposed.
5.01.05.11	Vapor Implementation	3,921,621.10	-	3,921,621.10	(199,803.36)	3,721,817.73	(399,606.73)	3,522,014.37	199,803.36	3,721,817.73	(54,480.50)	3,667,337.23	FY20 work scope to be performed as proposed.
5.01.05.12	TOC Training Program	16,884,015.36	568,346.45	17,452,361.81	(524,641.15)	16,927,720.66	(1,049,282.30)	15,834,733.05	1,092,987.60	16,927,720.66	(160,628.05)	16,767,092.61	5.01.05.12.03.01 - TOC Training Course Cost: New hire training for up to 20 additional HPT new hires and up to 25 additional IHT new hires was negotiated and will be performed in FY20.
5.02.01.01	Retrieval Program	20,595,868.72	1,187,523.18	21,783,391.90	(478,449.95)	21,304,941.95	(956,899.90)	19,638,968.82	1,665,973.13	21,304,941.95	(1,036,292.73)	20,268,649.22	Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology. 5.02.01.01.09.03 - SST Retrieval Ops Train & Qual: SST Retrieval Ops Train & Qual: New hire training for up to 40 additional construction new hires was negotiated and will be performed in FY20.
5.02.01.02	Retrieval Technology Development	6,130,319.91	-	6,130,319.91	(602,815.92)	5,527,503.99	(1,205,631.83)	4,924,688.08	602,815.91	5,527,503.99	(51,492.29)	5,476,011.70	FY20 work scope to be performed as proposed.
5.02.01.03	Cold Test Facility (CTF)	501,399.97	-	501,399.97	(11,647.71)	489,752.25	(23,295.43)	478,104.54	11,647.71	489,752.25	(23,184.81)	466,567.44	FY20 work scope to be performed as proposed.
5.02.01.04	Vadose Zone / Interim Measures	8,127,986.22	(5,726.69)	8,122,259.53	(737,066.09)	7,385,193.44	(1,474,132.17)	6,653,854.05	731,339.39	7,385,193.44	(173,931.13)	7,211,262.31	5.02.01.04.01.15 - Regulatory Documents A and AX Tank Farms, Activity Z3-EE24-00 - Initiate Review Data Package, Data Verification and Prepare DQA for Focus Area 2 Work: This work scope was not negotiated as it will not be performed in FY20.
5.02.01.07	Inactive Waste Sites	294,595.98	-	294,595.98	(35,312.42)	259,283.56	(70,624.85)	223,971.14	35,312.42	259,283.56	(5,830.26)	253,453.30	FY20 work scope to be performed as proposed.
5.02.02.06	C-Farm Retrieval	152,431.22	-	152,431.22	(3,541.04)	148,890.19	(7,082.07)	145,349.15	3,541.04	148,890.19	(2,636.75)	146,253.44	FY20 work scope to be performed as proposed.
5.02.04.01	Closure Program Management	1,204,578.35	-	1,204,578.35	(27,982.82)	1,176,595.53	(55,965.64)	1,148,612.71	27,982.82	1,176,595.53	(35,640.31)	1,140,955.22	FY20 work scope to be performed as proposed.
5.02.04.02	Regulatory Documentation	3,204,262.90	(117,938.28)	3,086,324.62	(74,436.26)	3,011,888.36	(148,872.52)	3,055,390.38	(43,502.02)	3,011,888.36	(62,246.74)	2,949,641.62	5.02.04.02.06.10 - PA Documentation, Activity ID Z3-CN07-00 - Update PA to address comments from NRC on ILAW WIR: This work scope was not negotiated as it will not be performed in FY20.
5.02.05.01	A-Farm Closure	815,993.11	-	815,993.11	(18,955.83)	797,037.27	(37,911.67)	778,081.44	18,955.83	797,037.27	(10,158.49)	786,878.78	FY20 work scope to be performed as proposed.
5.02.05.06	C Farm Closure	2,086,676.60	-	2,086,676.60	(48,474.30)	2,038,202.30	(96,948.60)	1,989,728.00	48,474.30	2,038,202.30	(59,895.15)	1,978,307.15	FY20 work scope to be performed as proposed.
5.02.06.02	A-Farm Infrastructure	560,748.58	-	560,748.58	(13,026.41)	547,722.17	(26,052.81)	534,695.77	13,026.41	547,722.17	(11,799.52)	535,922.65	FY20 work scope to be performed as proposed.
5.02.07.06	AX-101/AX-103 Retrieval	6,853,876.11	(756,883.45)	6,096,992.66	(159,218.18)	5,937,774.49	(318,436.35)	6,535,439.76	(597,665.27)	5,937,774.49	(106,757.72)	5,831,016.77	5.02.07.06.04.03 - AX-101/AX-103 Retrieval System Install, Activity ID Z5-X3D1-00 - AX-103 O3D Pit ERSS Mechanical Equipment Installation: This work scope was not negotiated as it will not be performed in FY20.
5.02.07.07	AX-102 & AX-104 Retrieval	13,696,241.73	3,834,195.35	17,530,437.08	(318,168.96)	17,212,268.12	(636,337.92)	13,059,903.81	4,152,364.31	17,212,268.12	(654,737.65)	16,557,530.47	5.02.07.07.01.06 - AX-102/AX-104 Retrieval System Install: Additional work scope was negotiated and will be performed in FY20. This work scope includes continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology, replacement of PUREX nozzles with chem joints, modifications to ERSSs for tanks AX-102/104/101/103, and replacement of one ERSS in tank AX-102.
5.02.07.09	A/AX Farms Ventilation System Operations	1,043,587.55	-	1,043,587.55	(24,242.94)	1,019,344.61	(48,485.88)	995,101.67	24,242.94	1,019,344.61	(60,027.47)	959,317.14	FY20 work scope to be performed as proposed.
5.02.08.01	A/AX Common Upgrades	29,766,326.52	280,514.77	30,046,841.29	(712,815.23)	29,334,026.06	(1,425,630.46)	28,340,696.06	993,330.00	29,334,026.06	(1,006,711.65)	28,327,314.41	5.02.08.01.05.09 - Tech White Paper to Support Retrieval Decisions: Additional work scope was negotiated and will be performed in FY20. This work scope includes modifications of ERSS configuration design for strongback configuration and HIHTL configuration.
5.02.08.03	A/AX Equipment Removal	5,701,936.37	7,575.52	5,709,511.89	(132,458.17)	5,577,053.72	(264,916.35)	5,437,020.02	140,033.69	5,577,053.72	(117,780.35)	5,459,273.37	Additional work scope was negotiated and will be performed in FY20, including continued limited operations for retrieval in tank AX-102 to complete limits of 1st and 2nd technology.
5.02.08.04	A/AX Infrastructure (Water and Utilities)	18,348,345.84	(518,022.07)	17,830,323.77	(426,239.13)	17,404,084.64	(852,478.26)	17,495,867.58	(91,782.94)	17,404,084.64	(386,890.83)	17,017,193.81	5.02.08.04.04.08 - AX Farm Infrastructure Installation, Activity ID Z5-HH06-00 - Replace HIHTL from POR497 Splitter Box to AX-102 Drop Leg: This work scope was not negotiated as it will not be performed in FY20.
5.02.08.10	A-Farm Equipment Removal	6,450,426.27	740,897.25	7,191,323.52	(149,845.88)	7,041,477.64	(299,691.76)	6,150,734.51	890,743.13	7,041,477.64	(109,775.88)	6,931,701.76	5.02.08.10.03.01 - A-Farm Equip Removal & Disposal - Above Grade: Additional work scope was negotiated and will be performed in FY20. This work scope includes high dose remediation efforts for tank A-106 and shield plug core drilling for tank A-101 in support of long-length equipment removal.
5.02.08.12	A-Farm Project Management & Engineering	12,928,380.54	-	12,928,380.54	(300,331.25)	12,628,049.29	(600,662.50)	12,327,718.04	300,331.25	12,628,049.29	250,891.94	12,878,941.23	FY20 work scope to be performed as proposed.
5.03.01.01	WFD Program Management	5,126,196.09	-	5,126,196.09	(119,083.51)	5,007,112.58	(238,167.01)	4,888,029.07	119,083.51	5,007,112.58	(497,400.63)	4,509,711.95	FY20 work scope to be performed as proposed.
5.03.01.02	WFD System Plan and Modeling	9,029,002.92	-	9,029,002.92	(657,719.58)	8,371,283.35	(1,315,439.15)	7,713,563.78	657,719.57	8,371,283.35	(236,217.26)	8,135,066.09	FY20 work scope to be performed as proposed.
5.03.01.03	Waste Characterization	2,840,558.42	-	2,840,558.42	(241,277.95)	2,599,280.47	(482,555.91)	2,358,002.51	241,277.95	2,599,280.47	(74,876.84)	2,524,403.62	FY20 work scope to be performed as proposed.
5.03.01.06	Process Engineering	2,597,769.16	-	2,597,769.16	(111,903.26)	2,485,865.90	(223,806.52)	2,373,962.63	111,903.26	2,485,865.90	(87,191.40)	2,398,674.50	FY20 work scope to be performed as proposed.
5.03.01.07	WFD Engineering	20,733,252.73	-	20,733,252.73	(0.00)	20,733,252.73	(1,942,227.16)	18,791,025.57	1,942,227.16	20,733,252.73	(303,973.69)	20,429,279.04	FY20 work scope to be performed as proposed.

**Fiscal Year 2020 Contract Extension (CP-19-013)
Agreed to Cost Table**

WBS	Title	WRPS Initial	Other Changes (inclusive of rate adjustment)	WRPS Updated Position	Negotiation Adjustments	WRPS Negotiated Position	DOE Adjustments on Original	DOE Going in Position	Negotiation Adjustments	DOE Negotiated Position	Rate Adjustment*	Negotiated Final Position	Negotiated Work Scope Explanations
5.03.02.06	DST Feed Delivery Projects	2,963,297.68	(1,088,940.86)	1,874,356.82	(137,660.91)	1,736,695.91	(275,321.81)	2,687,975.87	(951,279.95)	1,736,695.91	(108,997.10)	1,627,698.81	5.03.02.06.22.01 - WFD Commissioning & Ops: TSCR, Activities Y326-2201-00, TSCR WFD Commissioning & Ops - Training, and Y326-2201-01, TSCR WFD Commissioning & Ops - Operation Documentation: These work scope costs were already included in the costs for WBS 5.05.40.05.03.02, TSCR Infrastructure.
5.03.06.01	Dispose ILAW	11,177,710.97	(2,474,392.00)	8,703,318.97	0.00	8,703,318.97	(1,771,487.47)	9,406,223.50	(702,904.53)	8,703,318.97	(115,190.88)	8,588,128.09	Truth in Negotiations disclosure as subcontracts have been awarded at a lesser value than estimated.
5.03.07.05	WTP Interface Management	824,064.43	-	824,064.43	(71,823.17)	752,241.26	(143,646.34)	680,418.09	71,823.17	752,241.26	(40,180.57)	712,060.69	FY20 work scope to be performed as proposed.
5.03.07.08	WTP Pre-Operations and Commissioning	1,511,379.07	-	1,511,379.07	(35,109.92)	1,476,269.15	(70,219.83)	1,441,159.24	35,109.92	1,476,269.15	(18,533.73)	1,457,735.42	FY20 work scope to be performed as proposed.
5.03.10.03	Secondary Waste Form Testing	1,427,023.19	-	1,427,023.19	(33,150.30)	1,393,872.89	(66,300.59)	1,360,722.60	33,150.30	1,393,872.89	(5,330.30)	1,388,542.59	FY20 work scope to be performed as proposed.
5.03.12.02	Technology Development	7,521,910.30	-	7,521,910.30	(309,587.20)	7,212,323.09	(619,174.41)	6,902,735.89	309,587.20	7,212,323.09	(110,073.65)	7,102,249.44	FY20 work scope to be performed as proposed.
5.03.12.03	Operational Optimization	25,158,059.42	(2,705,166.49)	22,452,892.93	(0.00)	22,452,892.93	(7,937,394.24)	17,220,665.17	5,232,227.75	22,452,892.93	(200,743.64)	22,252,149.29	5.03.12.03.02.13 - WTP Acquisitions - 4th Melter Fabrication, Activity Z3-MF01-00 - 4th Melter Fabrication - Receive 4th Melter Initial Vendor Submittals: This work scope was not negotiated as it will not be performed in FY20. 5.03.12.03.02.15 - WTP Acquisitions - LAW Bubblers, Activities Z3-LB01-00 - LAW Bubblers - Receipt of Pipe Assembly Materials, Z3-LB03-00 - LAW Bubblers - Receipt of Plug Assembly Materials, and Z3-LB12-00 - Receipt of Remaining Plug Assembly Materials: Additional work scope was negotiated to be performed in FY20 and includes procurement of long-lead pipe assembly materials and plug assembly materials (was planned in FY21). 5.03.12.03.02.15 - WTP Acquisitions - LAW Bubblers, Activities Z3-LB05-00/Z3-LB07-00/Z3-LB09-00/Z3-LB11-00 - Completion of Sets 1-4: Acquisition of bubbler sets 1-4 was not negotiated as it will not be performed in FY20. 5.03.12.03.02.21 - WTP Acquisitions - Planning Package, Activities Z3-MF02-00 - 4th Melter Fabrication - Material Procurement and Z3-MF06-00 - 4th Melter Fabrication - Melter Production: These work scopes were not negotiated as they will not occur in FY20.
5.04.01.12	Waste Pretreatment- Create Mixed Low Level Waste	4,689,848.31	(25,773.14)	4,664,075.17	(169,577.04)	4,494,498.13	(339,154.08)	4,350,694.23	143,803.90	4,494,498.13	(50,398.30)	4,444,099.83	5.04.01.12.01.07 - AP TTLS, Activity Z3-MA85-00 - Support ORP with Preparation and Processing of Supplemental Environmental Impact Statement (SEIS): This work scope was not negotiated as it will not be performed in FY20.
5.05.40.01	Tank Side Cesium Removal System	13,408,038.99	(6,174,671.85)	7,233,367.14	(380,703.00)	6,852,664.14	(9,998,532.98)	3,409,506.01	3,443,158.13	6,852,664.14	(160,493.04)	6,692,171.10	Per letter 19-TF-0103/1903355, the spare tank side cesium removal system procurement planned for FY20 is not being performed.
5.05.40.02	LAW Feed	21,129,614.56	(2,176,319.33)	18,953,295.23	(500,000.00)	18,453,295.23	(2,995,389.61)	18,134,224.95	319,070.28	18,453,295.23	(302,189.93)	18,151,105.30	5.05.40.02.02.06 - LAW Feed Procurement/Fab - Activities Z7-C112-00 & Z7-C114-00 for fabrication of support equipment were removed and replanned under the Field Work WBS 5.05.40.02.02.07 to follow CD-2/3 approval. ORP concurrence of performing the replanning received on 10/17/2019 via email correspondence WRPS-1903330.3. 5.05.40.02.02.07 - LAW Feed Const. Field Work - DOE-ORP Concurrence to perform pre-construction tasks prior to CD-2/3 approval received via email on 10/17/2019. Activities Z7-C166-00, Z7-C165-00, Z7-C213-00, Z7-C235-00, Z7-C205-00, Z7-C164-00, Z7-C154-00, Z7-C153-00, and Z7-C152-00 were removed/modified and replanned to support the pre-construction effort prior to CD-2/3 approval. ORP concurrence of performing the replanning received on 10/17/2019 via email correspondence WRPS-1903330.3.
5.05.40.03	Cesium Removal Capability - Tech. Maturation	590,207.62	-	590,207.62	-	590,207.62	(83,669.38)	506,538.24	83,669.38	590,207.62	(8,006.59)	582,201.03	
5.05.40.04	Cesium Removal Capability - Permitting	376,790.68	-	376,790.68	-	376,790.68	(53,414.84)	323,375.85	53,414.84	376,790.69	(19,905.05)	356,885.64	
5.05.40.05	TSCR Infrastructure	27,516,947.68	(1,128,934.73)	26,388,012.95	(2,389,677.55)	23,998,335.40	(3,900,874.71)	23,616,072.96	382,262.42	23,998,335.39	(493,883.23)	23,504,452.16	5.05.40.05.02.06 - TSCR Infrastructure Procurement/Fab, Activities Z7-C067-00, Z7-C069-00, and Z7-C063-00: These work scopes were removed from the FY20 proposal during negotiations and replanned under WBS 5.05.40.05.02.07, TSCR Infrastructure Const. Field Work, to follow CD-2/3 approval. ORP concurrence of performing the replanning received on 10/17/2019 via email correspondence WRPS-1903330.3. 5.05.40.02.02.07 - TSCR Infrastructure Const. Field Work, Activities Z7-C119-00, Z7-C121-00, Z7-C118-00, Z7-C199-00, Z7-C071-00, Z7-C236-00, Z7-C206-00, Z7-C129-00, and Z7-C131-00: These work scopes were removed from the FY20 proposal during negotiations, modified, and replanned to support the FY20 pre-construction effort prior to CD-2/3. ORP concurrence of performing the replanning received on 10/17/2019 via email correspondence WRPS-1903330.3.
5.05.40.06	Cesium Removal Capability - Project Management	1,257,353.04	5,971,353.89	7,228,706.93	(500,000.00)	6,728,706.93	(178,245.67)	1,079,107.37	5,649,599.56	6,728,706.93	(33,586.50)	6,695,120.43	5.05.40.06.02.01 - TFU & WFD Pre-Construction: New WBS created to capture the scope, schedule, and budget related to the pre-construction effort to be performed in FY20.
FY 2020 Total		801,454,855.55	(13,858,643.98)	787,596,211.57	(31,947,484.25)	755,648,727.33	(119,881,703.77)	681,573,151.78	74,075,575.55	755,648,727.33	(21,315,416.60)	734,333,310.72	

* Excluding Other Changes column as values are inclusive of the rate change

ATTACHMENT 3
Risk Registers

Total: 22 pages including this cover page

FY20 Expense Risk Register

The projects/programs' risk registers associated with the FY20 current work scope that WRPS plans to execute includes:

- Retrievals (A/AX farm)
- Waste Transfer
- 222-S Laboratory
- 242-A Evaporator
- Effluent Treatment Facility
- Maintenance
- Tank Farms Project/Program Level Risks

Risks within the register have titles that are similar; however, these risks are associated with different project/programs which have completely different cost consequences and likelihoods based on size, duration and priority.

The risks listed within this register were developed by WRPS subject matter experts and ORP counterparts.

The register list excludes cross cutting risks (except estimate uncertainty), business practice risks, and information technology risks.

Joint-owned WRPS/ORP risks consequences are split as WRPS owning 10% of the risk consequence and ORP owning 90% of the risk consequence. Historic data substantiates that ORP has owned a majority of split-owned risks within the WRPS expense contract. The split percentages between ownership consequences are reflected in the model results for the FY20 Contract Extension Proposal, CP-19-013.

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
Production Operations					
222SL-0041-R	Risk	Hot Cell Window Failure	ORP	The hot cell windows at the labs are double-paned filled with a specialized oil to protect workers. Currently minor leaks are present on some of the windows. A risk exists that the windows fail leading to replacement.	High
242AE-0025-R	Risk	Critical Spares Unavailable When Required	ORP/WRPS	Spares planning and management is the responsibility of WRPS. Factors (some outside of the control of WRPS such as funding) may impact the ability to maintain and have available critical spares when needed. WRPS is responsible to identify critical spares and procure an initial set of spares. ORP is responsible for additional critical spare part procurements. WRPS is responsible for minor spare replacements and ORP is responsible for major spares/components.	High
242AE-0029-R	Risk	Priorities Change Frequently (ops)	ORP/WRPS	Priorities for 242-A Evaporator projects are based on WRPS needs to support existing facilities and established milestones. This risk addresses elective prioritization of work within WRPS's control as well as those prioritizations outside of WRPS's control as ORP-owned. WRPS is responsible for routine maintenance and limited Evaporator refurbishment. ORP is responsible for system replacements and major facility upgrades.	High
242AE-0030-R	Risk	New Requirement or New Interpretation of Existing Requirement is Imposed (or changes to the authorized safety bases)	ORP	242-A Evaporator teams are responsible for compliance with all existing regulatory requirements. A risk exists that new or changing requirements or the need to change the approach to meet them results in changes to WRPS planned work to maintain compliance and introduces possible delays. An exemption to this risk is the change in SS flow monitoring in AW Farm. Examples: <ul style="list-style-type: none"> • Added NACE inspection • Special protective coating by IQRPE 	High
242AE-0054-R	Risk	AW Leak Detector Failure	ORP	Parts for the current leak DST leak detector system have to be cannibalized. A risk exists that leak detector failures occur and parts cannot be cannibalized.	High

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
ETFOP-0064-R	Risk	Vessel Off-Gas System Failure	ORP	The vessel off-gas system has required a more frequent maintenance schedule. A risk exists that the vessel off-gas system fails.	High
ETFOP-0066-R	Risk	HVAC Failure	ORP	The ETF HVAC system has not been upgraded since the building's construction. A risk exists that the HVAC system fails.	High
WASTE-0021-R	Risk	Requirements Change	ORP	Changes to requirements can occur at any moment at the Hanford Site. A risk exists that requirement changes result in the need to replan work, leading to delays in planned waste transfers..ORP is responsible for requirement changes or any miscommunication they initiate. Example: <ul style="list-style-type: none"> Nitrogen blanket 	High
WASTE-0030-R	Risk	AN-01A Corrosion/obsolescence	ORP	A risk exists that liquid gets trapped in AN-01A, causing corrosion in or near inactive lines or replacement parts are obsolete. Examples: <ul style="list-style-type: none"> PER 214-2260 PER 2018-0044 	High
222SL-0001-R	Risk	222-S Facility Equipment Failure	ORP/WRPS	Currently, the age of the 222-S Laboratory is ~ 65 years old. Upgrades have occurred and continue to occur with the life extension plan. A risk exists that equipment now being used can fail. WRPS is responsible for routine maintenance and individual component replacements. ORP is responsible for system replacements.	Medium
222SL-0018-R	Risk	As Found Field Conditions Differ from Expected (Materials & Radiological, Hazardous Materials and Electrical)	ORP/WRPS	The 222-S Laboratory is an aging facility. During normal operations, circumstances can arise where conditions are not what is expected. A risk exists that the as-found field conditions are different from expected from either a materials (including hazardous materials) or a radiological perspective and project rework is required. Currently, upgrades have a planned scope of work, with most existing conditions known and planned for. WRPS is responsible for minor differing as-found field conditions. ORP is responsible for situations requiring considerable expenditure of resources due to unforeseen conditions.	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
222SL-0036-R	Risk	Process water system failure	ORP/WRPS	The current process water system has sprung one minor leak within the last year.. A risk exists that the system begins to leak consistently, requiring system replacement. WRPS is responsible for routine maintenance and individual component replacements. ORP is responsible for system replacements and major modifications to process water system.	Medium
242AE-0001-R	Risk	242-A Aging Facility and Equipment Requires Unplanned Repair or Unanticipated Upgrades	ORP/WRPS	The 242-A Evaporator is an aging facility. Various upgrades have been conducted on the facility, ancillary systems, buildings, and associated equipment to support DST waste volume reduction goals and sampling and analysis to support the regulatory process. Future facility assessments may identify additional needs. A risk exists that unplanned repairs or needed upgrades can delay Evaporator campaigns. WRPS owns minor equipment failures. ORP owns major equipment failure. This risk includes facility equipment not covered in other register risks. Examples: <ul style="list-style-type: none"> • C-100 failure • Ember screen failure 	Medium
242AE-0003-R	Risk	242-A Operating Procedures Require Major Change	ORP/WRPS	Current 242-A Evaporator operating procedures are specific to planned scopes of work to meet goals and agreements to operate the 242-A Evaporator. This risk reflects changes in procedures that may be required to support changes in facility usage or mission. A risk exists that changes in requirements, facility mission, or facility usage will require procedure updates, which can delay Evaporator campaigns. WRPS is responsible for minor procedure updates.	Medium
242AE-0031-R	Risk	Unexpected Work Stoppages	ORP/WRPS	Work stoppages occur with relative frequency at Hanford due to safety concerns and other operational issues. A risk exists that either WRPS or other Hanford contractors have stop works that delay ECs. WRPS is responsible for minor work delays and ORP is responsible for any longer term work delays.	Medium
242AE-0037-R	Risk	Slurry Sampler Failure	ORP/WRPS	The slurry sampling station components have a limit to their life-span. Slurry sampler accuracy and/or failure would directly impact space management objectives. A	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				risk exists that a failure of the slurry sampler results in a halt to slurry transfers, causing adverse impacts to Evaporator campaigns. WRPS is responsible for routine maintenance of slurry sampling equipment. ORP is responsible to replace the slurry sampling system.	
242AE-0041-R	Risk	As Found Field Conditions Differ from Expected	ORP/WRPS	The 242-A Evaporator is part of the aging infrastructure of the WRPS complex. Many of the building drawings are originals from when the building was constructed. WRPS is responsible to develop and implement engineering change notices (ECN) generated as a result of unexpected field conditions, and ORP is responsible to consolidate the ECNs and modification drawings into a new baseline drawing set. A risk exists that unexpected field conditions result in design changes and delays execution of field work. Unexpected conditions may also be more expensive to remedy than currently planned and ORP could be expected to reprioritize other work scope to provide the necessary budget. The As-found field condition risk does not cover scope of other risks of this register.	Medium
242AE-0046-R	Risk	Facility Roof Damage	ORP/WRPS	A risk exists that damage to the facility roof causes a replacement to be required. WRPS is responsible for minor roof repairs. ORP is responsible for a complete roof replacement.	Medium
242AE-0052-R	Risk	Differing Stakeholder Upgrade Priorities	ORP/WRPS	Upgrades to the Evaporator can be prioritized by stakeholders (e.g., WRPS, ORP, DNFSB). A risk exists that differing stakeholder priorities change the upgrades schedule. WRPS is responsible for replanning and associated impacts when priority changes are driven by WRPS. ORP is responsible for replanning and associated impacts when changes are not WRPs-driven.	Medium
ETFOP-0025-R	Risk	Significant Equipment Failure/Obsolete	ORP/WRPS	ETF is an aging facility that requires constant preventative maintenance to stay in operation. A risk exists that failure of major facility equipment and/or obsolete equipment can halt ETF operations. WRPS is responsible for maintenance and minor component	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				repairs. ORP is responsible for major system repairs/replacements..	
ETFOP-0036-R	Risk	Adverse Weather conditions (more extreme than anticipated)	ORP/WRPS	<ul style="list-style-type: none"> The Hanford Site can be subject to various different types of weather conditions from ice in the winter, high winds all year around, or smoke due to fires in the areas or on the site. A risk exists that inclement weather causes unplanned work stoppages and site closures causing delays and budget impacts. WRPS is responsible for reasonable weather impacts. ORP is responsible for any extreme weather impact 	Medium
ETFOP-0055-R	Risk	Insufficient Amenities Require Significant Remodel or Additions	ORP	<p>Current non-processing pipe is made of galvanized piping. Concerns have been raised about future overcrowding in the current office spaces. A risk exists that piping or other amenities must be replaced or added. Examples:</p> <ul style="list-style-type: none"> Sewage system failure Office space maxed out 	Medium
WASTE-0028-R	Risk	Jumper Failure	ORP	A risk exists that jumpers leak, leading to major repairs or fail, causing replacement.	Medium
WASTE-0029-R	Risk	Pump Failure	ORP	A risk exists that an unanticipated transfer pump fails and replacement must occur (e.g., pump clog). WRPS owns small repairs and maintenance.	Medium
222SL-0023-R	Risk	Procurements are Delayed	WRPS	Procurements are required for most projects. A risk exists that procurement delays impact planned work execution. Responsibility for impacts requires assessment of specific conditions when/if the risk is realized. Risk addresses those items that foreseeable and within WRPS's control.	Low
Retrieval					
AAXRC-0007-R	Risk	Requirements Change	ORP	<p>DOE controls the requirements for work on the Hanford Site. A risk exists that DOE implements programs that lead to additional project controls and measures</p> <p>Examples:</p> <ul style="list-style-type: none"> Be Program DOE decides to change seismic requirements 	High

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
AAXRC-0017-R	Risk	Environmental Permits Approvals Not Received in Time	ORP	To begin retrieval work on A/AX farms, environmental permits must first be acquired. A risk exists that environmental permit delays impact the planned start to retrieve waste.	High
AAXRC-0044-R	Risk	Inability to Adequately Staff the Project	WRPS	Resources from various organizations will be required to execute the A/AX retrieval project. A risk exists that resources will not be available when needed to support project work.	High
AAXRC-0077-R	Risk	Tank Vapors Controls Impact Project Execution	ORP	. A risk exists that unexpected vapor releases or vapors controls/PPE cause delays in field work execution.	High
AAXRC-0010-R	Risk	Change in AB Design Requirements	ORP	The project baseline includes some allowances for DSA changes that are assumed to occur during the project life. A risk exists that changes to the authorization basis require extensive changes to planned work execution processes and activities.	Medium
AAXRC-0016-R	Risk	Excessive Equipment Failures (other than pumps)	ORP/WRPS	Tank retrieval operations involve a variety of heavy and light equipment. The complex and high radiation environment for technology deployment can result in a higher-than-industry-equipment failure rate. A risk exists that equipment failure rates are higher than planned, causing delays in waste retrieval operations. WRPS is responsible for maintenance and simple repairs. ORP is responsible for major repairs/replacement.	Medium
AAXRC-0043-R	Risk	Equipment in Risers is more difficult to remove than anticipated	ORP/WRPS	In order to begin retrieval of a tank certain equipment must first be removed. A risk exists that excess equipment removal is more difficult than planned causing delays and work-arounds not anticipated. WRPS is responsible for all minor added field work or delays. ORP is responsible for removal of all other items of increased difficulty to remove.	Medium
AAXRC-0055-R	Risk	As-Found Field Conditions Differ From Expected	ORP/WRPS	A risk exists that unexpected field conditions result in the need for design changes and delays execution of field work. WRPS is responsible for minor possible as-found field condition work arounds. ORP is responsible for major complications due to unexpected as-found field conditions.	Medium
AAXRC-0076-R	Risk	Pit Work is More Complex Than Anticipated	WRPS	Drawings at Hanford are not always accurate to the design. A risk exists that pit work is more complex than	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				anticipated and requires additional time and cost to remediate.	
AAXRC-0087-R	Risk	Third Technology Must be Added to TWRWP	ORP	ORP has directed WRPS to include two technologies in the TWRWP, which is not consistent with the accepted proposal. A risk exists that deployment of a third technology is necessary to achieve waste retrieval goals, requiring amendment of the existing TWRWP.	Medium
AAXRC-0090-O	Opportunity	Partial Redesign or Consolidation of Design to Simplify and Mitigate Risk	ORP/WRPS	An opportunity exists that alternative design approaches meeting functional requirements may be simpler to implement with less risk when compared to current retrieval approaches. WRPS owns routine redesign or design optimization opportunities. ORP owns significant redesign or streamlining associated with major schedule acceleration or cost savings.	Medium
AAXRC-0095-R	Risk	Design Changes	ORP/WRPS	Design changes may be necessary due to a variety of inputs or found conditions. A risk exists that design changes occur causing rework and/or delays. WRPS is responsible for minor design changes. ORP is responsible for major design changes that result from requirements changes or beyond WRPS' control.	Medium
AAXRC-0009-R	Risk	Adverse Weather conditions (more extreme than anticipated)	ORP/WRPS	The Hanford Site can be subject to various different types of weather conditions from ice in the winter, high winds all year around, or smoke due to fires in the areas or on the site. A risk exists that inclement weather causes unplanned work stoppages and site closures causing delays and budget impacts. WRPS is responsible for reasonable weather impacts. ORP is responsible for any extreme weather impact	Low
Maintenance					
MAINT-0004-R	Risk	Requirements Change	ORP	Maintenance teams are responsible to comply with applicable regulatory requirements, however differing interpretations of existing requirements may drive changes in cost or schedule during execution.	Medium
MAINT-0013-R	Risk	Resource Availability	WRPS	Specialty resources will be needed for this project, such as environmental, HPTs, and IH Techs. A risk exists that resources are not available when needed.	Medium
Tank Farm Projects					

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
TFPRO-0001-R	Risk	TFP Priorities Changes Frequently or are Not Adequately Controlled	ORP/WRPS	Priorities for tank farm projects are based on WRPS needs to support existing facilities and milestones. This risk addresses elective prioritization of work within WRPS's control. A risk exists that changes in work priorities result in lack of resources when needed. WRPS owns risk impacts when they initiate reprioritization of work. ORP owns risk impacts when they direct reprioritization of work.	High
TFPRO-0002-R	Risk	As-Found Field Conditions Differ from Expected (Materials & Radiological)	ORP/WRPS	The tank farms are an aging facility. During construction of the tank farms, support facilities, and initial transfers of waste into tanks, less emphasis was placed configuration management. As a result, there are known issues within the tank farms as-found conditions. Additionally, to facilitate project work over the years, ECNs were used instead of full updates to facility design drawings. This practice makes it difficult to find updated versions of facility design drawings. WRPS owns ECN development and incorporation into the design package drawings. ORP owns the effort to incorporate all modification drawings and associated outstanding ECNs into a baseline drawing set. WRPS owns minor issues found in the field. ORP is responsible for major issues found during field work.	High
TFPRO-0004-R	Risk	Lack of Critical Resources	WRPS	Resources (personnel and equipment) are often a critical need to perform project work. A risk exists that unavailable qualified staff will prevent planned execution of project scope.	High
TFPRO-0007-R	Risk	Aging Infrastructure Requires More Upkeep Causing Schedule Delays	ORP/WRPS	The tank farm is an aging facility. Permanent and temporary repairs have occurred to the WRPS facilities and infrastructure. TFP is responsible for the identified projects that are ongoing to upgrade and maintain WRPS facilities and infrastructure. A risk exists that more infrastructure upgrades are required than planned causing schedule delays. WRPS owns routine maintenance and component repairs. ORP owns system replacement/upgrades.	High
TFPRO-0023-R	Risk	Unexpected Work Stoppages	ORP/WRPS	Work stoppages occur with relative frequency at Hanford due to safety concerns and other operational	High

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				issues. WRPS is responsible for minor delays and ORP is responsible for any longer term work delays. A risk exists that either WRPS or other Hanford contractors have stop works that delay ECs.	High
TFPRO-0034-R	Risk	Change in DOE Work Scope Priority	ORP	TFP executes work scope as DOE directs. A risk exists that conflicting DOE priorities or scope schedules cause work delays. (eg WFD and TBI)	High
TFPRO-0036-O	Opportunity	Reinterpretation of Requirements	ORP/WRPS	An opportunity exists that project requirements can be reevaluated saving schedule and cost. Examples: -Cross site leak detection redesign -Safety shower requirements	High
TFPRO-0008-R	Risk	Sub-contractors Do Not Perform As Required	WRPS	Subcontractors are used for a number of functions and support roles in TFP. Subcontractor inability to perform to requirements may result in cost and schedule impacts (ORP). Delays may also occur due to subcontractor performance (WRPS). A risk exists that delays/rework occur due subcontractor inability to perform as required. Responsibility for impacts requires assessing conditions when/if the risk is realized.	Medium
TFPRO-0009-R	Risk	Cranes Not Available When Required	ORP/WRPS	Cranes are required to support various retrievals activities. WRPS obtains cranes from MSA. Cranes and/or crane operators/rigging crews are not available when required. WRPS is responsible to identify crane needs and integrate crane operations into their planned work. ORP is responsible to ensure cranes are available when needed to support WRPS planned work.	Medium
TFPRO-0015-R	Risk	Procurements are Delayed/Added Procurement Costs	WRPS	Procurements are required for most TFPs. Responsibility for impacts requires assessment of specific conditions when/if the risk is realized. This risk addresses those items that are foreseeable and within WRPS' control. A risk exists that procurement delays impact planned work execution. Example: <ul style="list-style-type: none"> • Commercial equipment must be customized for Hanford use 	Medium
TFPRO-0028-R	Risk	Adverse Weather conditions (more extreme than anticipated)	ORP/WRPS	The Hanford Site can be subject to various different types of weather conditions from ice in the winter, high winds all year around, or smoke due to fires in the areas	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				or on the site. A risk exists that inclement weather causes unplanned work stoppages and site closures causing delays and budget impacts. WRPS is responsible for reasonable weather impacts. ORP is responsible for any extreme weather impact	
TFPRO-0031-R	Risk	Engineering Driven Design Change Late in Design	WRPS	Engineering can change designs based upon requirements or preference. A risk exists that design changes occur late in the design process.	Medium
TFPRO-0032-R	Risk	Subcontractor Delays Due to Resources	WRPS	Fixed price subcontractors have the ability to bid multiple jobs. A risk exists that projects are delayed due to subcontractors not supplying sufficient trained/qualified workers to staff all awarded contracts during the same period of performance.	Medium
SLULN-0001-R	Risk	Above/In-Ground Obstructions	ORP	AW Farm is a congested space full of above and in-ground obstructions. A risk exists that project costs and schedule are increased due to required avoidance of in-service farm infrastructure that could not have been reasonably foreseen.	Medium
TFPRO-0030-R	Risk	WRPS Engineering can't support design reviews as schedule	WRPS	Single point failures in design reviews/design authority may result in delays to field execution schedule. A risk exists that WRPS engineering resources are not available when needed.	Low
SLULN-0005-R	Risk	Complex Integration of Field Work	WRPS	The slurry lines will be installed with one of the most congested areas within Tank Farms. A risk exists that delays occur due to integration.	Low
Cross-Cutting					
WRPSC-0009-R	Risk	Aging WRPS Facilities & Infrastructure	ORP	Many facilities maintained and operated by WRPS along with the supporting infrastructure provided by other Hanford contractors is over 50 years old. High Consequence Items - Existing Transfer lines fail or plug causing damage or failure of integrity testing. A risk exists that aging infrastructure fails more often than anticipated and requires more upkeep and maintenance than expected. This risk excludes failure of a DST.	High
WRPSC-0013-R	Risk	Estimate Uncertainty	WRPS	Impacts to work scope result from uncertainties associated with the quantities of material required, unit price of items, labor rates, crew sizes, equipment needs, and worker productivity. A risk exists that	Medium

FY20 Expense Risk Register

Risk Id	Type	Title	Ownership Organization	Description / Causes	Risk Level
				unforeseen additions to work must occur resulting in actuals differing from estimates.	
WRPSC-0015-R	Risk	Funding Shortfalls Impact the Ability to Accomplish Mission Goals and Objectives	ORP	A risk exists that funding requested by the Department of Energy to Congress, or otherwise appropriated by Congress, is insufficient to meet critical near term TPA or Consent Decree milestones and/or address significant realized risks associated with aging and failing infrastructure.	Medium

FY20 Capital Proposal Risk Register

The projects/programs' risk registers associated with the FY20 current work scope that WRPS plans to execute includes:

- Tank-Side Cesium Removal (TSCR) Demonstration Project
- Tank Farm Upgrades/Waste Feed Delivery Project

The risks listed within this register were developed by WRPS subject matter experts and ORP counterparts.

The register list excludes cross cutting risks (except estimate uncertainty), business practice risks, and information technology risks.

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TSCR-0836-R	DOE scope changes occur during TSCR fabrication (externally driven)	ORP	DFLAW Program Prioritization changes / ICD changes. Changes imposed to the Code of Record by the customer. ORP external stakeholders influence change in requirements.	High
TSCR-0859-R	Internally driven design-affecting requirements change during TSCR design and fabrication	WRPS	Design evolution or flowsheet changes lead to requirements change driven by internal to WRPS sources. Changes can be caused by: <ul style="list-style-type: none"> • PrHA identifies additional hazard that requires added safety controls • Additional requirements imposed for operational vapor/odor mitigation • Criticality re-evaluation changes the resin/column change-out requirements • TSCR design is less than adequate. does not include TSCR-0908 • Design flexibility to accommodate more than one time use (WRPS management decision) 	High
TAFUP-0862-R	Ecology Permits/Interim Approvals are Delayed or Environmental Requirements Change	ORP	This project scope requires a new RCRA permit for construction and operation. A risk exists that delays in permitting cause a delay to the project schedule. Causes include: <ul style="list-style-type: none"> • External stakeholders change the interpretation of environmental requirements.(e.g., use of HIHTL, vent/drain line sampling capability) • Regulator cannot meet the proposed schedule for permit approval • Regulator changes permitting strategy • Issues related to previously performed assessments (e.g., IQRPE design assessment and installation certification reports for W-211) • Ecology RCRA review is delayed • Ecology is unable to complete review/processing of the permit application within the assumed schedule timeframes • WRPS RCRA permit application submittal is delayed • IQRPE design assessment report not completed in time to support the permitting process • Assumed permit application preparation/review timeframes are overly aggressive and activities cannot be completed as scheduled • Necessary design information not provided in time to support application submittal schedule. 	High
TAFUP-0959-R	ORP awards new TCC Impacting Scope Execution	ORP	The WRPS contract is anticipated to be transitioned to a new tank farm contractor during FY2020. A risk exists that the contract turnover activities will cause inefficiencies in organizational structure and possibly delay key project deliverables. Risks include:	High

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TAFUP-0947-R	Use of Existing Contractor is Delayed.	DOE-ORP/WRPS	<ul style="list-style-type: none"> New TCC administrative inefficiencies during contract transition New TCC management re-evaluates the field execution strategy Slow-down of field activities to evaluate safety practices and active work packages <p>A subcontractor is under contract for design, fabrication, and construction scopes under a blanket master agreement (BMA). The current approved valuation of the BMA limits total costs that can be incurred. To complete all planned scope for the BMA, the funding ceiling may need to be increased. A risk exists that current contractor for TSCR construction cannot be used, causing increases to both cost and schedule. This risk is most likely to be realized during the construction phase. Causes include:</p> <ul style="list-style-type: none"> DOE rejects procurement strategy Funding ceiling is exceeded by future design contractor work scope 	Medium
TAFUP-1331-R	Existing W-211 Transfer Line cannot be Utilized for DFLAW	ORP	<p>The W-211 lines, installed in 2003, route between AP farm and the WTP high-level waste interface point, but were never commissioned and or permitted for use. ORP has directed utilization of as much of the W-211 lines as possible to connect the AP farm LAW feed tank (AP-106) and the EMF return tank (AP-102) to WTP. A risk exists that the W-211 transfer lines cannot be used for DFLAW, caused by:</p> <ul style="list-style-type: none"> W-211 regulatory approval is denied W-211 transfer line testing indicates failure W-211 transfer line degradation observed during testing 	High
TAFUP-1351-R	Flushing Capability for DFLAW Transfer Lines is Not Provided by WTP	ORP	<p>The project baseline does not include design, fabrication, or construction of a water flush system capable of flushing the waste feed delivery transfer line. A risk exists that flushing functionality is not provided by WTP, resulting in additional infrastructure required by the project.</p>	High
TAFUP-1371-R	CD-4A approval is delayed or DOE fails to approve CD-4A milestone.	ORP	<ul style="list-style-type: none"> CD-4A milestone is not met CD-4A package approval is delayed or disapproved Approval delay may be caused by limited resources or conflicting priorities 	High
TAFUP-1376-R	Readiness review is delayed or extended	WRPS	<p>Readiness review is delayed by:</p> <ul style="list-style-type: none"> Readiness review plan is changed Procedural findings Team discovers critical issues/major findings 	High
TAFUP-1383-R	CD-4 approval is delayed or DOE fails to	ORP	<ul style="list-style-type: none"> CD-4 milestone is not met CD-4 package approval is delayed or disapproved. 	High

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TAFUP-1387-R	approve CD-4 milestone. Inclement Weather Delays Field Work	WRPS	if inclement weather (heat, wind, snow, and lightning) experienced on site is greater than initially planned for, then there will be impacts to the project's construction schedule. Excludes prolonged periods of delay caused by historically adverse weather.	High
TAFUP-1389-R	Atkins Blanket Master Agreement (BMA) becomes Eligible for Fee	ORP	If the Atkins BMA becomes eligible for fee, then the project will incur excess unplanned costs.	High
TAFUP-1434-R	Delay in Critical Decision (CD-2/3) Package Approval	WRPS	A risk exists that DOE approval of a Critical Decision package is delayed, resulting in a delay in fabrication, construction, or commissioning. Delays in these areas can lead to increased unplanned hotel load to retain trained resources and in some cases during fabrication materials recovery costs. Causes could include: <ul style="list-style-type: none"> • CD-2/3 package contents are deficient • EIR/TIPR team findings 	Medium
TAFUP-1436-R	DOE Delay in CD-2/3 Package Approval	ORP	A risk exists that DOE approval of a Critical Decision package is delayed, resulting in a delay in fabrication, construction, or commissioning. Delays in these areas can lead to increased unplanned hotel load to retain trained resources and in some cases during fabrication materials recovery costs. Causes could include: <ul style="list-style-type: none"> • EIR/TIPR team findings • DOE leadership changes • DOE approval authority changes • Scheduled review period is longer than anticipated • DOE review sources LTA 	Medium
TSCR-0902-R	DOE design-affecting scope changes occur during TSCR design (externally driven).	ORP	DFLAW program prioritization or ICD changes, such as: <ul style="list-style-type: none"> • Changes imposed to the Code of Record by the customer • ORP external stakeholders influence change in requirements • WTP waste acceptance criteria changes • External reviews conducted by regulators / oversight agencies 	Medium
TSCR-0939-R	TSCR design/build subcontractor performance is LTA	WRPS	Work performance of TSCR fabrication subcontractor results in cost and schedule impacts caused by: <ul style="list-style-type: none"> • Subcontractor fails to perform on schedule • Testing reveals significant design/operational deficiencies 	Medium

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TSCR-1381-R	Completed TSCR System Damaged During Transportation	WRPS	<ul style="list-style-type: none"> • Vendor resources less than adequate • Subcontractor fabrication quality is less than adequate requiring rework • Process equipment flammable gas management design is LTA • Improperly rigged equipment • Accident during transport due to road conditions, driver fatigue, distracted driver • Drop or damage during loading/unloading 	Medium
TAFUP-0917-R	Procured equipment/Construction quality does not meet performance specifications	WRPS	<ul style="list-style-type: none"> • Construction subcontractor quality of work is less than adequate resulting in cost and schedule impacts caused by: • Quality of materials/equipment supplied by constructor is less than adequate • Construction contractor workmanship is less than adequate • Failure of walk down team to identify punch list items during walk downs • Construction damages existing Tank Farms Infrastructure 	Medium
TAFUP-0942-R	External Requirements Change affecting DFLAW WFD	ORP	<ul style="list-style-type: none"> • A risk exists that external factors influence process changes impacting the project. Causes include: <ul style="list-style-type: none"> • Implementations of systems that are new to the Hanford Site or have not been used are part of the scope for this project • ORP or external stakeholders influence change in requirements or interpretation of requirements (e.g., reroute of 12" raw water line) • DOE administrative changes • DNFSB impacts • ORP decisions delayed • Safety Basis changes (e.g. changes in dispersion coefficients, vehicle barrier safety classification, storage pad atmospheric condition monitoring equipment) • DST critical to TSCR operations or DFLAW is taken out of service due non-compliant status or failure. Impacts Waste Feed Delivery Plan • Changes to ICD 30 or ICD 31 • Does not include: <ul style="list-style-type: none"> • A new transfer line between AP farm and WTP is required • A new transfer line inside AP farm to W-211 outside AP farm is required • Physical isolation from WTP is required until hot commissioning • Environmental permitting impacts • TSCR safety basis approval delay 	Medium

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TAFUP-0951-R	Complex Integration of Field Work	WRPS	<ul style="list-style-type: none"> • DOE scope changes occur during TSCR fabrication • DOE design affecting scope changes occur during TSCR design • Internally driven design affecting requirements change during TSCR design and fabrication <p>Project field work will be taking place within AP farm, requiring coordination with ongoing operations as well as other project scope. A risk exists that field work is delayed due to other WRPS work. Causes include:</p> <ul style="list-style-type: none"> • WIDS removal by Tank Farm Projects impacts storage pad construction • Prioritization of other WRPS project scopes (AP-106 repurposing) • Integration with waste transfer schedule <p>Does not include:</p> <ul style="list-style-type: none"> • Nearby work by other site contractors impacts TFU work (MSA and CHPRC infrastructure work) 	Medium
TAFUP-1292-R	Equipment Fails During Testing/Readiness	WRPS	<p>A risk exists that equipment failure during factory acceptance testing, construction acceptance testing, operational acceptance testing, or readiness activities, requiring replacement by the project (e.g., pump failure, TSCR equipment/component failure).</p>	Medium
TAFUP-1343-R	W-211 Transfer Lines require additional testing to be utilized for transfer.	ORP	<p>A risk exists that additional testing is necessary to approve use of the W-211 lines to transfer AP farm LAW feed and EMF return to WTP, by internal or external stakeholders. This risk could result in additional testing at pre-determined locations or additional locations requiring exposure of a larger piping area. Causes may include issues identified during testing.</p>	Medium
TAFUP-1348-R	TFU Unexpected Field Conditions Encountered	ORP	<p>A risk exists that unexpected field conditions cause delays or constructability reviews find significant issues. Causes may include:</p> <ul style="list-style-type: none"> • Unexpected contamination encountered (DOE) • Unidentified waste site discovered (DOE) • Degraded infrastructure condition (e.g., drop-leg riser, pit condition, not inclusive of W-211 line failure) (WRPS) • Ecological/Cultural Site discovered 	Medium
TAFUP-1349-R	Subcontractor Resource Availability is Limited.	WRPS	<p>A risk exists that subcontractor (fabrication, installation, construction) resource availability causes schedule delays. Causes include:</p> <ul style="list-style-type: none"> • Competing Projects for resources.(trained field work supervisors, trained craft, fabrication facilities) • Limited Tank Farm trained construction craft 	Medium

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TAFUP-1353-R	Work by Other Site Contractors Impacts Planned Scope	ORP	<p>This risk excludes the TSCR scope with AVANTech captured in TSCR-0939-R.</p> <p>Infrastructure work is planned by other site contractors in proximity to Tank Farm Upgrade scopes. A risk exists that work scopes being performed by other contractors impacts the execution schedule. Causes include:</p> <ul style="list-style-type: none"> • Water utility re-routing by MSA • Sewer upgrades by MSA • Road changes by MSA • Power utilities by MSA • Transfer line installation delay by WTP • Fence relocation delay by WTP • Scheduling conflicts during testing (e.g., radiography of transfer line requiring clearing of co-located facilities) • Stop work on the WTP site • Remediation work by CHPRC • Site work stoppage due to accident experienced by other Hanford contractors 	Medium
TAFUP-1364-R	WRPS Resource Availability Less Than Adequate	WRPS	<p>Numerous resources will be required to execute the planned work scopes. A risk exists that critical resource availability causes delays. Causes may include:</p> <ul style="list-style-type: none"> • HPT/IHT resources supporting multiple projects • Engineering resources needed for timely design reviews • Crane availability • Qualified field work supervisors • Misc. equipment availability • Stand down/stop work 	Medium
TAFUP-1373-R	Internally driven requirements change.	WRPS	<p>Internal factors influence design/construction processes, causing project impacts through requirements change:</p> <ul style="list-style-type: none"> • Engineering standards change • WRPS procedures change • Work control changes • Forklift IXC requirements change • Constructability reviews <p>Not inclusive of risk TSCR-0859-R.</p>	Medium

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TSCR-0848-R	TSCR Safety Basis Approval is Delayed	WRPS	<p>Approval of TSCR safety basis is delayed, caused by:</p> <ul style="list-style-type: none"> PrHA additional hazards that require added safety controls Internally driven design-affecting requirements change during TSCR design and fabrication. <p>Does not include:</p> <ul style="list-style-type: none"> TSCR is not a minor modification and DOE-STD-1189 does apply 	Low
TSCR-0964-R	TSCR Critical Characteristics is Delayed	WRPS	<p>Development or delivery of TSCR critical characteristics is delayed caused by:</p> <ul style="list-style-type: none"> Lack of resources to complete nuclear safety and engineering activities (e.g., PrHA, control selection, FMEA, draft FREDs/SREDS) Compression of vendor's design schedule reduces time to complete nuclear safety activities necessary to support critical characteristic identification Procedure changes to support the control selection take longer than anticipated DOE review results in changes to critical characteristics 	Low
TSCR-1445-R	DOE Delay in TSCR Safety Basis Approval	ORP	<p>DOE delay in approval of TSCR safety basis is caused by:</p> <ul style="list-style-type: none"> Lack of adequate review resources Coordination of reviews with DOE-HQ organizations 	Low
TAFUP-0922-R	Vapors Controls Result in Project Impacts	WRPS	<p>Tank farm vapors interrupt/slow TSCR work. Planned work scope includes activities both inside and within close proximity to AP farm. A risk exists that a change in the vapor control strategy impacts execution by the project. Causes include:</p> <ul style="list-style-type: none"> Access to construction site is cut off at AP farm Stop work associated with vapors controls 	Low
TAFUP-1366-R	Issues Identified During Operations Training	WRPS	<p>Operations training will occur following FAT of TSCR. A risk exists that issues are identified during training operations, which require modifications or upgrades to the TSCR system.</p>	Low
TAFUP-1369-R	Delays in Contract Awards	WRPS	<p>Multiple construction subcontracts will need to be issued to support the project schedule. Delays in proposal evaluations and contract approvals may impact project scopes. Causes may include:</p> <ul style="list-style-type: none"> Lack of critical procurement resources Prioritization of other contract scopes Period of performance extension delayed during TCC transition 	Low
TAFUP-1381-O	Machine excavation of SN-637 near AP Farm	WRPS	<p>Based on anticipated obstructions along the transfer route, excavation is currently planned to be performed by hand. An opportunity exists that</p>	Low

FY20 Capital Proposal Risk Register

Risk ID	Title	Ownership Organization	Description / Causes	Risk Level
TAFUP-1388-R	ORP awards new TCC Resulting in Rate Change	ORP	portions of the transfer route could be excavated with heavy machinery resulting in schedule acceleration and reduced labor costs. The WRPS contract is anticipated to be transitioned to a new tank farm contractor during FY2020. A risk exists that rates change under the new TCC resulting in cost impact to the project.	High

ATTACHMENT 4

Performance Evaluation and Measurement Plan

Revision 1

Total: 59 pages including this cover page

**SECTION J, ATTACHMENT J.4
PERFORMANCE EVALUATION AND
MEASUREMENT PLAN FISCAL YEAR
2020**

(Revision 1)

Fiscal Year 2020

Performance Evaluation and Measurement Plan
(Revision 1)
For
Washington River Protection Solutions LLC

Performance Period:
October 1, 2019 through September 30, 2020

Issued by:



Brian T. Vance
Fee Determination Official
DOE-ORP

1/30/2020

Date



John R. Eschenberg
President & Project Manager
WRPS

February 4, 2020

Date

Table of Contents

INTRODUCTION.....	5
GENERAL INFORMATION.....	5
PEMP OBJECTIVES	5
DEFINITIONS	5
FEE CONCEPT	7
TOTAL AVAILABLE FEE ALIGNMENT AND EARNINGS IN THE EVENT OF EARLY CONTRACT TERMINATION	8
PROVISIONAL PAYMENT OF FEE	9
AWARD FEE DETERMINATION	9
EVALUATION PROCESS	10
CONTRACTOR SELF-ASSESSMENT	10
MONTHLY PBI COMPLETION SUBMITTAL	10
METHOD FOR CHANGING PLAN COVERAGE	10
REFERENCES	10
PERFORMANCE BASED INCENTIVES.....	11
PBI-59.0, CLIN 2: Retrieval/Closure Activities.....	12
PBI-60.0, CLIN 3: Direct Feed Low Activity Waste Support (Expense).....	20
PBI-61.0, CLIN 3: Direct Feed Low Activity Waste Support (Capital).....	25
PBI-62.0, CLIN 2: Tank Farm Operations.....	30
SPECIAL EMPHASIS AREAS.....	41
SEA 1: Management of Hanford Tank Farms.....	44
SEA 1a: Early Contract Termination – Performance toward in-Progress PBIs.....	45
SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations.....	47
SEA 3: Conduct of Engineering.....	48
SEA 4: Quality Assurance Program.....	49
SEA 5: Nuclear Safety Program.....	50
SEA 6: Environmental Regulatory Management.....	51
SEA 7: Safety Program Implementation.....	52
SEA 8: Support for DFLAW Program.....	54
SEA 9: Tank Farm Contract Transition.....	55

List of Attachments

ATTACHMENT 1 - PERFORMANCE MONITOR EVALUATION REPORT FORM

ATTACHMENT 2 - FDO AND PERFORMANCE EVALUATION BOARD MEMBERS

ATTACHMENT 3 - PERFORMANCE EVALUATION AND MEASUREMENT PLAN CHANGE REQUEST

INTRODUCTION

Contract No. DE-AC27-08RV14800 uses multiple performance based incentives (PBIs) and special emphasis area (SEA) award fee components to drive Contractor excellence in performing the operations, construction, and maintenance of the Hanford Tank Farms. The Performance Evaluation and Measurement Plan (PEMP) gives the U.S. Department of Energy (DOE), Office of River Protection (ORP) a tool to identify and reward superior performance.

In the execution of the contract, Washington River Protection Solutions LLC (WRPS) is expected to provide comprehensive, effective management as conscientious stewards of all Tank Farm facilities and activities through:

1. Demonstrating safety leadership and risk-informed, conservative decision-making.
2. Anticipating project challenges and providing timely resolution.
3. Open communication with the workforce fostering a questioning attitude and an environment free from retribution.
4. Aggressive self-discovery of project issues to ORP through critical self-analysis, performance monitoring, and comprehensive extent of condition reviews.

This PEMP also defines the ORP approach in evaluating, documenting, and providing performance fee to WRPS, in the execution of requirements defined in Contract DE-AC27-08RV14800. This PEMP is for the contract period of performance from October 1, 2019 through September 30, 2020.

GENERAL INFORMATION

PEMP Objectives

1. Provide ORP with a mechanism to achieve its highest priority objectives.
2. Provide incentive to WRPS to accomplish ORP's management and program objectives through the establishment of critical performance objectives and measures.
3. Reward WRPS with fee commensurate with the achievement of the specific ORP performance requirements.
4. Create an administratively efficient process to assess WRPS performance.
5. Provide a fair and reasonable basis for determining the amount of fee earned.
6. Create a process that ensures WRPS work efforts are executed in a manner that provides high value and high quality deliverables to ORP.

Definitions

Accelerated Performance Based Incentive (PBI) Completed PBI with a terminal date outside of the contract period of performance.

Award Fee The subjective fee component of Performance Fee.

Expected Performance Level Meets agreed upon requirements and performance objectives.

Fee Determination Official (FDO) The final authority in determination of fee awarded to WRPS.

Office of River Protection ORP is a Department of Energy Environmental Management field office.

Performance Evaluation Board (PEB) For the purpose of this PEMP, designated ORP senior managers and Contracting Officer are chartered with recommending WRPS earned fee to the FDO.

Performance Evaluation and Measurement Plan (PEMP) A plan that defines an approach in evaluating, documenting, and providing performance fee against specified PBIs and Award Fee Incentives.

Performance Evaluation Period The period for which the PEB evaluates contractor's overall performance.

Performance Fee That portion of the total available fee which is tied exclusively to the contractor's performance of the contract. The performance fee amount will consist of an incentive fee component for objective performance requirements and an award fee component for subjective performance requirements, or both.

Performance Based Incentive (PBI) A PBI represents a reward or consequences that may be employed to motivate a contractor to achieve baseline or higher levels of performance of a requirement. In most instances, the incentive represents an amount of fee tied to the accomplishment of a performance objective.

Performance Measure The quantitative method for characterizing performance.

Performance Monitor (PM) Designated by the PEB as responsible individuals monitoring and evaluating the contractor's performance.

Performance Objective A statement of desired results from an organization or activity.

Provisional Payment of Fee Any payments paid on a provisional basis may be reclaimed.

Special Emphasis Area (SEA) An area that is extremely important to DOE and ORP and the fee associated with each area represents an incentive based on a graded approach and is a subjective determination by the PM for calculation of possible earned fee.

Straight-line Method This method provides a 100 percent incremental fee for completion of the performance measure prior to the expiration of the performance evaluation period.

Terminal Method This method provides 100 percent incremental fee for completion of the performance measure prior to a specific date and/or milestone; however, the Contractor will forfeit 100 percent of the fee allocated to the performance measure for completion of the performance measure after the passing of the specific date and/or milestone as defined within the performance measure.

Fee Concept

Performance-based management contracting principles emphasize results-oriented work statements, and performance objectives and measures to incentivize contractors to achieve excellent performance. ORP implements performance-based management contracting principles through processes associated with Strategic Planning, Budget Formulation, Budget Execution, and Performance Evaluation.

WRPS is responsible for the furnishing of safe, compliant, cost-effective and energy-efficient services to further the ORP mission to store, retrieve and treat Hanford tank waste, store and dispose of treated waste, and to close the Tank Farm waste management areas to protect the Columbia River. Because of the nature of this work, ORP uses performance fee to incentivize and reward WRPS for performance. Performance fee consists of two components: an incentive fee component which provides management focus and emphasis on ORP's few critical program objectives and an award fee component which provides management focus on all other aspects of WRPS's performance of the overall Tank Farm operations, construction, and maintenance programs.

a. PBI

The PBI performance measures and fee measures are delineated in Attachment 1 of this PEMP. Emphasis will be placed on development of objective incentives based on definition of the desired outcome (the "what") and expect the contractor to compliantly and safely determine "how" the work is performed to achieve the desired outcome within the established funding constraints. These incentives are identified as PBIs and typically carry more performance risk and higher fee earning opportunities.

b. Award Fee SEA Incentives

The SEA performance objectives and measures are delineated in Attachment 1 of the PEMP. In certain instances, the contractor must provide support and/or deliverables that are required to accomplish the project objectives but are not objectively measurable in all cases. These efforts are therefore measured subjectively under incentives identified as SEAs and typically carry reduced performance risk and moderate fee earning opportunities and the FDO may use discretionary factors in determining fee. Consideration will also be given to complete and accurate technical information/products delivered in mutually agreed time frames that meet all applicable codes, standards, rules, regulations and orders.

The PBI and SEA fee pools are split approximately 70%/30% and when combined represent a total available fee pool of \$ 50,700,000.

Each PBI will be evaluated during the period of performance on a pass/fail basis. Unearned fee is not available to be earned in any subsequent evaluation period. Where a PBI requires completion of multiple discrete standalone items (e.g. 10 grab samples, 5 Single Shell Tank Visual Inspections, etc.) and the period of performance is reached before the end of the fiscal year, incentives will be paid based on units complete, prorated, at the time of contract completion with any unearned balance being allocated as described within this PEMP.

For all PBIs which require DOE or other external body reviews, it is assumed review comments are received by WRPS within 15 calendar days unless specifically stated otherwise.

Total Available Fee Alignment and Earnings in the Event of Early Contract Termination

In the event of early contract termination, the Negotiated Contract Total Available Fee will be adjusted to account for pending contract changes and any work not to be performed within the period of performance.

	Negotiated Contract Total Available Fee
Less	Available fee assigned to prior period PEMPs
Less	Negotiated fee for work not to be completed
<i>Equals</i>	<i>FY2020 Available Fee Pool</i>

The FY2020 Available Fee Pool will be split 70%/ 30% between the PBI and SEA fee pools, where 70% will be allocated to the PBI fee pool and 30% will be allocated to the SEA fee pool. Should early termination of the contract occur, a situation may arise where the available PBI fee pool is greater than PBI fee earned-to-date, as demonstrated below, resulting in unallocated fee.

	FY 2020 Available Fee Pool
Less	FY 2020 SEA available fee pool
Less	FY 2020 PBI milestone values earned
Less	FY 2020 PBI milestone values lost due to missed terminal dates within the period of performance
<i>Equals</i>	<i>Remaining FY2020 Unallocated Fee</i>

In the event of unallocated fee upon completion of the contract period of performance, as calculated above, the remaining unallocated FY2020 fee will be split 50%/50% between the PBI and SEA fee pool to be earned via the following methodology:

- a) The 50% of remaining unallocated FY2020 fee that is reallocated to the PBI fee pool will be made available as a direct payment to the contractor for work performed toward PBIs with terminal dates outside the period of performance.
- b) The 50% of remaining unallocated FY2020 fee that is reallocated to the SEA fee pool will be applied as a standalone sub element of SEA 1 (to be evaluated separately) and will be earned based on the subjective evaluation of the contractor's efforts toward accomplishing PBIs with terminal dates outside of the period of performance. The subjective evaluation of this sub element will be separate from that of SEA 1 allowing the

contractor the opportunity to earn the entirety of the 50% of remaining unallocated fee that is reallocated to the SEA fee pool for efforts toward accomplishing PBIs with terminal dates outside of the period of performance.

Complete or missed PBIs within the period of performance will be paid or deducted from the fee pool at the values stated in this PEMP and will not be subject to change following adjustment of the Total Available Fee pool in the event of early contract termination. At no point shall the combined earnings for accelerated PBIs and completed PBIs with terminal dates within the contract period of performance exceed 70% of the FY2020 Available Fee Pool.

Provisional Payment of Fee

Provisional payment of fee has no implications for the Government's eventual determination that the Contractor has or has not earned the associated available fee. Provisional payment of fee is a separate and distinct concept from earned fee. The Contractor could, for example, receive 100 percent of possible provisional fee payments yet not earn any fee (the Contractor would be required to return all of the provisional fee payments). The Contractor could, for example, receive zero percent of possible provisional fee payments yet earn the entire amount of available fee (it would not receive any fee payments until the Government's determination that the Contractor had earned the associated available fee for the incentive).

If the Contracting Officer determines the Contractor has not met the requirements to retain any provisionally paid fee and notifies the Contractor, the Contractor must return that provisionally paid fee to the Government within thirty (30) days:

- (i) The Contractor's obligation to return the provisional paid fee is independent of its intent to dispute or its disputing the Contracting Officer's determination; and
- (ii) If the Contractor fails to return the provisionally paid fee within thirty (30) days of the Contracting Officer's determination, the Government, in addition to all other rights that accrue to the Government and all other consequences for the Contractor due to the Contractor's failure, may deduct the amount of the provisionally paid fee from amounts it owes under invoices; or any other amount it owes the Contractor for payment, financing, or other obligation.

Pending satisfactory performance, the Contractor is authorized to invoice for provisional fee once per month at a rate of 2% of the total fee pool. At no point, shall the aggregate provisional fee payments exceed 24% of the negotiated fee pool.

Award Fee Determination

Award fee dollars are determined in accordance with Contract No. DE-AC27-08RV14800, Section B, Clause B.8, "Fee Determination and Payment." Award fee dollars are noted in the tables provided in Attachment 1.

In accordance with FAR 16.401(e)(3)(v), "Incentive Contracts," "General," the contractor is prohibited from earning any award fee when the contractor's overall cost, schedule, and technical performance is below satisfactory.

Evaluation Process

The U.S. Department of Energy (DOE), Office of River Protection (ORP) will evaluate and measure performance for each of the award fee objectives on a quarterly basis in accordance with DOE-PRO-AM-50472, Cost Plus Award Fee Administration. The Contractor will provide a summary of the effectiveness of its Contractor Assurance System to ORP to support the quarterly evaluations. DOE will identify WRPS performance strengths and weakness at the end of each of the four quarters, year-to-date for each of the award fee objectives. DOE will assign adjectival ratings only at the end of the fourth quarter. The adjectival ratings for each of the award fee objectives will be based on the entire year's performance.

Contractor Self-Assessment

Following each evaluation period, the Contractor may submit a self-assessment, provided such assessment is submitted within ten (10) calendar days after the end of the period. This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The Contracting Officer will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period.

Monthly PBI Completion Submittal

Within ten (10) working days after the end of a calendar month, WRPS shall provide the ORP Contracting Officer with a list of the PBIs completed in that month and supporting documentation demonstrating the PBIs have been earned. The Contractor is authorized to include an invoice for provisional fee at a rate of 2% of the total fee pool. The Contractor will provide an electronic copy of its monthly PBI completion report to the ORP Contracting Officer for distribution to ORP PMs.

Within ten working (10) days after the end of the third quarter, WRPS shall provide the Contracting Officer with a self-assessment of their performance towards achievement of the award fee performance objectives and measures during the first three quarters. The Contractor will provide an electronic copy of its third quarter award fee self-assessment report to the ORP Contracting Officer for distribution to ORP PMs.

Method for Changing Plan Coverage

Proposed changes to the PEMP may be initiated by ORP. Proposed changes to the PEMP may be initiated on the official PEMP Change Form (Attachment 4). The respective PM will review and concur on proposed changes prior to any changes being made to the PEMP. The FDO will either approve or disapprove any proposed changes to the PEMP.

References

DOE ORP contract with WRPS; Contract DE-AC27-08RV14800.

PERFORMANCE BASED INCENTIVES

PERFORMANCE BASED INCENTIVE	VALUE	PERFORMANCE MONITOR
PBI-59.0, CLIN 2: Tank Retrieval/Closure Activities	\$13,240,870	Tank Farms
PBI-60.0, CLIN 3: Direct Feed Low Activity Waste Support (Expense)	\$4,559,350	Tank Farms
PBI-62.0, CLIN 2: Tank Farm Operations	\$13,865,400	Tank Farms
Total FY2020 Expense PBI Fee Available	\$31,665,620	
PBI-61.0, CLIN 3: Direct Feed Low Activity Waste Support (Capital)	\$3,824,380	Tank Farms
Total FY2020 Capital PBI Fee Available	\$3,824,380	
Total FY 2020 PBI Fee Available	\$35,490,000	

PBI-59.0, CLIN 2: Retrieval/Closure Activities

Performance Fee value is established at \$13,240,870 of the Fiscal Year 2020 fee pool.

Milestone	Method	Fee Value	Due Date	Fund Type
59.0.1	Terminal	\$312,280	June 30, 2020	Expense
59.0.2	Terminal	\$1,374,050	September 15, 2020	Expense
59.0.3	Terminal	\$2,435,820	September 30, 2020	Expense
59.0.4	Terminal	\$936,850	April 30, 2020	Expense
59.0.5	Terminal	\$249,830	September 30, 2020	Expense
59.0.6	Terminal	\$249,830	June 30, 2020	Expense
59.0.7	Terminal	\$249,830	June 30, 2020	Expense
59.0.8	Terminal	\$249,830	September 30, 2020	Expense
59.0.9	Terminal	\$249,830	June 30, 2020	Expense
59.0.10	Terminal	\$249,830	June 30, 2020	Expense
59.0.11	Terminal	\$249,830	September 30, 2020	Expense
59.0.12	Terminal	\$562,110	September 30, 2020	Expense
59.0.13	Terminal	\$249,830	June 30, 2020	Expense
59.0.14	Terminal	\$687,020	September 30, 2020	Expense
59.0.15	Terminal	\$187,370	January 31, 2020	Expense
59.0.16	Terminal	\$249,830	September 30, 2020	Expense
59.0.17	Terminal	\$249,830	June 30, 2020	Expense
59.0.18	Terminal	\$249,830	September 30, 2020	Expense
59.0.19	Terminal	\$249,830	June 30, 2020	Expense
59.0.20	Terminal	\$249,830	September 30, 2020	Expense
59.0.21	Terminal	\$936,850	September 30, 2020	Expense
59.0.22	Terminal	\$936,850	September 30, 2020	Expense
59.0.23	Terminal	\$1,623,880	September 30, 2020	Expense
Total		\$13,240,870		

Desired Endpoint/Outcome:

The work outlined in this PBI is required to prepare and retrieve tanks in A/AX farms for waste retrieval and initiate and perform waste retrieval activities in support of Amended Consent Decree Milestones B-2 and B-3. Additional work outlined in this PBI includes work necessary to completed design and construction of interim surface barriers in support of Tri-Party Agreement Milestone (TPA) M-045-92.

Fee Bearing Milestones:

59.0.1. Complete waste retrieval operations for Tank AX-102 by June 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete waste retrieval operations of Tank AX-102 to a residual waste volume of less than 360 cubic feet or to the limits of two approved technologies as defined by the applicable Tank Waste Retrieval Work Plan (TWRWP) RPP-RPT-58933, Revision 01 with Modification 2019-01 and document results in the Contractor's Retrieval Completion Report (RCR).

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the Contractor's RCR documenting the field results of retrieval released through SmartPlant.

- 59.0.2. Complete waste retrieval system construction for Tank AX-104 and turnover to operations by September 15, 2020. The Contractor shall earn \$1,374,050 fee upon completion.

Work scope/completion criteria:

Complete waste retrieval system construction and approval of the Operational Readiness Checklist (ORC) to support waste retrieval operations at Tank AX-104.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the signed ORC, and a copy of the Contractor approved Construction Completion Document (CCD) through section 1a with exceptions listing.

- 59.0.3. Complete waste retrieval field operations for Tank AX-104 by September 30, 2020. The Contractor shall earn \$2,435,820 fee upon completion.

Work scope/completion criteria:

Complete waste retrieval field operations of Tank AX-104 to a residual waste volume of less than 360 cubic feet or to the limits of two approved technologies as defined by the applicable TWRWP RPP-RPT-58935, Revision 01 with Modification 2019-01.

Completion document:

Letter transmitting the performance expectation completion notice and documentation of retrieval completion to the limits of technology in accordance with the completion criteria.

- 59.0.4. Complete installation and turnover of the A-Farm ventilation system by April 30, 2020. The Contractor shall earn \$936,850 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the A-Farm ventilation system providing continuous active ventilation of A-Farm tanks: A-101, A-102, A-103, A-104, A-105, and A-106.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the signed ORC validating that the system has been installed, tested, turned over, and is ready for operations.

- 59.0.5. Complete fabrication and testing of the integrated Mechanical Waste Gathering System (MWGS) prototype and submit and effectiveness test report by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete vendor testing of the integrated MWGS prototype to include testing of the umbilical management system, booster pump, and integrated system testing and submit an effectiveness test report.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the vendor test plan(s) and report documenting the results.

- 59.0.6. Complete the first of three (3) Long Length Equipment (LLE) removals in AX-Farm by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in AX-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.7. Complete the second of three (3) LLE removals in AX-Farm by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in AX-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.8. Complete the third of three (3) LLE removals in AX-Farm by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in AX-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.9. Complete the first of three (3) LLE removals in A-Farm by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in A-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.10. Complete the second of three (3) LLE removals in A-Farm by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in A-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.11. Complete the third of three (3) LLE removals in A-Farm by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete removal of one (1) LLE from a tank located in A-Farm to prepare for the installation of retrieval equipment.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package(s) signature page approved through Field Work Supervisor (FWS) confirmation of the LLE removal completion.

- 59.0.12. Complete removal of six (6) legacy AY-102 Hose-In-Hose-Transfer-Lines (HIHTLs) by September 30, 2020. The Contractor shall earn \$562,110 fee upon completion.

Work scope/completion criteria:

Complete field removal and packaging of six (6) legacy AY-102 HIHTLs for shipment to a treatment or disposal facility to provide installation footprint for A-Farm waste transfer lines in support of A-Farm waste retrieval.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work record entry documenting Operations Acceptance for the removal and packaging of the six (6) HIHTLs.

- 59.0.13. Complete draft closure conceptual design report for Waste Management Area (WMA) A/AX by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete the draft closure conceptual design report of WMA A/AX for ORP review.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the draft WMA A/AX closure conceptual design package report for ORP review.

- 59.0.14. Complete installation of the TX farm evapotranspiration basin by September 30, 2020. The Contractor shall earn \$687,020 fee upon completion.

Work scope/completion criteria:

Complete installation of the TX farm evapotranspiration basin to support TPA milestone M-045-92Y.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 59.0.15. Complete camera visual inspection and residual waste volume measurement report for Tank 241-C-106 by January 31, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Perform video inspection and calculation of the final residual waste volume in Tank 241-C-106. Completion criteria shall include issuance and transmittal of the final report documenting the residual waste volume of Tank C-106 to ORP.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the

final report documenting the residual waste volume of Tank C-106.

- 59.0.16. Complete final draft of the RCRA Tier 3 closure plan for tanks C-101 through C-106 by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete final draft of the RCRA Tier 3 closure plan for tanks C-101 through C-106 with ORP review comments incorporated and submit to ORP for review and approval.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the final draft of the RCRA Tier 3 closure plan for tanks C-101 through C-106.

- 59.0.17. Complete final draft of the DOE Order 435.1 Tier 2 closure plan for tanks C-107 through C-112 by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete final draft of the DOE Order 435.1 Tier 2 closure plan for tanks C-107 through C-112 with ORP review comments incorporated and submit to ORP for review and approval.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the final draft of the DOE Order 435.1 Tier 2 closure plan for tanks C-107 through C-112.

- 59.0.18. Complete draft preliminary RCRA closure analysis of WMA A/AX residuals by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete draft preliminary RCRA closure analysis of WMA A/AX residuals.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the draft preliminary RCRA closure analysis of WMA A/AX residuals.

- 59.0.19. Complete draft Final Waste Incidental Report (WIR) Evaluation for WMA C by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete draft Final WIR Evaluation for WMA C, incorporating requirements of DOE O 435.1, and DOE, NRC, and public comments, and submit to ORP for review.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the final draft WIR Evaluation for WMA C.

- 59.0.20. Complete final draft of the DOE O 435.1 Tier 1 closure plan for WMA C and Tier 2 closure plan for C-200 tanks by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete final draft of the DOE O 435.1 Tier 1 closure plan for WMA C and Tier 2 closure plan for C-200 tanks, with ORP and EM review comments incorporated, and submit to ORP for review and approval.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the DOE O 435.1 Tier 1 closure plan for WMA C and Tier 2 closure plan for C-200 tanks.

- 59.0.21. Complete vadose zone direct push characterization for Focus Area 2 of WMA A/AX by September 30, 2020. The Contractor shall earn \$936,850 fee upon completion.

Work scope/completion criteria:

Complete vadose zone direct push characterization for Focus Area 2 of WMA A/AX to include collection of an average of 10 soil samples from two (2) locations south of A Farm. Completion shall include reporting of the initial analysis of samples for soil moisture, technetium, and nitrate concentrations.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the chain of custody forms, and a copy of the report documenting sample locations, depths, and analytical results.

- 59.0.22. Complete drywell logging for Focus Area 1 of WMA A/AX by September 30, 2020. The Contractor shall earn \$936,850 fee upon completion.

Work scope/completion criteria:

Complete drywell logging for Focus Area 1 of WMA A/AX to include logging of up to eighteen (18) drywells around Tanks A-104 and A-105 for spectral gamma, neutron moisture, and temperature. Completion shall include a log data report for each drywell logged containing field measurements, notes, and interpretations.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the report documenting the drywells logged, and a copy of the log data report from each drywell logged.

- 59.0.23. Complete installation of the AX-103 infrastructure system and two (2) tank retrieval system components by September 30, 2020. The Contractor shall earn \$1,623,880 fee upon completion.

Work scope/completion criteria:

Complete installation of the AX-103 infrastructure system and two (2) tank retrieval system components. AX-103 infrastructure installation includes diversion box POR413, AX-103 HIHTLs, conduit and wire installation of two (2) in-tank retrievals system components (e.g. sluicers or pump). Installation is limited to mechanical installation and does not include HIHTL, electrical, or control system connections. Construction or operational acceptance testing is not included.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package(s) signature page approved through FWS confirmation that installation is complete.

PBI-60.0, CLIN 3: Direct Feed Low Activity Waste Support (Expense)

Performance Fee value is established at \$4,559,350 of the Fiscal Year 2020 fee pool.

Milestone	Method	Fee Value	Due Date	Fund Type
60.0.1	Terminal	\$187,370	March 31, 2020	Expense
60.0.2	Terminal	\$249,830	September 30, 2020	Expense
60.0.3	Terminal	\$249,830	June 30, 2020	Expense
60.0.4	Terminal	\$249,830	September 30, 2020	Expense
60.0.5	Terminal	\$249,830	September 30, 2020	Expense
60.0.6	Terminal	\$374,740	June 30, 2020	Expense
60.0.7	Terminal	\$374,740	June 30, 2020	Expense
60.0.8	Terminal	\$374,740	March 31, 2020	Expense
60.0.9	Terminal	\$374,740	September 30, 2020	Expense
60.0.10	Terminal	\$374,740	September 30, 2020	Expense
60.0.11	Terminal	\$374,740	December 31, 2019	Expense
60.0.12	Terminal	\$249,830	September 30, 2020	Expense
60.0.13	Terminal	\$249,830	September 30, 2020	Expense
60.0.14	Terminal	\$312,280	June 30, 2020	Expense
60.0.15	Terminal	\$312,280	September 30, 2020	Expense
Total		\$4,559,350		

Desired Endpoint/Outcome:

The work outlined in this PBI contributes to the increased schedule confidence that Direct-Feed Low-Activity Waste (DFLAW) processing will begin on or before December 2021, in addition to supporting TPA milestones.

Fee Bearing Milestones:

- 60.0.1. Reduce Liquid Effluent Retention Facility (LERF) inventory by 1,000,000 gallons by March 31, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Operate the Effluent Treatment Facility (ETF) to process waste volume reduction of 1,000,000 gallons.

Completion document:

Letter transmitting the performance expectation completion notice and evidence of completion documenting that the LERF inventory reduction has been achieved.

- 60.0.2. Complete 100% design of the ETF redundant filtration upgrades by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the ETF redundant filtration upgrades to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 60.0.3. Complete 100% design of LERF Basin 41 by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the LERF Basin 41 to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 60.0.4. Complete 100 % design of the ETF Ultraviolet Oxidation (UV/OX) system upgrades by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the ETF UV/OX system upgrades to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 60.0.5. Complete 100% design and procurement/fabrication of the ETF Monitoring Control System (MCS) upgrades by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the ETF MCS upgrades to include all comments dispositioned, approval, and release through SmartPlant Foundation. Receive through green-tag acceptance all procured and/or fabricated material and equipment necessary to complete the ETF MCS upgrade.

Completion document:

Letter transmitting the performance expectation completion notice, a matrix identifying the final design package approved and released through SmartPlant Foundation, and

documentation of the receipt and green-tag acceptance of the procured and/or fabricated item(s).

- 60.0.6. Complete installation and turnover of the ETF Reverse Osmosis (RO) pumps and valving upgrades by June 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF RO pumps and valving upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 60.0.7. Complete installation and turnover of the ETF cooling tower and pump upgrades by June 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF cooling tower and pump upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 60.0.8. Complete installation and turnover of the ETF evaporator vapor body drain valve upgrades by March 31, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF evaporator vapor body drain valve upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 60.0.9. Complete installation and turnover of the ETF brine loadout upgrades by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF brine loadout upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

60.0.10. Complete modifications to the 310/311-PL transfer lines by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete modifications to the 310/311-PL transfer lines as follows:

- Install leak detection upgrades at Basin 42 and Basin 43
- Install flow meter spool piece at Basin 42
- Repair UV damaged encasement at Basin 42
- Install freeze protection
- Complete control system modifications

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance.

60.0.11. Complete installation and turnover of the AP-Farm change trailer by December 31, 2019. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the AP-Farm change trailer.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

60.0.12. Complete 100% design of the AP-Farm truck loading station by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the AP-Farm truck loading station to include all comments incorporated, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 60.0.13. Complete and submit documentation to support the DSA amendment for the AP-Farm truck loading station to ORP by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete the following documentation to support the DSA amendment for the AP-Farm truck loading station.

- Fire Hazard Analysis (FHA)
- Process Hazard Analysis (PrHA)

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the FHA, and a copy of the PrHA.

- 60.0.14. Complete fabrication and delivery of the Cold Commissioning Immobilized Low Activity Waste (ILAW) transporter equipment set to include one (1) trailer and three (3) pallets by June 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete fabrication and delivery of the Cold Commissioning ILAW transporter equipment set to include one (1) trailer and three (3) pallets. Receive through green-tag acceptance all procured and/or fabricated material and equipment.

Completion document:

Letter transmitting the performance expectation completion notice and documentation of the receipt and green-tag acceptance of the procured and/or fabricated item(s).

- 60.0.15. Complete fabrication and delivery of the final ILAW transporter equipment set to include two (2) trailers and Twenty (20) pallets by September 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete fabrication and delivery of the final ILAW transporter equipment set to include two (2) trailers and twenty (20) pallets. Receive through green-tag acceptance all procured and/or fabricated material and equipment.

Completion document:

Letter transmitting the performance expectation completion notice and documentation of the receipt and green-tag acceptance of the procured and/or fabricated item(s).

PBI-61.0, CLIN 3: Direct Feed Low Activity Waste Support (Capital)

Performance Fee value is established at \$3,824,380 of the Fiscal Year 2020 fee pool.

Milestone	Method	Fee Value	Due Date	Fund Type
61.0.1	Terminal	\$214,850	March 31, 2020	Capital
61.0.2	Terminal	\$214,850	December 31, 2019	Capital
61.0.3	Terminal	\$558,620	June 30, 2020	Capital
61.0.4	Terminal	\$558,620	September 30, 2020	Capital
61.0.5	Terminal	\$558,620	June 30, 2020	Capital
61.0.6	Terminal	\$429,710	June 30, 2020	Capital
61.0.7	Terminal	\$128,910	December 31, 2019	Capital
61.0.8	Terminal	\$128,910	December 31, 2019	Capital
61.0.9	Terminal	\$128,910	June 30, 2020	Capital
61.0.10	Terminal	\$214,850	September 30, 2020	Capital
61.0.11	Terminal	\$214,850	November 30, 2019	Capital
61.0.12	Terminal	\$472,680	February 29, 2020	Capital
Total		\$3,824,380		

Desired Endpoint/Outcome:

The work outlined in this PBI contributes to the increased schedule confidence that Direct-Feed Low-Activity Waste (DFLAW) processing will begin on or before December 2021, in addition to supporting TPA milestones.

Fee Bearing Milestones:

61.0.1. Complete Factory Acceptance Test (FAT) of the TSCR system by March 31, 2020. The Contractor shall earn \$214,850 fee upon completion.

Work scope/completion criteria:
 Complete design, fabrication, and Factory Acceptance Testing (FAT) of the TSCR system.

Completion document:
 Letter transmitting the performance expectation completion notice and a copy of the test plan(s) and report documenting the results.

61.0.2. Complete fabrication of the TSCR system by December 31, 2019. The Contractor shall earn \$214,850 fee upon completion.

Work scope/completion criteria:
 Complete fabrication of the TSCR system to include:

1. Media Trap (Traveler #1813-04, *Media Trap*)
2. Filter Assemblies (Traveler #1813-03A/B, 18" OD TSCR Filter Vessel)
3. Ion Exchange Columns (Traveler #1813-01A/B/C, 24" IX Column – *QL1 Safety Related Component*)
4. Treated Waste Delay Tank (Traveler #1813-02, 28" OD TSCR Delay Tank)
5. Process Piping (Traveler #1813-05, *Process Piping Enclosure*)
6. Process Enclosure (Traveler #1813-07, *Process Enclosure Fabrication*)
7. Ancillary Enclosure (Traveler #1813-09, *Ancillary Enclosure Layout*)
8. Control Enclosure (Traveler #1813-50, *Control Enclosure Panel WP-ENCL-001*)

Completion shall include approval of the travelers through final inspection for the aforementioned TSCR system components.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the travelers approved through the final inspection.

- 61.0.3. Complete delivery and anchoring of the TSCR system to the Balance of Facilities (BOF) concrete pad by June 30, 2020. The Contractor shall earn \$558,620 fee upon completion.

Work scope/completion criteria:

Complete delivery and anchoring of the TSCR system to the BOF concrete pad.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance.

- 61.0.4. Complete installation of the Ion Exchange Column (IXC) storage pad and transfer path by September 30, 2020. The Contractor shall earn \$558,620 fee upon completion.

Work scope/completion criteria:

Complete installation of the Ion Exchange Column storage pad and transfer path.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 61.0.5. Complete installation of the TSCR Balance of Facilities (BOF) concrete pad by June 30, 2020. The Contractor shall earn \$558,620 fee upon completion.

Work scope/completion criteria:

Complete installation of the TSCR BOF concrete pad.

Completion document:
Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

61.0.6. Complete installation of the AP-106 nozzle in pit AP-06A by June 30, 2020. The Contractor shall earn \$429,710 fee upon completion.

Work scope/completion criteria:
Complete installation of the AP-106 nozzle in pit AP-06A.

Completion document:
Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

61.0.7. Complete disposition of the External Independent Review (EIR) team findings by December 31, 2019. The Contractor shall earn \$128,910 fee upon completion.

Work scope/completion criteria:
Complete disposition of the EIR team findings and obtain EIR team concurrence that all comments have been dispositioned thus allowing the EIR team to recommend CD-2/3 approval. Completion of this PBI by the terminal date assumes Contractor receipt of the EIR team findings by November 22, 2019. Should the EIR team findings be delayed, the PBI will be renegotiated.

Completion document:
Letter transmitting the performance expectation completion notice, disposition document of EIR team findings, and EIR final report recommending CD-2/3 approval.

61.0.8. Submit documentation to support development of the TSCR demonstration project Documented Safety Analysis (DSA) Addendum for ORP review by December 31, 2019. The Contractor shall earn \$128,910 fee upon completion.

Work scope/completion criteria:
Submit the following documentation to support development of the TSCR demonstration project Documented Safety Analysis (DSA) Addendum for ORP review:

- Final Design Media (TSCR system, TPU, Waste Feed Delivery and Storage Pad) including design calculations and analyses used to support safety basis documents
- Updated RPP-RPT-61136, *Process Hazards Analysis (PrHA) for Tank Side Cesium Removal (TSCR) (TD101)*
- Updated RPP-CALC-62212, *Unmitigated Design Basis Accident Consequence Analysis for the Tank-Side Cesium Removal System*
- Functions and Requirements Evaluation Documents (FREDDs) and Instrument

Requirements Evaluation Documents

- Procedure TF-ENG-SB-C-15, *PDSA Change Control*

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the documentation to support development of the TSCR demonstration project DSA in accordance with the completion criteria.

- 61.0.9. Submit email draft of the TSCR demonstration project DSA Addendum for ORP review by June 30, 2020. The Contractor shall earn \$128,910 fee upon completion.

Work scope/completion criteria:

Submit email draft of the TSCR demonstration project Documented Safety Analysis (DSA) Addendum for ORP review with the following incorporated:

- Email draft of the TSCR demonstration project DSA Addendum which will be incorporated into RPP-13033, *Tank Farms Documented Safety Analysis*
- Email draft of the TSCR Technical Safety Requirements (TSR) which will be incorporated into HNF-SD-WM-TSR-006, *Tank Farms Technical Safety Requirements* in accordance with established TOC procedure TFC-ENG-SB-C-01, *Safety Basis Issuance and Maintenance*

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the email draft of the DSA Addendum, and a copy of the email draft of the TSCR TSRs in accordance with the completion criteria.

- 61.0.10. Submit the final TSCR demonstration project DSA Addendum and TSRs to ORP for approval by September 30, 2020. The Contractor shall earn \$214,850 fee upon completion.

Work scope/completion criteria:

Submit the final TSCR demonstration project DSA Addendum and TSRs to ORP for approval with all review comments incorporated.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the final DSA Addendum, and a copy of the TSRs in accordance with the completion criteria.

- 61.0.11. Complete the TSCR demonstration project Resource and Conservation Recovery Act (RCRA) permit supplemental package #1 and submit to ORP by November 30, 2019. The Contractor shall earn \$214,850 fee upon completion.

Work scope/completion criteria:

Complete and submit to ORP the TSCR demonstration project RCRA permit supplemental package #1. The supplemental package will consist of application sections

to reflect the final design media (TSCR system, TFU, Waste Feed Delivery and Storage Pad).

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the RCRA permit supplemental package #1, and a copy of the incoming letter of transmittal to ORP.

61.0.12. Complete and submit the RCRA Temporary Authorizations (TAs) required to support construction activities for the TSCR demonstration project to ORP by February 29, 2020. The Contractor shall earn \$472,680 fee upon completion.

Work scope/completion criteria:

Complete and submit the RCRA Temporary Authorizations (TAs) required to support construction activities for the TSCR demonstration project to ORP to include TAs for the following:

- TSCR System
- Waste Transfer Lines
- Ion Exchange Storage Pad

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the ORP approved TAs.

PBI-62.0, CLIN 2: Tank Farm Operations

Performance Fee value is established at \$13,865,400 of Fiscal Year 2020 fee pool.

Milestone	Method	Fee Value	Due Date	Fund Type
62.0.1	Terminal	\$374,740	September 30, 2020	Expense
62.0.2	Terminal	\$374,740	September 30, 2020	Expense
62.0.3	Terminal	\$249,830	September 30, 2020	Expense
62.0.4	Terminal	\$374,740	September 30, 2020	Expense
62.0.5	Terminal	\$437,200	June 25, 2020	Expense
62.0.6	Terminal	\$249,830	September 30, 2020	Expense
62.0.7	Terminal	\$249,830	September 30, 2020	Expense
62.0.8	Terminal	\$374,740	June 30, 2020	Expense
62.0.9	Terminal	\$374,740	September 30, 2020	Expense
62.0.10	Terminal	\$374,740	September 30, 2020	Expense
62.0.11	Terminal	\$374,740	September 30, 2020	Expense
62.0.12	Terminal	\$374,740	September 30, 2020	Expense
62.0.13	Terminal	\$249,830	June 30, 2020	Expense
62.0.14	Terminal	\$312,280	September 30, 2020	Expense
62.0.15	Terminal	\$312,280	September 30, 2020	Expense
62.0.16	Terminal	\$312,280	September 30, 2020	Expense
62.0.17	Deleted	Deleted	Deleted (Mod 556)	Deleted
62.0.18	Terminal	\$1,686,330	September 30, 2020	Expense
62.0.19	Terminal	\$124,910	September 30, 2020	Expense
62.0.20	Terminal	\$124,910	September 30, 2020	Expense
62.0.21	Terminal	\$374,740	August 15, 2020	Expense
62.0.22	Terminal	\$187,370	June 30, 2020	Expense
62.0.23	Terminal	\$187,370	September 30, 2020	Expense
62.0.24	Terminal	\$187,370	March 31, 2020	Expense
62.0.25	Terminal	\$187,370	June 30, 2020	Expense
62.0.26	Terminal	\$187,370	September 30, 2020	Expense
62.0.27	Terminal	\$749,480	March 31, 2020	Expense
62.0.28	Terminal	\$749,480	June 30, 2020	Expense
62.0.29	Terminal	\$749,480	September 30, 2020	Expense
62.0.30	Terminal	\$1,436,510	September 30, 2020	Expense
62.0.31	Terminal	\$249,830	September 30, 2020	Expense
62.0.32	Terminal	\$187,370	September 30, 2020	Expense
62.0.33	Terminal	\$187,370	September 30, 2020	Expense
62.0.34	Terminal	\$437,200	June 30, 2020	Expense
62.0.35	Terminal	\$249,830	June 30, 2020	Expense
62.0.36	Terminal	\$249,830	September 30, 2020	Expense
Total		\$13,865,400		

Desired Endpoint/Outcome:

The work outlined in this PBI is required to maintain safe and compliant Tank Farm Operations.

Fee Bearing Milestones:

- 62.0.1. Complete installation of the 222-S laboratory facility fire alarm system upgrades by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation of a new 222-S laboratory fire alarm detection system up to the point Fire Alarm Control Unit (FACU) cutover including installation of the new fire alarm panel, all necessary conduit, wire, power supply, devices, and sensors.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the installation work package signature page approved through Operations Acceptance.

- 62.0.2. Complete installation and turnover of the 242-A instrument air dryer upgrade by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the 242-A instrument air dryer upgrade.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.3. Complete 100% design of the 242-A DSA Safety System upgrades by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the 242-A DSA Safety System upgrades to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 62.0.4. Complete removal of the 242-A Evaporator E-101 and E-104 tanks by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete removal of the 242-A Evaporator E-101 and E-104 tanks.

Completion document:
Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.5. Initiate one (1) 242-A Evaporator “cold-run” campaign by June 25, 2020. The Contractor shall earn \$437,200 fee upon completion.

Work scope/completion criteria:
Initiate one (1) 242-A Evaporator “cold-run” campaign necessary to maintain operational proficiency. The “cold-run” will not introduce new feed into the CA1 vessel via 102-AW feed pump and HV-CA1-1, and will not slurry out to DSTs via the PB-2 slurry pump and HV-CA1-2/2A.

Completion document:
Letter transmitting the performance expectation completion notice and evidence of initiating the “cold-run” campaign by June 25, 2020.

- 62.0.6. Complete 100% design of the ETF load-in expansion by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:
Complete 100% design of the ETF load-in expansion to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:
Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 62.0.7. Complete 100% design of the Vessel Off-Gas (VOG) demister housing by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:
Complete 100% design of the VOG demister housing to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:
Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 62.0.8. Complete installation and turnover of the ETF chiller upgrades by June 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:
Complete installation and turnover of the ETF chiller upgrades

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

62.0.9. Complete tank interior recoating and turnover of the ETF Verification Tank 60H-TK-1A by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete tank interior recoating and turnover of the ETF Verification Tank 60H-TK-1A.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

62.0.10. Complete installation and turnover of the ETF Load-In Drain & Filter system upgrades by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF Load-In Drain & Filter system upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

62.0.11. Complete installation and turnover of the ETF 4% Caustic Tank upgrade by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF 4% Caustic Tank upgrade.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

62.0.12. Complete installation and turnover of the ETF Uninterrupted Power Supply (UPS) upgrade by September 30, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the ETF Uninterrupted Power Supply (UPS) upgrade.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.13. Complete 100% design of the 242-A slurry and feed line replacement by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete 100% design of the 242-A slurry and feed line replacement to include all comments dispositioned, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a matrix identifying the final design package approved and released through SmartPlant Foundation.

- 62.0.14. Complete jumper removal, nozzle installation, and laser scanning to include the final report of laser scan results in AW-02E pit by September 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete jumper removal, nozzle installation, and laser scanning of the AW-02E Pit. Completion criteria shall include the receipt of the final report documenting the laser scan results.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document. Completion documentation shall include a copy of the final report documenting the laser scan results.

- 62.0.15. Complete jumper removal, nozzle installation, and laser scanning to include the final report of laser scan results in AW-B pit by September 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete jumper removal, nozzle installation, and laser scanning of the AW-B Pit. Completion criteria shall include the receipt of the final report documenting the laser scan results.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document. Completion documentation shall include a copy of the final report documenting the laser scan results.

- 62.0.16. Complete jumper removal, nozzle installation, and laser scanning to include the final report of laser scan results in the 242-A Pump Room by September 30, 2020. The Contractor shall earn \$312,280 fee upon completion.

Work scope/completion criteria:

Complete jumper removal, nozzle installation, and laser scanning of the 242-A Pump Room. Completion criteria shall include the receipt of the final report documenting the laser scan results.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document. Completion documentation shall include a copy of the final report documenting the laser scan results.

- 62.0.17. Deleted (Mod 556)

- 62.0.18. Complete installation and turnover of the SY exhauster by September 30, 2020. The Contractor shall earn \$1,686,330 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the SY exhauster.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.19. Complete installation and Construction Acceptance Testing (CAT) of the SY-Farm stack monitor by September 30, 2020. The Contractor shall earn \$124,910 fee upon completion.

Work scope/completion criteria:

Complete installation and CAT of the SY-Farm stack monitor.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where

applicable, a copy of the Construction Completion Document.

- 62.0.20. Complete installation and Construction Acceptance Testing (CAT) of the A-Farm stack monitor by September 30, 2020. The Contractor shall earn \$124,910 fee upon completion.

Work scope/completion criteria:

Complete installation and CAT of the A-Farm stack monitor.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.21. Complete installation and turnover of the S/SX-Farm automation upgrades by August 15, 2020. The Contractor shall earn \$374,740 fee upon completion.

Work scope/completion criteria:

Complete installation and turnover of the S/SX-Farm automation upgrades.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and where applicable, a copy of the Construction Completion Document.

- 62.0.22. Complete the first of two (2) core samples by June 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Complete the first of two (2) core samples from one (1) of two (2) DSTs selected as described in the applicable Tank Sample Analysis Plans (TSAPs). At minimum, the TSAP shall identify the type of sample, technical need for sampling activity, location of samples, and the sampling requirements

Completion document:

Letter transmitting the performance expectation completion notice, copy of the sample chain of custody, and copy of the sampling datasheet.

- 62.0.23. Complete the second of two (2) core samples by September 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Complete the second of two (2) core samples from one (1) of two (2) DSTs selected as described in the applicable TSAPs. At minimum, the TSAP shall identify the type of sample, technical need for sampling activity, location of samples, and the sampling requirements

Completion document:

Letter transmitting the performance expectation completion notice, copy of the sample chain of custody, and copy of the sampling datasheet.

- 62.0.24. Complete Ultrasonic Testing (UT) and air slot visual inspections of the first of three (3) DSTs by March 31, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Perform UT examination and refractory air slot visual inspection of the first of three (3) DSTs. The UT examination shall include at a minimum the primary walls and the floor of the annulus for each tank.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance.

- 62.0.25. Complete Ultrasonic Testing (UT) and air slot visual inspections of the second of three (3) DSTs by June 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Perform UT examination and refractory air slot visual inspection of the second of three (3) DSTs. The UT examination shall include at a minimum the primary walls and the floor of the annulus for each tank.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance.

- 62.0.26. Complete Ultrasonic Testing (UT) and air slot visual inspections of the third of three (3) DSTs by September 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Perform UT examination and refractory air slot visual inspection of the third of three (3) DSTs. The UT examination shall include at a minimum the primary walls and the floor of the annulus for each tank.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance.

- 62.0.27. Complete the first five (5) of fifteen (15) SST camera visual inspections by March 31, 2020. The Contractor shall earn \$749,480 fee upon completion.

Work scope/completion criteria:

Completion of the first five (5) of fifteen (15) SST camera visual inspections.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through FWS confirmation of the videos being complete.

- 62.0.28. Complete the second five (5) of fifteen (15) SST camera visual inspections by June 30, 2020. The Contractor shall earn \$749,480 fee upon completion.

Work scope/completion criteria:

Completion of the second five (5) of fifteen (15) SST camera visual inspections.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through FWS confirmation of the videos being complete.

- 62.0.29. Complete third five (5) of fifteen (15) SST camera visual inspections by September 30, 2020. The Contractor shall earn \$749,480 fee upon completion.

Work scope/completion criteria:

Completion of the third five (5) of fifteen (15) SST camera visual inspections.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through FWS confirmation of the videos being complete.

- 62.0.30. Complete nine (9) DST camera visual inspections by September 30, 2020. The Contractor shall earn \$1,436,510 fee upon completion.

Work scope/completion criteria:

Completion of all applicable DST visual inspections.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through FWS confirmation of the videos being complete.

- 62.0.31. Complete three (3) encasement test evolutions by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Complete three (3) encasement test evolutions and document the results in the work package and final declaration of the pass/fail status of the line. In the event that multiple transfer line encasements are tested due to their collocation, the combined testing of

collocated lines will count as one (1) evolution of encasement testing.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the work package signature page approved through Operations Acceptance. In the event of test failure, the completion document is to include documentation that the line is inoperable and has been taken out of service.

- 62.0.32. Complete design, fabrication, and testing of the primary tank bottom Non-Destructive Examination (NDE) device by September 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Complete design, fabrication, and Factory Acceptance Testing (FAT) of the primary tank bottom NDE device.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the final test report(s) approved and released through SmartPlant Foundation.

- 62.0.33. Complete Non-Destructive Examination (NDE) of one (1) DST primary tank bottom using a volumetric inspection system and submit final report by September 30, 2020. The Contractor shall earn \$187,370 fee upon completion.

Work scope/completion criteria:

Perform NDE of one (1) DST primary tank bottom using a volumetric inspection system and submit a final report summarizing results to include all comments incorporated, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the work package signature page approved through Operations Acceptance, and a copy of the final report approved and released through SmartPlant Foundation.

- 62.0.34. Complete feasibility study for tank repair and submit final report documenting the results by June 30, 2020. The Contractor shall earn \$437,200 fee upon completion.

Work scope/completion criteria:

Complete feasibility study for tank repair and submit final report to include all comments incorporated, approval, and release through SmartPlant Foundation.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of the final report approved and released through SmartPlant

62.0.35. Complete the Independent Qualified Registered Professional Engineer (IQRPE) Integrity Assessment Report (IAR) for the 219-S waste handling facility by June 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Submittal of Revision 0 of the 219-S IAR to ORP.

Completion document:

Letter transmitting the performance expectation completion notice and a copy of Revision 0 of the 219-S IAR.

62.0.36. Complete five (5) grab samples by September 30, 2020. The Contractor shall earn \$249,830 fee upon completion.

Work scope/completion criteria:

Completion of five (5) grab samples as described in the applicable TSAPs. The plan shall identify the type of sample, technical need for sampling activity, location of samples, and sampling requirements.

Completion document:

Letter transmitting the performance expectation completion notice, a copy of the sample chain of custody, and a copy of the sampling datasheet.

SPECIAL EMPHASIS AREAS

SPECIAL EMPHASIS AREA	VALUE	PERFORMANCE MONITOR
SEA 1: Management of Hanford Tank Farms	\$4,753,125	Tank Farms
SEA 1a: Early Contract Termination – Performance toward In-Progress PBIs	50% of Remaining Unallocated Fee	Tank Farms
SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations	\$950,625	Tank Farms
SEA 3: Conduct of Engineering	\$950,625	Engineering
SEA 4: Quality Assurance Program	\$950,625	Technical and Regulatory Support
SEA 5: Nuclear Safety Program	\$950,625	Technical and Regulatory Support
SEA 6: Environmental Regulatory Management	\$950,625	Technical and Regulatory Support
SEA 7: Safety Program Implementation	\$950,625	Technical and Regulatory Support
SEA 8: Support for DFLAW Program	\$2,851,875	Tank Farms
SEA 9: Tank Farm Contract Transition	\$1,901,250	Tank Farms
Total SEA Fee Available	*\$15,210,000	

*In the event of early contract termination, the contractor will have the opportunity to earn remaining unallocated fee as described in this PEMP under *Total Available Fee Alignment and Earnings in the Event of Early Contract Termination*. In result, the Total SEA Fee Available may change from the value presented in the table above.

**SPECIAL EMPHASIS AREAS
 OVERALL GRADES & ASSOCIATED PERCENTAGES OF EARNED FEE**

Award-Fee Adjectival Rating	Award-Fee Pool Available To Be Earned	Description
Excellent	91%-100%	Contractor has exceeded almost all of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Very Good	76%-90%	Contractor has exceeded many of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Good	51%-75%	Contractor has exceeded some of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Satisfactory	No Greater Than 50%	Contractor has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Unsatisfactory	0%	Contractor has failed to meet overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.

Award Fee: The total available fee is split between the PBIs and SEAs, where SEA award fee will be evaluated over the contract period of performance. At the conclusion of the performance evaluation period DOE will determine the award fee associated with the SEAs. ORP's evaluation of the Contractor's performance in the SEAs will be combined to an overall rating. **Failure in any of the SEAs could result in a change to the overall rating as determined by the Fee Determination Official.**

The Fee Determining Official (FDO) will determine the percent of fee earned according to the ranges in the above table, "Overall Grades & Associated Percentages of Earned Fee." The award fee dollars earned will be the product of the award fee available and the percent of award fee earned. The FDO may consider any other pertinent factors in making a final fee determination. The adjectival ratings for SEA performance are as determined in the above table.

Factors for consideration in the Contractor's performance will include, effective WRPS management at all levels, overall or specific risk reductions and Contractor efficiencies (faster, reduced costs, etc.) created or generated in the conduct of work.

To be minimally acceptable, all Contractor formal products by contract, DOE Order, regulation, procedure, plan, or DOE written direction shall be complete, accurate, and on schedule. Requirements shall clearly flow down and be transparent within the product and ensure compliance with ES&H and QA requirements.

Evidence of performance to be considered in determining an adjectival rating will include:

1. Overall quality of contractor developed products
2. Performance against agreed upon schedule dates
3. Degree of compliance with designated completion criteria
4. Periodic reviews of performance against completion criteria using lower tier measures and metrics agreed upon between Federal and Contractor program owners.

SEA 1: Management of Hanford Tank Farms

Performance Fee value is established at \$4,753,125 of the FY 2020 fee pool

Desired Outcome: In the execution of the contract, Contractor is expected to provide holistic, comprehensive, and effective management of all Tank Farm facilities and activities to safely, efficiently, and effectively treat tank waste and close Hanford tanks through:

1. Demonstrating safety leadership and risk-informed, conservative decision-making
2. Managing project performance, cost, schedule, risks, and issues
3. Open communication with the workforce – fostering a questioning attitude and an environment free from retribution
4. Management focus on maintenance, compliance, surveillance and integrity of the Tank Farms facility.

Areas of focus include overall contractor management of Hanford Tank Farm facilities, systems, and activities to safely, efficiently, and effectively treat tank waste and close Hanford tanks.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. ORP will evaluate the contractor's cost and schedule performance based upon actual incurred costs compared to the total estimated costs of that work and actual schedule performance as compared to the planned schedule. ORP will rely on other objective and/or subjective cost and schedule performance elements, such as critical path and float analysis, to evaluation of contractor's performance.
2. Demonstrate effective implementation of the Contractor Integrated EVM System. The contractor maintains cost control and actively pursues cost containment and reduction through innovative approaches and management of resources. Identify and implement improvements to project management tools and reports in support of performance monitoring.
3. Maintain an estimating system in compliance with contractual and DOE requirements. Incorporate enhancements or improvements to the estimating system, based on the results of external reviews or consideration of the GAO 12-Step estimating process and best practices. Periodically assess the accuracy of estimates to determine if process changes or improvements are needed.
4. Identify the risks associated with the execution of tank farm work and assess their potential impact. Ensure contractor risk register updates occur and all active risk registers are updated in a timely manner with risks/opportunities that are realized. The effectiveness of risk management is communicated to ORP regularly.

5. Utilize project performance data and cost and schedule metrics to support sound project management decisions. Through rigorous and critical self-assessment, identify opportunities and efficiencies to improve cost/schedule performance, with a focus on safe, compliant operations, treat tank waste, and close Hanford tanks.
6. Maintain a contract compliant, resource loaded, logic-tied schedule with discrete tasks through project/activity completion, including credible and accurate critical/driving path networks that accurately portray critical work activities toward meeting Consent Decree (CD) and TPA milestones and contract requirements. Implement innovative actions to accelerate project schedules with due consideration to the overall risk profile.
7. WRPS will be evaluated on the overall administration of the contract. This will include the accuracy and timeliness of all reporting requirements, subcontract consent documentation and proposal submissions, overall compliance with terms and conditions.
8. WRPS will be evaluated on responsiveness for Rough Orders of Magnitudes (ROMs), Not to Exceeds (NTEs), and change proposals. The evaluation will include WRPS' submission of timely and, complete proposals.
9. Communicate project performance to ORP regularly; project performance can include accomplishments, EVMS data, cost/schedule variances and explanations, issues, risk mitigation actions, assessment results, performance indicators, etc. Track and report funding to align with the integrated priority list to allow for funding targets.
10. Work proactively with the ORP Communications Division to support enhanced communications with all key stakeholders.
11. Contractor is self-critical in assessment of performance, actions are implemented in a timely manner and tracked to completion, and progress towards performance objectives are measured and new actions are taken as needed to achieve target performance objectives.
12. Provide for the integration of TOC and WTP system planning and modeling, with a focus on long-term RPP mission planning, TPA milestone support, software modeling and development and near-term opportunity evaluation.

SEA 1a: Early Contract Termination – Performance toward In-Progress PBIs

In the event of early termination of the TOC period of performance before September 30, 2020, this sub element of SEA 1 will become active in accordance with the methodology described in section *Total Available Fee Alignment and Earnings in the Event of Early Contract Termination* of this PEMP. The subjective evaluation of this sub element will be separate from the of SEA 1 allowing the contractor the opportunity to earn the entirety of the 50% remaining unallocated fee that is reallocated to the SEA fee pool, as described in this PEMP, for efforts toward accomplishing PBIs with terminal dates outside of the period of performance. Subjective

evaluation of this sub element will include emphasis on the contractor's ability to keep fiscal year milestones on track as well as performance and maintenance of critical milestones.

SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Ensure focus is maintained on overall safety and efficiency of Tank Farm project operations through improvements in Conduct of Operations and Work Control.

Areas of focus include Work Control/Procedure Development process continuous improvement, the field implementation of work instructions, general Conduct of Operations improvement.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Demonstrate effective and timely response to external-identified, contractor-identified, and self-revealing issues.
2. Identify and implement continuous improvement initiatives that enhance safety, performance, and/or efficiency.
3. Effectively, apply conduct of operations principles to all activities, including, but not limited to, operating science and technology machines, operating equipment, construction, decontamination and decommissioning, dismantlement, environmental characterization and monitoring activities, waste handling, research and development, maintenance, and laboratory analysis activities.
4. Measure work schedule effectiveness and maintenance backlogs, and take appropriate action to mitigate downward trends.

SEA 3: Conduct of Engineering

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Delivery of consistent, compliant, and innovative Engineering products and technology solutions to manage the technical baseline and support the overall delivery of all aspects of TOC scope.

Areas of focus include response to emerging issues, technical rigor, innovation, system and reliability engineering, and collaboration in the areas of Process and Control Systems, Chemical Process, Tank and Pipeline Integrity, Projects, DFLAW, Design, Programs, Retrievals, and Chief Technology Office.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Support safe and compliant operations of Tank Farm facilities by providing engineering support. Communicate program compliance via self-assessments, system walk downs and demonstrate effective and timely solutions for non-compliances and other identified issues.
2. Provide innovative solutions/technologies that result in improved efficiency, safety, cyber security, and/or ALARA performance. Demonstrate solutions/technologies have been implemented and resulted in efficiencies and improvements.
3. Support long term maintenance and operation of Tank Farms facilities and systems by continuing to maintain configuration control/management of systems, preparing for obsolescence, implementing equipment reliability programs, and utilizing information gained from operations research modeling.
4. Regularly evaluate and communicate facility and system health and identify improvements or efficiencies. Demonstrate where and how improvements or efficiencies have been implemented by Operations and/or Maintenance. Actively identify additional opportunities to repeat similar improvements or efficiencies in other areas.
5. Collaborate with other organizations and DOE contractors to share lessons learned and innovative solutions and identify potential cost savings, improvements, and efficiencies for implementation at Tank Farms and the Hanford Site.

SEA 4: Quality Assurance Program

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Continued improvement of the Contractor's QA program.

Areas of Focus: Overall performance and improvement of the QA program will be judged based on the quality and timeliness of products and services produced during the reporting period and the overall effectiveness of the contractor's assurance system to completely identify, track, correct, and communicate issues. The analysis of quality performance will also give consideration to the Contractor's ability to self-identify issues (e.g., nonconforming conditions, legacy issues, emerging negative performance trends) and correct negative performance trends before significant issues occur.

Evaluation Criteria: ORP will perform both objective and subjective evaluations of the Contractor's efforts to:

1. Demonstrate use of performance measures to ensure effective and efficient QA implementation throughout the line organizations;
2. Demonstrate compliance with all QA program requirements including the ability to demonstrate compliance with contractually imposed standards throughout all supporting program plans and specific implementing procedure elements or steps;
3. Demonstrate effective QA oversight of TSCR projects design, testing, and long-lead procurement subcontractors/suppliers;
4. Demonstrate planning, scheduling, and performance of effective and rigorous QA surveillances, assessments, and audits consistent with the Contractor's graded approach, including bias-based coverage for higher consequence processes and activities;
5. Demonstrate development and implementation of enhanced procurement controls to ensure subcontractors/suppliers are fully qualified for their scope of work by pre-award evaluations, implementation audits, performance monitoring, submittal reviews, and other methods that ensure delivered items and services are fully acceptable when first received from the subcontractor/supplier;
6. Demonstrate improvements, optimization, and effective implementation of the WRPS Quality Assurance Program to include provisions to implement, optimize, and control the graded approach to quality and to establish controls governing the acceptance and use of government furnished software and software acquired from other Hanford Contractors.

SEA 5: Nuclear Safety Program

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Effectively manage the Tank Farms safety basis in compliance with 10 CFR § 830, Nuclear Safety Management.

Areas of Focus include Contract requirements, responsiveness to emerging issues and high visibility items, and identifying improvements in the Nuclear Safety Program, safety basis, and required amendments.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Completion of Planned Improvements identified in the 242-A Evaporator and Tank Farms DSA;
2. Timely declaration and management of potential inadequacies in the Safety Basis;
3. Unreviewed Safety Question process compliance with 10 CFR 830.203 and DOE Guide 424.1-1, Implementation Guide for Use in Addressing Unreviewed Safety Question Requirements;
4. Responsiveness to and management of performance and assessment areas needing attention as identified by Contractor self-assessments, ORP assessments, and external reviews; and
5. Proactive development of DSA amendments and TSCR milestones to identify and resolve challenges to safety basis review and implementation of proposed changes prior to transmittal to ORP for approval.

SEA 6: Environmental Regulatory Management

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Demonstrated improvement in environmental stewardship

Areas of Focus include Environmental Management System (EMS) and performance metrics; permitting documents and compliance to permits and licenses and environmental reporting; and the number and seriousness of any findings of noncompliance, infractions or violations, and timeframes and quality of related reporting and responses.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Establish and implement environmental performance indicators.
2. Provide on schedule and accurate input to Hanford Site environmental reports and Site-wide compliance initiatives.
3. Ensure responses to inspections are coordinated with facility operations and DOE, of high quality and on schedule.
4. Integrate DOE Sustainable Program Goals into WRPS planning and operations.
5. Coordinate environmental activities across the Tank Farms Contract allowing adequate timeframes for DOE and regulatory review.

SEA 7: Safety Program Implementation

Performance Fee value is established at \$950,625 of the FY 2020 fee pool

Desired Outcome: Ensure focus is maintained on overall safety and efficiency of Tank Farm Project through improvements in Industrial Safety (IS), Industrial Health (IH), Radiological Controls (RadCon), Emergency Preparedness, and Safety Culture Programs.

Areas of Focus include Industrial Safety (IS), Industrial Health (IH), Radiological Controls (RadCon), Emergency Preparedness, and Safety Culture Programs.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Demonstrate an effective safety conscious work environment and culture through implementation of programs and dissemination of expectations in order to establish a work environment in which employees feel free to raise safety concerns to management and/or a regulator without fear of retaliation. This includes fostering a culture that rewards proactive self-identification and reporting of issues, and proactively identifying and taking action on systemic weaknesses leading to sustained continuous self-improvement. Provide accurate and timely reporting of events, injuries, and other safety related reporting criteria
2. Demonstrate compliance with applicable contractual requirements within IS, IH, RadCon, Emergency Preparedness, and Safety Culture Programs.
3. Continue safety related outreach and benchmarking activities (IS, IH, RadCon) to include sharing lessons learned and best management practices with other companies and the public, as appropriate.
4. Continue to develop, distribute, and improve safety and health communications to the workforce.
5. Strengthen radiological program performance through demonstrated initiatives in work planning, training of radiological staff, radiological oversight of work, maintaining job specific radiological work exposure goals, and demonstrated integration with other worker protection disciplines such as IH and Beryllium (Be).
6. Demonstrate effective Be-control strategies in accordance with the CBDPP and DOE-0342
7. Complete remaining PER-2014-0602/CVAP actions, and sustain progress in managing tank waste vapors.

8. Metrics are effectively used to provide an accurate picture of current performance against IS, IH, RadCon, Emergency Preparedness, and Safety Culture Goals.
9. Demonstrate self-discovery of issues in the IS, IH, RadCon, Emergency Preparedness, and Safety Culture Programs through critical self-analysis, meaningful performance monitoring, comprehensive extent of condition review, and effective risk identification and management.

SEA 8: Support for DFLAW Program

Performance Fee value is established at \$2,851,875 of the FY 2020 fee pool

Desired Outcome: Empowered DFLAW Program Team actively aligning interfaces, eliminating process gaps, and mitigating program risks associated with pre-commissioning, hot commissioning, and operational phases.

Areas of focus DFLAW Program projects and elements resulting in the successful start-up and commissioning of DFLAW.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Implementation and fostering of elements and attributes of the Hanford Operations DFLAW Program Charter; e.g. empowered leadership, communications, and expectations of a Good Contractor and Good Teammate.
2. Effective coordination of the projects that comprise the DFLAW Program
 - DFLAW Program-wide performance indicators and metrics, including cost, schedule, and integration data, to facilitate consistent measurement and understanding throughout the DFLAW Program team
 - Barrier analysis and removal initiatives strengthen program delivery and confidence.
3. Effective management of technical interfaces between the projects so that the integrated DFLAW Program is completed and operated successfully
 - Open issues or issues resulting from decisions or analyses are tracked to completion
 - Open issues are acted upon with deliberate haste
4. The DFLAW portfolio of projects operate as required without gaps or conflicts at the interfaces.
 - Identify and address technical and operational gaps and issues that will impact DFLAW operations
 - Technical risk identified, ranked and mitigation strategies deployed in a timely manner
5. Team products are fully developed with specific necessary actions and vetted recommendation.
 - Decision documents are supported by a clear and sound basis
 - Actions are clearly documented, tracked, and closed with deliberate urgency.

SEA 9: Tank Farm Contract Transition

Performance Fee value is established at \$1,901,250 of the FY 2020 fee pool

Desired Outcome: Conduct a smooth 60-day transition of full responsibility to execute the Hanford tank farm work to the new Tank Closure Contract Contractor that maintains continuity of operations and avoids or minimizes disruptions to accomplish the DOE-ORP mission.

Areas of focus: Demonstrate that WRPS aligns with the Tank Closure Contract Request for Proposal Solicitation 89303319REM000044 scope identified in Section C Performance Work Statement. WRPS is to comply with the letter of direction 19-TF-0059 dated April 22, 2019.

Evaluation criteria: To measure performance will include ORP's subjective evaluation of the Contractor's performance based on the following:

1. Immediate engagement with the TCC upon contract award including transition meetings at least weekly with ORP and the TCC to ensure seamless transition.
2. Adherence to the WRPS Transition Plan for Tank Operations Contract to Tank Closure Contract (WRPS-1900048 R2) as updated, if necessary based on the contract transition postponement.
3. WRPS will facilitate visits to the field, offices and facilities for TCC to perform due diligence of the facilities, equipment and processes being transferred.
4. Completion of formal transfer of all equipment and waste inventories, procurement and interface agreements, subcontracts, permits, licenses, policies, plans, procedures, design and engineering media, schedules, project controls tools, risk management records, training and workforce records, and corrective action systems. (This list is not all-inclusive)
5. Transition Completion Criteria that documents transition verification checklists between ORP, WRPS and TCC that confirms all transition activities are completed to the satisfaction of each party.
6. Signed transfer agreement by WRPS and the TCC contractor; ORP will approve the Declaration of Readiness to execute the Contract.

ATTACHMENT 1 - PERFORMANCE MONITOR EVALUATION REPORT FORM

I. EVALUATION PERIOD: _____

II. DOE PERFORMANCE MONITOR:

Signature: _____ Date: _____

III. PERFORMANCE BASED INCENTIVES (PBI) EVALUATIONS:

PBI # _____ **Recommended Fee Earned** _____

Discussion:

EVALUATION OF AWARD FEE SPECIAL EMPHASIS AREAS:

SEA # _____ **Adjective Rating** _____

Discussion:

Discussion summaries should describe the method used to evaluate timeliness, quality and completion of performance objectives/measures; clarifying remarks regarding the timeliness and sufficiency of the products/activities against defined performance objectives/measures; identification of significant deviations; rationale for recommended fee payment/rating (if necessary, provide computations); and mitigating factors, if any, that were considered in determining the amount of fee.

Areas to consider:

1. Contractor monthly performance indicator results including positive or negative trends.
2. Management reviews and reports including the new monthly reviews.
3. Contractor's self-assessment report.
4. DOE independent and program assessments.
5. Issues and corrective action of issue

ATTACHMENT 2 - FDO AND PERFORMANCE EVALUATION BOARD MEMBERS

FEE DETERMINATION OFFICIAL

Manager, ORP

PERFORMANCE EVALUATION BOARD MEMBERSHIP

Assistant Manager, Tank Farms Project, ORP (Chair Person)

Deputy Assistant Manager, Tank Farms Project, ORP

Assistant Manager, Technical and Regulatory Support Services, ORP

Assistant Manager, WTP Start-up and Commissioning Integration, ORP

Contracting Officer, Contracts and Property Management, ORP

**ATTACHMENT 3 - PERFORMANCE EVALUATION AND MEASUREMENT PLAN
 CHANGE REQUEST**

1. Initiator of Change Request:		2. Office Symbol:	3. Phone No:
4. Current Version of PEMP:	a. Revision No:	b. Change No:	5. Date of Request:
6. Reason for Request:			
7. Authority for Change: a. Technical Direction Letter <input type="checkbox"/> b. Contracting Officer Letter <input type="checkbox"/> c. Baseline Change Proposal <input type="checkbox"/> d. Other <input type="checkbox"/>		e. Explain reason for change here, if necessary: (required for Other)	
8. Section No. in PEMP of Change:			
9. Exact Wording: (rewrite the section with changes identified)			
10. Request Disposition: a. Accepted, Change Implemented <input type="checkbox"/> b. Accepted with Changes <input type="checkbox"/> c. Rejected <input type="checkbox"/> d. Other <input type="checkbox"/>		11. Comments: (including changes made, rejection reason, or other)	
12. Approved By:	13. Effective Date:	14. New PEMP Rev No/Change No.:	
		a. Rev No:	b. Change No.:

ATTACHMENT 5
FY2020 Additional Work Scope

Total: 2 pages including this cover page

ATTACHMENT 5
Additional Work Scope to Fiscal Year 2020

#	Scope	Description
1	Wiped Film Evaporator	Subcontract with Columbia Energy and Environmental Services for 12 months of storage rental and maintenance of the Wiped Film Evaporator and Agitated Thin-Film Evaporator.
2	Damaged TOC Utility Poles Remove/Replace	Remove and replace 10 damaged wooden light poles located in multiple farms.
3	NUCON Phase 3	Adding NUCON Thermal Oxidation System (TOS) redesign to FY2020 scope. The vendor will develop the final TOS design required to conduct the on-site demonstration on the BY-108 tank. The vendor will support written design reviews at 60%, 90% and 100% design completion and is responsible for a fully integrated and stamped design. Preparation and submittal of RD&D RCRA Permit Application to Washington State Department of Ecology, along with the IQRPE review will also be required.
4	M-045-093 - SST Liquids Report	Prepare a report that includes a description and analysis of each alternative method and technology for removing drainable liquids from the SSTs as well as the proposed selection and sequence of the preferred liquid removal method and technology for each SST identified in the report.
5	M-045-099 - Preliminary Performance Assessment/Closure Analysis Submittal	Development of a preliminary RCRA Closure Analysis for tank residuals to support meeting TPA M-045-99 by September 30, 2020.
6	M-042-10 - Ancillary Equipment Inspections for DST Components	Perform pneumatic integrity assessments on the encasements of RCRA compliant transfer lines and pits. This work scope includes 2 pits and 4 lines to support meeting TPA M-042-T01 by 12/31/2022.
7	Smart Site Usage	Hosting and infrastructure services for FY2020, expansion within vapors program from current for FY2019 program, and additional sensors/use cases.
8	AX-102 Third Retrieval Technology	Complete retrieval of AX-102 to the limits of a third retrieval technology using chemical dissolution.
9	Design of Replacement of the 2704S Building	Design and site preparation for pre-engineered office building. Building design similar to 2713.