AMENDME	NT OF SOLICITATION/MODIFIC	CATION OF CO	ONTRACT		CONTRACT ID CODE	PA	AGE OF	PAGES
2. AMENDMEN	IT/MODIFICATION NO.	3. EFFECTIVE	DATE 4	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJ	⊥   IECT NO.	(If applicable)
P00026		See Bloo	ck 16C					
6. ISSUED BY	CODE	893042		7. ADN	MINISTERED BY (If other than Item 6)	CODE	0070	1
Office of Idaho Cl	ent of Energy of Environmental Man Leanup Project emont Avenue	agement		Idal 1955	Department of Energy no Operations Office Fremont Avenue no Falls ID 83415			
	alls ID 83415							
IDAHO EN Attn: Jo 1580 Saw	ADDRESS OF CONTRACTOR (No., stre VIRONMENTAL COALITIO hn H. MacRae, Jr. telle Street lls ID 83402	•	ZIP Code) (:	9B.	DATED (SEE ITEM 11)  . MODIFICATION OF CONTRACT/ORDER NO. 303321 DEM000061	O.		
					304223FEM40000			
					3. DATED (SEE ITEM 13)			
CODE T.O.		FACILITY COD	E		9/08/2023			
		11 THIS ITE	M ONLY APPLIES TO AM		ENTS OF SOLICITATIONS			
RECEIVED A OFFER. If b	AT THE PLACE DESIGNATED FOR TH y virtue of this amendment you desire to	E RECEIPT OF O o change an offer a ence to the solicita	FFERS PRIOR TO THE Halready submitted , such cl	IOUR A hange i	nt numbers. FAILURE OF YOUR ACKNOWL ND DATE SPECIFIED MAY RESULT IN REJE may be made by letter or electronic communicates received prior to the opening hour and date sp	CTION O	F YOUR	<u> </u>
CHECK ONE					ES SET FORTH IN ITEM 14 ARE MADE IN TH			14.
					MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b).	n paying o	office,	
	C. THIS SUPPLEMENTAL AGREEME		NTO PURSUANT TO AUT	THORIT	TY OF:			
X	FAR 43.103(a) Bilate							
	D. OTHER (Specify type of modification	n and authority)						
E. IMPORTANT	: Contractor ☐ is not	X is required to	o sign this document and i	return	1 copies to the issuince	office.		
14. DESCRIPT		· · · · · · · · · · · · · · · · · · ·			olicitation/contract subject matter where feasib			
	ion and Mission Con		=		sk Registers for Task O grated Waste Treatment N			
Payment: OR for I	daho							
	partment of Energy							
_	re Financial Service	Center						
P.O. Box								
_	re TN 37831							
Continue		4L_ d				£	<b>"</b> .	
	rided herein, all terms and conditions of ID TITLE OF SIGNER (Type or print)	tne document refe	renced in Item 9 A or 10A,		etofore changed, remains unchanged and in for NAME AND TITLE OF CONTRACTING OFFIC			
	Rae, Jr. (Jack), Business Ser	vices & PCO			ce H. Ruiz			
15B. CONTRA	CTOR/OFFEROR		15C. DATE SIGNED	16B. l	JNITED STATES OF AMERICA		160	C. DATE SIGNED
JOHN MACE	RAE (Affiliate) Date: 2024.05.16 14:21:59 -06'00'			GRA	CE RUIZ  Digitally signed by GRACE RUIZ Date: 2024.05.16 14:33:43 -0600'		05	/16/2024
	Signature of person authorized to sign)				(Signature of Contracting Officer)			

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED 89303321 DEM000061/89304223 FEM400000/P00026
 PAGE 2
 OF 2

NAME OF OFFEROR OR CONTRACTOR

IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE (E)	AMOUNT
	Period of Performance: 10/01/2023 to 09/30/2031				
	Change Item 00302 to read as follows(amount shown is the total amount):				
00302	CLIN 03 SUBTASK 0302 INTEGRATION AND MISSION CONTINUITY (TASK ORDER 3.2) Line item value is: \$682,509,604.00 Incrementally Funded Amount: \$273,219,506.14				682,509,604.00
	In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-3.2, Integration and Mission Continuity (see attachments TO-3.2 DOE Transfer Risk Register Updates FY24 Q1 - Redlined and TO-3.2 Risk Register Updates FY24 Q1 - Redlined).				
	All other terms and conditions remain unchanged.				
	Change Item 00701 to read as follows(amount shown is the total amount):				
00701	CLIN 07 SUBTASK 0701 IWTU OPERATIONS (TASK ORDER 7.1) Line item value is: \$233,119,349.00 Incrementally Funded Amount: \$87,910,681.42				233,119,349.00
	In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-7.1, Integrated Waste Treatment Unit (see attachment TO-7.1 Risk Register Updates FY24 Q1 - Redlined).				
	All other terms and conditions remain unchanged.				

IDAH (1) COALITION

## CID 89303321DEM000061/89304223FEM400000, Mod P00026 CLIN 03, Subtask 302

Task Order 3.2

## TO3 Phase 2 Risk Register

Idaho Cleanup Project Pr	ogrammatic Risk Re	egister																				
Updated: 3.10.24		- ***					Т				T	T		Cost Impacts		Sche	edule Impacts (i	n days)	1		<u> </u>	
Risk ID	WBS	Responsible Organization	Risk Owner	IEC Risk Back-up	P Risk Title	Risk Description Trigger Ev	ent	Status Risk Type	Handling Strategy	Risk Event Likelihood	Risk Impact	Risk Ratin	ng Best Case	Most Likely	Worst Case	Best Case	Most Likely	Worst Case	Basis of Impacts Mitigation Actions	Risk Corrective Actions	Date Identified Last update	Notes
CAL015R2	D.3.02.30.06	IEC	Kimbro, Valerie	Kimbro, Valerie	Calcine: Delay finalizing the CSSF 3116 Basis		vailable to perform	Open Threat	Accept	Likely	Serious	4-High	\$ 50,000	\$ 100,000	_	0 20	40	60	Project has realized approximately 20 days of delay in FY 2022 because resources from DOE-EM were unavailable (best case).  It was assumed that project would realize the same delay from NRC (most likely case) and an additional 20-day delay for unforseen circumstances as the worst case. Best Case - 20 days X 10 hr/ddy X 2.5 FTE X \$100/hr = \$50KMost Likely Case - 40	12/12/2022	10/9/2023 None	
CAL017R2	D.3.02.30.06	IEC	Kimbro, Valerie	Kimbro, Valerie	e Calcine: Equipment failure at the full-scale mockup during the 8-month erosion testing	Equipment failure at the full-scale mockup during the 8-month erosion Single-point failure of equiteting may accome the second of the 8-month erosion testing is transfer the equivalent amount of material that is in CSSF 1 (200 cubic meters) through the full-scale monkup. There are single-points of failure on the system, such as the	ipment on the full-	Open Threat	Accept	Unlikely	Serious	2-Low	\$ 101,000	\$ 172,000	\$ 585,00	0 36	54	100	Based on SME input and is estimated as follows:Best Case - Replace cycone and elbows (20 days of downtime XI bir /dg X 4 FTE X 975/hr plus 16 days to install X 10 hr/day X 3 FTE X 575/hr plus 55K in materials/Most Likely Case - Replace fittings 30 days of downtime X10 hr/day X 4 FTE X 575/hr plus 23 days	12/12/2022	10/9/2023 None	
CAL018R2	D.3.02.30.13	IEC	Kimbro, Val	N/A	CalcineRET1: Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays. Notification of intent to le	ave or retirement.	Open Threat	Accept	Likely	Major	4-High	\$ 48,000	\$ 80,000	\$ 160,00	0 48	80	80	Best Case: 48 days X 10 hr. X 1.25 FTE X 580/hr. N/A Most Likely Case: 80 days X 10 hr. X 1.25 FTE X 580/hr. Worst Case: 80 days X 10 hr. X 2 FTE X 5100/hr.	N/A	3/12/2022 7/10/2023	Not In DCES
CAL019	D.3.02.30.17	IEC	Kimbro, Val	N/A	CalcineRET1: Equipment Failure at the Full- Scale Mockup Post-Erosion Testing	Equipment failure at the full-scale mockup post-erosion testing may cause unexpected costs and schedule delays. The purpose of the T03.1 scale mockup system. erosion testing is to transfer the equivalent amount of material that is in CSSF 1(220 cubic meters) through the full-scale mockup. After erosion testing is complete, an output of the full-scale mockup.	ipment on the full-	Open Threat	Mitigate	Unlikely	Serious	2-Low	\$ 101,000	\$ 172,000	\$ 585,00	0 36	54	100	Cost and schedule impacts are based on the possible scenarios of replacing single-point failure equipment on the full-scale monchup. Basis is estimated as follows:  - Best Case - Replace cyclone and elbows: (2) days of downtime x 10 hr / 43x y 4 FT & 57 hr., plus 16 days to install x	N/A	4/23/2023 7/10/2023	In DCES But has CALDR1290RM, CALDR1300RM as well.
CAL021	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Lack of CPP-691 Documentation Field Verification	Lack of existing or incomplete CPP-691 documentation may create a need for additional time and resources to perform the field verification at CPP-691. This may cause delays for successor activities, such as creating the 3D model and performing the sitting study.	lete drawings.	Open Threat	Accept	Likely	Minor	2-Low	\$ 8,000	\$ 36,000	\$ 72,00	0 4	8	16	Cost and schedule impacts are based on additional field investigations @ CPP-691 requiring additional time and resources. Basis is estimated as follows:  - Best Case - 4 days x 10 hr /day x 2 FTE x \$100/hr.	N/A	4/23/2023 7/10/2023	Not in DCES
CAL022	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Lack of CPP-691 Documentation 3D Model	<ul> <li>Lack of existing or incomplete CPP-691 documentation may create data gaps when updating drawings, performing field verifications, and validating a 30 model of the facility. This may impact the completeness of the Siting Study where additional work will be necessary to fill the data gaps in order to have a complete siting study.</li> </ul>	lete drawings.	Open Threat	Accept	Likely	Minor	2-Low	\$ 8,000	\$ 36,000	\$ 72,00	0 4	8	16	- Most Likely Case - 8 days x 10 hr./day x 4 FTE x \$100/hr. plus  Cost and schedule impacts are based on additional filed investigations @ CPP-691 requiring additional time and resources. Basis is estimated as follows:  - Best Case - 4 days x 10 hr./day x 2 FTE x \$100/hr Most Likely Case - 8 days x 10 hr./day x 4 FTE x \$100/hr. plus	N/A	4/23/2023 7/10/2023	Not in DCES
CAL023	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Siting Study Fails to Identify Viable Location for Calcine Processing Facilit	The Siting Study will evaluate potential locations (existing and y preenfield) near CSSF for a processing facility. It is possible a viable location to install a calcine processing facility at the INL Site is not identified or recommended (e.g., but to the outcome of a cost-benefit		Open Threat	Accept	Unlikely	Moderate	2-Low	\$ 64,000	\$ 128,000	\$ 350,00	0 32	32	45	a subsurface investitation (4 days x 10 hr. /dayx 1 FTE x  Cost and schedule impacts are based on reevaluating the Siting  Study with a new set of criteria and/or additional data. Basis is estimated as follows:	N/A	4/23/2023 7/10/2023	Not in DCES
CAL024	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays. Notification of intent to le	ave or retire.	Open Threat	Accept	Likely	Major	4-High	\$ 48,000	\$ 80,000	\$ 160,00	0 48	80	80	Cost and schedule impacts are based on the time it takes to backfill a position. Basis is estimated as follows:  - Best Case-Backfill one position (48 days x 10 hr /day x 1 FTE x 5100/hr).	N/A	4/23/2023 7/10/2023	Not In DCES
CAL026	D.3.05.31.05	IEC	Kimbro, Val	N/A	CalcineVIT: Equalize Vendor Work Performed Under BEA SOW	It may be necessary to equalize vendor work that is being performed under the BEA SOW. If it is determined the results are inadequate, the BEA SOW is determined then additional work by the vendors may be necessary. Scope is included in TO3.2 to review vendor reports to determine their adenuacy as under la knaive the wondors conform additional work.		Open Threat	Accept	Likely	Serious	4-High	\$ -	\$ 500,000	\$ 1,000,00	0 0	48	96	Cost and schedule impacts are based on whether equalizing of the vendor work is required. Basis is estimated as follows:  - Best Case - Cost and schedules tay as planned and any impact will be managed internally by the project.  - Most I likely Case - Additional 3 months and \$525 kie ash for	N/A	4/23/2023 7/10/2023	Not In DCES
CAL028	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Calcine Simulant Manufacturing	Vendors are available to manufacture calcine simulant. However, it has not been confirmed whether the available vendors can produce as insulant with the require claenies simulant that will have the required chemical and physical properties for the treatment studies. The required chemical and physical properties will be identified during the simulant study activity planned in FY 2023.	d chemical and	Open Threat	Accept	Unlikely	Minor	2-Low	\$ 100,000	\$ 200,000	\$ 400,00	0	16	32	Cost and schedule impacts are based on a vendor re-tooling their facility to manufacture calcine simulant. Basis is estimated as follows:  - Best Case - Vendor cost to retool \$100K and no impact to schedule  - Most Likely Case - Vendor cost to retool \$200K and 1 month delay to schedule  - Worst Case - Vendor cost to retool \$400K and 2 months delay to schedule  - Worst Case - Vendor cost to retool \$400K and 2 months delay to schedule	N/A	4/23/2023 7/10/2023	Not in DCES
CAL029	D.3.05.31.05	IEC	Kimbro, Val	N/A	CalcineVII: Equalize Vendor Work Performer Under BEA Statement of Work (SOW) – Opportunity	If EC is furging in vendors that are performing work under the BEA SOW. Scope to review vendor reports to determine their adequacy and subsequently equalize the two new vendors with the current established vendor is included in 103.2. However, if the new vendors' work is determined to be adequate, then planned scope to equalize these vendors work may not be necessary.		Open Opportunity	Accept	Unlikely	Minor	2-Low	\$ (2,000,000)	\$ (100,000	s	- (64)	(32)	0	Cost and schedule impacts are based on whether equaliting of N/A the vendor work is required. Basis is estimated as follows:  - Best Case - Equalitation is minimal and the vendor is only required to produce documentation, resulting in S2M under budget and 4 months ahead of scluGv17 hedule.  - Most Likely Case - Equalitation is necessary but not at the level planned, resulting in S1M under budget and 2 months ahead of schedule.  - Worst Case - Cost and schedule stay as planned and any	N/A	4/23/2023 7/10/2023	Not in DCES
CAL030	D.3.05.31.05	IEC	Kimbro, Val	N/A	<u>CalcineVIT</u> : Optimize Using BEA Business Relationships and Resources	It may be possible to optimize the cost and schedule by using the existing BEA relationship and resources under the blanket master contract or other agreement established between BEA and IEC. For example, BEA may have in-house specialist that could participate in a review team on documents being produced under TO3.2 scope of work, such as the siting study, treatment study reports, and the		Open Opportunity	Accept	Likely	Minor	2-Low	\$ (432,000)	\$ (216,00)	)) \$ (72,00	0) (48)	(24)	(8)	Impact will be managed internally by or oriest.  Cost and schedule impacts are based on BEA supporting the scope of work and having a positive impact on the schedule.  Basis is estimated as follows:  - Best Case - 48 days x 10 hr./day x 4 FTE x 5225/hr.  - Most Likely Case - 24 days x 10 hr./day x 4 FTE x 5225/hr Worst Case - 6 days x 10 hr./day x 4 FTE x 5225/hr.	N/A	4/23/2023 7/10/2023	Not in DCES
CAL032	D.3.05.31.02	IEC	Kimbro, Val	N/A	CalcineVIT: Information is Insufficient to Prepare a Delisting Petition	Submitting a delisting petition has been determined to be a viable strategy to pursue and it is assumed the necessary information for a delisting petition is sufficient after a preliminary review of the delisting process, regulatory requirements, previous delisting process, regulatory requirements, previous delisting petitions, calcine data, and the calcining process. If the information is not sufficient, then preparing a delisting petition for submission to the lidaho DEQ and U.S. EPA may be delayed due to time required to fill any data gaps.	prepare a calcine	Open Threat	Accept	Unlikely	Moderate	2-Low	\$ 84,000	\$ 192,000	\$ 288,00	0 16	32	48	Cost and schedule impacts are based on possible schedule delays that may be realized. Basis is estimated as follows:  - Best Case- One month schedule delay and external analysis are required (I ddys to identify and evaluate additional data x 10 hr./day x 1 FTE x 572/hr. and 2 FTE x 522/hr.)  - Most Likely Case - Two month schedule delay and external analysist are required (I act and the schedule delay and external analysist are required (I act and I ac	N/A	4/23/2023 7/10/2023	Not in DCES
CC007	D.1.21.30.16	IEC	Biorn, Scott	N/A	Core Car: Operational Readiness Review (ORR) is Determined to Be Required	If DOE directs IEC to perform an Operational Readiness Review in addition to a Readiness Assessment, it would cause schedule delays to perform.  DOE directs additional relabilities of the performance of		Open Threat	Mitigate	Unlikely	Major	3-Moderat	te \$ 1,013,760	\$ 1,520,640	\$ 3,294,72	0 64	96	208	Best Case: 64 days X 10 hr. X 11.07 FTEs X 596/hr.  Most Lisky: 96 days X 10 hr. X 11.07 FTEs X 596/hr.  Worst Case: 208 days X 10 hr. X 11.07 FTEs X 596/hr.  critically safety analysis, and operation procedure development to ensure DEJ comfortable with the design and process			Recommend changing this to Transfer. BUTTHE DCES AND SCHEDULE ALREADY HAVE IT IN THERE. DCES = \$7,869.84
cco11	D.12130.05	IEC	Biorn, Scott		Analysis Determines Core Cannot be Safely Removed From RSC or Safely Processed	Analysis determines the core cannot be safely removed from the RSC, transported to the laydown station, and processed without extensive modifications to the equipment/pool/process.  Analysis results in unfavorable and the equipment and the equipm	able conclusion.	Open Closed Threat		Likely	Critical						208		Best Case: 96 days X 10 hr. X 16.5 FTEs X \$96/hr.Most Likely: 208 days X 10 hr. X 16.5 FTEs X \$96/hr.Worst Case: 314 days X 10 hr. X 16.5 FTEs X \$96/hr.	N/A		On 2/17/23, NNL notified IEC engineering of a concern that will require an alternative core handling strategy with additional engineered controls. Engineering considered alternative strategies and developed conceptual designs. Decision Analysis (RPF-1207) documents decision to use a neutron absorbing environment to mitigate this risk. Atternate option is mechanically fastening control rods. If the engineering analysis determines additional controls are required to safely remove the core from the RSC, transfer to the laydown system, and process. Mechanically fastening could be added to this scope of work. Cost and schedule impacts will be dependent upon analysis results and the new strategy/controls required to move the core.
CC024	D.1.21.30.05	IEC	Biorn, Scott	N/A		t Circular saw test objectives or acceptance criteria are not met requiring a change in cutting method or major redesign or further prototype testing of the saw.  Circular saw does not passed to contact the contact of the saw.	s test objectives or	Open Threat	Accept	Rare	Critical	3-Moderat	te \$ 1,658,040	\$ 3,569,526	\$ 5,385,96	0 96	208	314	Best Case: 96 days X 10 hr. X 16.5 FTEs X 596/hr. N/A (+5137,400) Most Likely-208 days X 10 hr. X 16.5 FTEs X 596/hr. (+5274,800) Worst Case: 31.4 days X 10 hr. X 16.5 FTEs X 596/hr. (5412,200) In addition there is a need for contract extension of 522,900/month	N/A	4/23/2023 7/10/2023	No mitigation action in the register

CERCLA001	D.4.05.30.09	IEC	Whitmore, Erik	N/A <u>C</u>	<u>CERCLA</u> : Evaporation Pond Liner Damage	Existing CERCLA Evaporation liner tears which would require subcontractor support to complete repairs.	Existing liner is damaged.	Open T	Threat Mit	tigate Unl	nlikely Modera	te 2-Li	» \$ 62,5	,532 \$	312,658 \$	468,987	0 (	0	0 h	to schedule delays as all other work associated would continue   Allocation for repairs for material failure of the pond linear, similar to currently existing situation   N/A	N/A	7/10/2023 In DCES but it has 4 more activities associated. See Column W ER6530 not found in schedule. ER9150 is an LDE Activity?
ICDF001	D.4.05.31.03	IEC		F	ailure	If equipment falls, it will need to be repaired or the project will need to procure a replacement. This equipment includes but is not limited to road graders, excavtors, front end loaders, diesel fuel trailer, water trucks, hook trucks, telehandlers, pumps, liners, Digital Control System Equipment, and Waste processor.	excavtors, front end loaders, diesel fuel trailer, water trucks, hook trucks, telehandlers, pumps, liners, Digital Control System Equipment, and Waste processor) necessary to perform operations.				ikely Seriou				341,000 \$		30 6	50	2 C	quipment Costs per OCES sheef, I case Rates for Equipment   N/A		7/10/2023 Used ICD-1205 Risk mitigation is not in DCES ICD-1055 is not in the schedule WP was not listed in the WBS in the Register D.4.05.32 was not found in the schedule
ICDF002	D.4.05.31.03	IEC	Orme, Jason Z	ovi, Bruno <u>II</u>	CDF Ops and Maintenance: Treatment, Storage, and Disposal Facility (TSDF) Closure	Treatment, Storage, and Disposal Facility (TSDF) is unable to receive waste, transportation of that waste will be delayed. It may then become necessary for the project to incorporate actions to recover schedule.	TSDF discontinues receiving of waste.	Open T	Threat Mit	tigate Lil	ikely Minor	2-1	w 5 /9,2	,200 \$	118,800 \$	158,400	8 1	12	\$ N = V	est Case: 8 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT =    logs/mr     host Likely Case: 12 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     SI56/hr.     host Display Case: 12 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 16 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 17 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     host Display Case: 18 days x 10 hr /day x 6 FTEs X (\$110/hr. + OT     h	4/23/2023	7/10/2023 In DCES
ICDF003	D.4.05.31.04	IEC		(	Freatment, Storage and Disposal Facility TSDF) Certification Failure	reworked.	packaged incorrectly, containing uncertified waste, containing prohibited items, etc.				st Certain Critice		\$ 1,500,0	,000 \$	81,000 \$		0 0		\$ h = v	est Case: 8 days x 10 hr /day x 6 FTEs x (\$75/hr + OT = 112.50/hr.)  Incl Likely Case: 612 days x 10 hr /day x 6 FTEs x (\$75/hr + OT = 112.50/hr.)  Incl Likely Case: 612 days x 10 hr /day x 6 FTEs x (\$75/hr + OT = 112.50/hr.)  Increase: 16 days x 10 hr /day x 6 FTEs x (\$75/hr + OT = 112.50/hr.)  est Case: they only require a dispose of current inventory of expressions.		7/10/2023 In DCES
				C	) isposal	IEC has several cargo containers at the projects that are filled with old radiological inturments. The instruments are currently being kept for use as spare parts to keep instruments running until older units can be replaced. Once old instruments are replaced, the spare instruments must undergo a proper disposal process. Once the stored instruments can no longer be used for spare parts, they become waste and require a hazardous disposal path due to lead and other metals used. If the project is directed to dispose of the spare instruments under strict disposal timelines, the amount of spares to be disposed of could potentially raise a need to become its own identified work scope with specific allocated resources to complete the work.	a strict timeline.												s t r c	paresMost Likely: require disposal of current spares and spares and state come from current projects such as ARP Morst Case: equire disposal of current spares and spares that come from urrent projects such as ARP. Additionally there would be demo nome buildings as there would be removal in some locations.		
INTEC011R2	D.3.03.32.02	IEC		ι	NTEC 80P: Transformer Failure Causes Inscheduled Electrical Outage	A transformer failure can cause an unscheduled power outage with long repair times. Transformers can require long procurement times depending on the size needed. All production could halt within the affected facility due to a lack of electrical power.	due to prolonged exposure to harsh outdoor weather conditions without testing or maintenance.			ccept Pos					545,600 \$		48 9		e N c t H ii c t t	est Case-transformer fails on double end fed piece of upulments occor for pelace is the material sonly of 250K.  Host Likely-transformer failure which causes partial building  Host Likely-transformer failure which causes partial building  Host Likely-transformer failure which causes partial building  Host Likely-transformer failure  Host Likely-transformer for Host Likely-transformer failure  Host Likely-transformer for Host	3/20/2022	7/10/2023
INTEC037R2	D.3.03.38.06	IEC		L	NTEC Miscellaneous Paving: Excavation Uncovers Unanticipated Objects	Excavation reveals unidentified objects and/or utilities resulting in a stop work to determine a any additional remediation prior to proceeding with excavation.	during excavation.				nlikely Minor			,000 \$	8,000 \$	96,000	1 1		12 E	ased on work history of similar projects for number of  TEEstimated values are:# Days x 10 hrs/day x 8 FTE x 5100/hr  weather shelters nearby or on site for emergencies		10/9/2023
INTECO38R2	D.3.03.38.09	IEC		C	NTEC Miscellaneous Paving: Clay Layer liscovered During Excavation	Additional excavation may be required to remove an unanticipated clay layer under the designated pave/repair area and then place on a compactable base.					Minor			,000 \$	8,000 \$	32,000	90 15		F	ased on work history of similar projects for number of TEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/hr from and trained to use the equipment provided.	3/20/2022	10/9/2023
		IEC	Klukis, Venta Kl	Ĺ	SS electronics failure.	The DCS electronic systems need to be updated to more readily available products in the event of a system failure. Parts for the currently operated system are not readily available as it is an outdated system.	Outdated DCS equipment falls upon use.	Open T		Positigate Positigate	Critical	. 4-11				296,000			270 In San Control of the Control of	thouse design delay can be an issue, it will take is weeks to work the high price of the price o	3/20/2022	
	D.3.03.38.07	IEC		C	NTEC CPP-666 Anex HVAC Upgrades: Discovery of Asbestos	The risk of asbestos being discovered during demo and installation requires additional controls.	Asbestos was discovered during demolition and installation.								224,000 \$				v F d	ince demo is proposed to be completed by force account, this ill reduce our cost of treating abstect (trained staff). At this suspect materials for asbestos. oint it is proposed to be probably two weeks of working days elay. Plus expenses, - 14 days X:10 In/day X 8 FTE X 5100/In/28 ays42 Days.	3/20/2022	
INTEC059R2 INTEC060R2	D.3.03.39.02 D.3.03.39.02	IEC IEC		E	Emergency Communication System Alt #1: ECS wireless system failure.	Existing ECS wireless system failure causes the work to be stopped- and impacts the accomplishment of the fire panel conversion process.  Required BEA reprograming at the Central Fire Station for each ECS	panel conversion work progress and testing.				nlikely Seriou			,000 \$	90,000 \$				×	est - 30d x 10 h/d x 1fte x 100/hr = 30,000 LR - 60d x 10h/d Have an ECS recovery plan in place to repair flex x 100/hr = 180,000 We - 90d x 10h/d x 3fte x 100/hr = 180 the x 100/hr = 140,000 We - 90d x 10h/d x 3fte x 100/hr = 140,000 We - 90d x 10h/d x 1fte x 100/hr = 140,000 We - 90d x 10h/d Have early communications with 8EA and		10/9/2023
INTEC067R2	D.3.03.3C.02	IEC	Howell Josepher	t top-th	imely manner.	panel conversion is not completed in a timely manner.  d Material price points in DCES are considered a ROM estimate and have	system is suspended.							,000 \$	500,000 \$		0	0	0 F	3fte x 10/hr = 90,000 Wo - 60d x 10h/d x 2fte x 100/hr   120,000 wo - 60d x 10h/d x 2fte x 100/hr   120,000 passes a long of the state	7/25/2022	10/9/2023
		-	700	e	estimates.	no basis of estimate. Controller, hook, and linear actuator lead times are unknown.				ccept Lil	ikely Modera		. 373,0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0   0		is U	. \$400K per crane and DCES currently has \$150K per crane. sed difference between values for the Most Likely case and hen adjusted 25% both ways to arrive at the Worst Case and		
INTECO68R2	D.3.03.3C.02	IEC	Howell, Jonathan How	vell, Jonathan II	NTEC Crane Upgrade: PaR Re-certification Scope Definition	Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete.	Vendor inspection and testing upon receipt of PaR arm.	Open T	Threat Mit	tigate Lil	ikely Minor	2-Li	N \$ 16,5	,500 \$	41,250 \$	82,500	0 (	0	O Pe	set Case values  revious quote from 2008 for similar work was \$120K which scalates to \$155K in today's follars. Worst Case assumes we trease cost by 50K, Most Ukely assumes we increase cost by 50K, Most Ukely assumes we increase cost by 510K. This citylity is not on the project critical path and is not expected to diversely impact project schedule so no durations were  monthed.	7/25/2022	10/9/2023
INTEC069R2	D.3.03.3C.02	IEC	Howell, Jonathan How	vell, Jonathan II	NTEC Crane Upgrade: CPP-603 Operations mpacts	INTEC Crane Upgrade must be started and completed between higher priority operational evolutions to ensure that the necessary personnel and equipment are available.		Price Option T	hreat Mit	tigate Almost	st Certain Minor	4-н	\$-	\$-	Ş-		8 1	16	32 V	toutes.  Project will work to prioritize activities to avoid running into conflicts with ATR Direct of the war and was bedded nowing in Nost impact is shipment.	4/11/2023	7/10/2023
INTECO7OR2	D.3.03.3C.02	IEC	Howell, Jonathan How	vell, Jonathan II	NTEC Crane Upgrade: Infrastructure doesn't support integration of new design	Engineering design identifies areas where additional conduit or cell wall penetrations will be required.	Engineering design contractor identifies issues with integration into existing facility.	Open T	hreat Mit	tigate Unl	nlikely Modera	ite 2-Li	w \$ 30,0	,000 \$	60,000 \$	101,250	16 3	32	54 B a n r F iii t	sociated with this risk.  Specification is being written such that the upstream of work package only. Likely Case assumes that and a new, into infrastructure installation which would drive matterial recurrement. Worst Case assumes that, and rework to existing frastructure. Duristons are based off project historicals and ene costs were calculated using typical crew size for this type fund.	7/25/2022	10/9/2023
INTECO71R2	D.3.03.35	IEC	Inns, Ryan I	Inns, Ryan II	NTEC Utility Tunnel: Specialty Subcontractor Availability	r Specialty contractor, who would be required to support training, oversight, inspection, or testing forth Utility Tunnel Upgrades is not available.	Identified contractor identifies availability issues that impact the project schedule.	Price Option T	Threat Mit	tigate Pos	ssible Minor	2-Li	N \$ 12,0	,000 \$	48,000 \$	144,000	4 1	16	N S	Twofix.  Schedule contractor early.  Schedule contractor early.  Schedule contractor early.  Mag.000  Worst Case: 48 days x 10 hrs./day x 4 people x 575/hr. = 48,000  Worst Case: 48 days x 10  rs./day x 4 people x 575/hr. = \$144,000	4/11/2023	7/10/2023
INTEC072R2	D.3.03.35	IEC	Inns, Ryan I	Inns, Ryan II	NTEC Utility Tunnel: Craft Support Availability	Force Account craft, who are needed to support the Utility Tunnel Upgrades, are not available when needed.	Craft management identifies availability issues that impact the project schedule.	Price Option T	'hreat Mit	tigate Pos	ssible Minor	2-Li	\$ 12,0	\$ 000	48,000 \$	144,000	4 1	16	48 E	est Case: 4 days x 10 hr /day x 4 people x 975/hr. = \$12,000   fost Ukely. 16 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day x 4 people x 975/hr. = \$48,000   fort Case: 46 days x 10 hr /day	4/11/2023	7/10/2023
INTECO76R2	D.3.03.3D.02	IEC	Kelly, Patrick Ke	elly, Patrick II	NTEC Energy Audits: Facility Availability to Support Walkthrough/Work Release	Unforeseen operational activities may prevent facility access to perform walkdowns/energy audits.	Emergent Operational activities prevent scheduled access to facility.	Price Option T	'hreat Ac	ccept R	Rare Minor	1-L	\$ 2	276 \$	2,210 \$	4,419	1 2	2	3 B	144.000 est Case: S276.19 subcontractor cost for each facility. Most kely, a facility audits per day = \$1104.76 \ 2 day delay = \$2209.52 Worst Case: 4 day delay = \$449.00 est 4 day delay = \$449.00 est 4 day delay = \$449.00 est 5 day 6 day = \$449.00 est 5 day 6 day = \$449.00 est 6 day 6	4/11/2023	7/10/2023
INTECO77R2	D.3.03.38.10	IEC	Wilcox, Christopher Wilco	ox, Christophei L	ED Lights longevity	LED Lights don't last in the cell environment.	Initial LED lights installed do not last and future light installations are put on hold.	Open T	Threat Ac	ccept Pos	essible Major	4-н	s 43,!	,525 \$	87,051 \$	174,102	54 6	56	91 V	Verst case assumes all lights were installed and would require. N/A placement. Cost per light is \$220, cost per shoebou is \$290,  do cost to support emoval and installation is estimated to be 160K. Schedule impact worst case was found by reusing initial reject durations for work order development, part recourement, and light installations. Most Likely values were und by assuming \$60K of lights would need to be emoved/replaced while Best Case assumed 25%.	11/17/2022	10/9/2023

Second Column	INTEC078R2	D.3.03.38.10	IEC	Wilcox, Christopher	Wilcox, Christophe	Waste in Cell 216 Prevents Lower Light Replacements	The waste currently in Cell 216 will hinder the lower half of the LED light replacements.	The upper lights are completed and waste is still in the cell. Access to the lower lights is determined to be not possible.	Open Ti	nreat Mitig	gate Likely	Critical		\$ -	\$ -	\$ -	0	136 198	There is no cost impact if risk is realized, however, schedule could be impacted. Best case the waste is removed prior to light allow as much time as possible for the Was installation, most likely is based off of completing the waste		11/17/2022	10/9/2023
No.	INTECO80R2	D.3.03.38.04	IEC	Lords, Darin	Lords, Darin	Material Delays	Cell signal boosters are delayed.	Materials are not received on scheduled date.	Open TI	nreat Acce	ept Possible	Moderate	2-Low	\$ -	\$ -	\$ -	10	20 40	loadout is completed by 1/2023  Work is being performed by subcontractor so, minimal cost will coordinate with the vendor to schedule the be realized if materials are delayed but the schedule will be installation when the materials are available.		11/17/2022	10/9/2023
Part	INTEC082	D.3.03.32.03	IEC	Hamilton, Rob	N/A				Open Ti	reat Acce	ept Possible	Moderate	2-Low	\$ 140,000	\$ 280,000	\$ 500,0	00 0	0 16	vendors supply chain.  Best Case: PPE costs-\$18000 (\$500/entry/person) per week.  N/A		4/23/2023	7/18/2023 Risk listed a mitigation action in the register but no RM
Column   C						Repairs Delays New Crane Install	by the time new crane shows and paperwork to install is approved.	10/02/2023.											\$60/hr. overtime for union workers - 4 days X 10 hr./day X 9	paperwork is approved to install the crane		Activity ID  Removed mitigation action from register.  Reworded Corrective Action to reflect a post realized-
A																			X \$75/hr.= \$140,000.			risk action item.
Part																			union workers - 16 days X 10 hr./day X 9 FTEs X \$60/hr.			
Column   C																			\$90/hr. Exempt personnel - 24 days X 10 hr./day X 3 FTEs X			
State   Stat																			No schedule impact since taking action prior to installation of crane.			
March   1988   1989																			work days since it would delay the crane install. PPE costs-			
Second Column   Col	INTECOR3	D 3 03 32 03	IFC	Raisch Kasev	Raisch Kasey	INTEC 902 Crane Renair: Cable Reel and	During the remote design of the crane, the cable reel and bridge	Installation of the crane	Open Ti	reat Acce	ent Rare	Moderate	1-Low	\$ 56,500	\$ 88.450	\$ 161.1	00 20	22 44	hr /day X 3 FTFs X \$75/hr = \$500 000		4/23/2023	7/18/2023
Part				,	,	Bridge Motor Impact Clearance Tolerances	motor were changed to meet the required clearance tolerances. It may be discovered that the cable reel and/or bridge motor tolerance												bridge motor, it will take 1 month for ACECO engineers design changes which we will not pay for due to warranty. 1 week for		,,,,,,,,,,,,	
Second   S							with the west wall in the PaR parking area of the cell.												days X 10 hr./day X 9 FTEs X \$60/hr. Exempt personnel 4 days X 10 hr./day X 3 FTEs X \$75/hr. PPE cost \$21,500 = \$56,500Most			
Part																			which we will not pay for due to warranty. 1 week for			
Part																			days X10 hr./day X 9 FTEs X \$60/hr. Exempt personnel 4 days X 10 hr./day X 3 FTEs X \$75/hr. PPE cost \$21,500 = \$56,500. OT 2			
Part																			personnel 2 days OT X 10 hr./day X 1.5 OT rate X 3 FTEs X			
State   Column   Co																			Worst Case: 6 weeks for engineering design. 2 weeks with overtime = Straight time - Craft 8 days X 10 hr./day X 9 FTEs X			
Column   C																			\$60/hr.= \$75600.00. Exempt - 8days X 10 hr./day X 3 FTEs X \$75/hr.+ 4 days X 10 hr./day X 1.5 OT rate X 3 FTEs X \$75/hr.=			
No.   Column   Colu																			\$31500.00 + 75600.00 = \$107100.00 + PPE \$54000 = \$161,100.00			
March   Marc	INTEC137	03.3A.05D.3.03.3A	IEC	Wilcox, Christopher	Wilcox, Christophe		Materials are delayed or not available as scheduled.	Materials are backordered or have excessive lead times.	e Open Ti	nreat Acce	ept Possible	Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,0	00 12	16 32	days X 10 Hrs. X 5 FTEs X \$75/hr. Worst Case: 32 days X 10 Hrs.		4/11/2023	7/10/2023
1	INTEC138	03.3A.05D.3.03.3A	IEC	Wilcox, Christopher	Wilcox, Christophe		Equipment delayed or not available as scheduled.	Equipment is backordered or has excessive lead times.	Open Ti	nreat Acce	ept Possible	Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,0	00 12	16 32	Best Case: 12 days X 10 Hrs. X 5 FTES X \$75/hr.Most Likely: 16 days X 10 Hrs. X 5 FTES X \$75/hr. Worst Case: 32 days X 10 Hrs.		4/11/2023	7/10/2023
No.   Column   Colu	INTEC211	D.3.03.32.01 D.3.03.32.02	IEC	Hamilton, Rob	N/A	and/or Expectations Results of Major	it could result in additional resources required, changes to work	ue, A Major Noncompliance event occurs.	Open Ti	reat Acce	ept Likely	Major	4-High	\$ 250,000	\$ 500,000	\$ 1,000,0	00 48	96 192	Cost of subcontract mentors, cost to refurbish program, cost for N/A		5/18/2023	7/10/2023 Used INBOP-PM-1020
Column   C						Noncompliance Issue	control, additional training required, etc.															
March   Marc																						
March   Marc	INTEC212	D.3.03.30.04	IEC	Baisch, Kasey	Baisch, Kasey	BOP CM: Critical Legacy Equipment Failure	overhead doors, transformers, etc. Legacy equipment has the	Equipment fails.	Open Ti	reat Acce	ept Almost Certai	in Critical		\$ 500,000	\$ 1,000,000	\$ 2,000,0	00 96	192 288			5/18/2023	7/10/2023
Window   W							failure can cause unscheduled outages to repair and turn the equipment back over to operations.	nt											actuals.			
Property	INTEC221	D.3.03.3F.06	IEC	Lords, Darin		Delays Power Conductor Testing and	During the performance of the conductor testing for the deep well installation, severe weather could cause a delay, increasing the time		Open Ti	nreat Acce	ept Rare	Minor	1-Low	\$ 30,000	\$ 45,000	\$ 60,0	00 8	12 16	Most Likely: 12 days X 10 hr. X 5 FTEs X \$75/hr. Worst Case: 16	N/A	7/28/2022	7/10/2023 Not In DCES
March   Column   Co						IIIStalia tioli	needed to complete the testing.												udys A 10 III. A 3 FIES A 373/III.			
March   1/4   1/	INTEC222	D.3.03.3F.06	IEC	Lords, Darin	N/A			Failed test.	Open Ti	reat Acce	ept Rare	Major	2-Low	\$ 94,500	\$ 171,000	\$ 274,5	00 42	76 122		N/A	7/28/2022	7/10/2023 Not In DCES
Process   Proc																			Worst Case: 122 days X 10 hr. X 3 FTEs X \$75/hr.			
Mark Strate	INTEC223	D.3.03.3F.06	IEC	Lords, Darin	N/A		During connector tie-in evolution of the Deep Well power conductor	S Damaged Equipment/parts.	Open Ti	reat Acce	ept Rare	Minor	1-Low	\$ 60,000	\$ 75,000	\$ 135,0	00 12	16 32		N/A	7/28/2022	7/10/2023 Not In DCES
Property   Company   Com						Connectors parnaged													Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials			
Control Cont	INTEC224	D.3.03.3F.06	IEC	Lords, Darin	N/A	CPP-606 Vulnerabilities Upgrades: During	During the tugger/pulling evolution of the conductors, the conducto	r Cable will not pull into new conduit.	Open Ti	reat Acce	ept Rare	Minor	1-Low	\$ 95,000	\$ 110,000	\$ 170,0	00 12	16 32	materials	N/A	7/28/2022	7/10/2023 Not In DCES
Part   Column   Col							becomes wedged and will not continue into conduit.												materials			
Registry																			materials			
	IT004	D.6.02.38.01	IEC	Anderson, Jade	N/A	Information Technology: Subcontractor Availability	Subcontractor availability (wheeler electric, Leverage) preference ar availability.	nd Preferred subcontractor is unavailable.	Open Ti	nreat Mitig	gate Rare	Serious	2-Low	\$ 216,000	\$ 576,000	\$ 1,296,0	00 24	64 144	Most Likely: 64 days x 10 hr./day x 4 FTEs x \$225/hr.= \$576,000	. N/A	4/23/2023	7/10/2023 No mitigation in DCES
Column   C																			\$1,296,000			
1/2012   1	ITO10		IEC	Anderson, Jade	N/A	Information Technology: Software Upgrade	Cyber and IT) - Derogatory information discovered during risk		Open Ti	reat Mitig	gate Unlikely	Minor	2-Low	\$ 18,000	\$ 72,000	\$ 288,0	00 4	16 64	Most Likely: 16 days x 10 hr./day x 2 FTEs x \$225/hr.= \$72,000 vulnerabilities and adjust coding as necessary	y N/A y.	4/23/2023	7/10/2023 No mitigation in DCES
Segretaria, tors consistently to find an experimental consistent of the segretaria of the consistent of the segretaria of the consistent o								or											worst case: 64 days x 10 hr./day x 2 FTEs x \$225/hr.= \$288,000			
Common State for the first facility of the facility of the first facility of the fac	IT012	D.6.03.32.01	IEC	Anderson, Jade	N/A	Information Technology: Sourcing Hardwar	operations, items needed may be discontinued by the manufacturer.	Cannot source Hardware.	Open Ti	reat Acce	ept Possible	Serious	3-Moderate	\$ 216,000	\$ 576,000	\$ 1,296,0	00 24	64 144	Most Likely: 64 days x 10 hr./day x 4 FTEs x \$225/hr.= \$576,000	N/A	4/23/2023	7/10/2023 No mitigation in DCES
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35.01   D. 6.02.35							Cannot locate items that are of limited supply.												Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.=			
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35.01   D. 6.02.35																						
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35   D. 6.																						
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35.01   D. 6.02.35																						
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35.01   D. 6.02.35																						
D. 6.03.32   D. 6.03.33   D. 6.02.34   D. 6.02.34   D. 6.02.35.01   D. 6.02.35																						
D.6.02.34 D.6.02.35.01	IT013	D.6.03.32	IEC	Anderson, Jade	N/A			d   Technical issues or major failures occur.	Open Ti	nreat Acce	ept Possible	Critical	4-High	\$ 320,000	\$ 960,000	\$ 1,920,0	00 40	120 240	Most Likely: 120 days x 10 hr./day x 4 FTEs x \$200/hr.=	N/A	4/23/2023	7/10/2023 No mitigation in DCES FP-1010 not found in schedule IP.P3-1010 not found in schedule
		D.6.02.34																	Worst Case: 240 days x 10 hr./day x 4 FTEs x \$200/hr.=			IP.P2-1010 not found in schedule DSHP-1010 not found in schedule
Contamination of Groundwater Monitoring potential for contamination to be discovered that could impact the well drilling equipment.	NICDF006	D.4.06.3A.01	IEC	Reese, Craig	N/A	Contamination of Groundwater Monitoring	potential for contamination to be discovered that could impact the		Open Ti	reat Acce	ept Rare	Minor	1-Low	\$ 30,000	\$ 75,000	\$ 120,0	00 2	5 8	Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	9/21/2022	7/10/2023 No mitigation in DCES
Well Drilling Equipment and Site equipment, ground water, and/or surrounding area. This would require time and cost to move to another drilling site and to decontamination equipment.						Well Drilling Equipment and Site	equipment, ground water, and/or surrounding area. This would require time and cost to move to another drilling site and to												Worst Case: 8 days X 10 hr./day X 20 FTEs X \$75/hr.			
														'			•		·			

NICDF007	D.4.06.32.01	IEC	Reese, Craig	N/A	New ICDF Cell: Lowering the Cell Results in Finding Basalt	If DOE/Tribes require lowering the ICDF cell berm by 7 feet (reducing visual footprint) then a modification in design and excavation would be required. The project would have to re-design the cell, requiring rotating the cell 90°, and excavating 7 feet deeper than currently estimated.	During deeper excavation of cell, basalt is encountered. Takes longer to excavate.	Open Th	reat Accep	Almost Certain	n Minor	3-Moderate	e \$ 150,000	\$ 240,000	\$ 720,00	000 10	) 16		est Case: 10 days X 10 hrs_/day X 20 FTEs X \$75/hr. flost Likely Case: 16 days X 10 hrs_/day X 20 FTEs X \$75/hr. Vorst Case: 48 days X 10 hrs_/day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022		As of 9/18/2023  Note From DOE: This is a risk within the project baseline and not an external risk. Further, the cell has already been lowered and rotated 90-degrees in the design documents. Also, if basalit is found during excavation, it is a risk that should have been covered in the site preparation (excavation) activities. As such, this is an IEC preparation (excavation) activities. As such, this is an IEC risk that should be covered by the Management Reserve
NICDF009	D.4.06.39.01	IEC	Reese, Craig	N/A	ICDF Cell 3: Lack of Construction or Excavation Resources Due to Competing Projects or Priorities	As the construction begins, the resources may be unavailable due to other construction activities taking place. Therefore, earthmoving equipment and labor resource may not be available.			reat Accep	t Likely	Moderate	3-Moderate	e \$ 100,000	\$ 500,000	\$ 1,250,00	000 10	0 10	\$5 M .1	est Case: 10 days (2% increase in subcontract cost) = .02 X 5M dost Likely Case: 10 days (10% increase in subcontract cost) = LX S5M		N/A	9/21/2022	7/10/2023	risk that should be covered by the wariagement reserve account.  No mitigation in DCES
NICDF010	D.4.06.38.02	IEC	Reese, Craig	N/A	ICDF Cell 3: Funding Constraints May Impa the Acquisition Strategy	oct Due to the Project Data Sheet having funding over several fiscal years a contract for the entire construction FFP cannot be awarded. The	Contractors annual FFP proposal is greater	Open Th	reat Accep	t Rare	Critical	3-Moderate	e \$ 1,000,000	\$ 5,000,000	\$ 20,000,00	000 10	0 20	\$5	Vorst Case: 10 days (25% increase in subcontract cost) = .25 \( \) 5M est Case: 10 days (2% increase in subcontractor cost) = .2 X  CM		N/A	9/21/2022	7/10/2023	No mitigation in DCES
NICDF014	D.4.06.37.05	IEC	Reese, Craig	N/A	New ICDF Cell Definition: Excavation	a contract of the entire contract for each FY and have the contractor provide a FFP each year. If price of the FFP cannot be Excavation during the winter months may require the contractor to	negotiated.	Open Th	reat Accep	ot Likely	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 720,00	000 4	16	13	Most Likely Case: 20 days (5% increase in subcontractor cost)  X \$5M est Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	7/10/2023	No mitigation in DCES
NICDF018	D.4.06.38.02	IEC	Reese, Craig	N/A	Activities Halted	double handle material.  te HSQA is discussing the possibility of requiring the use of respirators	temperatures and subsequent frost line.  HSQA requiring respirators.	Open Th	reat Accep	ot Possible	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 1,440,00	000 4	16	w	Most Likely Case: 16 days X 10 hr./day X 20 FTEs X \$75/hr.  Vorst Case: 48 days X 10 hr./day X 20 FTEs X \$75/hr.  est Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	7/10/2023	No mitigation in DCES
NICDF020	D.4.06.37.05	IEC	Reese, Craig	N/A	Requires Respirators  New ICDF Cell Definition: Excavation	when working with Bentonite which could impact the approach to the work being performed.  While doing excavation there is a chance of unforeseen circumstance		Open Th	reat Accep	t Rare	Minor	1-Low	\$ 30,000	\$ 75,000	\$ 1,200,00	000 2	. 5	w	Most Likely Case: 16 days X 10 hr./day X 20 FTEs X \$75/hr.  Vorst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr.  est Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	7/10/2023	No mitigation in DCES
NICDF021	D.4.06.34.05	150			Uncovers Unanticipated Materials	(i.e., rad contamination) to occur that can cause a delay in the schedule or a need to assess a new path forward.	Basalt pockets, Un-identified utilities, Rad contamination Archaeology artifacts	Open Th	reat Accep		Minor		\$ 30,000	\$ 75,000	\$ 300,00	200		w	flost Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.         Vorst Case: 80 days X 10 hr./day X 20 FTEs X \$75/hr.         est Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr.					
NICDF021		IEC	Reese, Craig	N/A	Costs above \$100M	In the event that the project ACWP starts to climb above \$100M the potential for a stop work or a new CD evaluation could evolve.	above \$100M.					1-LOW	\$ 30,000				,	M	Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Vorst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A			No mitigation in DCES  No mitigation in DCES
	D.4.06.39.01	IEC	Reese, Craig	N/A	PM Support - ICDF: Industrial Incident Resulting in Shutdown	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	or near miss.				Minor	1-Low						M	est Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Vorst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A			
NICDF030R2	D.4.06.37.05	IEC	Reese, Craig		New ICDF Cell: Overtime Required	To maintain project schedule, overtime is required to maintain or recover project schedule.	Technical or installation issues cause schedule delays require overtime recover or maintain project schedule.		reat Accep		Moderate	2-Low	\$ 144,000					M W	est Case: 16 days X 1 hr./day X 120 FTEs X \$75/hr. Most Likely Case: 32 days X 1 hr./day X 120 FTEs X \$75/hr. Vorst Case: 48 days X 1 hr./day X 120 FTEs X \$75/hr.	N/A	N/A			No mitigation in DCES
NICDF033	D.4.06.37.05	IEC	Reese, Craig	N/A	PM Support - ICDF: Weather Delays	Cold/wet weather in the spring and fall prevent construction of the cell and evaporation ponds.	construction work at the site.	.,.	reat Accep	ot Possible	Minor	2-Low	\$ 75,000			5 000	15	M	est Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 15 days X 10 hr./day X 20 FTEs X \$75/hr. Vorst Case: 45 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A			No mitigation in DCES
NICDF034	D.4.06.37.05	IEC	Reese, Craig	N/A	PM Support - ICDF: Identification of Contamination	Unforeseen radiological and/or hazardous contamination is discovered outside the boundaries of known sources.	Contamination is identified.	Open Th	reat Accep	ot Possible	Minor	2-Low	\$ 30,000	\$ 75,000	\$ 300,00	2 2	. 5	M	est Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Nost Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Vorst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	12/8/2022	7/10/2023	No mitigation in DCES
NICDF037a	D.4.06.30	IEC	Reese, Craig		Meet ICDF Scheduled Need Dates	ot IEC relies on BEA for support services on Milestones, regulatory commitments, and scope completion. If the work from BEA is delayed or does not meet the requirements, it can cause a project schedule impact.	impacts project schedule.		reat Share		Minor	2-Low	\$ 60,000	, ,,,,				176 Be M W	est Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. flost Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Vorst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Shared to DOE	N/A	2/2/2023	, ,,	
NICDF038	D.4.06.34.05	IEC	Reese, Craig	N/A	New ICDF Cell: EVMS Certification Disapproval/Delay	IEC Contract H.37 requires "For contracts supporting projects valued at \$100M or more, the contractor's EVMS must be formally certified.  "Excessive Corrective Action Reports (CARs) or EVMS disapproval could result in project execution impacts including delays and increased costs. This would impact IEC's ability to execute work on Capital Asset projects after Critical Decision (CD) 2.	Disapproval or delay of EVMS certification.	Open Th	reat Accep	ot Possible	Minor	2-Low	5 -	\$ 1,000	\$ 6,01	000 0	16	M do W	est Case: No impacts are applied.  Most Likely Case: 1 month delay to rework CD Approval  ocuments * 1½/month = 51k  Worst Case: EVMS certification disapproval results in 6 month  or restructure * 1½/month = 56k	N/A	N/A	6/26/2023	//10/2023	No mitigation in DCES
NICDF039a	D.4.06.34.05	IEC	DOE FPD	Reese, Craig	New ICDF Cell: CD2/3 PMB higher than Ph. 2 Plan	ase ICDF New Cell is anticipated to be submitting a PMB in the spring of 2024 for the lifecycle of the project. Under DOE direction they are als planning two years of scope under Task Order 3 Phase 2 (FV2-HY25). There is a potential differentiation in the planning of those time periods making the PMB in the spring come in at a different cost or	with different costs and/or schedule	Open Th	reat Share	d Possible	Serious	3-Moderate	\$ 250,000	\$ 500,000	\$ 750,00	32	2 64	ur M ur W	est Case: Additional 2 months needed for scope identified nder FY24/25 time frame with additional \$250K. fost Likely: Additional 4 months needed for scope identified nder FY24/25 time frame with additional \$500K. Vorst Case: Additional 6 months needed for scope identified		N/A	7/10/2023	9/18/2023	
NRFDD008R2	D.5.01.32D.5.01.3 0.20D.5.01.30.21	IEC	Burtenshaw, Shawna	Burtenshaw, Shaw	n NRF Naval Reactors: Loss of Contamination Control	schedule than planned.  Loss of contamination control (outside D&D boundaries) during demolition may result in personnel contamination and/or extended shutdown for recovery.	An unanticipated event driven by discovery of contamination outside of the boundary, possibly portable air monitor.	Open Th	reat Accep	ot Rare	Critical	3-Moderate	\$ 750,000	\$ 1,500,000	\$ 1,000,00	100	0 180	204 Be \$7 M \$1	nder FY24/25 time frame with additional \$750K. est Case: 100 days x 10 hrs,/day x 8 people x \$93/hr. = 750,000 nost Ukely: 180 days x 10 hrs,/day x 8 people x \$93/hr. = 1,500,000 Vorst Case: 204 days x 10 hrs,/day x 8 people x \$93/hr. =	N/A		3/20/2022	10/9/2023	
																		\$3	3,000,000					
NRFDD009	D.5.01.32	IEC	Burtenshaw, Shawna	Burtenshaw, Shaw	n NRF Naval Reactors: NRF West Gate Acces	s The West entrance for NRF using gate 4 has Limited Ingress/egress for the heavy equipment and waste shipments due to high voltage power conductors overhead.	The heavy Equipment and waste loads ingressing or egressing from NRF through gate 4 will have a load limit no greater than 13' in height that will require an alternate route or complicated high voltage power	Open Th	reat Accep	ot Likely	Minor	2-Low	\$ 21,000	\$ 42,000	\$ 84,00	000 4	8	Ca	est Case: 4 days X 10 hrs/dy X 7 FTEs X \$75/hr Most Likely ase: 8 days X 10 hrs/dy X 7 FTEs X \$75/hrWorst Case: 16 day 10 hrs/dy X 7 FTEs X \$75/hr			4/12/2022	7/10/2023	
NRFDD010	D.5.01.32	IEC	Burtenshaw, Shawna	Burtenshaw, Shaw	n NRF Naval Reactors: A1W Turnover Delaye	ed This work scope is based off an FMP schedule with a phased approach to turnover and transfer ancillary A1W facilities to IEC starting June 1 2023, if the transfer does not happen as scheduled there is a risk of schedule and associated cost delays until turnover is completed.		Open Th	reat Accep	ot Rare	Minor	1-Low	\$ 21,000	\$ 42,000	\$ 84,00	000 4	8	Ca	est Case: 4 days X 10 hrs./day X 7 FTEs X \$75/hr. Most Likely ase: 8 days X 10 hrs./day X 7 FTEs X \$75/hr. Worst Case: 16 ays X10 hrs./day X 7 FTEs X \$75/hr.	N/A		4/12/2022	7/10/2023	
NRFDD011	D.5.01.32	IEC	Burtenshaw, Shawna	Burtenshaw, Shaw	n NRF Naval Reactors: Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized.	Open Th	reat Accep	ot Rare	Moderate	1-Low	\$ 37,500	\$ 225,000	\$ 337,50	500 5	30	\$3	est Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = 37,500Most Likely Case: 30 days X10 hrs/dy X 10 FTEs X 75/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X 75/hr = \$337,500	N/A		8/11/2022	7/10/2023	
NRFDD012	D.5.01.32	IEC	Burtenshaw, Shawna	Burtenshaw, Shaw	n NRF Naval Reactors: Industrial Incidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	An unanticipated accident resulting in injury or near miss.	Open Th	reat Accep	ot Rare	Critical	3-Moderate	e \$ 750,000	\$ 1,500,000	\$ 3,000,00	000 10	180	\$7 hr	est Case: 100 days x 10 hrs./day x 8 people x \$93/hr. = 750,000 Most Likely: 180 days x 10 rs./day x 8 people x \$93/hr. = \$1,500,000 Vorst Case: 204 days x 10 hrs./day x 8 people x \$93/hr. = 3,000,000	N/A		3/20/2022	7/10/2023	
NRFDD013	D.5.01.32	IEC			n NRF Naval Reactors: Subcontract Management	Not securing a subcontractor that can do the work in the time allotted for the project can cause schedule delays.	perform work.	Closed	reat Mitiga		Moderate		\$ 37,500					\$3 \$7 \$7	set Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = 37,500Most Likely Case: 30 days X10 hrs/dy X 10 FTEs X 75/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X 75/hr = \$337,500		ge 3/20/2022	7/10/2023		
RHTRU001R2	D.2.04.30.14	IEC	Troescher, Pat	N/A	Critical Faillure of Equipment	Achievement of the PY24 of processing 10 to 11 containers and the PY25 of processing 10 to 11 containers, due to critical failure of equipment, impacts the Idaho Settlement Agreement (ISA) and Delay to six te treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.	and lack of funding specific to:  1. Procure manipulators  2. Design, procure, and modify FDPA in-cell crane from analog to digital.		Accept		Moderate		\$ 200,000					B B B B S S S S S S S S S S S S S S S S	osts are based on fees associated with missed delivery dates set Case: 16 days down time X 20 FTEs X \$41.50/hr. X 10hr. 132,800 + fee foot Likely: 32 days down time x 20 FTES X \$41.50/hr. X 10hr. 265,600 + fee Vorst Case: 64 days down time x 20 FTES X \$41.50/hr. X 10hr. 531,200 + fee	•	Actions include:  - The MSM critical spare parts for the Models FX, F, and G is based on current critical spare parts inventory, consumption of criticals spare, and lead time to receive replacement parts from the vendor. The system engineer supporting the project tracks and maintains the inventory for the critical MSM and some PaR spare parts currently installed in the CPP-666 FD MSM and CPP-656. The parts of the parts in both CPP-659 and CPP-666.  - Monthly and annual PM's are performed on the in cell and facility cranes for both CPP-659 and CPP-665. There are spare electrical components (Le, circuit boards, fuses, and relays) for the in cell and facility cranes.  - Semi-annual, Annual, and 5-year PM's are performed on the elevator in both facilities.  - A complete CPP-659 PAR entire assembly has been procured and has been received.  However, these steps do not entirely mitigate the equipment failure risk and the risk is DOE owned since they plan to provide funding for procurement of manipulators and upgrades to the FDP in cell crane from analog to digital.  Make DOE aware of the risk of not funding			Has a mitigation action in the register, but no mitigation activity in the schedule.  Remove Mitigation Action from Register?  Not in DCES  Moved Mitigation actions over to the right in Column AD so information wasn't lost but we were communicating correctly.
RHTRU002R2	D.2.04.30.14	IEC	Troescher, Pat  Troescher, Pat		BH-TRU Waste Disposition, Archeving T-V4/25 Milectones for Processing Lot 11 Containers Due to Complex Geometries BH-TRU Waste Disposition: Processing Lot	inability to treat sodium in waste with complex geometries, impacts the Idaho Settlement Agreement (SA) and Delay is site reatment play scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.  1.11 Processing lot 11 containers are taking longer than planned due to	waste containing significant quantities (-100g) of NaK are found in repackaging Lot. 11 waste.		reat Accep		Minor	2-Low	\$ 16,600			8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		ne Ba S3 W S3 W S6	chedule impact is based off SDS system being down and in eed of repair.  est Case: 8 days down time X 5 FTES X \$41.50/hr. X 10hr. = 16.600  floots Likely: 16 days down time x 5 FTES X \$41.50/hr. X 10hr. X 10hr. 33.200  est Case: 32 days down time x 5 FTES X \$41.50/hr. X 10hr. 66.400	Implement overtime to recover schedule	1. Methods used to size Lot 6 waste components will be used for the Lot 11 waste components. Complex geometries may still result in not being able to complete treatment by water or air methods and would require distillation. The Sodium Distillation System is required to remove sodium from complex geometries.  2. Lot 11 containers chosen for treatment are evaluated for any documentation referencing NaK. A small population of waste components (Le., Transducers) were found that water treatment was not viable and could only be distilled or sent off site for treatment and disposal. If any waste components that are found or large quantities (- 100g) of NaK that cannot be water treated, then the components will be stored until an operations time slot is available to perform distillation.  N/A			Has a mitigation action in the register, but no mitigation activity in the schedule.  Remove Mitigation Action from Register?  Reads like the same risk as RHTMU03.  Not in DCES  Deleted Mitigation action in column V. It was item number 2 for the above risk in column AD.
					Containers	inaccurate generator information. Causing the use of OT to catch up.												\$2 M \$4	24.900 dost Likely: 4days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT 49.800 Orost Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT 97.600	slippage and reduce further schedule interruptions.			. · · ·	Added secondary Mitigation Activity found in schedule. In DCES  Updated Mitigation action to match what was in the DCES.
i																								

SNF007R2	D.1.02.32.31	IEC Ellsworth, Carla	N/A Advanced Test Reactor (ATR) SNF Receipt:  CPP-603 PaR Manipulator Malfunction 603 PaR manipulator (MAN-GSF-401).	While operating the CPP-603 PaR manipulator (MAN-GSF-401), certain PaR	Open	Threat Ac	ccept	Likely	Minor	2-Low	\$ 107,016 \$	214,032 \$	535,080	7	14	35	Best Case: 7 days X 12 hr. X 13 FTEs X \$98/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	Maintain the PAR. Work with BEA to reschedule ATR Receipts	3/20/2022 7/10/2023	Not In DCES
				motions appear to be or are abnormal/malfunctioning. Failure of the manipulators results in schedule delays.													Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.				
SNF008R2	D.1.02.32.31	IEC Ellsworth, Carla	N/A <u>Advanced Test Reactor (ATR) SNF Receipt.</u> Camera Failures Due to High Radiation Fields cameras in the CPP-603 fuel handling cave.		Open	Threat Min	itigate	Likely	Minor	2-Low	\$ 45,864 \$	214,032 \$	428,064	3	14	28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	In the majority of instances, alternative cameras can be utilized to allow the continuation of operations. Perform camera replacement analysis.	N/A	3/20/2022 7/10/2023	In DCES
SNF009R2	D.1.02.34.02	IEC Reynolds, Boedre	N/A CPP-749 1st Generation Vaults Remediation: CPP-749 Remediation: Project activities are delayed because of Changing CPP-749 Security Requirements changing CPP-749 security requirements.	Requirements derived from planned security related vulnerability assessments impose more restrictive security controls.	Open	Threat Ac	ccept	Possible	Minor	2-Low	\$ 45,864 \$	214,032 \$	428,064	3	14	28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	-Purchase Back-up Cameras N/A	Work with DOE/BEA to ensure project activities comply with security plan.	3/20/2022 7/10/2023	
SNF010R2	D.1.02.34.02	IEC Reynolds, Boedre	N/A CPP-749 1st Generation Vaults Remediation:  (CPP-749 Remediation: Interim Storage Area (ISA)-4 shielding is Inadequate Shielding Results in Exorbitant determined to be inadequate, resulting in radiation levels higher tha	Radiation Technician surveys of the 1st	Open	Threat Ac	ccept	Possible	Minor	2-Low	\$ 107,016 \$	214,032 \$	535,080	7	14	35	Best Case: 7 days X 12 hr. X 13 FTEs X \$98/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	Work with Radiation protection, engineering, and waste management to mitigate radiation levels.	3/20/2022 7/10/2023	
			Radiation Level those allowed for extended work in the 1st Generation Vault area.	allowable radiation levels.													Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.				
SNF011R2	D.1.02.34.02	IEC Reynolds, Boedre	N/A CPP-249 1st Generation Vaults Remediation: Excessive Corrosion in The Peach Bottom Vaults  Vaults  Package retrieval methods.		Open	Threat Ac	ccept	Possible	Minor	2-Low	\$ 107,016 \$	214,032 \$	535,080	7	14	204	Best Case: 7 days X1 2 hr. X13 FTEs X 598/hr. Most Likely: 14 days X12 hr. X13 FTEs X 598/hr. Worst Case: 35 days X12 hr. X13 FTEs X 598/hr.	N/A	Fuel packages will be visually inspected prior to being lifted for the purposes of identifying corrosion issues. If an inspected fuel package is determined to be jeopardized because of corrosion then, retrieving the fuel package will be delayed until a recovery plan is developed/approved and readied to work. A conceptual design for retrievial equipment capable of safely lifting a jeopardized fuel package has been	3/20/2022 7/10/2023	
SNF013R2	D.1.02.32.31	IEC Ellsworth, Carla	Elsworth, Carla SNF NuPac 1258 Cask Transfers: Heavy Haul The subcontractor is unable to provide heavy haul services to relocate the NuPac 1258 casks on the specified dates.	Subcontractor has other jobs during the readiness time frame.	Open Closed	Threat Ac	ccept	Possible	Critical	4-High	\$ 1,231,258 \$	2,308,608 \$	2,616,422	96	180	204	Best Case: 96 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$1,231,258Most Likely: 180 days X 10 hr. X 13.36 FTEs X \$96/hr.=\$2,308,608Worst Case: 204 days X 10 hr. X 13.36 FTEs	N/A	developed and reviewed/approved by DOE.	3/20/2022 7/10/2023	
SNF015R2	D.1.02.32.31	IEC Ellsworth, Carla	N/A Advanced Test Reactor (ATR) SNF Receipt; IEC ATR Direct: IEC schedule delay caused by ATR. schedule Delay Caused by ATR.	Equipment and/or operations delays at ATR cause delayed or moved shipment dates to	Open	Threat Mit	itigate	Possible	Minor	2-Low	\$ 45,864 \$	214,032 \$	428,064	3	14	28	X \$96/hr.= \$2,616,422 Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr	Alternative work activities will me made available by upper management in the event		3/20/2022 7/10/2023	
SNF016R2	D.1.02.32.31	IEC Ellsworth, Carla	N/A Advanced Test Reactor (ATR) SNF Receipt: Destaco Clamps Malfunction  ATR-Direct: Destaco clamps are partially open or closed and prevent movement of fuel-loaded canisters.	INTEC. Destaco clamps found to be damaged or damaged when remotely attempting to open/close a clamp.	Open	Threat Ac	ccept	Possible	Critical	4-High	\$ 1,231,258 \$	2,308,608 \$	2,616,422	96	180	204	Worst Case: 28 days X 12 hr. X 13 -FEs X 596/hr. = \$1,231,258 Most Likely: 180 days X 10 hr. X 13.36 FTEs X 596/hr. = \$1,231,258 Most Likely: 180 days X 10 hr. X 13.36 FTEs X 596/hr. = \$2,308,608 Worst Case: 204 days X 10 hr. X 13.36 FTEs X 596/hr. = \$2,616,422	of an ATR schedule delay.  N/A	N/A	3/20/2022 7/10/2023	
SNF017R2	D.1.04.02.02 D.1.04.02.03	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Personnel Attrition Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized.	Open	Threat Ac	ccept	Rare	Moderate	1-Low	\$ 6,000 \$	120,000 \$	240,000	8	32	64	Best Case: 8 days X 10 hr,/day X 1 FTE X \$75/hr.  Most Likely Case: 32 days X 10 hr,/day X 5 FTEs X \$75/hr.  Worst Case: 64 days X 10 hr,/day X 5 FTEs X \$75/hr.	N/A	N/A	1/11/2023 7/10/2023	
SNF021R2	D.1.04.02.02	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Subcontract Not securing a subcontract that can do the work in the time allotte for the project can cause schedule delays.	d Subcontractor is not readily accessible to perform work.	Open	Threat Ac	ccept	Rare	Serious	2-Low	\$ 30,000 \$	60,000 \$	120,000	12	42	72	Best Case: 12 days (5% increase in subcontract cost) = \$600k X 5% Most Likely Case: 42 days (10% increase in subcontract cost) = \$600k X 10% Worst Case: 72 days (20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% April 20% increase in subcontract cost) = \$600k X 20% April 20% Ap	N/A	N/A	1/11/2023 7/10/2023	
SNF023R2	D.1.04.01.09	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Existing Power insufficient power supply to meet new design requirements.	Conceptual design identifies need for additional power.	Open	Threat Ac	ccept	Possible	Minor	2-Low	\$ 12,000 \$	30,000 \$	60,000	8	16	32	Best Case: 8 days (2% increase in subcontract cost) = \$600k X 2% Most Likely Case: 16 days (5% increase in subcontract cost) = \$600k X 5% Worst Case: 32 days (10% increase in subcontract cost) = \$600k	N/A	N/A	1/11/2023 7/10/2023	
SNF024R2	D.1.04.01.09	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Seismic Requirements Seismic requirements exceed CPP-2707 design requirements.	Conceptual design identifies need for increased protection.	Open	Threat Ac	ccept	Possible	Minor	2-Low	\$ 12,000 \$	30,000 \$	60,000	8	16	32	X 10%  Best Case: 8 days (2% increase in subcontract cost) = \$600k X 2%	N/A	N/A	1/11/2023 7/10/2023	
																	Most Likely Case: 16 days (5% increase in subcontract cost) = \$600k X 5%  Worst Case: 32 days (10% increase in subcontract cost) = \$600k				
SNF025R2	D.1.04.02.02	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Qualified Subcontractors Subcontractor not on Qualified Supplier List (QSL)	No qualified vendor identified during solicitation process.	Open	Threat Ac	ccept	Unlikely	Serious	2-Low	\$ 9,000 \$	157,500 \$	270,000	12	42	72	A 1078 Best Case: 12 days X 10 hr./day X 1 FTE X \$75/hr.  Most Likely Case: 42 days X 10 hr./day X 5 FTEs X \$75/hr.  Worst Case: 72 days X 10 hr./day X 5 FTEs X \$75/hr.	N/A	N/A	1/11/2023 7/10/2023	
SNF034	D.1.04.01.10	IEC Cotterell, Jaksen	N/A  SNF Staying Facility: IEC CD-1 Submittal Date In the event that project scope changes, which delays submittal of th CD-1 review, this could lead to losing our position in queue for DOE Board Reviews. If this risk were realized, it would subsequently delay project schedule.	E CD-1 submittal date is missed.	Open	Threat Ac	ccept	Likely	Serious	4-High	\$ 58,840 \$	95,040 \$	121,840	41	58		Best Case: 1FTE for 4 weeks © \$100/hr. and 1FTE for 2 weeks © \$80/hr. and 50,000 for subcontract design + 30dsy Most Likely: 1FTE for 4 weeks © \$100/hr. and 1FTE for 2 weeks © \$80/hr. and 80,000 for subcontract design + 60 days Worst Case: 1FTE for 4 weeks © \$100/hr. and 1FTE for 2 weeks © \$80/hr. and 100,000 for subcontract design + 90 days Each portion of design will need 10% of the subcontractor cost for IEC to manage.	N/A	N/A	4/23/2023 7/10/2023	
SNF036	D.1.04.02.02	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Geotechnical Findings Discovery of unforeseen cavities underground and/or soil with low		Open	Threat Ac	ccept	Unlikely	Moderate	2-Low	\$ 20,000 \$	32,000 \$	48,000	20	32	48	Review alternate locations and get DOE concurrence	Grout fill voids if they are minimal.	Design for ground stabilization to be performed based	4/23/2023 7/10/2023	
			bearing pressure may cause major ground stabilization activities.	bearing soil is found.													Best Case: 5 weeks Most Likely 8 weeks Worst case 12 weeks Each day will cost 1,000/day to relocate the pad.	adjust the location of the pad as necessary.	on soil investigation		
SNF037	D.1.04.02.02	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Subsurface Findings Unforeseen utilities and/or subsurface security systems that need to be rerouted based upon location of the staging facility.	Discovery of utility lines and/or subsurface security systems.	Open	Threat Ac	ccept	Possible	Moderate	2-Low	\$ 51,600 \$	126,000 \$	242,000	16	32		Best Case: Redesign the part to not impact existing infrastructure/Unities: 1 subcontrastor for 1 additional month worth of work for \$50K and 1 FTE in engineering for 1 month @ \$100/hr. Most Likely: 3 FTE for 2 months: @ \$100/hr. to design reroutes and \$30,000 in construction costs Worst Case: 3 FTE for 4 months: @ \$100/hr. to design reroute		Relocate the pad or change the shape of the pad to avoid existing utilities if possible	4/23/2023 7/10/2023	
SNF038	D.1.04.03.02	IEC Cotterell, Jaksen	Cotterell, Jaksen SNF Staging Facility: Existing Environmental Impact Statement does not encompass the staging Facility project requirements. A new environmental impact statement is required.	determines that a new EIS or environmental assessment is required for the interim	<del>Open</del> Closed	Threat Ac	ccept	Unlikely	Critical	3-Moderate	\$ 500,000 \$	750,000 \$	1,000,000	208	312	416	and \$50.000 in construction costs Best Case: 208 days and increase of \$500,000Most Likely Case: 312 days and increase of \$750,000Worst Case: 416 days and increase of \$1M	N/A	N/A	4/23/2023 7/10/2023	
SNF039	D.1.04.03.03	IEC Cotterell, Jaksen	N/A SNF Staging Facility: Nuclear Safety Documents  Per STD-1189-2016 it was determined that the Staging Facility will be a simple modification and be able to fall under existing SAR 112 and SAR 114. This means that a Safety Design Strategy will not be performed for this project. The building may not be a simple mod and that a Safety design strategy will be required.	Facility is a major modification.	Open	Threat Ac	ccept	Possible	Critical	4-High	\$ 500,000 \$	750,000 \$	1,000,000	104	156	208	Best Case: 104 days and increase of \$500,000 Most Likely Case: 156 days and increase of \$750,000 Worst Case: 208 days and increase of \$1M	N/A	Discuss safety design strategy early in the project and frequently. IEC to state position and work with DOE Nuclear Safety group	4/23/2023 7/10/2023	
SNF042	D.1.04.02.02	IEC Cotterell, Jaksen	N/A  SNF Staging Facility: Security System and Facility Design Contract  One subcontractor will be utilized for the design of the facility and security system. If we cannot retain a subcontractor who will design both under one contract, we will need to identify a separate subcontractor for each design. The drawbacks with this scenario include: the statement of work would have to be reconfigured into two separate contracts, solicitation, and additional work to place the subcontractors on the Qualified Supplier List.	subcontractor to perform both designs.	Open	Threat Ac	ccept	Possible	Moderate	2-Low	\$ 15,600 \$	31,600 \$	71,600	24	32		Develop a second SOW, work through a second contract through subcontract administration. Additional coordination for EC to manage two engineering firms and process paperwork.  Best Case: 2 weeks @ 40hr./week x1 FTE @ \$100/hr.+ 4 weeks @ 95 hr. for sub administration @ \$80/hr.  Most Likely: 4 weeks @ 40hr./week x1.5 FTE @ \$100/hr.+ 4 weeks @ 95 hr. for sub administration @ \$80/hr.  Worst Case: 8 weeks @ 40hr./week x2 FTE @ \$100/hr.+ 6 weeks @ 95 hr. for sub administration @ \$80/hr.	N/A	Segregate the requirement of 1 contract. Develop a second statement of work and contract a local engineering firm to perform the security design.	4/23/2023 7/10/2023	
SNF051	D.1.02.36.07	IEC Reynolds, Boedre	N/A SNF Road Ready: Training Delay  A subcontractor is planned to provide training on Multipurpose  Canisters and dosure/leak test procedures as well as the welding equipment, which leaves the possibility of project schedule delays if subcontractor is delayed.	Training received from subcontractor is delayed.						3-Moderate		150,000 \$	·				Best Case: 64 days plus equipment/materials Most Likely Case: 96 days plus equipment/materials Worst Case: 128 days plus equipment/materials	N/A	N/A	4/23/2023 7/10/2023	
SNF054	D.1.02.34.02	IEC Reynolds, Boedre	N/A Peach Bottom: Mobile Crane Maintenance Exceeding the Mobile Crane manufacturers recommended operating hours for performing routine maintenance delays Peach Bottom transfers.	Mobile Crane operator observes the machines monitoring system and concludes the manufactures recommended operating hours are exceeded.	Open	Threat Mit	itigate	Possible	Minor	2-Low	\$ 15,500 \$	46,000 \$	62,000	1	2	4	Best Case: 1 day plus equipment/materials Most Likely Case 2 days plus equipment/materials Worst Case: 4 days plus equipment/materials	1.] Increase periodicity of planned maintenance. 2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendation. 3) The Crane will be removed and sent to CFA bits shoot for preventative maintenance.	N/A	4/23/2023 7/10/2023	

TRU033	D.2.03.36.05	IEC	Vargesko, Matt		Shipment Destination	issues at the pallet and/or macrobag vendor site may disrupt our ability to acquire these materials in a timely manner. Not being able to procure the needed materials may delay onsite macroencapsulation (IMACRO) and/or packaging operations. This may cause enough delay to cancel scheduled shipments of treated waste to offsite Treatment, Storage, and Disposal Facilities (TSDFs). If we must go to another vendor for materials, it can increase material cost. If we must ship to a commercial facility instead of the Nevada National Security Site (NNSS), it will greatly increase cost.	request.	Open	Threat	Mitigate	Possible	Minor	2-Low	N \$60,000 \$15,000	\$ <del>60,000</del> \$ 15,000	\$	114,000 8	16 8	32	Best Case: We continue to order MACRO bags and pallets for MLLW shipments, which nosts approx. \$15,000 per shipment. Most Likely: We continue to order MACRO bags and pallets for MLLW shipments, which costs approx. \$15,000 per shipment. Worst Case: We cannot equire MACRO bags and must ship a 88-90 shipment to WCS instead of NNSS. 6 8R-90s = 2.55 * 6 : \$15.3m. 1.53.3m astrocencepsulation at WCS costs \$7449.11 per m3. 15.3 *57449.11 = \$113,971 = \$114,000.	MACRO Dags and pallets, and procure a diditional back-up pallets to ensure packaging operations remain uninterrupted.	N/A	4/23/2023	
TRU034	D.2.03.32.04	IEC	Martin/Loftus		CH-TRU Treatment Facility Support: Difficult Waste Stream	Delays associated with the treatment of the AE 102/105 waste that prevent the start of the PCB Waste campaign.	Discovery during processing.	Open	Threat	Mitigate	Likely	Moderate	3-Modera	rate \$	24,000 \$	48,000 \$	96,000 16	32	64	Best Case: 16 days x 10 hr./day x 2 people x \$75/hr. = \$24,000 Most Likely: 32 days x 10 hr./day x 2 people x \$75/hr. = \$48,00 Worst Case: 64 days x 10 hr./day x 2 people x \$75/hr. = \$96,00	0 any schedule slippage and prevent total	N/A	4/23/2023	7/10/2023
TRU035	D.2.03.32.05	IEC	Martin/Loftus		CH-TRU Treatment Facility Support: Equipment Breakdown	Box lines, the Super-compactor, or both are offline for a period of time as they are aging equipment in an aging facility.		Open	Threat	Mitigate	Possible	Serious			96,000 \$	192,000 \$	384,000 32	64		Best Case: 32 days x 10 hr /day x 4 people x 575/hr. = \$96,000 Most Likely: 64 days x 10 hr /day x 4 people x \$75/hr. = \$192,000 Worst Case: 128 days x 10 hr /day x 4 people x \$75/hr. = \$384,000	any schedule slippage and prevent total schedule loss.		4/23/2023	
TRU036	D.2.03.32.05	IEC	Martin/Loftus		CH-TRU Treatment Facility Support: Ammonium Nitrate Changeover	Difficulty/delays caused by not being able to determine the best path forward to be able to treat and package Ammonium Nitrate bearing waste in a safe and compliant manner.	reprocessing or testing.	Open	Threat	Mitigate	Likely	Serious			96,000 \$	192,000 \$	384,000 32			Best Case: 32 days x 10 hr./day x 4 people x \$75/hr. = \$96,000 Most Likely: 64 days x 10 hr./day x 4 people x \$75/hr. = \$132,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr. = \$384,000	any schedule slippage and prevent total schedule loss.		4/23/2023	
TRU039	D.2.03.37.04	IEC	Martin/Loftus		<u>AMWTP 80P Maintenance</u> : Replacement Parts Are Out of Compliance or Unavailable	Advanced Mixed Waste Treatment Project (AMWTP) is an aging facility and project in need of constant repairs for continued operations.	Parts and equipment are unavailable or obsolete to keep equipment operating.	Open	Threat	Mitigate	Likely	Serious	4-High	s s	48,000 \$	192,000 \$	384,000 16	64	128	Best Case: 16 days x 10 hr /day x 4 people x 575/hr. = \$48,000 Most Likely: 64 days x 10 hr /day x 4 people x 575/hr. = \$192,000 Worst Case: 128 days x 10 hr /day x 4 people x 575/hr. = \$384,000	Innitiate planned and regular communication with purchasing department and vendors to ensure that necessary items are stocked ahead of time to meet work scope demands and with additional stock for back-up purposes.	N/A	4/23/2023	7/10/2023
TRU040	D.2.03.34.05	IEC	Byram, George		Complete Potential Classified Document Reviews	If BEA is not available to complete potential classified document reviews, then reviews of required Waste Isolation Pilot Plant (WIPP) documents cannot be completed.	reviews.		Threat	·	Likely	Critical			156,000 \$	312,000 \$	468,000 104			Best Case: 104 days x 10 hr,/day x 2 people x \$75/hr. = \$156,000 Most Likely: 208 days x 10 hr,/day x 2 people x \$75/hr. = \$312,000 Worst Case: 312 days x 10 hr,/day x 2 people x \$75/hr. = \$468,000	N/A	Attempt to ensure documents can be provided for CBFO review to support waste certification and the annual recertification audit.	6/15/2023	
TRU041	D.2.05.30.17	IEC	Zovi, James	Zovi, James	Non-AMWTP Treatment and Disposal: Equipment Failure	In the event that equipment fails, it will need to be repaired or the project will need to procure a replacement.	If any of the following equipment fails: Bobcat 650, Telehandler TL923, Iron Bull Deck Over 5th Wheel.	Open Price Option	Threat	Mitigate	Likely	Moderate	3-Modera	rate \$	118,000 \$	236,000 \$	354,000 16	32	48	Equipment Costs per DCES sheet / Lease Rates for Equipment Total \$56,700 - 20% Equipment Potential Failures - Daily Rates 20% Higher than Monthly Rates		2	4/23/2023	//10/2023
TRU042	D.2.05.30.18	IEC	Zovi, James		Non-AMWTP Treatment and Disposal: Treatment, Storage, and Disposal Facility (TSDF) Closure	will be delayed. It may then become necessary to work overtime to recover schedule.	TSDF discontinues receiving of waste.	Open Price Option	Threat	Mitigate	Possible	Minor	2-Low		78,720 \$	118,800 \$	158,400 8	12		Best Case: 8 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.)Most Likely Case: 12 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.)Worst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.)Worst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.)			4/23/2023	
TRU043	D.2.05.30.19	IEC	Zovi, Bruno	Orme, Jason		During the verification process, if a waste container(s) is found to not be in accordance with the TSDF Waste Acceptance Criteria (WAC), the waste will need to be reworked.		Open	Threat	Mitigate	<del>Possible</del> Rare	Minor	2 Low		54,000 \$	81,000 \$	108,000 4	6	8	Certification rework and repackaging to meet Waste Acceptance Criteria	Ensure proper training and qualifications	N/A	4/23/2023	7/10/2023
TRUO49	D2.03.36.04	IEC	Vargesko, Matthew	Vargesko, Matthew	Generated RCRA Waste	Resource Conservation and Recovery Act (RCRA) waste that is generated as part IEC operations must be shipped offsts within 1 year of generation or IEC must provide documentation for wastes with no abath to disposition. There is risk for funding to not be adequate for this scope due to it taking lower priority. If this risk were to materialize, it would affect shipments to commercial facilities (i.e. Energy Solutions (ISS), Waste Control Specialists (WCS), Perma-Fix Honda (PFF)).  If we fail to meet the one year to get rid of our New Gen RCRA waste, the DEQ (or EPAI fa superseded) will likely issue a compliance order, unless we can prove why we need to exceed the one year. It is not likely they will extend the one year for routine Newly Generated RCRA waste (i.e. there is no special waste content reason, only funding being the issue). If they issue a compliance order, and we don't meet the terms per their timeline, they can charge us 537.50 per day until resolved. Not only will there be financial risk, but we also risk suspension/losing our RCRA Permitty) based on the following rule: \$3008(1): Violation of Compliance Orders If a violator fails to take corrective action within the time specified in a compliance order, the Administrator may assess a civil penalty of not more than \$375.00 for each day of continued noncompliance with the order. In addition, the EPA Administrator may suspend or revoke any permit issued to the violator (whether issued by the Administrator or the State).  If our RCRA permit is suspended or revoked, it takes quite some time to get it back, more than likely 1-2 years. This would greatly impact current operations, as well as STP milestones.	RCRA waste is not shipped in acceptable	Open	Threat	Accept	Possible	Minor	2-Low	S	37,000 S	150,000 \$	600,000 1	4	16	§3008(c): Violation of Compliance Orders If a violator fails to take corrective action within the time specified in a compliance order, the Administrator may assess civil penalty of not more than \$37,500 for each day of continued noncompliance with the order. In addition, the PA Administrator may suspend or revoke any permit issued to the violator (whether issued by the Administrator or the State). If our RCRA permit is suspended or revoked, it takes guite soon men to get it back, more than likely 1-2 years. The costs associated with permit suspension/revocation are unknown above and beyond the daily costs of the penalty fees due to the large programmatic impact of such an event.	e	N/A	3/1/2024	None



## CID 89303321DEM000061/89304223FEM400000, Mod P00026 CLIN 07, Subtask 701 Task Order 7.1

## TO7 Risk Register

Idaho Cleanup Project Programmatic Risk Register

pdated : 3.10.24			-												Cost Impacts		Seh	hedule Impacts	(in days)					
puace : 5.10.24		Responsible		IEC Risk Back							Risk Event				Cost Impacts		SCI	leduk Impacts	(iii days)			Mitigation Activities (P6 activity that points to your	Date	
Risk ID	WBS	Organization	Risk Owner	up	Risk Title	Risk Description	Trigger Event	Status	Risk Type	Handling Strategy		Risk Impact	Risk Rating	Best Case	Most Likely	Worst Case	Best Case	Most Likel	y Worst Cas	se Basis of Impacts	Mitigation Actions	mitigation action) Risk Corrective Actions		Last upda
ΓU001R2	D.3.06	IEC	Nahay, Jordan T	N/A	not decontaminate the canisters to	The Canister Decon System will not effectively or efficiently decontaminate the canister to levels acceptable for transfer between the Can Fill Cells and the canister storage vault and/or contamination spreads during can fill operations and the robotic decon system cannot remove sufficient contamination from the outside of a canister. This will most likely cause a spread of contamination outside of the can fill cells, thereby requiring additional contamination control mitigation.	:	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 84,000	\$ 180,00	900,000	14	30	150	Best Case: 14 days X 10 hr/day X 6 FTE X 5100/hr = 584,000 Most Likely Case: 30 days X 10 hr/day X 6 FTE X 5100/hr = 5180,000 Worst Case: 150 days X 10 hr/day X 6 FTE X 5100/hr= 5900,000	N/A	N/A	3/20/2022	6/22/2023
TU009aR2	D.3.06.70.01	IEC	Nowak, Joel T	N/A	<u>IWTU</u> : Lack of resources	Completing IWTU scope will be impacted due to a lack of resources.	The project cannot staff up as planned to support scheduled work.	Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 133,920	\$ 267,84	00 \$ 401,760	12	24	36	Best Case: 12 days x 10 hrs/day x 12 people x 593/hr = \$133,920 Most Likely: 24 days x 10 hrs/day x 12 people x 593/hr = \$267,940 Worst Case: 36 days x 10 hrs/day x 12 people x \$93/hr = \$401,760	fill these gaps with subcontracted labo and hiring additional planners and supervisors. Routine communication		3/20/2022	6/22/2023
TU010R2	D.3.06	IEC	Nahay, Jordan T		IWTU: The simulant is not fully representative of actual waste.	Simulant is not fully representative of actual waste. For example mercury and heavy metals have not been included in the simulant. This may result in system performance problems causing delays.	, Introduction of actual waste causes plant performance problems.	Realized	Threat	Mitigate	Almost Certain	Serious	S-Very High	\$ 32,000	\$ 460,00	00 \$ 1,740,000	0 16	60	180	Best Case - 16 days X 10 hr/day X 2 FTE X \$100/hr= \$32,000 Most Likely Case - 60 days X 10 hr/day X 6 FTE : \$100/hr= \$360,000, Material Cost = \$100,000 Worst Case - 180 days X 10 hr/day X 8 FTE X \$100/hr= \$1.44M, Material Cost= \$300,000			3/20/2022	3/10/2024
TU016R2	D.3.06.78.01	IEC	Nahay, Jordan T	N/A		The GAC replacement will extend the current GAC outage schedule due to equipment design, procurement, and installatio requirements during the outage.	Delays in GAC replacement delays in completion of GAC Outage.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 216,240	\$ 432,48	80 \$ 864,960	4	8	16	Best Case: 4 days x 12 hrs/day x 17 people x 5265/hr = \$216,240 Most Likely: 8 days x 12 hrs/day x 17 people x \$265/hr = \$432,480 Worst Case: 16 days x 12 hrs/day x 17 people x \$265/hr = \$864,960	Subcontractor to work additional days to complete GAC replacement.	WTU7GACB1-R16	3/20/2022	6/22/2023
TU030R2	D.3.06.70.01	IEC	Nowak, Joel T			The wet decon rebuild has issues that do not allow the wet decon system to fully function as designed.	Unsuccessful operation of wet decon system.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 50,000	\$ 90,00	\$ 270,000	16	30	90	Best Case: 16 days X 10 hr/day X 2 FTE X \$100/hr= \$32,000 Most Likely Case: 30 days X 10 hr/day X 3 FTE X \$100/hr= \$90,000 Worst Case: 90 days X 10 hr/day X 3 FTE X \$100/hr= \$270,000	N/A	N/A Upon completion of project testing significant spares were ordered and have been received. Redundant colloid mills and strainers.	3/20/2022	6/22/2023
TU036R2	D.3.06.73.01	IEC	Nahay, Jordan T		IWTU PSB: Change orders Requiring Major Design Changes.	Change orders requiring major design changes are issued during excavation or construction, causing an increase in cost and schedule.	A change order requiring extensive re- design is issued during construction.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 180,000	\$ 270,00	00 \$ 405,000	20	30	45	Best Case: 20 days x 10 hrs/day x 4 people x \$225/hr = \$180,000 Most Likely: 30 days x 10 hrs/day x 4 people x	Engineering during additional walkdowns and reviews to identify potential issues before they impact	WTU7PSB-R36	3/20/2022	6/22/2023
TU037R2	D.3.06.73.01	IEC	Nahay, Jordan T	N/A	IWTU PSB: Multiple minor change orders issued during construction.	Multiple minor change orders are issued during construction, causing schedule delays and cost increases.	Multiple minor change orders are issued during construction or excavation.	Open	Threat	Mitigate	Possible Almost Certain	Minor	3-Moderate	\$ 89,280	\$ 178,56	50 \$ 334,800	8	16	30	Best Case: 8 days x 10 hrs/day x 12 people x \$93/hr = \$89,280 Most Likely: 16 days x 10 hrs/day x 12 people x	potential issues before they impact	WTU7PS8-R37	3/20/2022	6/22/2023
TU041R2	D.3.06.75.01	IEC	Oliver, David M	N/A		Vendor weld prepping of existing canisters cannot keep pace with IWTU production.	Onsite weld prepped canisters fall <120 canisters.	Open	Threat	Mitigate	Rare	Minor	1-Low	\$ 36,000	\$ 60,00	\$ 90,000	0 2	9	13	Best Case: \$300/canister expedite fee x 120 canisters = \$36,000 Most tilkely: \$300/canister expedite fee x 200 canisters = \$60,000 Worst Case: \$300/canister expedite fee x 300 canisters = \$90,000	canisters and excel shipping of	WTU7CAN-R41	3/20/2022	3/10/2024
TU043R2	D.3.06.75.01	IEC	Oliver, David M	N/A	IWTU: Weld prep damages welds and canisters.	Weld Prep damages the weld and canister on a few canisters (<5).	Five canisters fail inspection after weld prep.	Open	Threat	Mitigate	Unlikely	Minor	2-Low	\$ 2,000	\$ 8,00	00 \$ 22,000	0 4	8	12	Best Case: Additional rework on 1 canister Most Likely: Additional rework on 5 canisters Worst Case: New canister \$22,900	Order back-up replacement canisters.	WTU7CAN-R43	3/20/2022	6/22/2023
TU049	D.3.06.78.01	IEC	Oliver, David M	N/A	IWTU: Unable to release vendor supplied equipment for GAC replacement.	Added cost due to the required purchase of vendor supplied equipment	Detectable contamination found on vendor supplied equipment.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 247,200	\$ 350,00	00 \$ 853,200	1	2	3	Best Case: \$247,200 for equipment Most Likely: \$350,000 for equipment Worst Case: \$853,200 for equipment	N/A	N/A	4/23/2023	6/22/2023
TU053	D.3.06.73.01	IEC	Oliver, David M	N/A	IWTU: PSB II construction is delayed.	Delays in PSB II construction results in inadequate storage capacity and operational delays.	PSB I is full and construction of PSB II is incomplete.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 150,000	\$ 300,00	\$ 600,000	10	10	20	Best Case: 10 days X 10 hr/day X 10 FTE X \$150/hr= \$150,000 Most Likely Case: 10 days X 10 hr/day X 20 FTE X \$150/hr= \$300,000 Worst Case: 20 days X 10 hr/day X 20 FTE X \$150/hr= \$600,000	Use additional overtime resources to complete PSB-II as soon as possible.	WTU7PSB-RS3	4/23/2023	6/22/2023
TU054b	D.3.06	IEC	Nahay, Jordan T	N/A	IWTU: BEA Support Services do not Meet IWTU Scheduled Need Dates.	IEC relies on BEA for support services on Milestones, regulatory commitments, and scope completion. If the work from BEA is delayed, or does not meet the requirements, it can cause a project schedule impact.		Open	Threat	Shared	Unlikely	Moderate	2-Low	\$93,000	\$390,6	\$1,116,00	5	21	60	Best Case: 5 days X 10 hrs/dy X 20 FTEs X \$93/hr Most Likely Case: 21 days X 10 hrs/dy X 20 FTE X \$93/hr Worst Case: 60 days X 10 hrs/dy X 20 FTEs X \$93/hr	Propose sharing risk with DOE.	N/A	2/2/2023	9/11/2023
TU055	D.3.06.77.01 D.3.06.77.02				storage.	If subcontractor is unable to produce additional Vault construction by the time they are needed the project will run ou of Vaults for waste canister storage. With only 5 vaults remainin, for storage the project anticpates running out by approximately April 2024.	g filled.		Threat	Accept	Almost Certain					40 \$ 43,714,260		120		Best Case: 60 days X \$242,857/dy Most Likely Case: 120 days X \$242,857/dy Worst Case: 180 days X \$242,857/dy	N/A	N/A		3 3/10/2
TU056	D.3.06.75.02	IEC	Oliver, David M	N/A	<u>IWTU:</u> No waste canisters availble for storage.	If subcontractor is unable to produce additional waste canister production by the time they are needed the project will run out of waste canisters. With only 80 canisters remaining for storage the project anticpates running out by approximately May 2024.	after reamining 80 canisters are filled.	Open	Threat	Accept	Almost Certain	Critical	5-Very High	\$ 7,285,710	\$ 10,928,56	55 \$ 14,571,420	0 30	45	60	Best Case: 30 days X \$242,857/dy Most Likely Case: 45 days X \$242,857/dy Worst Case: 60 days X \$242,857/dy	N/A	N/A	6/19/202	3 3/10/20